# AMBIENT AIR EVALUATION

**FOR**

**FORMER ACME INDUSTRIES FACILITY**
**MECHANIC STREET**
**JACKSON, MICHIGAN**

**February 21, 2012**

**Prepared for:**
**Jackson County Brownfield Redevelopment Authority**
**Cooperative Agreements BF-00E64701-0 and 2B00E87601-1**

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## INTRODUCTION

This investigation of the former Acme Industries (refer to Figure 1 in Appendix A for location) was supported by the Jackson County Brownfield Redevelopment Authority (JCBRA) under U.S. EPA Brownfield Assessment Grant BF-OOE64701-0 and U.S. EPA Brownfield Cleanup Revolving Loan Fund 2B00E87601-1 as well as a Michigan Department of Environmental Quality (MDEQ) U.S. EPA Site Assessment grant. The eligibility of this site to use assessment and RLF grant funds was approved by the U.S. EPA on July 24, 2009 and February 16, 2011. A sampling plan was submitted to USEPA for the Ambient Air Evaluation and was approved on August 2, 2011 (refer to Appendix B).

### Purpose

The purpose of this investigation was to further define the horizontal and vertical extent of carbon tetrachloride contamination in soil in specific areas beneath the former building(s) such that a determination could be made whether site conditions posed unacceptable risks by the inhalation of ambient air on the site. The purpose of this report is to present findings of the evaluation and document risks, if any, posed by site conditions.

### Scope

The scope of the investigation and therefore, this report, address two “hot spots” (Figure 2 in Appendix A) where concentrations of carbon tetrachloride in soil exceeded the generic, infinite source, non-residential ambient air inhalation criteria (Volatile Soil Inhalation Criteria - VSIC) identified by previous investigations. This investigation focused on collecting additional data from these hot spots to determine source thickness (thickness of the contaminated zone), source depth, and lateral extent of carbon tetrachloride in soil. This report presents the results and justification for application of the VSIC criteria and concludes whether an unacceptable exposure exists by inhaling ambient air at the site. This report also discusses other potential exposures posed by the presence of volatile organic contaminants other than carbon tetrachloride.



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## BACKGROUND

The former Acme Industries is one of the earlier manufacturing sites in the city of Jackson. First developed as early as 1886, the site has been occupied by various manufacturers. Products manufactured at the property have included farm implements, wagons, and later, heating and cooling equipment. Operations at the site ceased in the late 1980s and the buildings on site had been vacant since that time. Since its closure in the late 1980s, numerous studies, including Phase I and II Environmental Site Assessments, have been conducted on the property to determine its environmental condition. In 2010 the buildings comprising the Acme facility were demolished.

Historical investigations of the facility have revealed that soil and groundwater contamination consisting of various compounds exists beneath the former buildings. Results of the investigations suggest that concentrations of contaminants in groundwater do not pose an immediate threat to public health within the current and future planned uses of the property. However, contaminant concentrations in soil, specifically, carbon tetrachloride, exceeded the State of Michigan generic ambient air inhalation criteria (VSIC). Two hot spots were identified that potentially could pose an ambient air inhalation hazard (Figure 2 in Appendix A).

Plans for the property are to create a public parking space to support nearby developments – notably Armory Arts (apartments and arts-based community center), Art 634 (art studios, retail and art-centered classrooms), Goodwill Industries, the County Fairgrounds, and other nearby properties. Because of the desire to allow public access to the property, it is necessary to first determine and evaluate the public's exposures to these contaminants and demonstrate a means by which the property can be safely utilized.



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## ASSESSMENT DESCRIPTION

### Data Quality Objectives

The primary focus of this assessment was to further evaluate the two hot spots to determine if an ambient air inhalation of carbon tetrachloride hazard exists (refer to DQO#1 in the Sampling Plan included in Appendix B). As such, all resources, time and budget, were prioritized to accomplish DQO #1. Consequently, no activities were implemented to address DQO #2. During the investigation, however, two additional borings were added (SS-68, SS-69) to the DQO#1 scope to provide additional and more complete data. Refer to Table 1 for specific data quality objectives of DQO #1.

**Table 1: Data Quality Objectives**

| ▪ **DQO #1: Do the concentrations of carbon tetrachloride pose an ambient air inhalation risk?** | | |
|---|---|---|
| Soil Borings: SS-2, 3, 4, 5, 33, 34, 37, 38, 52, 53, 54, 55, 56, 57, 68*, 69* | *Location Rationale* | These locations represent the two areas of concern where the concentrations of carbon tetrachloride exceed the generic infinite source VSIC. These locations serve to define the horizontal, vertical and thickness of the contaminated zone. |
| | *Sampling Depth/Interval* | The projected depth of each soil boring is a maximum of 20 feet or until groundwater saturation is encountered. Groundwater is expected to be less than 20 feet below grade. |
| | *Depth/Interval Rationale* | Sampling depths will vary depending on the availability of previous data or lack thereof, the presence of organic vapor, or other evidence of contamination. For physical characterization, selected soil samples will be representative of differing lithology (sand, clay, bedrock, etc). |
| | *Media Sampled* | Soil, bedrock |
| | *Parameters* | The target chemical compound is carbon tetrachloride. However, because other contaminants are known to be present, each sample submitted for chemical analyses was subjected to an EPA Method 8260 scan for volatiles. Physical analyses will include dry bulk density, fraction of organic carbon, soil water-filled porosity, and soil air-filled porosity. |
| | *Parameter Rationale* | The concentrations of carbon tetrachloride exceed the generic VSIC criteria for an infinite source. The other Method 8260 volatiles have been added since these data do not exist for some of the boring locations. The physical analyses will be used to calculate site specific VSIC criteria. |
| *soil borings were added during the investigation | | |



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**Ambient Air Testing**

On July 8, 2011 BDN Industrial Hygiene Consultants (BDN), under the direction and supervision of Envirologic, collected five samples of ambient air on the subject property in various locations. The locations corresponded to the downwind direction of borings where analytical results of soil samples exhibited carbon tetrachloride concentrations in excess of the generic VSIC. The purpose of these samples was to confirm that in an undisturbed state, the site was safe to access. BDN followed OSHA Method No.7/NIOSH Method 1003 sampling protocol. The target compound was carbon tetrachloride. Refer to Appendix C for sampling procedures and protocols.

To further evaluate potential worker exposure to carbon tetrachloride during the investigation, Envirologic directed and supervised BDN in collecting ambient air samples during the initial two days of the investigation. Two site workers (lead driller and geologist) were fitted with personal air-sampling devices designed to collect ambient air samples in the work zone. These two workers were chosen based on their potential of greater exposure to carbon tetrachloride as samples were brought to the surface and manipulated by the field geologist. On the second day of the investigation, two site workers (field geologist and driller's assistant) were again outfitted with the personal sampling devices. The sampling time each day varied from 361 to 401 minutes. Refer to Appendix C for sampling procedures and protocols.

**Site Preparation**

On August 15, 2011 Envirologic mobilized to the site to locate existing boring locations that were to be re-assessed and to mark new locations. The existing locations were found using a Trimble GeoExplorer XH global positioning system (GPS) device. On August 16, 2011, Envirologic directed and supervised K&H Concrete Cutting to core the concrete surface at the various proposed boring locations.

**Field Activities**

Envirologic and West Michigan Drilling (a dba of Envirologic) advanced 16 soil borings during the week beginning August 22, 2011 and ending August 26, 2011. The soil borings were distributed throughout the two hot spots previously identified (refer Figure 3 in Appendix A). Seven of the borings were new locations, while the remaining nine were placed in previous locations so that additional samples at greater depths could be collected and analyzed. Borings were advanced to depths ranging from 17 feet below grade to as deep as 29 feet below grade. Soil samples were collected nearly continuously to the end of the boring. Drill tooling and methods used were



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capable of penetrating bedrock, thereby allowing for samples to be collected at greater depths. An Envirologic geologist characterized and geologically described each soil sample on a field boring log. Observations for visual staining and odors were also recorded. A Rae Systems Model 3000 Photoionization Detector (PID) equipped with an 11.7 eV lamp was used to field screen all soil samples for organic vapors. Vapor readings were also recorded on the field boring log.

One hundred and thirty one (131) soil samples were selected for volatile organic compounds analysis. Refer to Table 2 for a list of compounds. Samples were selected based on field observations for staining, odor, and field screening results as well as sample depths necessary to narrowly define the vertical extent and thickness of soil contamination. Samples were collected using U.S. EPA Method 5035, placed in properly preserved containers and stored in a chilled cooler filled with ice. At the end of each day the samples were relinquished to Mr. Joe Walczak from the MDEQ under chain of custody procedures. The samples were transported by Mr. Walczak to the MDEQ Environmental Laboratory (Lansing, Michigan). Analyses were performed by the MDEQ Environmental Laboratory and its subcontract laboratory, Trace Analytical Laboratories, Inc. (Muskegon, Michigan).

All boring locations advanced during this assessment were located/relocated using a Trimble GeoXH GPS unit.

Because the nature of this investigation was focused solely on the pathway evaluation of soil contaminants volatilizing to ambient air, collection and analysis of groundwater samples was not relevant.



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**Table 2 – Analytical Parameter List**

| Parameter | CAS# |
|---|---|
| **1,1,1,2-Tetrachloroethane** | 630-20-6 |
| **1,1,1-Trichloroethane** | 71-55-6 |
| **1,1,2,2-Tetrachloroethane** | 79-34-5 |
| **1,1,2-Trichloroethane** | 79-00-5 |
| **1,1-Dichloroethane** | 75-34-3 |
| **1,1-Dichloroethylene** | 75-35-4 |
| **1,2,3-Trichlorobenzene** | 87-61-6 |
| **1,2,3-Trichloroprop** | 96-18-4 |
| **1,2,3-Trimethylbenzene** | 526-73-8 |
| **1,2,4-Trichlorobenz** | 120-82-1 |
| **1,2,4-Trimethylbenz** | 95-63-6 |
| **1,2-Dibromo-3-chlo** | 96-12-8 |
| **1,2-Dibromoethane** | 106-93-4 |
| **1,2-Dichlorobenzen** | 95-50-1 |
| **1,2-Dichloroethane** | 107-06-2 |
| **1,2-Dichloropropane** | 78-87-5 |
| **1,3,5-Trimethylbenz** | 108-67-8 |
| **1,3-Dichlorobenzen** | 541-73-1 |
| **1,4-Dichlorobenzen** | 106-46-7 |
| **2-Butanone (MEK)** | 78-93-3 |
| **2-Hexanone** | 591-78-6 |
| **2-Methylnaphthalen** | 91-57-6 |
| **2-Propanone (aceton** | 67-64-1 |
| **4-Methyl-2-pentano** | 108-10-1 |
| **Acrylonitrile** | 107-13-1 |
| **Benzene** | 71-43-2 |
| **Bromobenzene** | 108-86-1 |
| **Bromochloromethan** | 74-97-5 |
| **Bromodichlorometh** | 75-27-4 |
| **Bromoform** | 75-25-2 |
| **Bromomethane** | 74-83-9 |
| **Carbon disulfide** | 75-15-0 |
| **Carbon tetrachloride** | 56-23-5 |
| **Chlorobenzene** | 108-90-7 |
| **Chloroethane** | 75-00-3 |
| **Chloroform** | 67-66-3 |

| | |
|---|---|
| **Chloromethane** | 74-87-3 |
| **Parameter** | **CAS#** |
| **cis-1,2-Dichloroethylene** | 156-59-2 |
| **cis-1,3-Dichloroprop** | 10061-01-5 |
| **Cyclohexane** | 110-82-7 |
| **Dibromochlorometh** | 124-48-1 |
| **Dibromomethane** | 74-95-3 |
| **Dichlorodifluorome** | 75-71-8 |
| **Diethyl ether** | 60-29-7 |
| **Diisopropyl Ether** | 108-20-3 |
| **Ethylbenzene** | 100-41-4 |
| **Ethyltertiarybutylether** | 637-92-3 |
| **Hexachloroethane** | 67-72-1 |
| **Isopropylbenzene** | 98-82-8 |
| **m & p - Xylene** | 108383,106423 |
| **Methyl iodide** | 74-88-4 |
| **Methylene chloride** | 75-09-2 |
| **Methyltertiarybutyle** | 1634-04-4 |
| **Naphthalene** | 91-20-3 |
| **n-Butylbenzene** | 104-51-8 |
| **n-Propylbenzene** | 103-65-1 |
| **o-Xylene** | 95-47-6 |
| **p-Isopropyl toluene** | 99-87-6 |
| **sec-Butylbenzene** | 135-98-8 |
| **Styrene** | 100-42-5 |
| **tert-Butylbenzene** | 98-06-6 |
| **tertiary Butyl Alcoh** | 75-65-0 |
| **tertiaryAmylmethyle** | 994-05-8 |
| **Tetrachloroethylene** | 127-18-4 |
| **Tetrahydrofuran** | 109-99-9 |
| **Toluene** | 108-88-3 |
| **trans-1,2-Dichloroet** | 156-60-5 |
| **trans-1,3-Dichloropr** | 10061-02-6 |
| **trans-1,4-Dichloro-2** | 110-57-6 |
| **Trichloroethylene** | 79-01-6 |
| **Trichlorofluorometh** | 75-69-4 |
| **Vinyl chloride** | 75-01-4 |



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## QUALITY ASSURANCE

Sampling activities and field procedures were completed in accordance with JCBRA's approved Quality Assurance Project Plan (QAPP) that was prepared by Envirologic and approved by the U.S. EPA. Envirologic collected the QA/QC samples as specified in the QAPP which are listed in Table 3.

**Table 3: QA/QC Samples**

| Number of Samples | QA\QC Sample Type | Frequency of Sample Collection and Analysis | Sample Analyses |
|---|---|---|---|
| 7 | Duplicate (Collocated) Sample | 1 duplicate per 20 samples, minimum of 1 per sample event | VOCs |
| 5 | Trip Blank | 1 trip blank per cooler containing samples for VOC analyses | VOCs |
| 1 | Field Blank | 1 methanol blank per laboratory lot for VOC analyses | VOCs |
| 4 | Equipment Blanks | 1 equipment blank per day of soil sampling activity. | VOCs |
| 4 | Matrix Spike / Matrix Spike Duplicate | 1 MS/MSD per 20 samples or as specified in the lab SOPs | VOCs |



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## INVESTIGATION RESULTS

### Ambient Air Sampling

*Initial Ambient Air Sampling*

Results of the five ambient air samples collected by BDN prior to work commencing on the site indicated that no carbon tetrachloride was detected. These results suggest that the ambient air does not pose an unacceptable exposure to inhalation of ambient air while the site is in an undisturbed state. Further, with no detection of carbon tetrachloride, the MIOSHA Permissible Exposure Limit (based on an eight-hour time-weighted average) of 2.0 ppm was not exceeded. The results indicated that access to the property by site workers was safe. Refer to Appendix C for BDN's complete report including procedures and laboratory results.

*Personnel Sampling*

Results of the four personnel monitoring samples collected during the first two days of the investigation revealed no detections of carbon tetrachloride. As such the MIOSHA PEL of 2.0 ppm was not exceeded. These results confirm the field vapor readings that little if any volatile organic compounds were present in ambient air during the investigation. Refer to Appendix C for BDN's complete report including procedures and laboratory results.

### Geology

Previous investigations provided limited subsurface data. The sampling tools used then were unable to penetrate the subsurface materials consistently due to either the presence of buried concrete or bedrock. However, subsurface data collected from these previous investigations suggested that unconsolidated glacial sands and clay as well as bedrock were present. The drill and sampling tools used during the August 2011 investigation were able to advance to the depths necessary to define the geology as well as collect the necessary samples to characterize the contaminants. Samples collected and characterized by Envirologic revealed five predominant geologic materials. Listed from surface to depth in general order of occurrence they are: sand, clay, coal, shale, and sandstone.

The sand and clay materials are glacially derived sediments deposited during the last ice age retreat. The sand encountered is a medium-grained sand with some fine gravel. Some of the sand encountered may also have been fill sand placed on site during construction of the original buildings. The sand layer thickness is highly variable across the areas of investigation, ranging from non-existent to 7.5 feet thick. The sand layer where encountered typically was present immediately beneath the surface concrete. The sand was generally dry. It is apparent that in



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some locations the sand was either removed or supplemented with fill sand to accommodate site structures.

The clay encountered beneath the site was found in every boring, and correlates with observations made during previous investigations. The clay is found throughout the site. It is encountered at depths ranging from one to nine feet below ground surface (bgs). Its thickness is variable, ranging from two to 11 feet. The clay was likely deposited when retreating ice sheets created lakes or slowed/dammed rivers. The ponding or slowing of fluvial currents allowed for the finer grained sediments to settle to the bottom, creating the clay layer. It is apparent, though that post-glacial erosional activity (Grand River and its predecessors) may have removed some of the clay. As evidence of this, the surface (top) of the clay layer tends to slope to the west towards the Grand River, and also thins towards the Grand River.

Bedrock is encountered beneath the clay at depths ranging from 8.25 to 17 feet bgs. A friable grey to black shale is generally the first consolidated material encountered, although in some areas of the investigation the shale is absent and coal is the first bedrock unit encountered. The shale in some areas overlies a coal seam that ranges in thickness from one to four feet. The shale ranges in thickness from 0.5 to nine feet. The coal seam does occur within the shale in some areas of the investigation. Beneath the shale and coal, a hard medium-grained sandstone is encountered. It is found at the bottom of most borings in the investigation area.

The bedrock encountered is consistent with the Pennsylvanian Saginaw Formation which is described as sandstone interbedded with shale and coal. Refer to Appendix D for boring logs and Figure 4a and 4b in Appendix A for geologic fence diagrams.

**Hydrogeology**

The focus of this investigation was on the distribution of contaminants in unsaturated materials and, therefore, no groundwater monitoring wells were installed. Nevertheless, field observations were made of evidence of groundwater, its depth from the ground surface and general occurrence. Saturated conditions indicating the presence of groundwater were observed in 12 of the 16 borings. Wet conditions were evident at depths ranging from nine to 19.5 feet. Saturation occurred predominantly in the coal seam and or the shale proximate to the coal, although wet conditions were observed in the sandstone in one boring. The extent of saturation (thickness) was limited, generally less than four feet. The materials beneath the wet coal and shale (typically either shale or sandstone) were observed, in most borings, to be dry. It can be concluded that the saturation observed is likely to be groundwater not in an aquifer, given the limited thickness and



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disconnectedness of the saturated zones. Groundwater saturation that could be considered an aquifer was not encountered in the deepest boring, SS-38, at a depth of 29 feet bgs.

**Analytical Results**

*Carbon Tetrachloride*

The target compound, carbon tetrachloride, was not detected in 113 of the 131 samples. In the 18 samples where it was detected, concentrations ranged from 94 µg/kg to 20,000 µg/kg.

Carbon tetrachloride was detected in both hot spots (#1 and #2); however, 15 of the 18 detections were found in Hot Spot #1. The concentrations ranged from 94 µg/kg to 13,000 µg/kg. The three detections in Hot Spot #2 ranged in concentration from 150 µg/kg to 20,000 µg/kg.

The maximum concentration detected during this investigation was 20,000 µg/kg. The sample that exhibited this concentration was collocated (analyzed twice for QA/QC protocol). The original sample concentration was 12,000 µg/kg; the collocated sample (masked duplicate) concentration was 20,000 µg/kg. The difference between the two is unusual and may be considered an outlier, but for purposes of this investigation the higher concentration is considered as a conservative measure. Refer to Appendix E for a table of results, Appendix F for laboratory reports and Figure 5 in Appendix A for a summary carbon tetrachloride concentrations.

*Other VOCs*

Various other volatile organic compounds (VOCs) were detected, many in the same samples where carbon tetrachloride was detected. The other VOCs detected, number of detections, and maximum concentrations are presented in Table 4. The highest concentration of any other VOC was chloroform found in SS-68 at 10 feet at a concentration of 18,000 µg/kg. This sample also exhibited numerous other VOC compounds including the highest concentration of carbon tetrachloride. It should be noted that chloroform is a degradation product of carbon tetrachloride. Hence, its presence is likely due to the partial natural degrading of carbon tetrachloride. Refer to Appendix E for a table of results, Appendix F for laboratory reports and Figure 5 in Appendix A for a summary of other VOC concentrations.



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**Table 4: Other VOCs Detected**

| Parameter | Number of Detections | Maximum Concentration µg/kg | Boring and Depth |
|---|---|---|---|
| 1,2,3-Trimethylbenzene | 4 | 780 | SS-68@10’ |
| 1,2,4-Trimethylbenzene | 4 | 1600 | SS-68@10’ |
| 1,3,5-Trimethylbenzene | 4 | 510 | SS-68@10’ |
| Benzene | 2 | 240 | SS-68@10’ |
| Carbon disulfide | 4 | 10,000 | SS-68@10’ |
| Chloroform | 25 | 18,000 | SS-68@10’ |
| cis-1,2-Dichloroethylene | 6 | 150 | SS-56@10’ |
| Ethylbenzene | 3 | 120 | SS-68@10’ |
| m & p - Xylene | 3 | 300 | SS-56@2.5’ |
| Naphthalene | 1 | 470 | SS-68@10’ |
| n-Propylbenzene | 2 | 180 | SS-68@10’ |
| o-Xylene | 3 | 130 | SS-56@2.5’ |
| p-Isopropyl toluene | 2 | 200 | SS-68@10’ |
| sec-Butylbenzene | 2 | 160 | SS-68@10’ |
| Tetrachloroethylene | 7 | 1800 | SS-54@7.5’&10’ |
| Toluene | 6 | 1700 | SS-34@2.5’ |
| Trichloroethylene | 14 | 1000 | SS-33@16’ |
| Trichlorofluoromethane | 1 | 100 | SS-54@2.5’ |
| Vinyl chloride | 1 | 230 | SS-56@12.5’ |

**Vertical and Horizontal Extent**

*Vertical Extent and Source Thickness - Carbon Tetrachloride*

With most samples not containing any carbon tetrachloride, the vertical extent is very limited. Tables 5a and 5b present the vertical distribution of carbon tetrachloride. The vertical extent of carbon tetrachloride has been defined to be approximately 18 feet bgs in Hot Spot #1 and 12.5 feet in Hot Spot #2. Detections of carbon tetrachloride range in depths from 7.5 feet bgs to 18 feet bgs. Carbon tetrachloride appears to be found most often at depths between 7.5 feet to approximately 15 feet.



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**Table 5a: Hot Spot #1 – Vertical Distribution of Carbon Tetrachloride**

(*Results in µg/kg - yellow shading implies contaminated zone*)

| Depth | SS-33 | SS-34 | SS-37 | SS-38 | SS-52 | SS-53 | SS-54* | SS-55* |
|---|---|---|---|---|---|---|---|---|
| 2.5’ | ND | 94 | ND | - | - | 220 | ND | ND |
| 3.5 | - | - | - | ND | - | - | - | - |
| 5’ | ND | ND | ND | ND | ND | ND | ND | ND |
| 7.5’ | ND | 3200 | ND | ND | ND | ND | 510 | ND |
| 10’ | 190 | 13,000 | 120 | 100 | ND | ND | 420 | 280 |
| 12’ | - | | 290 | | | | ND | |
| 12.5’ | ND | ND | | 1000 | ND | ND | - | ND |
| 14.5’ | | | | | | | | |
| 15’ | | ND | ND | ND | ND | | ND | ND |
| 16’ | 6200 | - | - | - | - | ND | - | - |
| 17.5 | | ND | ND | 210 | ND | - | - | - |
| 18’ | 100 | - | - | - | - | ND | - | - |
| 20’ | ND | ND | ND | ND | ND | ND | - | - |
| 22.5 | - | ND | ND | ND | - | - | - | - |
| 29’ | - | - | - | ND | - | - | - | - |

**Table 5b: Hot Spot #2 - Vertical Distribution of Carbon Tetrachloride**

(*Results in µg/kg - yellow shading implies contaminated zone*)

| Depth | SS-2 | SS-3 | SS-4 | SS-5 | SS-56 | SS-57 | SS-68 | SS-69 |
|---|---|---|---|---|---|---|---|---|
| 2.5’ | ND | 150 | ND | ND | 190 | ND | | ND |
| 5’ | ND | ND | ND | ND | ND | ND | | ND |
| 7.5’ | ND | ND | ND | ND | ND | ND | ND | ND |
| 10’ | ND | ND | ND | ND | ND | ND | 20,000 | ND |
| 12’ | | ND | | | | | | |
| 12.5’ | ND | | ND | ND | ND | ND | ND | ND |
| 14.5 | ND | | | | | | | |
| 15’ | | ND | ND | ND | ND | ND | ND | ND |
| 17’ | ND | | | | | | ND | ND |
| 17.5 | | ND | ND | ND | ND | ND | | |
| 19’ | | | | | | | | ND |
| 19.5’ | | | | | | | ND | |
| 20’ | | ND | | ND | ND | | | |

The “source” area is defined by the thickness of the zone where contaminant concentrations exceed the applicable criteria, and not necessarily the entire zone that is contaminated. The most stringent (lowest) criterion of 12,000 µg/kg (VSIC for non-residential infinite source thickness) was used to estimate the source thickness. In Hot Spot #1 only one boring exhibited a concentration in excess of 12,000 µg/kg. The sample collected at 10 feet from SS-34 exhibited



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carbon tetrachloride at a concentration of 13,000 µg/kg. The sample immediately above, collected at 7.5 feet, exhibited a concentration of 3200 µg/kg, below any applicable VSIC criteria. Carbon tetrachloride was not detected in the sample collected at five feet and the sample collected at 12.5 feet. This suggests a source thickness of less than five feet or 1.5 meters.

In Hot Spot #2 one sample from one boring exhibited a carbon tetrachloride concentration in excess of 12,000 µg/kg. The sample collected at 10 feet bgs from SS-68 exhibited a concentration of 20,000 µg/kg (see previous discussions regarding this sample being a masked duplicate of the original). Carbon tetrachloride was not detected in the sample immediately above at 7.5 feet nor the sample collected immediately below at 12.5 feet. This also suggests a source thickness of less than five feet or 1.5 meters. Refer to Figures 4a and 4b in Appendix A for a three-dimensional portrayal of carbon tetrachloride detections.

*Vertical Extent – Other VOCs*

The vertical extent of other VOCs is similar to that of carbon tetrachloride. The vertical extent is generally defined to a depth of 20.0 feet in SS-37. Other VOCs tend to occur in the same borings and depths as carbon tetrachloride. This is especially evident with chloroform and carbon disulfide. The most frequent detections of other VOCs occur between approximately 7.5 feet and 12.5 feet, with some exceptions. Refer to Figure 6 in Appendix A for a summary of other VOC concentrations.

*Horizontal Extent – Carbon Tetrachloride*

The horizontal extent of carbon tetrachloride in Hot Spot #1 is defined to the infinite source non-residential VSIC criteria by SS-33 and 37 to the north, SS-52, SS-53 to the south, SS-34, SS-33, SS-52 to the east and SS-54, SS-55 to the west. The total area of impact within the Hot Spot #1 is less than 3,200 square feet (64’ by 49’). The horizontal extent of carbon tetrachloride in Hot Spot #2 is also defined to the infinite source non-residential VSIC criteria by SS-5 and SS-69 to the north, SS-2, SS-3 and SS-57 to the south, SS-69, SS-2, to the east and SS-56, SS-57 to the west. The total area of impact within the Hot Spot #2 is less than 2,800 square feet (40’ by 70’). The total potential impacted area is, therefore, less than 0.14 acres. This “impact” area is not to be confused with the area of the source, given that the source area would be based on the actual area where contaminants exceed the applicable criterion. The “source” area is an area considerably smaller than the potential impact area.



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*Horizontal Extent – Other VOCs*

With respect to the ambient air inhalation pathway (VSIC), the horizontal extent of other VOCs is similar to that of carbon tetrachloride. Concentrations of various VOCs do exceed other generic criteria such as drinking water protection and GSI.

**Comparison to Criteria - VSIC**

*Carbon Tetrachloride*

Previous investigations identified the presence of carbon tetrachloride in soil and bedrock in excess of the non-residential infinite source half-acre VSIC criteria. In other words, there was a potential risk of being exposed to adverse concentrations of carbon tetrachloride by breathing the air on the site; hence, the focus of this investigation. The non-residential criterion for carbon tetrachloride for an infinite source thickness and area of one-half acre is 12,000 µg/kg. For five-meter source thickness, the non-residential criterion is 34,000 µg/kg, and for a two-meter source thickness the criterion is 79,000 µg/kg. As previously discussed, the source thickness was determined to be less than two meters in both hot spots; thus, the two-meter source thickness VSIC criteria of 79,000 µg/kg applies. The source area is also considerably less than one-half acre, however, the half-acre source area is considered herein to inject some conservative bias into the criteria comparison. Table 6 compares the concentrations of carbon tetrachloride to this criterion; however, the two other criteria (five-meter source and infinite source) are presented for comparison.

The indoor air inhalation criteria (SVIIC) would be pertinent to the site if future use included the construction of a building. The indoor air criterion is more stringent than the ambient air inhalation criterion and requires additional lines of evidence to confirm that there is not a potential adverse exposure to carbon tetrachloride inside a building. The concentrations of carbon tetrachloride exceeded the indoor air inhalation criterion of 990 µg/kg in five samples from four boring locations: SS-33 at 16 feet, SS-34 at 7.5 feet and 10 feet, SS-38 at 12.5 five feet and SS-68 at 10 feet. Given the geology and specifically the presence of clay beneath the site, it is possible that it could play a role in controlling the migration of vapor into a building. The additional lines of evidence would include the comparison of carbon tetrachloride concentrations in actual sub-slab air (air immediately beneath the concrete) and soil gas at five-foot depths to draft criteria developed by MDEQ for these two mediums.



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**Table 6: Comparison of Carbon Tetrachloride Concentrations to VSIC**

(*Results in µg/kg)*

| Hot Spot #1 | | | | | | | Hot Spot #2 | | |
|---|---|---|---|---|---|---|---|---|---|
| **Depth** | **SS-33** | **SS-34** | **SS-37** | **SS-38** | **SS-54*** | **SS-55*** | **SS-3** | **SS-56** | **SS-68** |
| 2.5’ | ND | 94 | ND | - | ND | ND | 150 | 190 | ND |
| 3.5 | - | - | - | ND | - | - | - | - | - |
| 5’ | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 7.5’ | ND | 3200 | ND | ND | 510 | ND | ND | ND | 20,000* |
| 10’ | 190 | 13,000 | 120 | 100 | 420 | 280 | ND | ND | ND |
| 12’ | - | - | 290 | | ND | | ND | - | - |
| 12.5’ | ND | ND | - | 1000 | - | ND | - | ND | ND |
| 14.5’ | - | - | - | - | - | - | - | - | - |
| 15’ | - | ND | ND | ND | ND | ND | ND | ND | ND |
| 16’ | 6200 | - | - | - | - | - | - | - | - |
| 17’ | | | | | | | | | ND |
| 17.5 | - | ND | ND | 210 | - | - | ND | ND | - |
| 18’ | 100 | - | - | - | - | - | - | - | - |
| 20’ | ND | ND | ND | ND | - | - | - | ND | - |
| 19’ | - | - | - | - | - | - | - | - | ND |
| 22.5 | - | ND | ND | ND | - | - | ND | - | - |
| 29’ | - | - | - | ND | - | - | - | - | - |
| **Non-Residential VSIC ( *µg/kg)*** | | | | | | | | | |
| **2 Meter Source- 79,000** | | | 5 Meter Source - 34,000 | | | Infinite Source- 12,000 | | | |
| *Collocated Sample Result Original sample result =12,000 µg/kg | | | | | | | | | |

*Other VOCs*

Concentrations of other VOCs detected were below all corresponding VSIC criteria. The concentration of other VOCs also did not exceed any of the pertinent indoor air inhalation criteria (SVIIC).

Analytical results of 18 samples indicated concentrations of various other VOCs in excess of the drinking water protection criteria and three samples in excess of the groundwater surface water interface criteria (GSI). Refer to Figure 6 and Appendix A for a summary of results.



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## CONCLUSIONS

The primary purpose of this investigation was to evaluate the ambient air inhalation pathway of two previously identified hot spots. The results of the investigation of the two hot spots have revealed the following:

1. The source thickness is two meters or less and, therefore, the two-meter source VSIC is the applicable criteria.
2. The concentration of carbon tetrachloride detected within the two hot spots does not exceed the non-residential and, incidentally, the residential two-meter source thickness VSIC criteria, thereby supporting the conclusion that the ambient (outdoor) air above the two hot spots is safe to breath for any land use.
3. The concentrations of other VOCs do not exceed any non-residential VSIC criteria for any source thickness, thereby supporting the conclusion that the ambient air above the two hot spots does not contain potentially harmful concentrations of other VOCs.
4. The maximum concentration of carbon tetrachloride does exceed the indoor air inhalation (SVIIC) criteria, suggesting that the indoor air of a building constructed on the property may contain potentially harmful concentrations of carbon tetrachloride. Additional lines of evidence would be necessary to confirm whether an adverse exposure could exist. Notwithstanding the potential adverse exposure, various exposure control mechanisms are readily available.
5. The maximum concentrations of other VOCs do not exceed the indoor air inhalation (SVIIC) criteria suggesting that the indoor air of a building constructed on the property would not contain harmful concentration of other VOCs. Additional lines of evidence would be necessary to confirm whether an adverse exposure could exist.
6. Concentrations of carbon tetrachloride and other VOCs exceed other cleanup criteria such as the Drinking Water Protection Criteria (DWPC) and the Groundwater-Surface Water Interface Criteria (GSI), but do not prohibit the use of the property for a variety of potential uses. Data from this investigation suggest that while these two exposure pathways may be complete, an adverse exposure may not exist. Data suggests that soil contaminants may not have impacted groundwater. Further evaluation of these two exposure pathways would be necessary to determine if an adverse exposure exists.



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**APPENDIX A**
**FIGURES**

**Figure 1: Location Map**
**Figure 2: Location Map of Hot Spots 1 & 2**
**Figure 3: Boring Locations for Ambient Air Evaluation**
**Figure 4a: Fence Diagram Hot Spot #1**
**Figure 4b: Fence Diagram Hot Spot #2**
**Figure 5: Summary of Carbon Tetrachloride Concentrations in Soil**
**Figure 6: Summary of VOCs in Soil**

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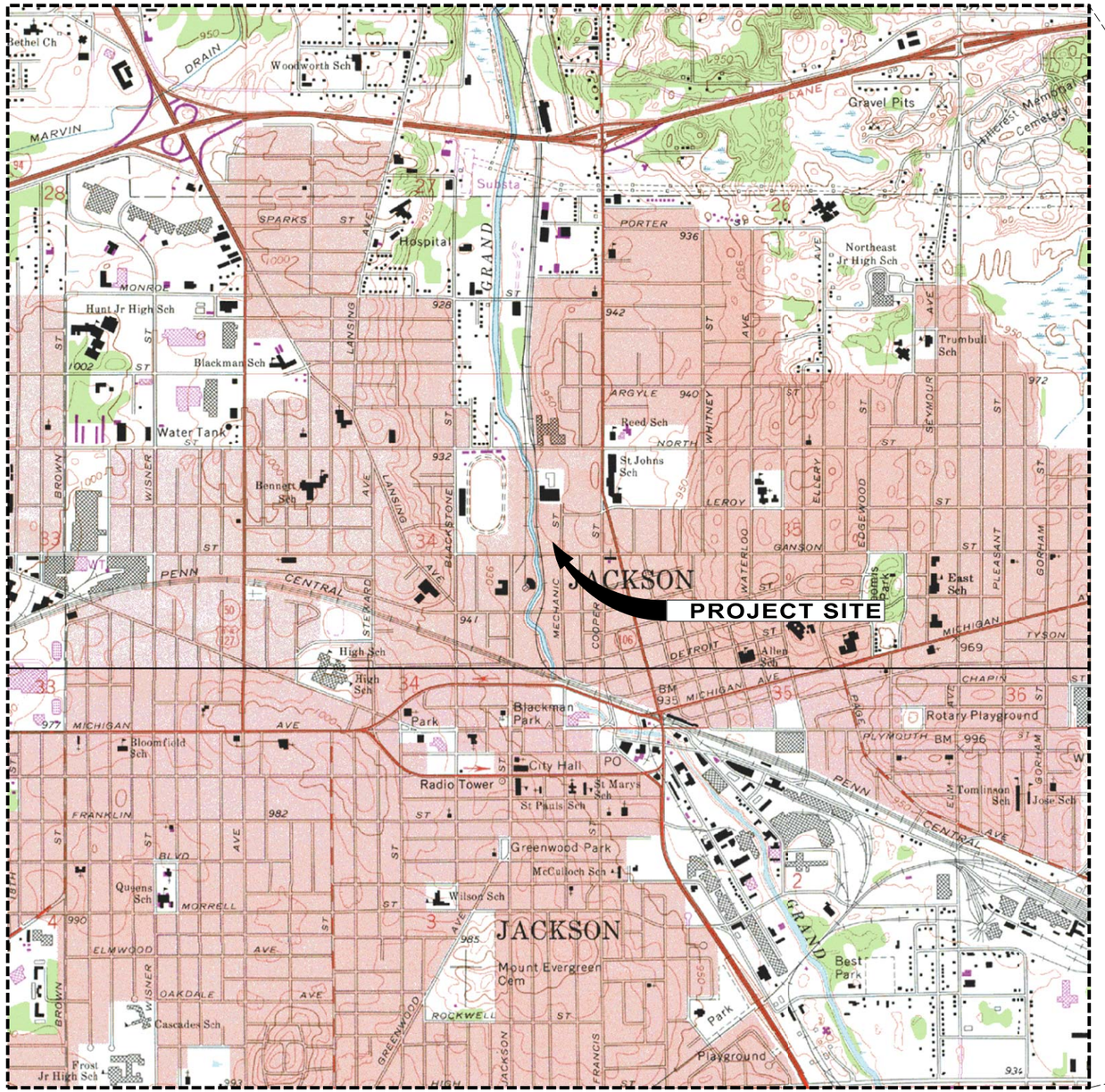

T 2 S. R. 1 W.
BLACKMAN TOWNSHIP
JACKSON COUNTY, MICHIGAN

SOURCE: JACKSON NORTH AND JACKSON SOUTH, MICHIGAN USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE MAPS
MAPTECH1© U.S. TERRAIN SERIES™ ®MAPTECH©, INC. 606-433-8500

N

0 500 1000 2000 4000
SCALE 1" = 2000'

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# FORMER ACME INDUSTRIES PROPERTY

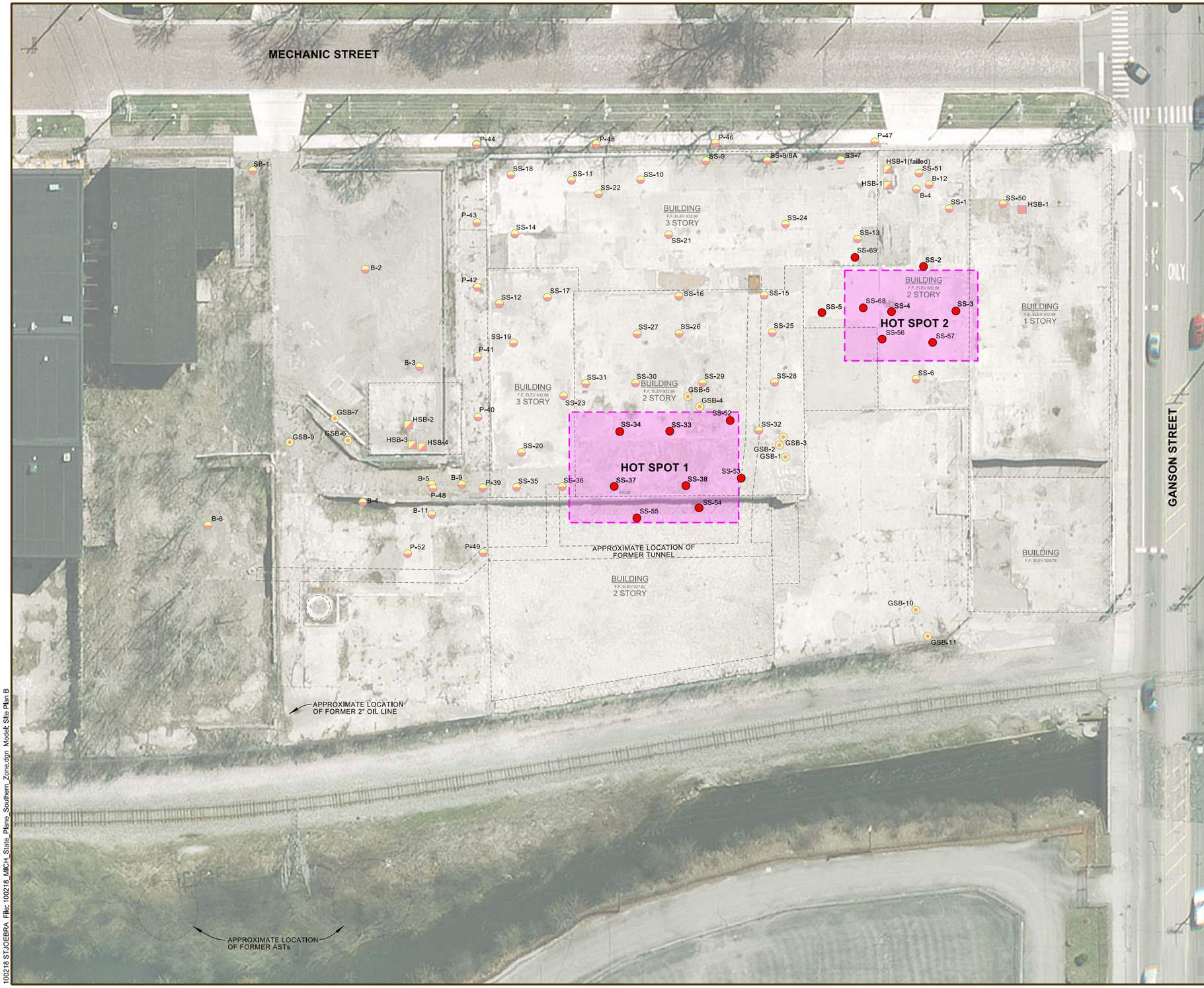
600 - 620 NORTH MECHANIC STREET
JACKSON, MICHIGAN

## LOCATION MAP

PROJECT NO.
090178

FIGURE No.
1

ENTGRO 090178 090178_Site_Plan.dgn, Location Map




## LEGEND

- MONITORING WELL LOCATION
- SOIL BORING LOCATION
- GEOPROBE® SOIL BORING LOCATION
- HAND AUGER BORING LOCATION
- REASSESSMENT BORING LOCATION

SCALE 1" = 50'

0 10 20 30 40 50 100

NOTE: AERIAL PHOTOGRAPHY: 2011 COLOR ORTHOPHOTO, OBTAINED FROM THE JACKSON COUNTY ON LINE GIS VIEWER.

NOTE:
THIS IS NOT A PROPERTY BOUNDARY SURVEY, PROPERTY BOUNDARIES SHOWN ON THIS MAP ARE BASED ON AVAILABLE FURNISHED INFORMATION AND ARE APPROXIMATE ONLY AND SHOULD NOT BE USED TO ESTABLISH PROPERTY BOUNDARY LOCATION IN THE FIELD.

# FORMER ACME INDUSTRIES PROPERTY

600 - 620 NORTH MECHANIC STREET
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# LOCATION OF HOT SPOTS #1 AND #2

**(AS IDENTIFIED BY PREVIOUS INVESTIGATIONS)**

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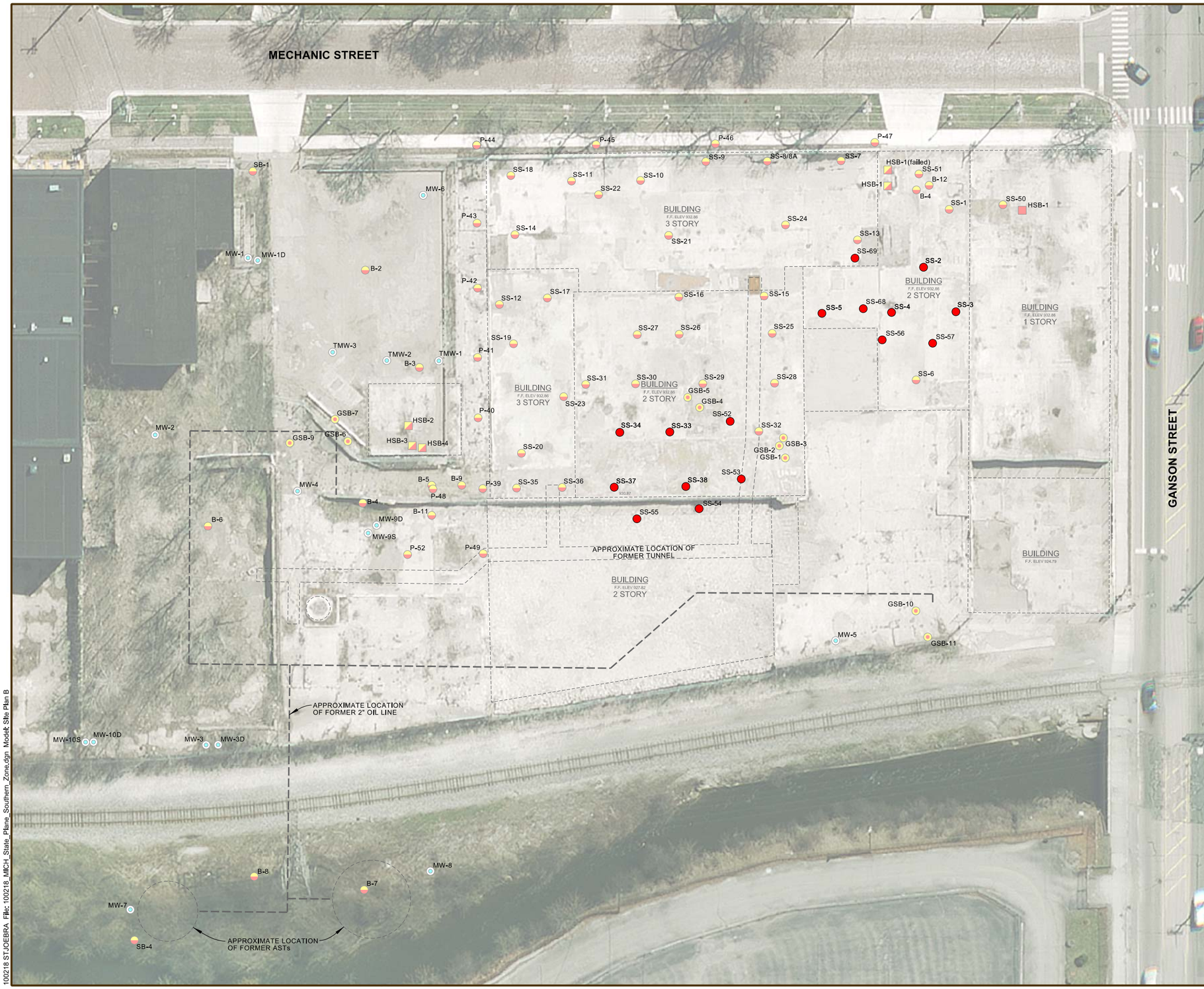
PROJECT NO.
100218

FIGURE No.
2

100218 STJOEBRA File: 100218_MICH_State_Plane_Southern_Zone.dgn Model: Site Plan B




## LEGEND

- MONITORING WELL LOCATION (PREVIOUS INVESTIGATIONS)
- SOIL BORING LOCATION (PREVIOUS INVESTIGATIONS
- GEOPROBE® SOIL BORING LOCATION (PREVIOUS INVESTIGATIONS
- HAND AUGER BORING LOCATION (PREVIOUS INVESTIGATIONS
- NEW BORING LOCATIONS FOR AMBIENT AIR

SCALE 1" = 50'

0 10 20 30 40 50 100

NOTE: AERIAL PHOTOGRAPHY: 2011 COLOR ORTHOPHOTO, OBTAINED FROM THE JACKSON COUNTY ON LINE GIS VIEWER.

NOTE:
THIS IS NOT A PROPERTY BOUNDARY SURVEY, PROPERTY BOUNDARIES SHOWN ON THIS MAP ARE BASED ON AVAILABLE FURNISHED INFORMATION AND ARE APPROXIMATE ONLY AND SHOULD NOT BE USED TO ESTABLISH PROPERTY BOUNDARY LOCATION IN THE FIELD.

# FORMER ACME INDUSTRIES PROPERTY

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# NEW BORING LOCATIONS FOR AMBIENT AIR EVALUATION AUGUST 2011

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PROJECT NO.
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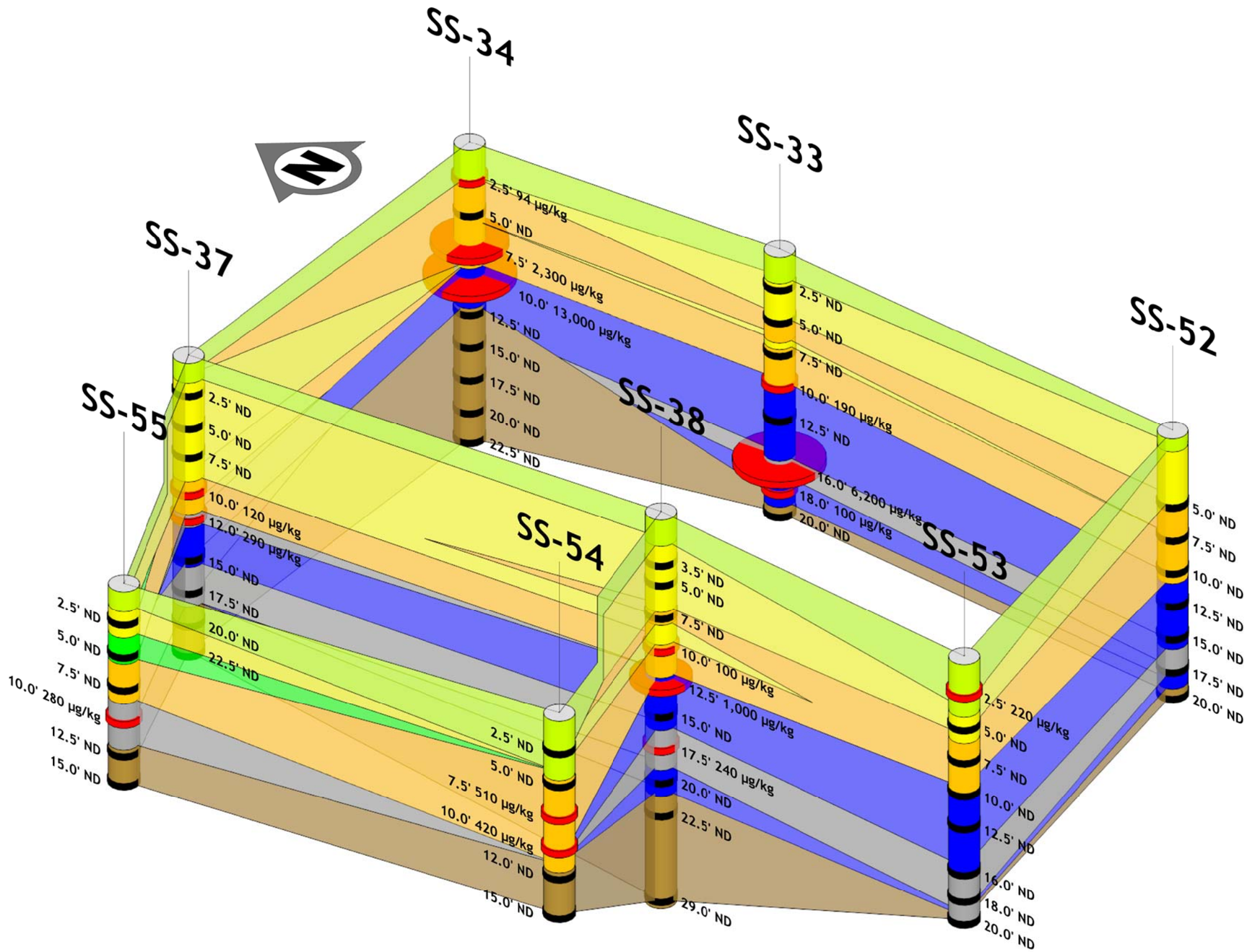
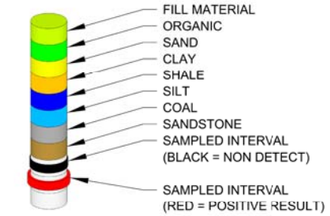
FIGURE No.
3

100218 STJOEBRA File: 100218_MICH_State_Plane_Southern_Zone.dgn Model: Site Plan B




## LEGEND

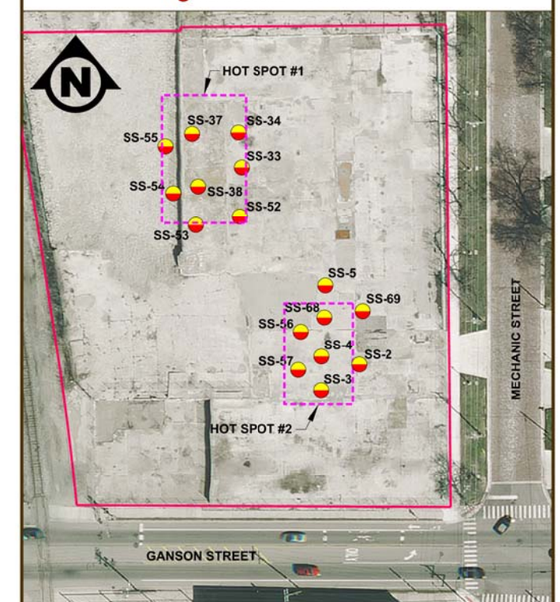



## SITE PLAN

SCALE: 1" - 100'

NOTE: AERIAL PHOTOGRAPY: 2011 AERIAL PHOTOGRAPH OBTAINED FROM THE JACKSON COUNTY GIS WEB APPLICATION.

REASSESSMENT BORING LOCATION




# FORMER ACME INDUSTRIES PROPERTY

600 - 620 NORTH MECHANIC STREET
JACKSON, MICHIGAN

# FENCE DIAGRAM HOT SPOT #1 WITH SAMPLE INTERVALS AND CARBON TETRACHLORIDE CONCENTRATIONS

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PROJECT NO.
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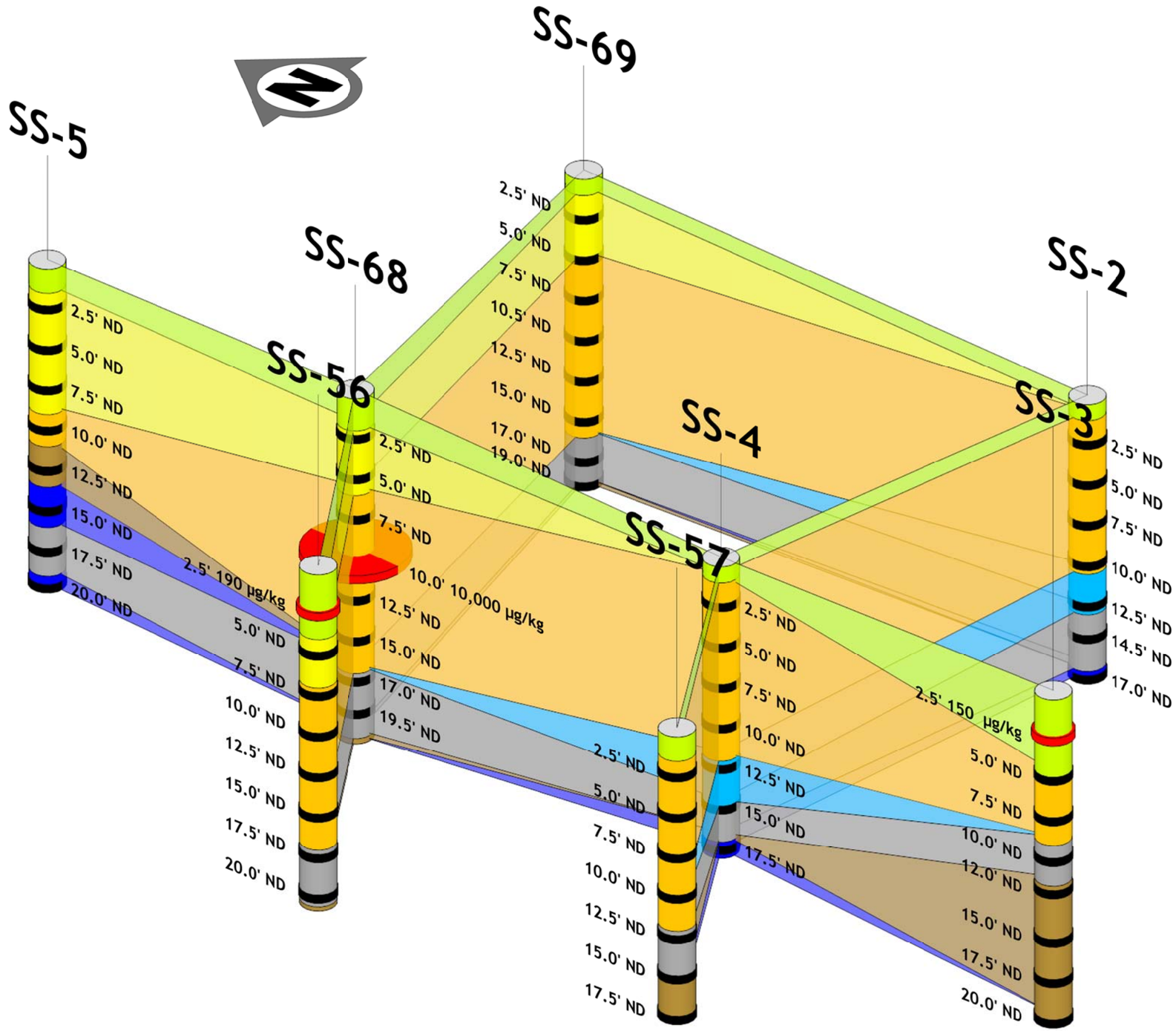
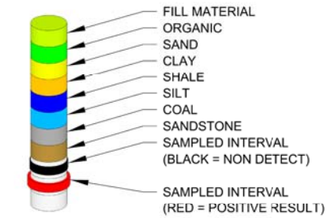
FIGURE No.
4A

100218 JBBRAU File: 100218_Mich. State Plane Souther Zone.dgn Model: Fence Diagram Tite Block




## LEGEND

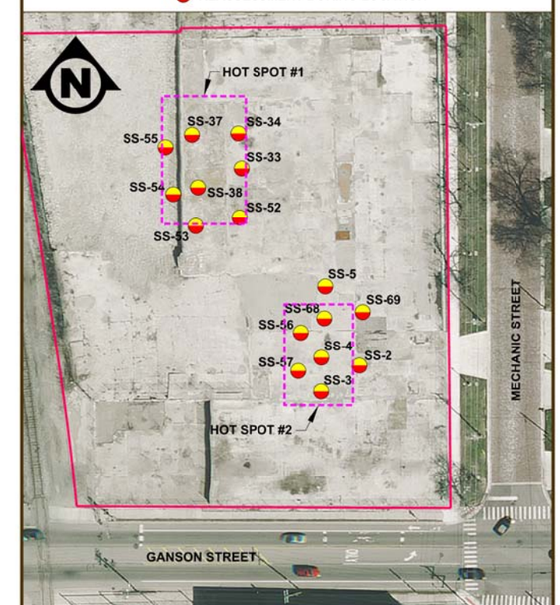



## SITE PLAN

SCALE: 1" - 100'

NOTE: AERIAL PHOTOGRAPY: 2011 AERIAL PHOTOGRAPH OBTAINED FROM THE JACKSON COUNTY GIS WEB APPLICATION.

REASSESSMENT BORING LOCATION

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# FENCE DIAGRAM HOT SPOT #2 WITH SAMPLE INTERVALS AND CARBON TETRACHLORIDE CONCENTRATIONS

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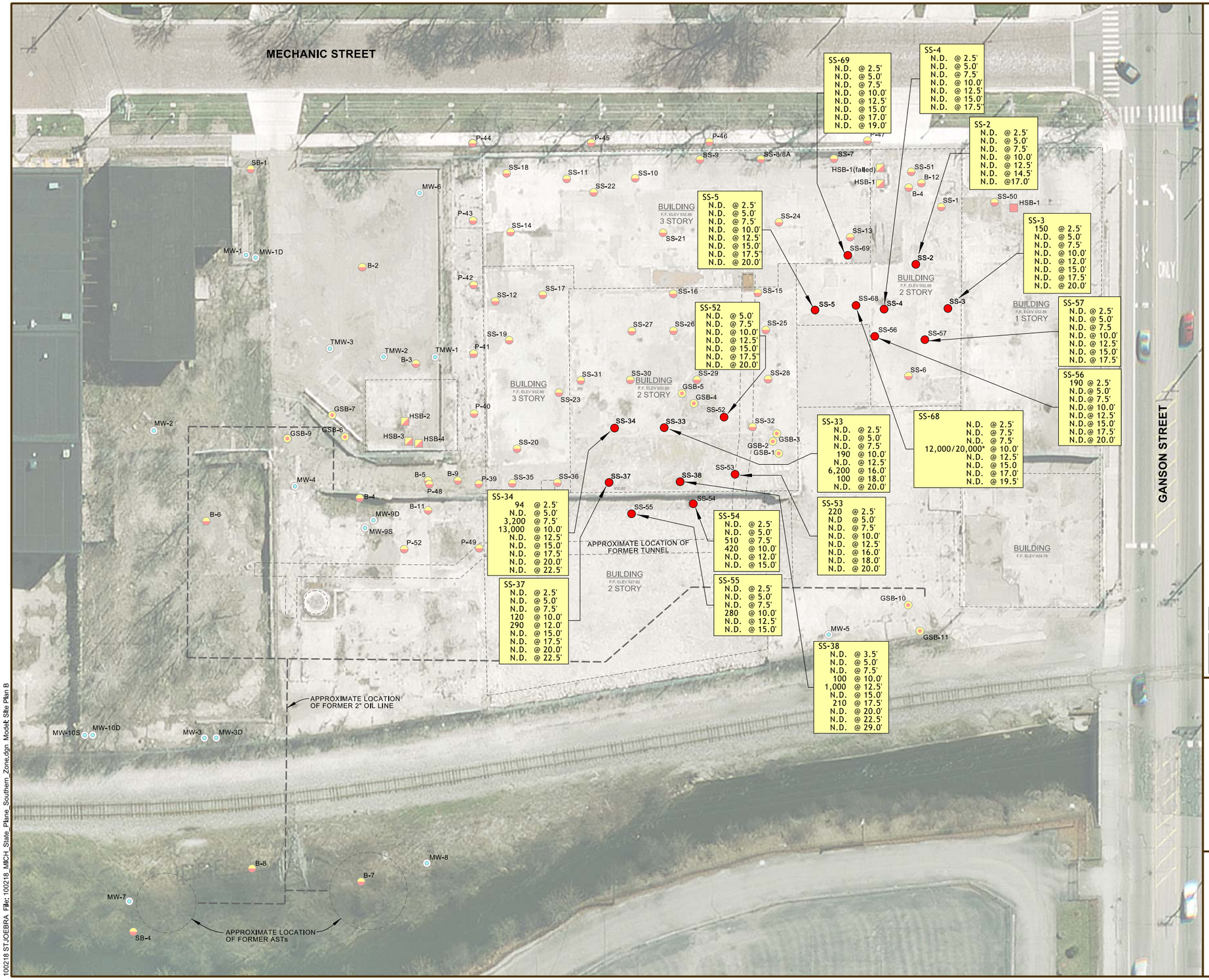
PROJECT NO. 100218

FIGURE No. 4B

100218 JBBRAU File: 100218_Mich_State_Plane_Souther_Zone.dgn Model: Fence Diagram Tite Block




## LEGEND

- MONITORING WELL LOCATION
- SOIL BORING LOCATION
- GEOPROBE® SOIL BORING LOCATION
- HAND AUGER BORING LOCATION
- REASSESSMENT BORING LOCATION

NOTE: RESULTS EXPRESSED AS µg/kg

* = COLLOCATED SAMPLE

N.D.= NOT DETECTED

SCALE 1" = 50'

0 10 20 30 40 50 100

NOTE: AERIAL PHOTOGRAPHY: 2011 COLOR ORTHOPHOTO, OBTAINED FROM THE JACKSON COUNTY ON LINE GIS VIEWER.

NOTE:
THIS IS NOT A PROPERTY BOUNDARY SURVEY. PROPERTY BOUNDARIES SHOWN ON THIS MAP ARE BASED ON AVAILABLE FURNISHED INFORMATION AND ARE APPROXIMATE ONLY AND SHOULD NOT BE USED TO ESTABLISH PROPERTY BOUNDARY LOCATION IN THE FIELD.

# FORMER ACME INDUSTRIES PROPERTY

600 - 620 NORTH MECHANIC STREET
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# SUMMARY OF CARBON TETRACHLORIDE CONCENTRATIONS IN SOIL AUGUST 2011

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PROJECT NO.
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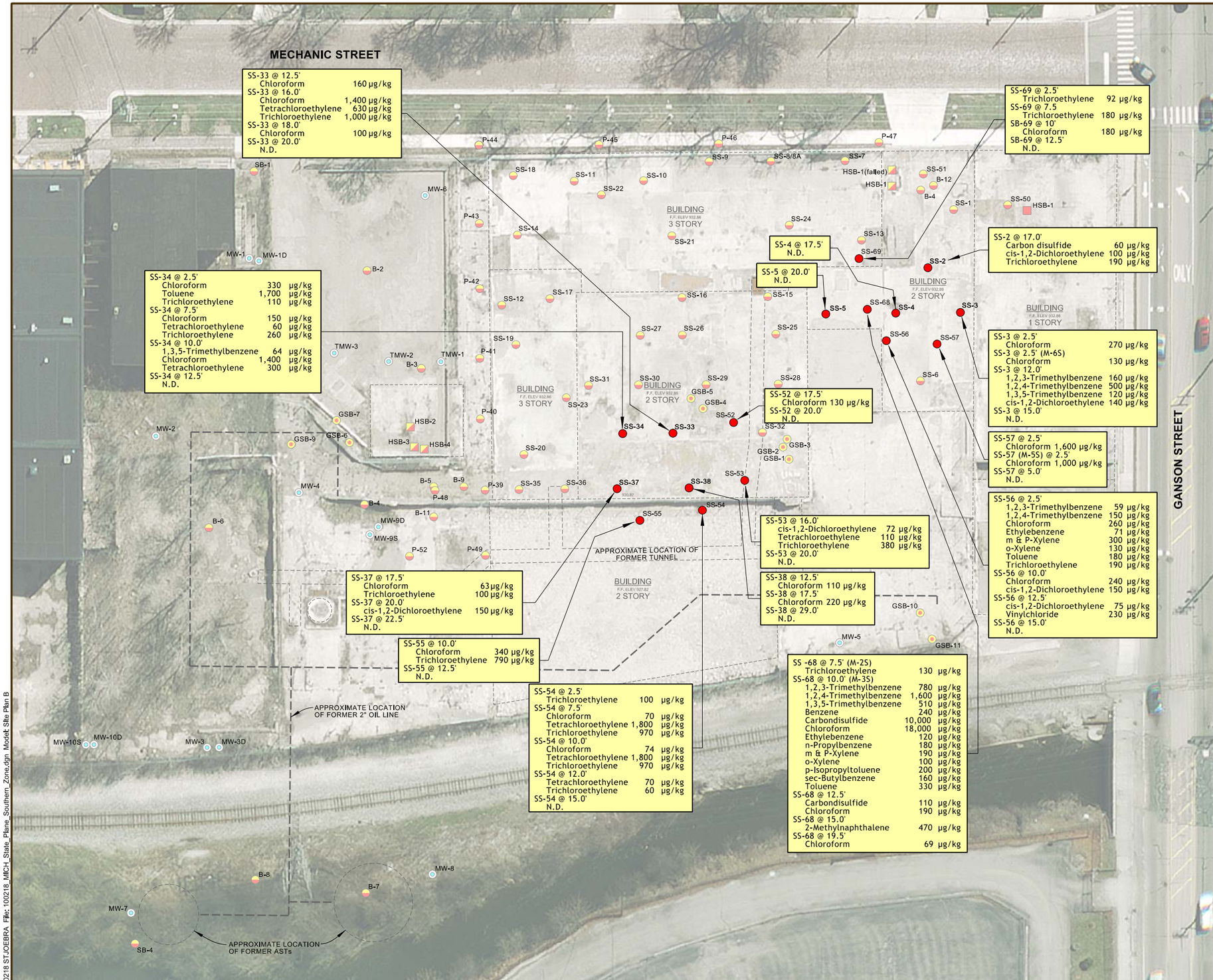
FIGURE No.
5

100218 ST JOEBRA Files: 100218_MICH_State_Plane_Southern_Zone.dgn Model: Site Plan B




## LEGEND

- MONITORING WELL LOCATION
- SOIL BORING LOCATION
- GEOPROBE® SOIL BORING LOCATION
- HAND AUGER BORING LOCATION
- REASSESSMENT BORING LOCATION

NOTE: ANALYTICAL RESULTS FOR CARBON TETRACHLORIDE ARE NOT SHOWN IN THIS SERIES OF RESULTS. SEE FIGURE 5 FOR CARBON TETRACHLORIDE RESULTS.

N.D. = NOT DETECTED

SCALE 1" = 50'

0 10 20 30 40 50 100

NOTE: AERIAL PHOTOGRAPHY: 2011 COLOR ORTHOPHOTO, OBTAINED FROM THE JACKSON COUNTY ON LINE GIS VIEWER.

NOTE:
THIS IS NOT A PROPERTY BOUNDARY SURVEY, PROPERTY BOUNDARIES SHOWN ON THIS MAP ARE BASED ON AVAILABLE FURNISHED INFORMATION AND ARE APPROXIMATE ONLY AND SHOULD NOT BE USED TO ESTABLISH PROPERTY BOUNDARY LOCATION IN THE FIELD.

# FORMER ACME INDUSTRIES PROPERTY

600 - 620 NORTH MECHANIC STREET
JACKSON, MICHIGAN

# SUMMARY OF OTHER VOCs IN SOIL (DETECTIONS ONLY) AUGUST 2011

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PROJECT NO.
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FIGURE No.
6

100218 STJOEBRA File: 100218_MICH_State_Plane_Southern_Zone.dgn Model: Site Plan B

# APPENDIX B
# SAMPLING PLAN

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**SAMPLING PLAN**

**FOR**

**FORMER ACME INDUSTRIES FACILITY**
**MECHANIC STREET**
**JACKSON, MICHIGAN**

**July 29. 2011**

**Prepared for:**
**Jackson County Brownfield Redevelopment Authority**
**Cooperative Agreement BF-00E64701-0**

**Prepared by:**

**ENVIROLOGIC TECHNOLOGIES, INC.**
**2960 Interstate Parkway**
**Kalamazoo, Michigan 49048**
**(269) 342-1100)**

**SAMPLING PLAN**
**FOR**
**FORMER ACME INDUSTRIES FACILITY**
**MECHANIC STREET**
**JACKSON, MICHIGAN**
*Jackson County Brownfield Redevelopment Authority —*
*Cooperative Agreement BF-00E64701-0:*

This investigation is being supported by the Jackson County Brownfield Redevelopment Authority under U.S. EPA Brownfield Assessment Grant BF-OOE64701-0. The eligibility was approved by the USEPA on June 24, 2009. This sampling plan is being submitted for acceptance by the U.S. Environmental Protection Agency.

## BACKGROUND

The Acme Building site is one of the earlier manufacturing sites in the city of Jackson. First developed as early as 1886, the site has been occupied by various manufacturers. Products manufactured at the property have included farm implements, wagons, and later, heating and cooling equipment. Operations at the site ceased in the late 1980s and the buildings on site have been vacant since that time. Since its closure in the late 1980s, numerous studies, including Phase I and II Environmental Site Assessments, have been conducted on the property to determine its environmental condition. In 2010 the buildings comprising the Acme facility were demolished.

Historical investigations of the facility have revealed that soil and groundwater contamination consisting of various compounds exist beneath the former buildings. Results of the investigations suggest that concentrations of contaminants in groundwater do not pose an immediate threat to public health within the current and future planned uses of the property. However, contaminant concentrations in soil, specifically, carbon tetrachloride, exceed the State of Michigan generic ambient air inhalation criteria (Volatile Soil Inhalation Criteria or VSIC).

Plans for the property are to create a public parking space to support nearby developments – notably Armory Arts (apartments and arts-based community center), Art 634 (art studios, retail and art-centered classrooms), Goodwill Industries, the County Fairgrounds and other nearby properties. Because of the desire to allow public access to the property it is necessary for the JCBRA to first determine and evaluate the public's exposures to these contaminants and demonstrate a means by which the property can be safely utilized.



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## PURPOSE OF ASSESSMENT

The purpose of the investigation is to obtain enough site information to ascertain whether the contaminants pose an exposure risk for the intended future use of the property. Specifically, the investigation will consist of a primary goal of defining the extent (horizontal, vertical and thickness) of known contamination (carbon tetrachloride) that exceeds the generic screening level for infinite sources less than one-half acre. If time and budget allow, the investigation will extend to areas not previously assessed.

## ASSESSMENT DESCRIPTION

It is anticipated that 14 soil borings will be advanced in and around the known areas of concern. Some of the boring locations will coincide with previous borings so that additional samples at greater depths can be collected and analyzed. Once these 14 borings have been advanced, and as time and budget allow, up to an additional 10 borings will be advanced in areas previously not assessed. Soil samples will be collected continuously to the end of the boring. Borings will be advanced to a depth corresponding to groundwater saturation, expected to be less than 20 feet. All boring locations will be located using a Trimble GeoXH GPS unit.

Select soil samples will be analyzed for various compounds, most notably, carbon tetrachloride. Select samples from differing lithologies may also be subjected to dry bulk density, fraction of organic carbon, soil water-filled porosity, and soil air-filled porosity analyses. These latter analyses may be used to calculate site specific ambient air inhalation criteria. Because the nature of this investigation is focused solely on the pathway evaluation of soil contaminants volatilizing to ambient air, collection and analysis of groundwater samples is not relevant.

Refer to Table 1 for specific data quality objectives.



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**Table 1: Data Quality Objectives**

| ▪ **DQO #1: Do the concentrations of carbon tetrachloride pose an ambient air inhalation risk?** | | |
|---|---|---|
| SS-2, 3, 4, 5, 33, 34, 37, 38, 52, 53, 54, 55, 56, 57 | *Location Rationale* | These locations represent the two areas of concern where the concentrations of carbon tetrachloride exceed the generic infinite source VSIC. These locations serve to define the horizontal, vertical and thickness of the contaminated zone. |
| | *Sampling Depth/Interval* | The projected depth of each soil boring is a maximum of 20 feet or until groundwater saturation is encountered. Groundwater is expected to be less than 20 feet below grade. |
| | *Depth/Interval Rationale* | Sampling depths will vary depending on the availability of previous data or lack thereof, the presence of organic vapor, or other evidence of contamination. For physical characterization, soil selected soil samples will be representative of differing lithologies (sand, clay, bedrock, etc). |
| | *Media Sampled* | Soil, bedrock |
| | *Parameters* | The target chemical compound is carbon tetrachloride. However, because other contaminants are known to be present, each sample submitted for chemical analyses will be subjected to an EPA Method 8260 scan for volatiles. Physical analyses will include dry bulk density, fraction of organic carbon, soil water-filled porosity, and soil air-filled porosity. |
| | *Parameter Rationale* | The concentrations of carbon tetrachloride exceed the generic VSIC criteria for an infinite source. The other Method 8260 volatiles have been added since these data do not exist for some of the boring locations. The physical analyses will be used to calculate site specific VSIC criteria. |
| ▪ **DQO #2: Do areas previous un-assessed pose any exposures risks?** | | |
| SS-58, 59, 60, 61,62, 63,,64, 65,66, 67 | *Location Rationale* | The boring locations represent areas of the property where access was previous not available (inside of former buildings). The locations are random, but represent these previously inaccessible areas. |
| | *Sampling Depth/Interval* | The projected depth of each soil boring is a maximum of 20 feet or until groundwater saturation is encountered. Groundwater is expected to be less than 20 feet below grade. |
| | *Depth/Interval Rationale* | Sampling intervals will vary depending on the presence of organic vapor or other evidence of contamination. For physical characterization, soil selected soil samples will be representative of differing lithologies (sand, clay, bedrock, etc). |
| | *Media Sampled* | Soil, bedrock |
| | *Parameters* | The target chemical compound is carbon tetrachloride. However, because these boring locations have not been previously assessed, chemical analyses will be subjected to an EPA Method 8260 scan for volatiles. Physical analyses will include dry bulk density, fraction of organic carbon, soil water-filled porosity, and soil air-filled porosity. |
| | *Parameter Rationale* | Method 8260 volatiles have been added since these data do not exist for some of the boring locations. The physical analyses will be used to calculate site specific VSIC criteria. |



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## FIELD SCREENING

During the advancement of soil borings, soil will be continuously screened for organic vapors using a Photoionization Detector (PID). Observations for visual staining and odors will also be made. Field Screening procedures in the Quality Assurance Project Plan (QAPP), including instrument calibration procedures, will be followed. Soils will also be classified in accordance with the accepted procedure in the QAPP.

## SAMPLE COLLECTION PROCEDURES

Specific sampling methods detailed in the QAPP will be followed. Methods established in the QAPP for sample collection and preservation will be followed. Sample handling and custody requirements in the QAPP will be followed. All analytical results will be compared to State of Michigan generic residential and non-residential clean-up criteria for soil.

## QUALITY ASSURANCE

Sampling activities will be completed in accordance with Envirologic's approved QAPP. Envirologic will conduct the appropriate number of QA/QC samples as specified in the QAPP. An estimate of the QA/QC sample collection and analysis requirements for this project are:

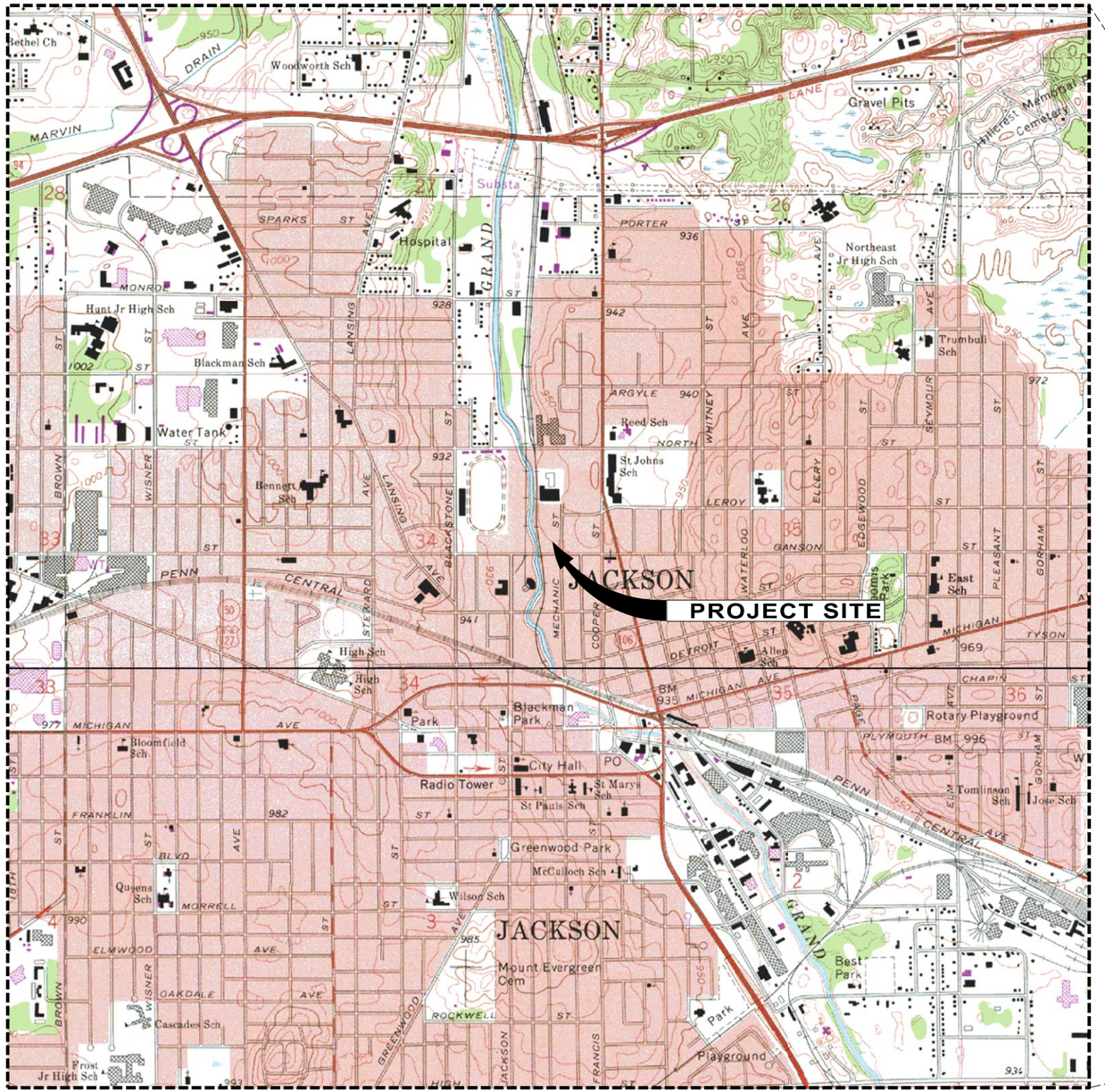
| Number of Samples | QA\QC Sample Type | Frequency of Sample Collection and Analysis | Sample Analyses |
|---|---|---|---|
| 1 | Duplicate (Collocated) Sample | 1 duplicate per 20 samples, minimum of 1 per sample event | VOCs, |
| 1 | Trip Blank | 1 trip blank per cooler containing samples for VOC analyses | VOCs |
| 1 | Field Blank | 1 methanol blank per laboratory lot for VOC analyses | VOCs |
| 5 | Equipment Blanks | 1 equipment blank per day of soil sampling activity. | VOCs |
| 1 | Matrix Spike / Matrix Spike Duplicate | 1 MS/MSD per 20 samples or as specified in the lab SOPs | VOCs, |



©envirologic

**FIGURE 1**
**Location Map**

© envirologic



T 2 S. R. 1 W.
BLACKMAN TOWNSHIP
JACKSON COUNTY, MICHIGAN

SOURCE: JACKSON NORTH AND JACKSON SOUTH, MICHIGAN USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE MAPS
MAPTECH1© U.S. TERRAIN SERIES™ ®MAPTECH©, INC. 606-433-8500

N

0 500 1000 2000 4000
SCALE 1" = 2000'

envirologic
environmental consulting + services
2960 INTERSTATE PARKWAY
KALAMAZOO, MICHIGAN 49048
PH: (269) 342-1100 FAX: (269) 342-4945

# FORMER ACME INDUSTRIES PROPERTY

600 - 620 NORTH MECHANIC STREET
JACKSON, MICHIGAN

## LOCATION MAP

PROJECT NO.
090178

FIGURE No.
1

ENTGRO 090178 090178_Site_Plan.dgn, Location Map

**FIGURE 2**
**Site Plan with Existing and Proposed Soil Boring Locations**

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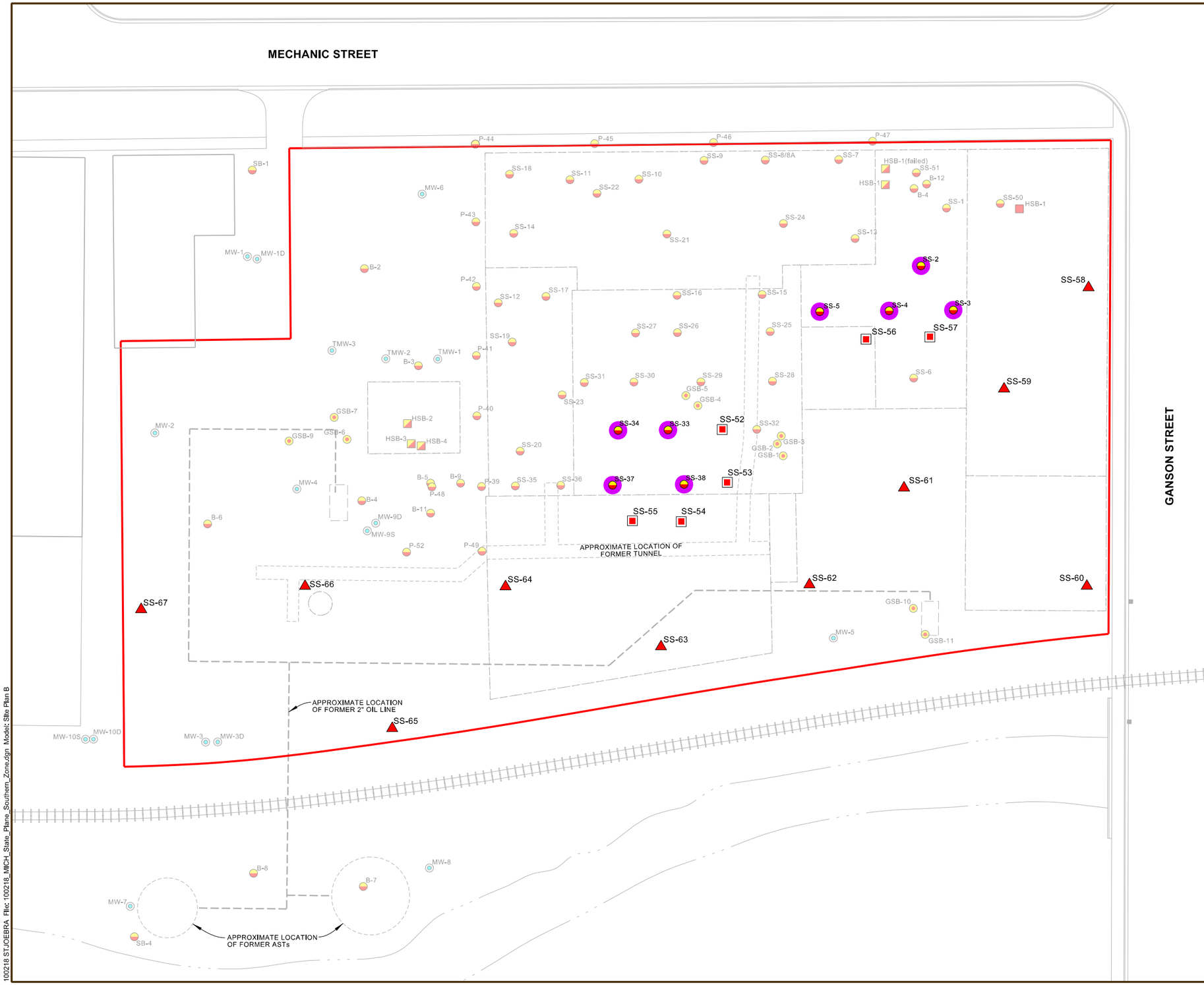


## LEGEND

- MONITORING WELL LOCATION
- SOIL BORING LOCATION
- GEOPROBE® SOIL BORING LOCATION
- HAND AUGER BORING LOCATION
- EXISTING BORING LOCATION TO BE REASSESED
- PROPOSED BORING TO DEFINE EXTENT OF CARBON TETRACHLORIDE
- PROPOSED BORING IN UN-ASSESSED AREAS

N

SCALE 1" = 50'

0 10 20 30 40 50 100

NOTE:
THIS IS NOT A PROPERTY BOUNDARY SURVEY, PROPERTY BOUNDARIES SHOWN ON THIS MAP ARE BASED ON AVAILABLE FURNISHED INFORMATION AND ARE APPROXIMATE ONLY AND SHOULD NOT BE USED TO ESTABLISH PROPERTY BOUNDARY LOCATION IN THE FIELD.

# FORMER ACME INDUSTRIES PROPERTY

600 - 620 NORTH MECHANIC STREET
JACKSON, MICHIGAN

# PROPOSED AND EXISTING BORING LOCATIONS

envirologic
environmental consulting + services
2960 INTERSTATE PARKWAY
KALAMAZOO, MICHIGAN 49048
PH: (269) 342-1100 FAX: (269) 342-4945

PROJECT NO.
100218

FIGURE No.
2

100218 ST JOEBRA File: 100218_MICH_State_Plane_Southern_Zone.dgn Model: Site Plan B

# APPENDIX C
# AMBIENT AIR TESTING REPORTS
# INITIAL TESTING
# PERSONNEL TESTING

©envirologic

July 20, 2011

Mr. Dave Stegink
Associate Vice President
Senior Environmental Scientist
Envirologic Technologies, Inc.
2960 Interstate Parkway
Kalamazoo, MI 49048

Dear Mr. Stegink;

Enclosed is the report for the ambient air quality monitoring conducted at multiple locations on the former Acme Building site located at 600-620 North Mechanic Street, Jackson, MI 49201.

If you have any question regarding the report or if I can be of any further assistance, please do not hesitate to call me at (269) 329-1237 or (616) 813-0989.

Sincerely,

Mark Hoogewind, C.I.H., M.P.H.
Senior Certified Industrial Hygienist
BDN Industrial Hygiene Consultants, Inc.

# *Ambient Air Quality Monitoring Report*

**Facility: Former Acme Building Site**
**600-620 North Mechanic Street**
**Jackson, MI 49201**
**Areas Monitored: Multiple Locations Throughout Site**
**Monitoring Dates: July 8, 2011**


***Prepared for:***
**Mr. Dave Stegink**
**Associate Vice President**
**Senior Environmental Scientist**
**Envirologic Technologies, Inc.**
**2960 Interstate Parkway**
**Kalamazoo, MI 49048**

***Prepared by:***
**Mark Hoogewind, C.I.H., M.P.H.**
**Senior Certified Industrial Hygienist**
**BDN Industrial Hygiene Consultants, Inc.**
**8105 Valleywood Lane**
**Portage, MI 49024**
**BDN Job #: 14972**

# AMBIENT AIR QUALITY MONITORING REPORT

**Facility Name:** Former Acme Building Site

**Address:** 600-620 North Mechanic Street
Jackson, MI 49201

**Areas Monitored:** Multiple Locations Throughout Site

**Monitoring Dates:** July 8, 2011

**Chemical Agents Monitored:** Carbon Tetrachloride

## INTRODUCTION

Pursuant to past finding of subsurface Carbon Tetrachloride soil contamination on the site, ambient air monitoring was conducted at multiple locations throughout the site to establish ambient air concentrations of Carbon Tetrachloride.

## AIR MONITORING METHODOLGY

Ambient air monitoring was conducted utilizing a personal sampling pump in conjunction with a SKC 226-01 charcoal sampling tube in accordance with OSHA Method #7/NIOSH Method 1003. Five samples were collected at a height of 3-4 feet via a sampling tripod. The specific monitoring locations are indicated in the Ambient Air Monitoring Results Summary which is included as Attachment I. (Note: The monitoring location descriptions refers to locations as indicated on Figure No. 4 of Envirologic Technologies, Inc.'s document entitled "Evaluation of Site Conditions and Work Plan for Due Care Investigation" for the former Acme Building site located at 600-620 North Mechanic Street, Jackson, MI, 49201. Actual coordinates for these locations are also provided.)

Monitoring was conducted at flowrates of 98-113 ml/min for periods of 314-316 minutes. (A total of 30.9-35.7 liters were sampled.) The collected samples were sent to AT Labs, Inc. for analysis. (AT Labs, Inc. is an American Industrial Hygiene Association accredited third party laboratory.)

## AMBIENT AIR CONDITIONS DURING MONITORING PERIOD

The following ambient air conditions were recorded at the times indicated:

| Time | 10:00 AM | 12:00PM | 2:00 PM |
|---|---|---|---|
| Temperature | 83.7º F | 90.4º F | 93.8º F |
| Relative Humidity | 44.3% | 33.1% | 27.0% |
| Carbon Monoxide | 0 PPM | 0 PPM | 0 PPM |
| Carbon Dioxide | <300 PPM | <310 PPM | <350 PPM |
| Wind | ~0-5 MPH from N | ~5-10 MPH from NW | ~10-15 MPH from NW |

During the monitoring period, the sky was virtually cloudless in the morning and partly cloudy in the afternoon.

## RESULTS/CONCLUSIONS

**Results:**

Referencing Attachment I (Ambient Air Monitoring Results Summary), Carbon Tetrachloride was not detected in any of the locations monitored. The limit of detection for the amount of amount of air collected was 0.02-0.03 PPM.

**Conclusions:**

- Referencing Attachment I (Ambient Air Monitoring Results Summary), the respective 8-hour time weighted average (TWA) concentrations of Carbon Tetrachloride detected at each monitoring location are noted. The MIOSHA Permissible Exposure Limit (PEL) for each of these chemicals, which is based on an 8-hour TWA exposure, is noted as well. As evident, the 8-hour TWA concentrations for each of these chemicals, which would approximate an employee's 8-hour TWA exposure to the chemicals if the employee stood in the monitoring locations indicated for 8 hours, were well below MIOSHA PEL for Carbon Tetrachloride. (Note: The OSHA PEL for Carbon Tetrachloride is 10 PPM. OSHA attempted to lower the PEL for Carbon Tetrachloride to 2 PPM in 1989 but was required to vacate the PEL pursuant to court action. The vacated PEL of 2 PPM is, however, in effect in Michigan since, as an authorized state, they can legally issue PELs more stringent than OSHA.)
- Gas chromatographic analysis for Carbon Tetrachloride was employed by AT Labs, Inc. Per AT Labs, Inc.'s Laboratory Results report, no additional peaks, e.g. for other chemicals, were detected.

It should be noted that the information presented reflects conditions on the date of the evaluation and at the time the sampling was performed. Varying conditions can result in varying exposures.

Should you have any questions or concerns about the provided material, please do not hesitate to contact me at (269) 329-1237 or (616) 813-0989.

Sincerely,

Mark Hoogewind, C.I.H., M.P.H.
Senior Certified Industrial Hygienist
BDN Industrial Hygiene Consultants, Inc.

# ATTACHMENT I

## AMBIENT AIR MONITORING RESULTS SUMMARY

**FACILITY:** Former Acme Building Site
**AREAS MONITORED:** Multiple Locations Throughout Site
**MONITORING DATE:** July 8, 2011

| SAMPLE ID | MONITORING LOCATION (Coordinates) | CHEMICAL | DURATION OF MONITORING (Flowrate, Volume) | MONITORING RESULTS (PPM) | | MIOSHA PEL (PPM) |
|---|---|---|---|---|---|---|
| | | | | TWA CONCENTRATION[1] | TWA CONCENTRATION[2] (8 hour) | |
| AC02 | On Concrete Slab in the Vicinity of SS 33 and SS 34 (N42º51.327´, W084º24.402´) | Carbon Tetrachloride | 316 minutes (113ml/m, 35.7 l ) | <0.02 BDL;DL=0.02 | <0.02 BDL;DL=0.02 | 2 |
| AC05 | On Concrete Slab in the Vicinity of SS 18 (N42º15.335´, W084º24.381´) | Carbon Tetrachloride | 314 minutes (105 ml/m, 32.9 l ) | <0.02 BDL;DL=0.02 | <0.02 BDL;DL=0.02 | 2 |
| AC04 | On Concrete Slab in the Vicinity of SS 50 (N42º15.293´, W084º24.380´) | Carbon Tetrachloride | 314 minutes (112 ml/m, 35.2 l) | <0.02 BDL;DL=0.02 | <0.02 BDL;DL=0.02 | 2 |
| AC03 | West Off Concrete Slab at a Location Due West of SS 33 and SS 34 Midway Between Approximate Location of Former Tunnel and West Property Line (N42º15.325´, W084º24.424´) | Carbon Tetrachloride | 315 minutes (98 ml/m, 30.9 l) | <0.03 BDL;DL=0.03 | <0.03 BDL;DL=0.03 | 2 |
| Gil Air 1008 | West Off Concrete Slab Approximately Midway Between MW-9D and MW-3D (N42º51.346´, W084º24.427´) | Carbon Tetrachloride | 315 minutes (102 ml/m, 32.1) | <0.02 BDL;DL=0.02 | <0.02 BDL;DL=0.02 | 2 |

**AT Labs, Inc.'s complete report is attached.**

[1] Time Weighted Average Concentration during monitoring period.
[2] 8-hour Time Weighted Average Concentration. Time Weighted Average Concentration over an 8 hour time period. Assuming constant exposures throughout the monitoring period, which is assumed in this case, the TWA Concentration would equal the 8-hour TWA Concentration.
PPM Parts Per Million
BDL Below Detection Limit
DL Detection Limit

# LABORATORY REPORT
## (Air Sampling)

***Batch No: 2011070284***

***Customer:*** **BDN INDUSTRIAL HYGIENE CONSULTANTS INC**
***Attention:*** **MARK HOOGEWIND**
***Address:*** **8105 VALLEYWOOD LANE**

***City, State:*** **PORTAGE, MI 49024**
***Country:*** **US**

***Tel No:*** **(800) 968-0123**
***Fax No:*** **(269) 329-7446**

***Contact No:*** **46199**
***Project No:*** **ENVIROLOGIC**
***PO No:***

***Date Received:*** **July 12, 2011**
***Date Reported:*** **July 19, 2011**

***Date(s) Analyzed:*** **07/19/11**

**Exposure results are the average concentration for the period of time monitored. ND = None Detected. The results relate only to the items tested. Unless noted below, samples were received in acceptable condition, all applicable quality control were within method specifications, lab blanks were subtracted before a result was reported, and any customer supplied field blanks were not subtracted from sample results. The molar volume at 22 C (24.1 L/mole) was used to calculate parts per million, ppm. Air concentrations reported are based upon field sampling information provided by the customer. For assistance with the content of this report, please visit the Customer Services section of our web site at http://www.assaytech.com or contact Technical Support at 1-800-833-1258.**

| Lab Sample ID / Lab Code | Date Sampled | Media Code - Client Sample ID | Chemical Analyzed (Method, Chemist) | Quantity Found (Front/Back) (µg) | Quantity Found (µg) | Reporting Limit (µg) | Sample Volume (L) | Sample Time (min) | Concentration/Exposure ($mg/M^3$) | Concentration/Exposure (ppm) | Reporting Limit ($mg/M^3$) | Reporting Limit (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2011025233 - ATOH | 7/8/2011 | J6-001 - AC02 | CARBON TETRACHLORIDE (1,101) | ND / ND | ND | 5 | 35.7 | 316 | ND | ND | 0.1 | 0.02 |
| 2011025234 - ATOH | 7/8/2011 | J6-001 - AC05 | CARBON TETRACHLORIDE (1,101) | ND / ND | ND | 5 | 33 | 314 | ND | ND | 0.2 | 0.02 |
| 2011025235 - ATOH | 7/8/2011 | J6-001 - AC04 | CARBON TETRACHLORIDE (1,101) | ND / ND | ND | 5 | 35.2 | 314 | ND | ND | 0.1 | 0.02 |
| 2011025236 - ATOH | 7/8/2011 | J6-001 - AC03 | CARBON TETRACHLORIDE (1,101) | ND / ND | ND | 5 | 30.9 | 315 | ND | ND | 0.2 | 0.03 |
| 2011025237 - ATOH | 7/8/2011 | J6-001 - GIL AIR 1008 | CARBON TETRACHLORIDE (1,101) | ND / ND | ND | 5 | 32.1 | 315 | ND | ND | 0.2 | 0.02 |
| 2011025238 - ATOH | 7/8/2011 | J6-001 - BLANK | CARBON TETRACHLORIDE (1,101) | ND / ND | ND | 5 | | N/A | ND | ND | | |

### Messages

| Lab Sample ID | Message | Method | Method Name | Chemist | Analyzed By | Approved By |
|---|---|---|---|---|---|---|
| | No additional peaks were detected. | 1 | MOD OSHA 7 | 101 | K. TAYLOR | W. EWING |

September 9, 2011

Mr. Dave Stegink
Associate Vice President
Senior Environmental Scientist
Envirologic Technologies, Inc.
2960 Interstate Parkway
Kalamazoo, MI 49048

Dear Mr. Stegink:

Enclosed is the industrial hygiene monitoring survey report for the monitoring conducted on August 22-23, 2011 at the former Acme Building site located at 600-620 North Mechanic Street, Jackson, MI 49201. In the report, you will find the results of the monitoring conducted and any warranted recommendations for improvement. Also included is a copy of the laboratory report from the analytical laboratory that performed the sample analysis.

As always, if you have any questions regarding the report or if I can be of any further assistance, please do not hesitate to call me at (269) 329-1237 or (616) 813-0989.

Sincerely,

Mark Hoogewind, C.I.H., M.P.H.
Senior Certified Industrial Hygienist
BDN Industrial Hygiene Consultants, Inc.

# *Industrial Hygiene Monitoring Survey Report*

**Site: Former Acme Building Site**
**Survey Dates: August 22-23, 2011**
**Chemical Monitored: Carbon Tetrachloride**
**Operation: Soil Drilling Activities**


***Prepared for:***
**Mr. Dave Stegink**
**Associate Vice President**
**Senior Environmental Scientist**
**Envirologic Technologies**
**2960 Interstate Parkway**
**Kalamazoo, MI 49048**

***Prepared by:***
**Mark Hoogewind, C.I.H., M.P.H.**
**Senior Certified Industrial Hygienist**
**BDN Industrial Hygiene Consultants, Inc.**
**8105 Valleywood Lane**
**Portage, MI 49024**
**BDN Job# 15015**

BDN Industrial Hygiene Consultants, Inc.

# INDUSTRIAL HYGIENE MONITORING SURVEY REPORT

**Site Name: Former Acme Building Site**

**Address: 600-620 North Mechanic Street**
**Jackson, MI 49201**

**Survey Dates: August 22-23, 2011**
**Chemical Monitored: Carbon Tetrachloride**
**Operation: Soil Drilling Activities**

## INTRODUCTION

Enclosed please find the results of the industrial hygiene monitoring survey conducted at the above-identified site. Pursuant to past findings of subsurface Carbon Tetrachloride soil contamination on the site, the purpose of this survey was to quantify, for subsequent comparison against established, applicable occupational exposure limits, employee exposures to Carbon Tetrachloride during the subject operation.

## CARBON TETRACHLORIDE OCCUPATIONAL EXPOSURE LIMITS

Michigan Occupational Safety and Health Administration (MIOSHA):

2.0 PPM; Permissible Exposure Limit (PEL)

Applicable occupational exposure limits for the monitoring conducted: PEL

Note: The PEL occupational exposure limits represent exposures, or concentrations, that should not be exceeded as averaged over an 8 hour time period or a time period representative of 8 hour average exposures.

## MONITORING METHODOLOGY

To assess employee exposures against the MIOSHA PEL for Carbon Tetrachloride, time-weighted average (TWA) breathing zone samples were collected from employees performing the subject operation.

Samples were collected utilizing a personal sampling pump in conjunction with a SKC 226-01 charcoal sampling tube in accordance with OSHA Method #7/NIOSH Method 1003. Two personal samples were collected on August 22, 2011 and two personal samples were collected on August 23, 2011.

Monitoring was conducted at flow rates of 102-112 ml/min for periods of 361-401 minutes. (A total of 36.8-44.9 liters were sampled.) The collected samples were sent to AT Labs, Inc. for analysis. (AT Labs, Inc. is an American Industrial Hygiene Association accredited third party laboratory.)

The employees listed in the attached Industrial Hygiene Monitoring Survey Summary Report were monitored.

## DISCUSSION

The subject operation involves soil drilling activities which include the following separate activities:

- Operation of the hollow stem auger as conducted by the driller
- Handling/logging of the collected soil samples from the split spoon sampler as conducted by the geologist.
- Performing decontamination of the split spoon sampler as conducted by the drilling assistant.

Each operation involves working in proximity to either unearthed soil as in the case of the driller or collected soil samples as in the case of the geologist and drilling assistant and, as such, present the possibility of exposure to volatilized Carbon Tetrachloride from the soil where contamination is significant.

## CONCLUSIONS

Exposure information for the employees performing the aforementioned soil drilling activities is provided in the attached Industrial Hygiene Monitoring Survey Summary Report. The employees' TWA exposure over the duration of the subject activities (TWA exposure) has been reported.

The following can be offered:

- <u>The employees' TWA exposures and 8-hour TWA exposures were below the MIOSHA PEL for Carbon Tetrachloride.</u>

  The geologist and driller monitored on August 22, 2011 worked on Soil Boring (SB) 37 from approximately 9:15 AM-12:00 PM and on SB 38 from approximately 12:45 PM-3:15 PM. Sampling with a photoionization detector as conducted by Envirologic personnel of the soil around the auger and collected soil samples in the split spoon sampler for each soil boring were non-detect.

  The geologist and driller assistant monitored on August 23, 2011 worker on SB 34 from approximately 8:00 AM-10:30 AM and on SB 33 from approximately 10:30 AM-12:15 PM. Sampling with a photoionization detector as conducted by Envirologic personnel of the soil around the auger and collected soil samples in the split spoon sampler associated with SB 33 were similarly non-detect. However, sampling with a photoionization detector as conducted by Envirologic personnel of the soil around the auger and collected soil samples in the split spoon sampler associated with SB 34 did detect volatile compounds.

(Note: A sample was also collected utilizing a personal sampling pump in conjunction with a SKC 226-01 charcoal sampling tube in accordance with OSHA Method #7/NIOSH Method 1003 of the soil pile unearthed by SB 34. The personal sampling pump and charcoal tube were placed directly in the soil pile.

Monitoring was conducted at a flow rate of 96 ml/min for a period of 90 minutes. (A total of 8.64 liters was sampled.) The collected samples were sent to AT Labs, Inc. for analysis. (AT Labs, Inc. is an American Industrial Hygiene Association accredited third party laboratory.)

Carbon Tetrachloride was not detected on the collected sample. The limit of detection for the sample is 5 ug which translates to a TWA "exposure" of <0.09 PPM given the quantity of air sampled.

- The results reported represent Carbon Tetrachloride exposures to the employees performing the subject activities and are a function of the exposure conditions operable at the time of monitoring. These conditions include, but are not limited to, the work practices employed by the employees monitored, the time spent performing the subject activities and, most importantly, the level of Carbon Tetrachloride contamination in the soil to which the employees are in proximity. Higher levels of Carbon Tetrachloride contamination in the soil could be expected to result in higher employee exposures.

## RECOMMENDATIONS

Please share the results of this survey with the employees involved in the sampling within 15 days of receiving this report. Additionally, a list of all departmental employees and their social security numbers should be attached to this report.

Should you have any questions or concerns about the provided material, please do not hesitate to contact me at (269) 329-1237 or (616) 813-0989.

Sincerely,

Mark Hoogewind, C.I.H., M.P.H.
Senior Certified Industrial Hygienist
BDN Industrial Hygiene Consultants, Inc.

# INDUSTRIAL HYGIENE MONITORING SURVEY SUMMARY REPORT

**SITE:** Former Acme Building Site
**MONITORING DATES:** August 22-23, 2011
**CONSULTANT:** Mark Hoogewind

| SAMPLE NUMBER (Sample Date) | NAME/SOCIAL SECURITY # | ACTIVITY MONITORED | CHEMICAL | DURATION OF MONITORING (MIN) | MONITORING RESULTS (PPM) | | EXPOSURE LIMIT (PPM) |
|---|---|---|---|---|---|---|---|
| | | | | | TWA EXPOSURE[a] | TWA EXPOSURE (8 hour)[b] | |
| #2 (8/22/2011) | Paul French | Geologist: Handling/Logging of Samples (Soil Borings 37, 38) | Carbon Tetrachloride | 361 | <0.02 BDL;DL=0.02 | <0.02 BDL;DL=0.02 | PEL=2.0 |
| #4 (8/22/2011) | Ryan Jenkins | Driller: Operation of Hollow Stem Auger on Soil (Soil Borings 37, 38) | Carbon Tetrachloride | 363 | <0.02 BDL;DL=0.02 | <0.02 BDL;DL=0.02 | PEL=2.0 |
| #1 (8/23/2011) | Bob Huntington | Driller Assistant: Performing Decontamination of Split Spoon Sampler (Soil Borings 33, 34) | Carbon Tetrachloride | 401 | <0.02 BDL;DL=0.02 | <0.02 BDL;DL=0.02 | PEL=2.0 |
| #3 (8/23/2011) | Paul French | Geologist: Handling/Logging of Samples (Soil Borings 33, 34) | Carbon Tetrachloride | 400 | <0.02 BDL;DL=0.02 | <0.02 BDL;DL=0.02 | PEL=2.0 |

[a] Time Weighted Average Exposure during subject activity.
[b] 8-hour Time Weighted Average Exposure. Time Weighted Average Exposure over an 8 hour time period. Assumes constant exposures for the rest of 8 hour period and, as such, the 8-hour TWA Exposure would equal the TWA Exposure.
PPM Parts Per Million
BDL Below Detection Limit
DL Detection Limit

# LABORATORY REPORT
## (Air Sampling)

***Batch No: 2011080709***

***Customer:*** **BDN INDUSTRIAL HYGIENE CONSULTANTS INC**
***Attention:*** **MARK HOOGEWIND**
***Address:*** **8105 VALLEYWOOD LANE**

***City, State:*** **PORTAGE, MI 49024**
***Country:*** **US**

***Tel No:*** **(800) 968-0123**
***Fax No:*** **(269) 329-7446**

***Contact No:*** **46199**
***Project No:*** **15015**
***PO No:***

***Date Received:*** **August 23, 2011**
***Date Reported:*** **August 23, 2011**

***Date(s) Analyzed:*** **08/23/11**

**Exposure results are the average concentration for the period of time monitored. ND = None Detected. The results relate only to the items tested. Unless noted below, samples were received in acceptable condition, all applicable quality control were within method specifications, lab blanks were subtracted before a result was reported, and any customer supplied field blanks were not subtracted from sample results. The molar volume at 22 C (24.1 L/mole) was used to calculate parts per million, ppm. Air concentrations reported are based upon field sampling information provided by the customer. For assistance with the content of this report, please visit the Customer Services section of our web site at http://www.assaytech.com or contact Technical Support at 1-800-833-1258.**

| Lab Sample ID / Lab Code | Date Sampled | Media Code - Client Sample ID | Chemical Analyzed (Method, Chemist) | Quantity Found (Front/Back) (mg) | Quantity Found (mg) | Reporting Limit (mg) | Sample Volume (L) | Sample Time (min) | Concentration/Exposure ($mg/M^3$) | Concentration/Exposure (ppm) | Reporting Limit ($mg/M^3$) | Reporting Limit (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2011030762 - ATCA | 8/22/11 | J6-001 - 2 | CARBON TETRACHLORIDE (1,101) | ND / ND | ND | 5 | 36.8 | 361 | ND | ND | 0.1 | 0.02 |
| 2011030763 - ATCA | 8/22/11 | J6-001 - 4 | CARBON TETRACHLORIDE (1,101) | ND / ND | ND | 5 | 38.1 | 363 | ND | ND | 0.1 | 0.02 |

### Messages

| Lab Sample ID | Message | Method | Method Name | Chemist | Analyzed By | Approved By |
|---|---|---|---|---|---|---|
| | | 1 | MOD OSHA 7 | 101 | J. HEARING | S. GREEN |

# LABORATORY REPORT
## (Air Sampling)

***Batch No: 2011080827***

***Customer:*** **BDN INDUSTRIAL HYGIENE CONSULTANTS INC**
***Attention:*** **MARK HOOGEWIND**
***Address:*** **8105 VALLEYWOOD LANE**

***City, State:*** **PORTAGE, MI 49024**
***Country:*** **US**

***Tel No:*** **(800) 968-0123**
***Fax No:*** **(269) 329-7446**

***Contact No:*** **46199**
***Project No:*** **15015**
***PO No:***

***Date Received:*** **August 25, 2011**
***Date Reported:*** **September 2, 2011**

***Date(s) Analyzed:*** **09/02/11**

**Exposure results are the average concentration for the period of time monitored. ND = None Detected. The results relate only to the items tested. Unless noted below, samples were received in acceptable condition, all applicable quality control were within method specifications, lab blanks were subtracted before a result was reported, and any customer supplied field blanks were not subtracted from sample results. The molar volume at 22 C (24.1 L/mole) was used to calculate parts per million, ppm. Air concentrations reported are based upon field sampling information provided by the customer. For assistance with the content of this report, please visit the Customer Services section of our web site at http://www.assaytech.com or contact Technical Support at 1-800-833-1258.**

| Lab Sample ID / Lab Code | Date Sampled | Media Code - Client Sample ID | Chemical Analyzed (Method, Chemist) | Quantity Found (Front/Back) (µg) | Quantity Found (µg) | Reporting Limit (µg) | Sample Volume (L) | Sample Time (min) | Concentration/Exposure ($mg/M^3$) | Concentration/Exposure (ppm) | Reporting Limit ($mg/M^3$) | Reporting Limit (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2011031255 - ATOH | 8/23/2011 | J6-001 - 1 | CARBON TETRACHLORIDE (1,101) | ND / ND | ND | 5 | 44.9 | 401 | ND | ND | 0.1 | 0.02 |
| 2011031256 - ATOH | 8/23/2011 | J6-001 - 3 | CARBON TETRACHLORIDE (1,101) | ND / ND | ND | 5 | 43.2 | 400 | ND | ND | 0.1 | 0.02 |
| 2011031259 - ATOH | 8/23/2011 | J6-001 - A | CARBON TETRACHLORIDE (1,101) | ND / ND | ND | 5 | 8.64 | 90 | ND | ND | 0.6 | 0.09 |
| 2011031260 - ATOH | 8/23/2011 | J6-001 - BLANK ADDED BY LAB | CARBON TETRACHLORIDE (1,101) | ND / ND | ND | 5 | | N/A | ND | ND | | |

### Messages

| Lab Sample ID | Message | Method | Method Name | Chemist | Analyzed By | Approved By |
|---|---|---|---|---|---|---|
| | No significant peaks were seen on the chromatograms. | 1 | MOD OSHA 7 | 101 | K. TAYLOR | W. EWING |

# APPENDIX D
# BORING LOGS

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# LOG OF SS-2



| | |
|---|---|
| CLIENT: | JCBRAU/100218B |
| LOCATION: | former Acme Building, 600 - 626 Mechanic Street, Jackson, MI |
| DRILLING CO: | WMD |
| START DATE: | 08/24/2011 |
| GEOLOGIST: | PDF/RLW |
| COMPLETION DATE: | 08/24/2011 |

| HNU / OVA READING | SAMPLING RESISTANCE | SAMPLES | Feet | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | 0 | | CONCRETE |
| 0 | 6-9-7-6 | | | | SILTY CLAY - brown, hard, low plasticity, with silt, dry. |
| 0 | 4-6-8-10 | | 5 | | |
| 0 | 6-10-11-15 | | | | |
| 0 | 9-26-22-26 | | | | SILTY CLAY - brown, hard, low plasticity, with silt, some coal, dry. |
| | | | 10 | | |
| 0 | 11-25-35-11 | | | | SILT - rusty brown/gray, hard, dry. |
| 0 | 60-75 for 1" | | | | |
| | | | | | COAL - black, friable, dry. |
| 0 | 26-75 for 1" | | 15 | | |
| 0 | 100 for 3" | | | | SHALE - black, unweathered, wet. |
| | | | | | TOTAL DEPTH = 17 FEET |
| | | | 20 | | |
| | | | 25 | | |
| | | | 30 | | |
| | | | 35 | | |

ELEVATIONS
SURFACE:
TOP OF CASING:
STATIC WATER LEVEL:
WATER LEVEL AT TIME OF DRILLING: 14.7

Soil samples collected at 2.5', 5', 7.5', 10', 12.5', 14.5', and 17'.
Water rose to 14.7 feet in auger.

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# LOG OF SS-3



| | |
|---|---|
| CLIENT: | JCBRAU/100218B |
| LOCATION: | former Acme Building, 600 - 626 Mechanic Street, Jackson, MI |
| DRILLING CO: | WMD |
| START DATE: | 08/25/2011 |
| GEOLOGIST: | RLW |
| COMPLETION DATE: | 08/26/2011 |

| HNU / OVA READING | SAMPLING RESISTANCE | SAMPLES | Feet | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | 0 | | CONCRETE |
| 0 | 2-3-3-3 | | | | FILL - clayey sand, brown, fine to medium grained, well sorted, with clay binder, some fine to medium gravel and brick fragments, slightly damp. |
| 0 | 2-2-4-8 | | 5 | | CLAY - brown and gray, firm, low plasticity, dry, becomes hard at 6.5 feet. |
| 0 | 5-8-10-10 | | | | |
| 8.8 | 5-12-20-40 | | | | COAL - black, friable, dry. |
| 0 | 27-47-50-120 for 3" | | 10 | | |
| | | | | | SANDSTONE - dark gray, fine grained, unweathered, dry. |
| 87.8 | 110 for 5" | | 15 | | SANDSTONE - light gray, fine grained, unweathered, dry. |
| 0 | | | | | |
| 0 | | | | | |
| | | | 20 | | TOTAL DEPTH = 20 FEET |
| | | | 25 | | |
| | | | 30 | | |
| | | | 35 | | |

ELEVATIONS
SURFACE:
TOP OF CASING:
STATIC WATER LEVEL:
WATER LEVEL AT TIME OF DRILLING: NA

Soil samples collected at 2.5', 5', 7.5', 10', 12.5', 15', 17.5', and 20'. Rock coring done from 16 - 20 feet, no blow counts could be collected.

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# LOG OF SS-4



| | | | |
|---|---|---|---|
| CLIENT: | JCBRAU/100218B | | |
| LOCATION: | former Acme Building, 600 - 626 Mechanic Street, Jackson, MI | | |
| DRILLING CO: | WMD | START DATE: | 08/23/2011 |
| GEOLOGIST: | PDF | COMPLETION DATE: | 08/24/2011 |

| HNU / OVA READING | SAMPLING RESISTANCE | SAMPLES | Feet | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | 0 | | |
| 0 | 8-8-10-10 | | | | FILL - sand and concrete, wet. |
| 0 | 4-6-10-10 | | | | CLAY - gray and brown, hard, low plasticity, with some silt, dry. |
| 0 | 5-11-9-15 | | 5 | | CLAYEY SILT - gray and brown, hard, low plasticity, with clay binder, some medium gravel, dry. |
| 0 | 8-11-14-21 | | | | |
| 0 | 9-6-11-19 | | | | |
| 0 | 8-11-50 for 5" | | 10 | | |
| 0 | 11-25-50 for 5" | | | | CLAYEY SILT - light gray, hard, low plasticitry, with clay binder, some medium gravel, dry. SILT - black, hard, dry. |
| 0 | 23-100 for 5" | | | | |
| | | | 15 | | COAL - black, friable, dry. |
| 0 | 25-100 for 5" | | | | COAL AND SHALE - black, fraible, dry. |
| 0 | 100 for 5" | | | | SHALE - black, unweathered, dry, wet at 17.5 feet. TOTAL DEPTH = 18 FEET |
| | | | 20 | | |
| | | | 25 | | |
| | | | 30 | | |
| | | | 35 | | |

ELEVATIONS
SURFACE:
TOP OF CASING:
STATIC WATER LEVEL:
WATER LEVEL AT TIME OF DRILLING: 17.5

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# LOG OF SS-5



| | |
|---|---|
| CLIENT: | JCBRAU/100218B |
| LOCATION: | former Acme Building, 600 - 626 Mechanic Street, Jackson, MI |
| DRILLING CO: | WMD |
| START DATE: | 08/24/2011 |
| GEOLOGIST: | RLW |
| COMPLETION DATE: | 08/25/2011 |

| HNU / OVA READING | SAMPLING RESISTANCE | SAMPLES | Feet | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | 0 | | CONCRETE |
| 0 | 6-27-60 | | | | SAND - light brown, fine grained, well sorted, with some sandstone clasts, dry. |
| 0 | 36-55 | | 5 | | |
| 0 | 40-40-15-15 | | | | |
| 0 | 8-16-52 | | | | CLAY - brown and gray, hard, low plasticity, dry. |
| 0 | 115 | | 10 | | |
| | | | | | SANDSTONE - gray, fine grained, well sorted, unweathered, dry. |
| 0 | | | | | |
| | | | 15 | | SHALE - dark gray to black, unweathered, dry. |
| 0 | | | | | COAL - black, friable, wet. |
| 0 | | | | | SHALE - dark gray to black, unweathered, dry. |
| | | | 20 | | TOTAL DEPTH = 20 FEET |
| | | | 25 | | |
| | | | 30 | | |
| | | | 35 | | |

ELEVATIONS
SURFACE:
TOP OF CASING:
STATIC WATER LEVEL:
WATER LEVEL AT TIME OF DRILLING: 16

Soil samples collected at 2.5', 5', 7.5', 10', 12.5', 15', 17.5', and 20'. Rock coring done from 12 - 20 feet, no blow counts could be collected.

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# LOG OF SS-33



| | |
|---|---|
| CLIENT: | JCBRAU/100218B |
| LOCATION: | former Acme Building, 600 - 626 Mechanic Street, Jackson, MI |
| DRILLING CO: | WMD |
| START DATE: | 08/23/2011 |
| GEOLOGIST: | PDF |
| COMPLETION DATE: | 08/23/2011 |

| HNU / OVA READING | SAMPLING RESISTANCE | SAMPLES | Feet | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | 0 | | FILL - sand, dark brown, medium to coarse grained, with fine gravel, wet. |
| 0 | 34-100 for 5" | ■ | | | SAND - brown, with some gravel, becomes reddish brown at 4 feet, dry. |
| 0 | 9-4-4-24 | ■ | 5 | | CLAY - rusty brown, hard, low plasticity, with gray sand lenses, dry. |
| 0 | 15-27-27-25 | ■ | | | SAND - rusty brown, fine grained, dry. |
| | | | | | CLAY - with gray and brown sand lenses, dry. |
| 0 | 8-14-12-11 | ■ | | | |
| | | | 10 | | SHALE - dark gray with brown sand lenses, highly weathered, friable, dry. |
| 0 | 8-14-12-11 | ■ | | | |
| | | | | | SHALE - black, dry. |
| 0 | 4-7-5-4 | ■ | | | |
| 0 | | ■ | 15 | | SHALE - black, with coal, wet at 15 feet. |
| | | | | | COAL - wet. |
| 0 | 5-15-15-15 | ■ | | | |
| | | | | | COAL AND SHALE - black, wet. |
| 0 | 10-100 for 5" | ■ | | | |
| | | | | | SANDSTONE - gray, moist. |
| 0 | 60 | ■ | 20 | | TOTAL DEPTH = 20 FEET |
| | | | 25 | | |
| | | | 30 | | |
| | | | 35 | | |

ELEVATIONS
SURFACE:
TOP OF CASING:
STATIC WATER LEVEL:
WATER LEVEL AT TIME OF DRILLING: 15

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# LOG OF SS-34



| | |
|---|---|
| CLIENT: | JCBRAU/100218B |
| LOCATION: | former Acme Building, 600 - 626 Mechanic Street, Jackson, MI |
| DRILLING CO: | WMD |
| START DATE: | 08/23/2011 |
| GEOLOGIST: | PDF |
| COMPLETION DATE: | 08/23/2011 |

| HNU / OVA READING | SAMPLING RESISTANCE | SAMPLES | Feet | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | 0 | | CONCRETE |
| | | | | | FILL - sand, brown, medium grained, with fine to medium gravel, wet, conrete refusal at 2.5 feet. |
| 0 | 100 | ■ | | | |
| | | | | | CLAY - rusty brown, with gray sand lenses. |
| 0 | 7-10-9-11 | ■ | 5 | | |
| 0.1 | 4-7-9-10 | ■ | | | |
| | | | | | CLAY - dark gray. |
| 0.1 | 8-13-13-7 | ■ | | | |
| | | | | | SHALE - dark gray, highly weathered, friable. |
| | | | 10 | | |
| 0 | 2-3-2-1 | ■ | | | |
| 0 | 8-100 | ■ | | | |
| | | | | | SANDSTONE - gray, moist, wet at 19.5 feet. |
| 2.1 | 75-75 for 1" | ■ | | | |
| | | | 15 | | |
| 0.7 | 47-100 for 2" | ■ | | | |
| 7.9 | 100 | ■ | 20 | | |
| 3.1 | 75 | ■ | | | |
| | | | | | TOTAL DEPTH = 22.5 FEET |
| | | | 25 | | |
| | | | 30 | | |
| | | | 35 | | |

ELEVATIONS
SURFACE:
TOP OF CASING:
STATIC WATER LEVEL:
WATER LEVEL AT TIME OF DRILLING: 19.5

Water in auger rose to 14 feet.

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# LOG OF SS-37



| | | | |
|---|---|---|---|
| CLIENT: | JCBRAU/100218B | | |
| LOCATION: | former Acme Building, 600 - 626 Mechanic Street, Jackson, MI | | |
| DRILLING CO: | WMD | START DATE: | 08/22/2011 |
| GEOLOGIST: | PDF | COMPLETION DATE: | 08/22/2011 |

| HNU / OVA READING | SAMPLING RESISTANCE | SAMPLES | Feet | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | 0 | | CONCRETE |
| | | | | | FILL - black. |
| 0 | 3-5-5-3 | | | | SAND - light brown to brown, fine grained. |
| 0 | | | 5 | | |
| 0 | 5-5-68 | | | | SAND - rusty brown, fine grained. |
| 0 | 25-5-6-10 | | | | CLAY - brown to dark gray, hard, low plasticity. |
| | | | 10 | | |
| 0 | 5-10-14-14 | | | | |
| | | | | | COAL - black, friable. |
| 0 | 20-34-36-34 | | | | SHALE - gray, low plasticity, with interbedded layers of coal, friable, dry. |
| 0 | 21-52-60 | | 15 | | |
| 0 | 30-50-42 | | | | COAL - black, fraible, wet 6" saturated seam at 16 feet. |
| 0 | 102 | | | | |
| | | | | | SANDSTONE - dark gray, dry. |
| 0 | 100 | | 20 | | |
| 0 | 85 | | | | |
| | | | | | TOTAL DEPTH = 22.5 FEET |
| | | | 25 | | |
| | | | 30 | | |
| | | | 35 | | |

ELEVATIONS
SURFACE:
TOP OF CASING:
STATIC WATER LEVEL:
WATER LEVEL AT TIME OF DRILLING: 16

Water in auger rose to 15.5 feet.

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# LOG OF SS-38



| | |
|---|---|
| CLIENT: | JCBRAU/100218B |
| LOCATION: | former Acme Building, 600 - 626 Mechanic Street, Jackson, MI |
| DRILLING CO: | WMD |
| START DATE: | 08/22/2011 |
| GEOLOGIST: | PDF |
| COMPLETION DATE: | 08/22/2011 |

| HNU / OVA READING | SAMPLING RESISTANCE | SAMPLES | Feet | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | 0 | | FILL - dark brown, sandy. |
| 0 | 2-14-7-3 | | | | SAND - light brown, fine grained, with medium sandstone clasts and gravel. |
| 0 | 2-2-2-3 | | 5 | | |
| 0 | 2-2-2-1 | | | | CLAY - brown and dark gray. |
| 0 | 40-63-9-15 | | | | SAND - rusty brown, fine grained. |
| | | | 10 | | CLAY - brown and dark gray, low plasticity. |
| 0 | 4-7-9-13 | | | | |
| 0 | 12-34-44-60 | | | | SHALE - dark gray, dry. |
| 0 | 26-51-50 for 4" | | 15 | | SHALE - light gray, dry. |
| 0 | 19-83-100 for 4" | | | | COAL - dry. |
| 0 | 17-36 | | 20 | | SHALE - gray. |
| 0 | 100 | | | | SANDSTONE - gray, moist, dry at 25 feet. |
| 0 | 100 | | 25 | | |
| 0 | 100 | | | | |
| | | | 30 | | TOTAL DEPTH = 29.5 FEET |
| | | | 35 | | |

ELEVATIONS
SURFACE:
TOP OF CASING:
STATIC WATER LEVEL:
WATER LEVEL AT TIME OF DRILLING: 15.4

Water rose to 15.4 feet in auger.

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# LOG OF SS-52



| | |
|---|---|
| CLIENT: | JCBRAU/100218B |
| LOCATION: | former Acme Building, 600 - 626 Mechanic Street, Jackson, MI |
| DRILLING CO: | WMD |
| START DATE: | 08/23/2011 |
| GEOLOGIST: | PDF |
| COMPLETION DATE: | 08/23/2011 |

| HNU / OVA READING | SAMPLING RESISTANCE | SAMPLES | Feet | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | 0 | | FILL |
| | | | | | SANDSTONE BOULDER |
| | | | | | SAND - light gray, fine grained, moist. |
| 0 | 9-14-10-15 | | 5 | | SAND - light brown, fine grained, moist. |
| 0 | 7-10-11-15 | | | | CLAY - rusty brown with gray sand lenses, hard, dry. |
| 0 | 7-11-14-19 | | | | |
| 0 | 9-47-50 for 5" | | 10 | | |
| | | | | | SHALE - rusty brown with gray sand lenses, dry. |
| 0 | 24-100 for 5" | | | | SHALE - black, friable. |
| 0 | 26-64-75 for 5" | | 15 | | SHALE - light gray, with black sand lenses, dry. |
| 0 | 22-22-29-12 | | | | COAL - wet, dry at 17.5 feet. |
| 0 | 51-75 | | | | SHALE - gray. |
| 0 | | | | | SANDSTONE - gray. |
| | | | 20 | | TOTAL DEPTH = 20 FEET |
| | | | 25 | | |
| | | | 30 | | |
| | | | 35 | | |

ELEVATIONS
SURFACE:
TOP OF CASING:
STATIC WATER LEVEL:
WATER LEVEL AT TIME OF DRILLING: 15.3

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# LOG OF SS-53



| | |
|---|---|
| CLIENT: | JCBRAU/100218B |
| LOCATION: | former Acme Building, 600 - 626 Mechanic Street, Jackson, MI |
| DRILLING CO: | WMD |
| START DATE: | 08/22/2011 |
| GEOLOGIST: | PDF |
| COMPLETION DATE: | 08/22/2011 |

| HNU / OVA READING | SAMPLING RESISTANCE | SAMPLES | Feet | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | 0 | | CONCRETE |
| 0 | 2-3-7-3 | | | | FILL - clayey sand, brick fragments at 3 - 4 feet. |
| 0 | 3-4-4-5 | | 5 | | SAND - rusty brown, fine grained. |
| 0 | 3-4-6-8 | | | | CLAY - brown and gray, hard, low plasticity, with thin coal lenses. |
| 0 | 2-5-8-10 | | | | |
| | | | 10 | | |
| 0 | 4-8-6-10 | | | | SHALE - brown to dark gray, highly weathered, dry, wet at 13.7 feet. |
| 0 | 3-2-0-1 | | | | |
| 0 | | | 15 | | SHALE - dark gray, highly weathered, wet. |
| 0 | 0-0-8-20 | | | | COAL - wet, dry at 17.5 feet. |
| 0 | 2-4-100+ | | | | |
| | | | 20 | | SHALE - dark gray. |
| | | | | | SANDSTONE |
| | | | | | TOTAL DEPTH = 20 FEET |
| | | | 25 | | |
| | | | 30 | | |
| | | | 35 | | |

ELEVATIONS
SURFACE:
TOP OF CASING:
STATIC WATER LEVEL:
WATER LEVEL AT TIME OF DRILLING: 13.7

Water rose to 13.7 feet in auger.

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# LOG OF SS-54



| | |
|---|---|
| CLIENT: | JCBRAU/100218B |
| LOCATION: | former Acme Building, 600 - 626 Mechanic Street, Jackson, MI |
| DRILLING CO: | WMD |
| START DATE: | 08/26/2011 |
| GEOLOGIST: | RLW |
| COMPLETION DATE: | 08/26/2011 |

| HNU / OVA READING | SAMPLING RESISTANCE | SAMPLES | Feet | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | 0 | | FILL - clayey sand, gray, fine to medium grained, poorly sorted, with clay binder, some fine to medium gravel, slightly damp, wet at 3.75 feet. |
| 0 | 3-1-2-1 | | | | |
| 0 | 2-0-1-1 | | 5 | | CLAY - brown and gray, soft, low plasticity, with little fine sand, wet. |
| 0 | 0-0-0-0 | | | | |
| 0 | 0-0-0-0 | | | | CLAY - gray, soft, low plasticity, with little fine gravel, slightly damp. |
| | | | 10 | | |
| 0 | 4-11-19-63 | | | | |
| 0 | 110 for 4" | | | | SAND - light gray, fine grained, well sorted, with some sandstone clasts, dry. |
| | | | | | SANDSTONE - light gray, fine grained, unweathered, dry. |
| 0 | 90 for 3" | | 15 | | TOTAL DEPTH = 15.25 FEET |
| | | | 20 | | |
| | | | 25 | | |
| | | | 30 | | |
| | | | 35 | | |

ELEVATIONS
SURFACE:
TOP OF CASING:
STATIC WATER LEVEL:
WATER LEVEL AT TIME OF DRILLING: 3.75

Soil samples collected at 2.5', 5', 7.5', 10', 12', and 15'.

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# LOG OF SS-55



| | | | |
|---|---|---|---|
| CLIENT: | JCBRAU/100218B | | |
| LOCATION: | former Acme Building, 600 - 626 Mechanic Street, Jackson, MI | | |
| DRILLING CO: | WMD | START DATE: | 08/26/2011 |
| GEOLOGIST: | RLW | COMPLETION DATE: | 08/26/2011 |

| HNU / OVA READING | SAMPLING RESISTANCE | SAMPLES | Feet | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | 0 | | FILL - clayey sand, brown, fine grained, poorly sorted, with clay binder, some fine to medium gravel, dry. |
| 0 | 5-4-2-5 | | | | SAND - brown, fine grained, well sorted, with trace fine gravel, dry. |
| 0 | 6-6-10-15 | | 5 | | ORGANIC MATERIAL - peat, black, dry. |
| 0 | 9-15-16-20 | | | | CLAY - dark gray to black, hard, low plasticity, with some clay, dry. |
| 0 | 20-25-53 | | | | COAL - black, friable, dry, wet at 9 feet. |
| 0 | 25-65 | | 10 | | |
| 0 | 28-101 | | | | SANDSTONE - gray, fine grained, well sorted, unweathered, dry. |
| 0 | 151 | | 15 | | TOTAL DEPTH = 15 FEET |
| | | | 20 | | |
| | | | 25 | | |
| | | | 30 | | |
| | | | 35 | | |

ELEVATIONS
SURFACE:
TOP OF CASING:
STATIC WATER LEVEL:
WATER LEVEL AT TIME OF DRILLING: 9

Soil samples collected at 2.5', 5', 7.5', 10', 12.5', and 15'.

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# LOG OF SS-56



CLIENT: JCBRAU/100218B

LOCATION: former Acme Building, 600 - 626 Mechanic Street, Jackson, MI

DRILLING CO: WMD | START DATE: 08/25/2011

GEOLOGIST: RLW | COMPLETION DATE: 08/25/2011

| HNU / OVA READING | SAMPLING RESISTANCE | SAMPLES | Feet | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | 0 | | CONCRETE |
| 604 | 6-4-7-10 | | | | FILL - silty sand, brown, fine grained, well sorted, with silt, little fine gravel, dry, moderate odor. |
| 0.2 | 15-50-60 | | 5 | | SAND - light brown, fine grained, well sorted, dry. |
| 0 | 8-15-27-40 | | | | CLAY - brown and gray, hard, low plasticity, dry. |
| 0 | 5-12-20-40 | | 10 | | |
| 0 | 10-17-20-30 | | | | CLAY - gray, hard, low plasticity, dry. |
| 0 | 7-11-19-60 | | | | CLAY - dark gray, hard, low plasticity, with some coal, dry. |
| 0 | 29-45-60 | | 15 | | |
| | | | | | COAL - black, friable, wet. |
| 0 | 26-35-24-60 for 3" | | 20 | | SANDSTONE - gray, fine grained, unweathered, dry. |
| | | | | | TOTAL DEPTH = 20.75 FEET |
| | | | 25 | | |
| | | | 30 | | |
| | | | 35 | | |

ELEVATIONS
SURFACE:
TOP OF CASING:
STATIC WATER LEVEL:
WATER LEVEL AT TIME OF DRILLING: 17

Soil samples collected at 2.5', 5', 7.5', 10', 12.5', 15', 17.5', and 20'.

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# LOG OF SS-57



| | | | |
|---|---|---|---|
| CLIENT: | JCBRAU/100218B | | |
| LOCATION: | former Acme Building, 600 - 626 Mechanic Street, Jackson, MI | | |
| DRILLING CO: | WMD | START DATE: | 08/25/2011 |
| GEOLOGIST: | RLW | COMPLETION DATE: | 08/25/2011 |

| HNU / OVA READING | SAMPLING RESISTANCE | SAMPLES | Feet | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | 0 | | CONCRETE |
| 0 | 2, 50 for 3" | | | | CLAYEY SAND - brown, fine to medium grained, well sorted, with clay binder, some fine gravel, dry. |
| 0 | 2-13-7-11 | | 5 | | CLAY - gray and brown, firm, low plasticity, dry, becomes hard at 6.5 feet. |
| 0 | 8-11-11-11 | | | | |
| 0 | 7-10-9-7 | | | | |
| | | | 10 | | |
| 0 | 3-6-10-16 | | | | SANDY CLAY - brown, soft to firm, low plasticity, with fine sand, dry. |
| 0 | 31-71 | | | | CLAY - gray, hard, low plasticity, with some coal, dry. |
| | | | | | COAL - black, friable, dry. |
| 3.9 | 10-12-100 for 5" | | 15 | | |
| 0 | 130 for 5" | | | | SANDSTONE - gray, fine grained, unweathered, dry. |
| 0 | 110 for 3" | | | | |
| | | | | | TOTAL DEPTH = 17.75 FEET |
| | | | 20 | | |
| | | | 25 | | |
| | | | 30 | | |
| | | | 35 | | |

ELEVATIONS
SURFACE:
TOP OF CASING:
STATIC WATER LEVEL:
WATER LEVEL AT TIME OF DRILLING: NA

Soil samples collected at 2.5', 5', 7.5', 10', 12.5', 15', and 17.5'.

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Kalamazoo, Michigan 49048
Ph: 269.342.1100 Fax: 269.342.4945

# LOG OF SS-68



| | | | |
|---|---|---|---|
| CLIENT: | JCBRAU/100218B | | |
| LOCATION: | former Acme Building, 600 - 626 Mechanic Street, Jackson, MI | | |
| DRILLING CO: | WMD | START DATE: | 08/24/2011 |
| GEOLOGIST: | RLW | COMPLETION DATE: | 08/24/2011 |

| HNU / OVA READING | SAMPLING RESISTANCE | SAMPLES | Feet | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | 0 | | CONCRETE |
| 0 | 12-19-22-50 | ■ | | | SAND - light brown, fine grained, well sorted, with some sandstone clasts, dry. |
| 0 | 30-52-19-15 | ■ | 5 | | SAND - light brown, fine grained, well sorted, with few sandstone clasts, dry. |
| 0 | 15-26-36-59 | ■ | | | CLAY - gray and brown, hard, low plasticity, dry. |
| 0 | 8-44-100 for 4" | ■ | | | |
| 3.8 | 16-66 | ■ | 10 | | |
| | | | | | CLAY - dark gray, hard, low plasticity, with some coal, dry. |
| 0 | 14-24-14-14 | ■ | | | |
| 0 | 7-40-40-40 | ■ | 15 | | |
| 0 | 21-120 | ■ | | | |
| | | | | ■ | COAL - black, friable, wet. |
| 0 | 33-74-63-50 for 3" | ■ | 20 | ■ | |
| | | | | | SANDSTONE - gray, fine grained, unweathered, dry. |
| | | | | | TOTAL DEPTH = 21.33 FEET |
| | | | 25 | | |
| | | | 30 | | |
| | | | 35 | | |

ELEVATIONS
SURFACE:
TOP OF CASING:
STATIC WATER LEVEL:
WATER LEVEL AT TIME OF DRILLING: 17

Soil samples collected at 2.5', 5', 7.5', 10', 12.5', 15', 17', and 19.5'.

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Kalamazoo, Michigan 49048
Ph: 269.342.1100 Fax: 269.342.4945

# LOG OF SS-69



| | |
|---|---|
| CLIENT: | JCBRAU/100218B |
| LOCATION: | former Acme Building, 600 - 626 Mechanic Street, Jackson, MI |
| DRILLING CO: | WMD |
| START DATE: | 08/24/2011 |
| GEOLOGIST: | PDF/RLW |
| COMPLETION DATE: | 08/24/2011 |

| HNU / OVA READING | SAMPLING RESISTANCE | SAMPLES | Feet | SYMBOL | DESCRIPTION |
|---|---|---|---|---|---|
| | | | 0 | | CONCRETE |
| | | | | | SANDSTONE - boulder encountered. |
| 0 | 22-30-30-50 | | | | SAND - brown, fine grained, well sorted, with some fine sandstone clasts, dry. |
| 0 | 41-29-11-13 | | 5 | | CLAY - gray and brown, hard, low plasticity, with some silt, dry. |
| 0 | 18-61-100 | | | | |
| 0 | 15-50-100 for 4" | | | | |
| 0 | 26-52 | | 10 | | |
| 0 | 8-13-60-50 for 2" | | | | CLAY - very dark gray, hard, low plasticity, with some silt, some coal and organic material, dry. |
| 0 | 35-75 | | 15 | | |
| 0 | 46-100 | | | | COAL - black, friable, wet. |
| 0 | 121 for 3" | | | | SANDSTONE - dark gray, fine grained, unweathered, dry. |
| | | | 20 | | TOTAL DEPTH = 19.25 FEET |
| | | | 25 | | |
| | | | 30 | | |
| | | | 35 | | |

ELEVATIONS
SURFACE:
TOP OF CASING:
STATIC WATER LEVEL:
WATER LEVEL AT TIME OF DRILLING: 16

Soil samples collected at 2.5', 5', 7.5', 10', 12.5', 15', 17', and 19'.

# APPENDIX E
# TABLE OF LABORATORY RESULTS

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**FORMER ACME INDUSTRIES**
**JACKSON, MICHIGAN**
**SUMMARY OF SOIL ANALYTICAL DATA - AUGUST 2011**

| | | | | 1,2,3-Tri methyl benzene ug/kg | 1,2,4-Tri methyl benzene ug/kg | 1,3,5-Tri-methyl benzene ug/kg | 2-Methyl-naph-thalene ug/kg | Benzene ug/kg | Carbon disulfide ug/kg | Carbon tetrachloride ug/kg | Chloroform ug/kg | cis-1,2-Dichloro-ethylene ug/kg | Ethyl-benzene ug/kg | n-Propyl benzene ug/kg | m & p - Xylene ug/kg | o-Xylene ug/kg | p-Isopropyl toluene ug/kg | sec-Butyl benzene ug/kg | Tetrachloro-ethylene ug/kg | Toluene ug/kg | Trichloro-ethylene ug/kg | Trichloro-fluro-methane ug/kg | Vinyl chloride ug/kg | Other Volatiles ug/kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chemical Abstract Service Number → | | | | 526-73-8 | 95-63-6 | 108-67-8 | 91-57-6 | 71-43-2 | 75-15-0 | 56-23-5 | 67-66-3 | 156-59-2 | 100-41-4 | 103-65-1 | 108383,106423 | 95-47-6 | 99-87-6 | 135-98-8 | 127-18-4 | 108-88-3 | 79-01-6 | 75-69-4 | 75-01-4 | -- |
| ***Part 201 Non-Residential Cleanup Criteria for Soil*** | | | | | | | | | | | | | | | | | | | | | | | | |
| ***Residential Drinking Water Protection Criteria*** | | | | *na* | *2,100* | *1,800* | *57,000* | ***100*** | *16,000* | ***100*** | ***1,600*** | *1,400* | *1,500* | *1,600* | *5,600* | | *na* | *1,600* | ***100*** | *16,000* | ***100*** | *52,000* | **40** | -- |
| ***Non-residential Drinking Water Protection Criteria*** | | | | *na* | *2,100* | *1,800* | *1.70E+05* | ***100*** | *46,000* | ***100*** | ***1,600*** | *1,400* | *1,500* | *4,600* | *5,600* | | *na* | *4,600* | ***100*** | *16,000* | ***100*** | *150,000* | **40** | -- |
| ***Groundwater Surface Water Interface Protection*** | | | | *na* | ***570*** | *1,100* | *4,200* | *4,000 (X)* | *ID* | ***900 (X)*** | ***7,000*** | *12,000* | *360* | *ID* | *820* | | *na* | *ID* | ***1,200 (X)*** | *5,400* | *4,000 (X)* | *NA* | 260 (X) | -- |
| *Groundwater Contact Protection* | | | | *na* | *1.1E+5 (C)* | *>Csat* | *5.5E+06* | *220,000* | *>Csat* | *92,000* | *>Csat* | *6.4E+5 (C)* | *1.4E+5 (C)* | *300,000* | *>Csat* | | *na* | *88,000* | *>Csat* | *>Csat* | *440,000* | *Csat* | 20,000 | -- |
| ***Soil Volatilization to Indoor Air Inhalation*** | | | | *na* | *1.1E+5 (C)* | *>Csat* | *4.9E+06* | *8,400* | *140,000* | ***990*** | *38,000* | *41,000* | *1.4E+5 (C)* | *ID* | *>Csat* | | *na* | *ID* | *60,000* | *>Csat* | *37,000* | *Csat* | 2,800 | -- |
| ***Infinite Source Volatile Soil Inhalation*** | | | | *na* | *2.5E+07* | *1.9E+07* | *1.8E+06* | *45,000* | *1.6E+06* | ***12,000*** | *150,000* | *210,000* | *2.4E+06* | *ID* | *>Csat* | | *na* | *ID* | *600,000* | *3.3E+06* | *260,000* | *1.1E+08* | 29,000 | -- |
| *Finite VSIC for 5 Meter Source Thickness* | | | | *na* | *6.0E+08* | *4.6E+08* | *1.8E+06* | *99,000* | *8.0E+06* | *34,000* | *340,000* | *430,000* | *3.1E+06* | *ID* | *6.5E+07* | | *na* | *ID* | *1.4E+06* | *3.6E+07* | *440,000* | *1.4E+11* | *170,000* | -- |
| *Finite VSIC for 2 Meter Source Thickness* | | | | *na* | *6.0E+08* | *4.6E+08* | *1.8E+06* | *230,000* | *1.9E+07* | *79,000* | *790,000* | *1.0E+06* | *6.5E+06* | *ID* | *1.3E+08* | | *na* | *ID* | *3.3E+06* | *3.6E+07* | *1.1E+06* | *1.4E+11* | *420,000* | -- |
| *Particulate Soil Inhalation Criteria* | | | | *na* | *3.6E+10* | *3.6E+10* | *2.9E+08* | *4.7E+08* | *2.1E+10* | *1.7E+08* | *1.6E+09* | *1.0E+09* | *1.3E+10* | *5.9E+08* | *1.3E+11* | | *na* | *1.8E+08* | *6.8E+09* | *1.2E+10* | *2.3E+09* | *1.7E+12* | *8.9E+08* | -- |
| *Direct Contact* | | | | *na* | *>Csat* | *>Csat* | *2.6E+07* | *4.0E+5 (C)* | *>Csat* | *>Csat* | *>Csat* | *6.4E+5 (C)* | *1.4E+5 (C)* | *8.0E+06* | *>Csat* | | *na* | *8.0E+06* | *>Csat* | *>Csat* | *>Csat* | *Csat* | 34,000 | -- |
| *Soil Saturation (Csat)* | | | | *na* | *110,000* | *94,000* | *NA* | *400,000* | *280,000* | *390,000* | *1.5E+06* | *640,000* | *140,000* | *1.0E+07* | *1.50E+05* | | *na* | *1.0E+07* | *88,000* | *250,000* | *500,000* | *560,000* | *490,000* | -- |
| **Sample Identification** | **Lab Identification** | **Sample Date** | **% Total Solids** | | | | | | | | | | | | | | | | | | | | | |
| **SS-2 2.5** | AB80956 | 8/24/2011 | 90.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-2 5.0** | AB80957 | 8/24/2011 | 89.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-2 7.5** | AB80958 | 8/24/2011 | 91.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-2 10.0** | AB80959 | 8/24/2011 | 89.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-2 12.5** | AB80960 | 8/24/2011 | 92.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-2 14.5** | AB80961 | 8/24/2011 | 88.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-2 14.5 (M-1S)** | AB80982 | 8/24/2011 | 86.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-2 17.0** | AB80962 | 8/24/2011 | 90.2 | ND | ND | ND | ND | ND | **60** | ND | ND | **100** | ND | ND | ND | ND | ND | ND | ND | ND | **190** | ND | ND | ND |
| **SS-3 2.5** | T11H306-24 | 8/25/2011 | 89 | ND | ND | ND | ND | ND | ND | **150** | **270** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-3 2.5 (M-6S)** | T11H306-23 | 8/25/2011 | 86 | ND | ND | ND | ND | ND | ND | **210** | **130** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-3 5.0** | T11H306-25 | 8/25/2011 | 85 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-3 7.5** | T11H306-26 | 8/25/2011 | 89 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-3 10.0** | T11H306-27 | 8/25/2011 | 98 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-3 12.0** | T11H306-28 | 8/25/2011 | 89 | **160** | **500** | **120** | ND | ND | ND | ND | ND | **140** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-3 15.0** | AB81018 | 8/26/2011 | 88.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-3 17.5** | AB81019 | 8/26/2011 | 90.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-3-20.0** | AB81020 | 8/26/2011 | 91.9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-4 2.5** | AB80949 | 8/24/2011 | 91.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-4 5.0** | AB80950 | 8/24/2011 | 89.9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-4 7.5** | AB80951 | 8/24/2011 | 91.9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-4 10.0** | AB80952 | 8/24/2011 | 91.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-4 12.5** | AB80953 | 8/24/2011 | 93.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-4 15.0** | AB80954 | 8/24/2011 | 93.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-4 17.5** | AB80955 | 8/24/2011 | 92.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-5-2.5** | AB80986 | 8/24/2011 | 87.9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-5 5.0** | AB80987 | 8/24/2011 | 91.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-5 7.5** | AB80988 | 8/24/2011 | 89.9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-5 10.0** | AB80991 | 8/24/2011 | 93.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-5 12.5** | T11H306-02 | 8/25/2011 | 95 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-5 15.0** | T11H306-03 | 8/25/2011 | 94 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-5 17.5** | T11H306-04 | 8/25/2011 | 90 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-5 20.0** | T11H306-05 | 8/25/2011 | 98 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-33 2.5** | AB80584 | 8/23/2011 | 95.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-33 5.0** | AB80585 | 8/23/2011 | 85.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-33 7.5** | AB80586 | 8/23/2011 | 91.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-33 10.0** | AB80587 | 8/23/2011 | 88.8 | ND | ND | ND | ND | ND | ND | **190** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-33 12.5** | AB80588 | 8/23/2011 | 89.4 | ND | ND | ND | ND | ND | ND | ND | **160** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-33 16.0** | AB80589 | 8/23/2011 | 72.3 | ND | ND | ND | ND | ND | ND | **6,200** | **1,400** | ND | ND | ND | ND | ND | ND | ND | **630** | ND | **1,000** | ND | ND | ND |
| **SS-33 18.0** | AB80590 | 8/23/2011 | 84.3 | ND | ND | ND | ND | ND | ND | **100** | **100** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-33 20.0** | AB80591 | 8/23/2011 | 94.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**FORMER ACME INDUSTRIES**
**JACKSON, MICHIGAN**
**SUMMARY OF SOIL ANALYTICAL DATA - AUGUST 2011**

| | | | | 1,2,3-Tri methyl benzene ug/kg | 1,2,4-Tri methyl benzene ug/kg | 1,3,5-Tri-methyl benzene ug/kg | 2-Methyl-naph-thalene ug/kg | Benzene ug/kg | Carbon disulfide ug/kg | Carbon tetrachloride ug/kg | Chloroform ug/kg | cis-1,2-Dichloro-ethylene ug/kg | Ethyl-benzene ug/kg | n-Propyl benzene ug/kg | m & p - Xylene ug/kg | o-Xylene ug/kg | p-Isopropyl toluene ug/kg | sec-Butyl benzene ug/kg | Tetrachloro-ethylene ug/kg | Toluene ug/kg | Trichloro-ethylene ug/kg | Trichloro-fluro-methane ug/kg | Vinyl chloride ug/kg | Other Volatiles ug/kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chemical Abstract Service Number → | | | | 526-73-8 | 95-63-6 | 108-67-8 | 91-57-6 | 71-43-2 | 75-15-0 | 56-23-5 | 67-66-3 | 156-59-2 | 100-41-4 | 103-65-1 | 108383,106423 | 95-47-6 | 99-87-6 | 135-98-8 | 127-18-4 | 108-88-3 | 79-01-6 | 75-69-4 | 75-01-4 | -- |
| ***Part 201 Non-Residential Cleanup Criteria for Soil*** | | | | | | | | | | | | | | | | | | | | | | | | |
| ***Residential Drinking Water Protection Criteria*** | | | | *na* | *2,100* | *1,800* | *57,000* | ***100*** | *16,000* | ***100*** | ***1,600*** | *1,400* | *1,500* | *1,600* | *5,600* | | *na* | *1,600* | ***100*** | *16,000* | ***100*** | *52,000* | **40** | -- |
| ***Non-residential Drinking Water Protection Criteria*** | | | | *na* | *2,100* | *1,800* | *1.70E+05* | ***100*** | *46,000* | ***100*** | ***1,600*** | *1,400* | *1,500* | *4,600* | *5,600* | | *na* | *4,600* | ***100*** | *16,000* | ***100*** | *150,000* | **40** | -- |
| ***Groundwater Surface Water Interface Protection*** | | | | *na* | ***570*** | *1,100* | *4,200* | *4,000 (X)* | *ID* | ***900 (X)*** | ***7,000*** | *12,000* | *360* | *ID* | *820* | | *na* | *ID* | ***1,200 (X)*** | *5,400* | *4,000 (X)* | *NA* | 260 (X) | -- |
| *Groundwater Contact Protection* | | | | *na* | *1.1E+5 (C)* | *>Csat* | *5.5E+06* | *220,000* | *>Csat* | *92,000* | *>Csat* | *6.4E+5 (C)* | *1.4E+5 (C)* | *300,000* | *>Csat* | | *na* | *88,000* | *>Csat* | *>Csat* | *440,000* | *Csat* | 20,000 | -- |
| ***Soil Volatilization to Indoor Air Inhalation*** | | | | *na* | *1.1E+5 (C)* | *>Csat* | *4.9E+06* | *8,400* | *140,000* | ***990*** | *38,000* | *41,000* | *1.4E+5 (C)* | *ID* | *>Csat* | | *na* | *ID* | *60,000* | *>Csat* | *37,000* | *Csat* | 2,800 | -- |
| ***Infinite Source Volatile Soil Inhalation*** | | | | *na* | *2.5E+07* | *1.9E+07* | *1.8E+06* | *45,000* | *1.6E+06* | ***12,000*** | *150,000* | *210,000* | *2.4E+06* | *ID* | *>Csat* | | *na* | *ID* | *600,000* | *3.3E+06* | *260,000* | *1.1E+08* | 29,000 | -- |
| *Finite VSIC for 5 Meter Source Thickness* | | | | *na* | *6.0E+08* | *4.6E+08* | *1.8E+06* | *99,000* | *8.0E+06* | *34,000* | *340,000* | *430,000* | *3.1E+06* | *ID* | *6.5E+07* | | *na* | *ID* | *1.4E+06* | *3.6E+07* | *440,000* | *1.4E+11* | *170,000* | -- |
| *Finite VSIC for 2 Meter Source Thickness* | | | | *na* | *6.0E+08* | *4.6E+08* | *1.8E+06* | *230,000* | *1.9E+07* | *79,000* | *790,000* | *1.0E+06* | *6.5E+06* | *ID* | *1.3E+08* | | *na* | *ID* | *3.3E+06* | *3.6E+07* | *1.1E+06* | *1.4E+11* | *420,000* | -- |
| *Particulate Soil Inhalation Criteria* | | | | *na* | *3.6E+10* | *3.6E+10* | *2.9E+08* | *4.7E+08* | *2.1E+10* | *1.7E+08* | *1.6E+09* | *1.0E+09* | *1.3E+10* | *5.9E+08* | *1.3E+11* | | *na* | *1.8E+08* | *6.8E+09* | *1.2E+10* | *2.3E+09* | *1.7E+12* | *8.9E+08* | -- |
| *Direct Contact* | | | | *na* | *>Csat* | *>Csat* | *2.6E+07* | *4.0E+5 (C)* | *>Csat* | *>Csat* | *>Csat* | *6.4E+5 (C)* | *1.4E+5 (C)* | *8.0E+06* | *>Csat* | | *na* | *8.0E+06* | *>Csat* | *>Csat* | *>Csat* | *Csat* | 34,000 | -- |
| *Soil Saturation (Csat)* | | | | *na* | *110,000* | *94,000* | *NA* | *400,000* | *280,000* | *390,000* | *1.5E+06* | *640,000* | *140,000* | *1.0E+07* | *1.50E+05* | | *na* | *1.0E+07* | *88,000* | *250,000* | *500,000* | *560,000* | *490,000* | -- |
| **Sample Identification** | **Lab Identification** | **Sample Date** | **% Total Solids** | | | | | | | | | | | | | | | | | | | | | |
| **SS-34 2.5** | AB80583 | 8/23/2011 | 83.2 | ND | ND | ND | ND | ND | ND | **94** | **330** | ND | ND | ND | ND | ND | ND | ND | ND | **1,700** | **110** | ND | ND | ND |
| **SS-34 5.0** | AB80575 | 8/23/2011 | 87.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-34 7.5** | AB80576 | 8/23/2011 | 88.6 | ND | ND | ND | ND | ND | ND | **2,300** | **150** | ND | ND | ND | ND | ND | ND | ND | **60** | ND | **260** | ND | ND | ND |
| **SS-34 10.0** | AB80577 | 8/23/2011 | 87.4 | ND | ND | **64** | ND | ND | ND | **13.000** | **1.400** | ND | ND | ND | ND | ND | ND | ND | **300** | ND | ND | ND | ND | ND |
| **SS-34 12.5** | AB80578 | 8/23/2011 | 93.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-34 15.0** | AB80579 | 8/23/2011 | 94.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-34 17.5** | AB80580 | 8/23/2011 | 93.9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-34 20.0** | AB80581 | 8/23/2011 | 92.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-34 22.5** | AB80582 | 8/23/2011 | 85.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-37 2.5** | AB80473 | 8/22/2011 | 88.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-37 5.0** | AB80474 | 8/22/2011 | 96 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-37 7.5** | AB80475 | 8/22/2011 | 94.9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-37 10.0** | AB80476 | 8/22/2011 | 81 | ND | ND | ND | ND | ND | ND | **120** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-37 12.0** | AB80477 | 8/22/2011 | 89.6 | ND | ND | ND | ND | ND | ND | **290** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-37 15.0** | AB80478 | 8/22/2011 | 94.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-37 17.5** | AB80479 | 8/22/2011 | 91.4 | ND | ND | ND | ND | ND | ND | ND | **63** | ND | ND | ND | ND | ND | ND | ND | ND | ND | **100** | ND | ND | ND |
| **SS-37 20.0** | AB80480 | 8/22/2011 | 94 | ND | ND | ND | ND | ND | ND | ND | ND | **150** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-37 22.5** | AB80481 | 8/22/2011 | 94.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-38 3.5** | AB80482 | 8/22/2011 | 91.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-38 5.0** | AB80483 | 8/22/2011 | 93.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-38 7.5** | AB80484 | 8/22/2011 | 91.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-38 10.0** | AB80485 | 8/22/2011 | 87.7 | ND | ND | ND | ND | ND | ND | **100** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-38 12.5** | AB80486 | 8/22/2011 | 92 | ND | ND | ND | ND | ND | ND | **1,000** | **110** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-38-15.0** | AB80487 | 8/22/2011 | 93.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-38 17.5** | AB80488 | 8/22/2011 | 92.9 | ND | ND | ND | ND | ND | ND | **210** | **220** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-38 20.0** | AB80489 | 8/22/2011 | 94.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-38 22.5** | AB80490 | 8/22/2011 | 93.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-38 29** | AB80491 | 8/22/2011 | 94.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-52 5.0** | AB80592 | 8/23/2011 | 92.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-52 7.5** | AB80593 | 8/23/2011 | 82.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-52 10.0** | AB80594 | 8/23/2011 | 85.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-52 12.5** | AB80595 | 8/23/2011 | 93.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-52 15.0** | AB80596 | 8/23/2011 | 93.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-52 17.5** | AB80597 | 8/23/2011 | 87.9 | ND | ND | ND | ND | ND | ND | ND | **130** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-52 20.0** | AB80598 | 8/23/2011 | 92.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-53 2.5** | AB80492 | 8/22/2011 | 81.5 | ND | ND | ND | ND | ND | ND | **220** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-53 5.0** | AB80493 | 8/22/2011 | 90.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-53 7.5** | AB80494 | 8/22/2011 | 81.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-53 10.0** | AB80495 | 8/22/2011 | 84.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-53 12.5** | AB80496 | 8/22/2011 | 84.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-53 16.0** | AB80497 | 8/22/2011 | 79.2 | ND | ND | ND | ND | ND | ND | ND | ND | **72** | ND | ND | ND | ND | ND | ND | **110** | ND | **380** | ND | ND | ND |
| **SS-53 18.0** | AB80498 | 8/22/2011 | 89.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-53 20.0** | AB80499 | 8/22/2011 | 91.9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**FORMER ACME INDUSTRIES**
**JACKSON, MICHIGAN**
**SUMMARY OF SOIL ANALYTICAL DATA - AUGUST 2011**

| | | | | 1,2,3-Tri methyl benzene ug/kg | 1,2,4-Tri methyl benzene ug/kg | 1,3,5-Tri-methyl benzene ug/kg | 2-Methyl-naph-thalene ug/kg | Benzene ug/kg | Carbon disulfide ug/kg | Carbon tetrachloride ug/kg | Chloroform ug/kg | cis-1,2-Dichloro-ethylene ug/kg | Ethyl-benzene ug/kg | n-Propyl benzene ug/kg | m & p - Xylene ug/kg | o-Xylene ug/kg | p-Isopropyl toluene ug/kg | sec-Butyl benzene ug/kg | Tetrachloro-ethylene ug/kg | Toluene ug/kg | Trichloro-ethylene ug/kg | Trichloro-fluro-methane ug/kg | Vinyl chloride ug/kg | Other Volatiles ug/kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chemical Abstract Service Number → | | | | 526-73-8 | 95-63-6 | 108-67-8 | 91-57-6 | 71-43-2 | 75-15-0 | 56-23-5 | 67-66-3 | 156-59-2 | 100-41-4 | 103-65-1 | 108383,106423 | 95-47-6 | 99-87-6 | 135-98-8 | 127-18-4 | 108-88-3 | 79-01-6 | 75-69-4 | 75-01-4 | -- |
| ***Part 201 Non-Residential Cleanup Criteria for Soil*** | | | | | | | | | | | | | | | | | | | | | | | | |
| ***Residential Drinking Water Protection Criteria*** | | | | *na* | *2,100* | *1,800* | *57,000* | ***100*** | *16,000* | ***100*** | ***1,600*** | *1,400* | *1,500* | *1,600* | *5,600* | | *na* | *1,600* | ***100*** | *16,000* | ***100*** | *52,000* | **40** | -- |
| ***Non-residential Drinking Water Protection Criteria*** | | | | *na* | *2,100* | *1,800* | *1.70E+05* | ***100*** | *46,000* | ***100*** | ***1,600*** | *1,400* | *1,500* | *4,600* | *5,600* | | *na* | *4,600* | ***100*** | *16,000* | ***100*** | *150,000* | **40** | -- |
| ***Groundwater Surface Water Interface Protection*** | | | | *na* | ***570*** | *1,100* | *4,200* | *4,000 (X)* | *ID* | ***900 (X)*** | ***7,000*** | *12,000* | *360* | *ID* | *820* | | *na* | *ID* | ***1,200 (X)*** | *5,400* | *4,000 (X)* | *NA* | 260 (X) | -- |
| *Groundwater Contact Protection* | | | | *na* | *1.1E+5 (C)* | *>Csat* | *5.5E+06* | *220,000* | *>Csat* | *92,000* | *>Csat* | *6.4E+5 (C)* | *1.4E+5 (C)* | *300,000* | *>Csat* | | *na* | *88,000* | *>Csat* | *>Csat* | *440,000* | *Csat* | 20,000 | -- |
| ***Soil Volatilization to Indoor Air Inhalation*** | | | | *na* | *1.1E+5 (C)* | *>Csat* | *4.9E+06* | *8,400* | *140,000* | ***990*** | *38,000* | *41,000* | *1.4E+5 (C)* | *ID* | *>Csat* | | *na* | *ID* | *60,000* | *>Csat* | *37,000* | *Csat* | 2,800 | -- |
| ***Infinite Source Volatile Soil Inhalation*** | | | | *na* | *2.5E+07* | *1.9E+07* | *1.8E+06* | *45,000* | *1.6E+06* | ***12,000*** | *150,000* | *210,000* | *2.4E+06* | *ID* | *>Csat* | | *na* | *ID* | *600,000* | *3.3E+06* | *260,000* | *1.1E+08* | 29,000 | -- |
| *Finite VSIC for 5 Meter Source Thickness* | | | | *na* | *6.0E+08* | *4.6E+08* | *1.8E+06* | *99,000* | *8.0E+06* | *34,000* | *340,000* | *430,000* | *3.1E+06* | *ID* | *6.5E+07* | | *na* | *ID* | *1.4E+06* | *3.6E+07* | *440,000* | *1.4E+11* | *170,000* | -- |
| *Finite VSIC for 2 Meter Source Thickness* | | | | *na* | *6.0E+08* | *4.6E+08* | *1.8E+06* | *230,000* | *1.9E+07* | *79,000* | *790,000* | *1.0E+06* | *6.5E+06* | *ID* | *1.3E+08* | | *na* | *ID* | *3.3E+06* | *3.6E+07* | *1.1E+06* | *1.4E+11* | *420,000* | -- |
| *Particulate Soil Inhalation Criteria* | | | | *na* | *3.6E+10* | *3.6E+10* | *2.9E+08* | *4.7E+08* | *2.1E+10* | *1.7E+08* | *1.6E+09* | *1.0E+09* | *1.3E+10* | *5.9E+08* | *1.3E+11* | | *na* | *1.8E+08* | *6.8E+09* | *1.2E+10* | *2.3E+09* | *1.7E+12* | *8.9E+08* | -- |
| *Direct Contact* | | | | *na* | *>Csat* | *>Csat* | *2.6E+07* | *4.0E+5 (C)* | *>Csat* | *>Csat* | *>Csat* | *6.4E+5 (C)* | *1.4E+5 (C)* | *8.0E+06* | *>Csat* | | *na* | *8.0E+06* | *>Csat* | *>Csat* | *>Csat* | *Csat* | 34,000 | -- |
| *Soil Saturation (Csat)* | | | | *na* | *110,000* | *94,000* | *NA* | *400,000* | *280,000* | *390,000* | *1.5E+06* | *640,000* | *140,000* | *1.0E+07* | *1.50E+05* | | *na* | *1.0E+07* | *88,000* | *250,000* | *500,000* | *560,000* | *490,000* | -- |
| **Sample Identification** | **Lab Identification** | **Sample Date** | **% Total Solids** | | | | | | | | | | | | | | | | | | | | | |
| **SS-54 2.5** | AB81030 | 8/26/2011 | 88.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **100** | ND | ND |
| **SS-54 5.0** | AB81031 | 8/26/2011 | 82.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-54 7.5** | AB81032 | 8/26/2011 | 81.8 | ND | ND | ND | ND | ND | ND | **510** | **70** | ND | ND | ND | ND | ND | ND | ND | **1,800** | ND | **970** | ND | ND | ND |
| **SS-54 10.0** | AB81033 | 8/26/2011 | 83.9 | ND | ND | ND | ND | ND | ND | **420** | **74** | ND | ND | ND | ND | ND | ND | ND | **1,800** | ND | **970** | ND | ND | ND |
| **SS-54 12.0** | AB81034 | 8/26/2011 | 91.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **70** | ND | **60** | ND | ND | ND |
| **SS-54 15.0** | AB81035 | 8/26/2011 | 91.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-55 2.5** | AB81021 | 8/26/2011 | 89.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-55-5 (M-7S)** | AB81029 | 8/26/2011 | 92.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-55 5.0** | AB81022 | 8/26/2011 | 91.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-55 7.5** | AB81025 | 8/26/2011 | 92.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-55 10.0** | AB81026 | 8/26/2011 | 86.5 | ND | ND | ND | ND | ND | ND | **280** | **340** | ND | ND | ND | ND | ND | ND | ND | ND | ND | **790** | ND | ND | ND |
| **SS-55 12.5** | AB81027 | 8/26/2011 | 93.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-55 15.0** | AB81028 | 8/26/2011 | 94.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-56 2.5** | T11H306-06 | 8/25/2011 | 91 | **59** | **150** | ND | ND | ND | ND | **190** | **260** | ND | **71** | ND | **300** | **130** | ND | ND | ND | **180** | **190** | ND | ND | ND |
| **SS-56 5.0** | T11H306-07 | 8/25/2011 | 88 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-56 5.0 (M-4S)** | T11H306-21 | 8/25/2011 | 87 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-56 7.5** | T11H306-08 | 8/25/2011 | 90 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-56 10.0** | T11H306-09 | 8/25/2011 | 95 | ND | ND | ND | ND | ND | ND | ND | **240** | **150** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-56 12.5** | T11H306-10 | 8/25/2011 | 93 | ND | ND | ND | ND | ND | ND | ND | ND | **75** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **230** | ND |
| **SS-56 15.0** | T11H306-11 | 8/25/2011 | 93 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-56 17.5** | T11H306-12 | 8/25/2011 | 74 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-56 20.0** | T11H306-13 | 8/25/2011 | 93 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-57 2.5** | T11H306-14 | 8/25/2011 | 87 | ND | ND | ND | ND | ND | ND | ND | **1,600** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-57 2.5 - (M-5S)** | T11H306-22 | 8/25/2011 | 87 | ND | ND | ND | ND | ND | ND | ND | **1,000** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-57 5.0** | T11H306-15 | 8/25/2011 | 88 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-57 7.5** | T11H306-16 | 8/25/2011 | 88 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-57 10.0** | T11H306-17 | 8/25/2011 | 88 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-57 12.5** | T11H306-18 | 8/25/2011 | 92 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-57 15.0** | T11H306-19 | 8/25/2011 | 91 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-57 17.5** | T11H306-20 | 8/25/2011 | 91 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-68 2.5** | AB80973 | 8/24/2011 | 96.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-68 5.0** | AB80974 | 8/24/2011 | 93.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-68 7.5** | AB80975 | 8/24/2011 | 93.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-68 7.5 (M-2S)** | AB80983 | 8/24/2011 | 95.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **130** | ND | ND | ND |
| **SS-68 10.0** | AB80978 | 8/24/2011 | 94.2 | **560** | **1,200** | **370** | ND | **170** | **8,700** | **12,000** | **18,000** | ND | **87** | **120** | **130** | **68** | **140** | **97** | ND | **230** | ND | ND | ND | ND |
| **SS-68 10.0 (M-3S)** | AB80984 | 8/24/2011 | 93.7 | **780** | **1,600** | **510** | ND | **240** | **10,000** | **20,000** | **18,000** | ND | **120** | **180** | **190** | **100** | **200** | **160** | ND | **330** | ND | ND | ND | ND |
| **SS-68 12.5** | AB80979 | 8/24/2011 | 94.3 | ND | ND | ND | ND | ND | **110** | ND | **190** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-68 15.0** | AB80980 | 8/24/2011 | 94.2 | ND | ND | ND | **470** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-68 17.0** | AB80981 | 8/24/2011 | 91.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-68 19.5** | AB80985 | 8/24/2011 | 92.5 | ND | ND | ND | ND | ND | ND | ND | **69** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |

**FORMER ACME INDUSTRIES**
**JACKSON, MICHIGAN**
**SUMMARY OF SOIL ANALYTICAL DATA - AUGUST 2011**

| | | | | 1,2,3-Tri methyl benzene ug/kg | 1,2,4-Tri methyl benzene ug/kg | 1,3,5-Tri-methyl benzene ug/kg | 2-Methyl-naph-thalene ug/kg | Benzene ug/kg | Carbon disulfide ug/kg | Carbon tetrachloride ug/kg | Chloroform ug/kg | cis-1,2-Dichloro-ethylene ug/kg | Ethyl-benzene ug/kg | n-Propyl benzene ug/kg | m & p - Xylene ug/kg | o-Xylene ug/kg | p-Isopropyl toluene ug/kg | sec-Butyl benzene ug/kg | Tetrachloro-ethylene ug/kg | Toluene ug/kg | Trichloro-ethylene ug/kg | Trichloro-fluro-methane ug/kg | Vinyl chloride ug/kg | Other Volatiles ug/kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chemical Abstract Service Number → | | | | 526-73-8 | 95-63-6 | 108-67-8 | 91-57-6 | 71-43-2 | 75-15-0 | 56-23-5 | 67-66-3 | 156-59-2 | 100-41-4 | 103-65-1 | 108383,106423 | 95-47-6 | 99-87-6 | 135-98-8 | 127-18-4 | 108-88-3 | 79-01-6 | 75-69-4 | 75-01-4 | -- |
| ***Part 201 Non-Residential Cleanup Criteria for Soil*** | | | | | | | | | | | | | | | | | | | | | | | | |
| ***Residential Drinking Water Protection Criteria*** | | | | *na* | *2,100* | *1,800* | *57,000* | ***100*** | *16,000* | ***100*** | ***1,600*** | *1,400* | *1,500* | *1,600* | *5,600* | | *na* | *1,600* | ***100*** | *16,000* | ***100*** | *52,000* | **40** | -- |
| ***Non-residential Drinking Water Protection Criteria*** | | | | *na* | *2,100* | *1,800* | *1.70E+05* | ***100*** | *46,000* | ***100*** | ***1,600*** | *1,400* | *1,500* | *4,600* | *5,600* | | *na* | *4,600* | ***100*** | *16,000* | ***100*** | *150,000* | **40** | -- |
| ***Groundwater Surface Water Interface Protection*** | | | | *na* | ***570*** | *1,100* | *4,200* | *4,000 (X)* | *ID* | ***900 (X)*** | ***7,000*** | *12,000* | *360* | *ID* | *820* | | *na* | *ID* | ***1,200 (X)*** | *5,400* | *4,000 (X)* | *NA* | 260 (X) | -- |
| *Groundwater Contact Protection* | | | | *na* | *1.1E+5 (C)* | *>Csat* | *5.5E+06* | *220,000* | *>Csat* | *92,000* | *>Csat* | *6.4E+5 (C)* | *1.4E+5 (C)* | *300,000* | *>Csat* | | *na* | *88,000* | *>Csat* | *>Csat* | *440,000* | *Csat* | 20,000 | -- |
| ***Soil Volatilization to Indoor Air Inhalation*** | | | | *na* | *1.1E+5 (C)* | *>Csat* | *4.9E+06* | *8,400* | *140,000* | ***990*** | *38,000* | *41,000* | *1.4E+5 (C)* | *ID* | *>Csat* | | *na* | *ID* | *60,000* | *>Csat* | *37,000* | *Csat* | 2,800 | -- |
| ***Infinite Source Volatile Soil Inhalation*** | | | | *na* | *2.5E+07* | *1.9E+07* | *1.8E+06* | *45,000* | *1.6E+06* | ***12,000*** | *150,000* | *210,000* | *2.4E+06* | *ID* | *>Csat* | | *na* | *ID* | *600,000* | *3.3E+06* | *260,000* | *1.1E+08* | 29,000 | -- |
| *Finite VSIC for 5 Meter Source Thickness* | | | | *na* | *6.0E+08* | *4.6E+08* | *1.8E+06* | *99,000* | *8.0E+06* | *34,000* | *340,000* | *430,000* | *3.1E+06* | *ID* | *6.5E+07* | | *na* | *ID* | *1.4E+06* | *3.6E+07* | *440,000* | *1.4E+11* | *170,000* | -- |
| *Finite VSIC for 2 Meter Source Thickness* | | | | *na* | *6.0E+08* | *4.6E+08* | *1.8E+06* | *230,000* | *1.9E+07* | *79,000* | *790,000* | *1.0E+06* | *6.5E+06* | *ID* | *1.3E+08* | | *na* | *ID* | *3.3E+06* | *3.6E+07* | *1.1E+06* | *1.4E+11* | *420,000* | -- |
| *Particulate Soil Inhalation Criteria* | | | | *na* | *3.6E+10* | *3.6E+10* | *2.9E+08* | *4.7E+08* | *2.1E+10* | *1.7E+08* | *1.6E+09* | *1.0E+09* | *1.3E+10* | *5.9E+08* | *1.3E+11* | | *na* | *1.8E+08* | *6.8E+09* | *1.2E+10* | *2.3E+09* | *1.7E+12* | *8.9E+08* | -- |
| *Direct Contact* | | | | *na* | *>Csat* | *>Csat* | *2.6E+07* | *4.0E+5 (C)* | *>Csat* | *>Csat* | *>Csat* | *6.4E+5 (C)* | *1.4E+5 (C)* | *8.0E+06* | *>Csat* | | *na* | *8.0E+06* | *>Csat* | *>Csat* | *>Csat* | *Csat* | 34,000 | -- |
| *Soil Saturation (Csat)* | | | | *na* | *110,000* | *94,000* | *NA* | *400,000* | *280,000* | *390,000* | *1.5E+06* | *640,000* | *140,000* | *1.0E+07* | *1.50E+05* | | *na* | *1.0E+07* | *88,000* | *250,000* | *500,000* | *560,000* | *490,000* | -- |
| **Sample Identification** | **Lab Identification** | **Sample Date** | **% Total Solids** | | | | | | | | | | | | | | | | | | | | | |
| **SS-69 2.5** | AB80963 | 8/24/2011 | 91.0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **92** | ND | ND | ND |
| **SS-69 5.0** | AB80964 | 8/24/2011 | 91.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-69 7.5** | AB80967 | 8/24/2011 | 94.2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **180** | ND | ND | ND |
| **SS-69 10.0** | AB80968 | 8/24/2011 | 93.2 | ND | ND | ND | ND | ND | ND | ND | **180** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-69 12.5** | AB80969 | 8/24/2011 | 90.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-69 15.0** | AB80970 | 8/24/2011 | 94.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-69 17.0** | AB80971 | 8/24/2011 | 75.9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **SS-69 19.0** | AB80972 | 8/24/2011 | 92.6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **Trip Blank 5** | AB81017 | 8/26/2011 | -- | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **Trip Blank 1** | AB80500 | 8/22/2011 | -- | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **Trip Blank 2** | AB80574 | 8/23/2011 | -- | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| **Trip Blank 3** | AB80948 | 8/24/2011 | -- | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **72** | ND | ND | ND | ND |
| **Field Blank** | AB80599 | 8/23/2011 | -- | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Aqueous Samples * | | | -- | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l |
| Equipment Blank | AB80501 | 8/22/2011 | -- | ND | ND | ND | ND | ND | ND | ND | **2.1** | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Equipment Blank | AB80600 | 8/23/2011 | -- | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | **1.8** | ND | ND | ND | ** |
| Equipment Blank | AB80947 | 8/24/2011 | -- | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Equipment Blank | AB81005 | 8/26/2011 | -- | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Decon Water | AB81006 | 8/26/2011 | -- | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Coring Water | AB81007 | 8/26/2011 | -- | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | *** |

Notes:
1) All laboratory extractions and analyses were performed within the required period.
2) ND - Indicates not detected at at concentrations above regulatory reporting limit.
3) (na) - Indicates cleanup criteria not available for given parameter.
4) Part 201 Cleanup Criteria from MDEQ-RRD Operational Memorandum #1, March 25, 2011.
5) Results are bolded where detected, underlined where above any Cleanup Criteria.
6) (>Csat) - Indicates calculated criterion is greater than the Soil Saturation Criteria.
7) (X) - Indicates the GSI criterion is not protective for surface water used as a drinking water source.
8) (*) - Indicates that the presented cleanup criteria do not apply to aqueous samples
8) (**) Indicates 2-Butanone (MEK) @ 24 ug/l and Tetrahydrofuran @ 55 ugl also detected at concentrations below any applicable cleanup criterial.
9) (***) - Indicates Bromodichloromethane @ 3.7 ug/l, bromoform @ 2.8 ug/l and dibromochloromethane @ 5.4 ug/l also detected at concentrations below any applicable cleanup criterial.

# APPENDIX F
# LABORATORY REPORTS

© envirologic

**MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT**
**ENVIRONMENTAL LABORATORY**
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

**Division:** RD
**Report to:** JOE WALCZAK
DNRE-RD-LANSING
CONSTITUTION HALL
525 W. ALLEGAN, LANSING, MI 48909

**Total:** $3,654.00

**Lab Work Order # :** 10800233
**Work Site ID :** LB041056
**Site Name :** FORMER ACME INDUSTRIES
**Received:** 08/23/2011
**Reported:** 09/21/2011
**Collected By:** PAUL FRENCH

**Samples Received :**

| No: | Sample ID | Sample Description | Matrix: | Collection Date |
|---|---|---|---|---|
| 01 | AB80473 | SS37-2.5 | SEDIMENT | 08/22/2011 |
| 02 | AB80474 | SS37-5.0 | SEDIMENT | 08/22/2011 |
| 03 | AB80475 | SS37-7.5 | SEDIMENT | 08/22/2011 |
| 04 | AB80476 | SS37-10.0 | SEDIMENT | 08/22/2011 |
| 05 | AB80477 | SS37-12.0 | SEDIMENT | 08/22/2011 |
| 06 | AB80478 | SS37-15.0 | SEDIMENT | 08/22/2011 |
| 07 | AB80479 | SS37-17.5 | SEDIMENT | 08/22/2011 |
| 08 | AB80480 | SS37-20.0 | SEDIMENT | 08/22/2011 |
| 09 | AB80481 | SS37-22.5 | SEDIMENT | 08/22/2011 |
| 10 | AB80482 | SS38-3.5 | SEDIMENT | 08/22/2011 |
| 11 | AB80483 | SS38-5.0 | SEDIMENT | 08/22/2011 |
| 12 | AB80484 | SS38-7.5 | SEDIMENT | 08/22/2011 |
| 13 | AB80485 | SS38-10.0 | SEDIMENT | 08/22/2011 |
| 14 | AB80486 | SS38-12.5 | SEDIMENT | 08/22/2011 |
| 15 | AB80487 | SS38-15.0 | SEDIMENT | 08/22/2011 |
| 16 | AB80488 | SS38-17.5 | SEDIMENT | 08/22/2011 |
| 17 | AB80489 | SS38-20.0 | SEDIMENT | 08/22/2011 |
| 18 | AB80490 | SS38-22.5 | SEDIMENT | 08/22/2011 |
| 19 | AB80491 | SS38-29 | SEDIMENT | 08/22/2011 |
| 20 | AB80492 | SS53-2.5 | SEDIMENT | 08/22/2011 |
| 21 | AB80493 | SS53-5.0 | SEDIMENT | 08/22/2011 |
| 22 | AB80494 | SS53-7.5 | SEDIMENT | 08/22/2011 |
| 23 | AB80495 | SS53-10.0 | SEDIMENT | 08/22/2011 |
| 24 | AB80496 | SS53-12.5 | SEDIMENT | 08/22/2011 |
| 25 | AB80497 | SS53-16.0 | SEDIMENT | 08/22/2011 |
| 26 | AB80498 | SS53-18.0 | SEDIMENT | 08/22/2011 |
| 27 | AB80499 | SS53-20.0 | SEDIMENT | 08/22/2011 |
| 28 | AB80500 | TB1 | SEDIMENT | 08/22/2011 |

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Lansing, MI 48909
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FAX: (517) 335-9600

I certify that the analysis performed by the MDEQ Environmental Laboratory are accurate and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

George L. Krisztian,
Laboratory Director

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80473 SS37-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/24/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.71 | | | |
| SURROGATE | #Bromofluorobenzene# | 118 | | | |
| SURROGATE | #Dibromofluoromethane# | 114 | | | |
| SURROGATE | #Toluene-d8# | 117 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 65 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 65 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 65 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 65 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 65 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 65 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 320 | 7 | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 65 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 65 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 320 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 65 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 320 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 65 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 65 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 65 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 65 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 65 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 65 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 65 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 320 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 320 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 320 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 320 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 320 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 65 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 65 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 65 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 65 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 65 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 260 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 65 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 65 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 65 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 320 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 65 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80473 SS37-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/24/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 320 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 65 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 65 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 320 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 65 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 65 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 320 | G | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 260 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 320 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 65 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 320 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 320 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 65 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 65 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 65 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 320 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 65 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 65 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 65 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 65 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 65 | | 50 |
| 100-42-5 | Styrene | Not Detected | 65 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 65 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3200 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 320 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 65 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 320 | | 50 |
| 108-88-3 | Toluene | Not Detected | 65 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 65 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 65 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 320 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 65 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 65 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 65 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80473 SS37-2.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 88.6 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80474 SS37-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/24/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.08 | | | |
| SURROGATE | #Bromofluorobenzene# | 112 | | | |
| SURROGATE | #Dibromofluoromethane# | 114 | | | |
| SURROGATE | #Toluene-d8# | 121 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 54 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 54 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 54 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 54 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 54 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 54 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 270 | 7 | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 54 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 54 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 270 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 54 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 270 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 54 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 54 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 54 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 54 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 54 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 54 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 54 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 270 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 270 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 270 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 270 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 270 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 54 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 54 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 54 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 54 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 54 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 220 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 54 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 54 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 54 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 270 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 54 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80474 SS37-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/24/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 270 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 54 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 54 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 270 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 54 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 54 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 270 | G | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 220 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 270 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 54 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 270 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 270 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 54 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 54 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 54 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 270 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 54 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 54 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 54 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 54 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 54 | | 50 |
| 100-42-5 | Styrene | Not Detected | 54 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 54 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2700 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 270 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 54 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 270 | | 50 |
| 108-88-3 | Toluene | Not Detected | 54 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 54 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 54 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 270 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 54 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 54 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 54 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80474 SS37-5.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 96.0 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80475 SS37-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/24/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.99 | | | |
| SURROGATE | #Bromofluorobenzene# | 116 | | | |
| SURROGATE | #Dibromofluoromethane# | 117 | | | |
| SURROGATE | #Toluene-d8# | 122 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 55 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 55 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 55 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 55 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 55 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 55 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | 7 | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 55 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 55 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 55 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 55 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 55 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 55 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 55 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 55 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 55 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 55 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 55 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 55 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 55 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 55 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 55 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 220 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 55 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 55 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 55 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 55 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80475 SS37-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/24/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 55 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 55 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 55 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 55 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | G | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 220 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 55 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 55 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 55 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 55 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 55 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 55 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 55 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 55 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 55 | | 50 |
| 100-42-5 | Styrene | Not Detected | 55 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 55 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 55 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 55 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 55 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 55 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 55 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 55 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 55 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80475 SS37-7.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 94.9 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80476 SS37-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/24/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.16 | | | |
| SURROGATE | #Bromofluorobenzene# | 128 | | | |
| SURROGATE | #Dibromofluoromethane# | 135 | | | |
| SURROGATE | #Toluene-d8# | 136 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 72 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 72 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 72 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 72 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 72 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 72 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 360 | 7 | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 72 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 72 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 360 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 72 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 360 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 72 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 72 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 72 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 72 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 72 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 72 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 72 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 360 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 360 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 360 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1400 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 360 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 360 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 72 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 72 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 72 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 72 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 72 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 290 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 72 | | 50 |
| 56-23-5 | Carbon tetrachloride | 120 | 72 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 72 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 360 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 72 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80476 SS37-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/24/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 360 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 72 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 72 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 360 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 72 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 72 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 360 | G | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 290 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 360 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 72 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 360 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 360 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 72 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 140 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 72 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 140 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 72 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 360 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 72 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 72 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 72 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 72 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 72 | | 50 |
| 100-42-5 | Styrene | Not Detected | 72 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 72 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3600 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 360 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 72 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 360 | | 50 |
| 108-88-3 | Toluene | Not Detected | 72 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 72 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 72 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 360 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 72 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 72 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 72 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80476 SS37-10.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 81.0 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80477 SS37-12.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/24/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.34 | | | |
| SURROGATE | #Bromofluorobenzene# | 131 | | | |
| SURROGATE | #Dibromofluoromethane# | 134 | | | |
| SURROGATE | #Toluene-d8# | 140 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 60 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 60 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 60 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 60 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | 7 | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 60 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 60 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 60 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 60 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 60 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 60 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 60 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 60 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 60 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 60 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 60 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 60 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 60 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 60 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 60 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 60 | | 50 |
| 56-23-5 | Carbon tetrachloride | 290 | 60 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 60 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 60 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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## Sample Number: AB80477 SS37-12.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/24/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 60 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 60 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | G | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 60 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 60 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 60 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 60 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 60 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 60 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 60 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 60 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 60 | | 50 |
| 100-42-5 | Styrene | Not Detected | 60 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 60 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 60 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | Not Detected | 60 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 60 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 60 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 60 | Z | 50 |

Unidentified peaks present in sample.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80477 SS37-12.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 89.6 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80478 SS37-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/24/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.87 | | | |
| SURROGATE | #Bromofluorobenzene# | 113 | | | |
| SURROGATE | #Dibromofluoromethane# | 116 | | | |
| SURROGATE | #Toluene-d8# | 118 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 57 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 57 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 57 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 57 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | 7 | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 57 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 57 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 57 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 57 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 57 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 57 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 57 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 57 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 57 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 57 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 57 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 57 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 57 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 57 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 57 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 57 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 57 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 57 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 57 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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## Sample Number: AB80478 SS37-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/24/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 57 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 57 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | G | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 57 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 57 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 57 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 57 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 57 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 57 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 57 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 57 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 57 | | 50 |
| 100-42-5 | Styrene | Not Detected | 57 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 57 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 57 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 57 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 57 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 57 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 57 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80478 SS37-15.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 94.2 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80479 SS37-17.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/24/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.19 | | | |
| SURROGATE | #Bromofluorobenzene# | 103 | | | |
| SURROGATE | #Dibromofluoromethane# | 112 | | | |
| SURROGATE | #Toluene-d8# | 108 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 58 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 58 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 58 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 58 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | 7 | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 58 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 58 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 58 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 58 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 58 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 58 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 58 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 58 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 58 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 58 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 58 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 58 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 58 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 58 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 58 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 58 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 58 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 58 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | 63 | 58 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80479 SS37-17.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/24/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 58 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 58 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | G | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 58 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 58 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 58 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 58 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 58 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 58 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 58 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 58 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 58 | | 50 |
| 100-42-5 | Styrene | Not Detected | 58 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 58 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 58 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 58 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | Z | 50 |
| 79-01-6 | Trichloroethylene | 100 | 58 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 58 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 58 | Z | 50 |

Unidentified peaks present in sample.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80479 SS37-17.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.4 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80480 SS37-20.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.02 | | | |
| SURROGATE | #Bromofluorobenzene# | 107 | | | |
| SURROGATE | #Dibromofluoromethane# | 112 | | | |
| SURROGATE | #Toluene-d8# | 113 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 56 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 56 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 56 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 56 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 56 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 56 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | 7 | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 56 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 56 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 56 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 56 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 56 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 56 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 56 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 56 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 56 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 56 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 56 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 56 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 56 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 56 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 56 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 56 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 56 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 56 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 56 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80480 SS37-20.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | 150 | 56 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 56 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 56 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 56 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | G | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 56 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 56 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 56 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 56 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 56 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 56 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 56 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 56 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 56 | | 50 |
| 100-42-5 | Styrene | Not Detected | 56 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 56 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 56 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 56 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 56 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 56 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 56 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 56 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 56 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80480 SS37-20.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 94.0 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80481 SS37-22.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.48 | | | |
| SURROGATE | #Bromofluorobenzene# | 113 | | | |
| SURROGATE | #Dibromofluoromethane# | 114 | | | |
| SURROGATE | #Toluene-d8# | 119 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 58 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 58 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 58 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 58 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | 7 | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 58 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 58 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 58 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 58 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 58 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 58 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 58 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 58 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 58 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 58 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 58 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 58 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 58 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 58 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 58 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 58 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 58 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 58 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 58 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80481 SS37-22.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 58 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 58 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | G | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 58 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 58 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 58 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 58 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 58 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 58 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 58 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 58 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 58 | | 50 |
| 100-42-5 | Styrene | Not Detected | 58 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 58 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 58 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 58 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 58 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 58 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 58 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80481 SS37-22.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 94.8 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80482 SS38-3.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.87 | | | |
| SURROGATE | #Bromofluorobenzene# | 105 | | | |
| SURROGATE | #Dibromofluoromethane# | 105 | | | |
| SURROGATE | #Toluene-d8# | 111 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 60 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 60 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 60 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 60 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | 7 | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 60 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 60 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 60 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 60 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 60 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 60 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 60 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 60 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 60 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 60 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 60 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 60 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 60 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 60 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 60 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 60 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 60 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 60 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 60 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80482 SS38-3.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 60 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 60 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | G | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 60 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 60 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 60 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 60 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 60 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 60 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 60 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 60 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 60 | | 50 |
| 100-42-5 | Styrene | Not Detected | 60 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 60 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 60 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | Not Detected | 60 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 60 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 60 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 60 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80482 SS38-3.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.1 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80483 SS38-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.25 | | | |
| SURROGATE | #Bromofluorobenzene# | 90.0 | | | |
| SURROGATE | #Dibromofluoromethane# | 94.8 | | | |
| SURROGATE | #Toluene-d8# | 96.9 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 55 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 55 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 55 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 55 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 55 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 55 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | 7 | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 55 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 55 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 55 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 55 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 55 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 55 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 55 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 55 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 55 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 55 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 55 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 55 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 55 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 55 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 55 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 220 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 55 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 55 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 55 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 55 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80483 SS38-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 55 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 55 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 55 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 55 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | G | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 220 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 55 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 55 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 55 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 55 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 55 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 55 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 55 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 55 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 55 | | 50 |
| 100-42-5 | Styrene | Not Detected | 55 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 55 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 55 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 55 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 55 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 55 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 55 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 55 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 55 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80483 SS38-5.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.7 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80484 SS38-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.01 | | | |
| SURROGATE | #Bromofluorobenzene# | 120 | | | |
| SURROGATE | #Dibromofluoromethane# | 124 | | | |
| SURROGATE | #Toluene-d8# | 130 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 59 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 59 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 59 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 59 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 59 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 59 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | 7 | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 59 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 59 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 59 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 59 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 59 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 59 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 59 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 59 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 59 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 59 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 59 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 59 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 59 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 59 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 59 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 59 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 59 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 59 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 59 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80484 SS38-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/27/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 59 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 59 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 59 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 59 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | G | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 59 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 59 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 59 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 59 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 59 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 59 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 59 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 59 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 59 | | 50 |
| 100-42-5 | Styrene | Not Detected | 59 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 59 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 59 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 59 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 59 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 59 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 59 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 59 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 59 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80484 SS38-7.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.8 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80485 SS38-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.11 | | | |
| SURROGATE | #Bromofluorobenzene# | 141 | | | |
| SURROGATE | #Dibromofluoromethane# | 148 | | | |
| SURROGATE | #Toluene-d8# | 140 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 63 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 63 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 63 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 63 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 63 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 63 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 320 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 63 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 63 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 320 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 63 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 320 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 63 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 63 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 63 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 63 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 63 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 63 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 63 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 320 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 320 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 320 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 320 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 320 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 63 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 63 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 63 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 63 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 63 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 250 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 63 | | 50 |
| 56-23-5 | Carbon tetrachloride | 100 | 63 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 63 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 320 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 63 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80485 SS38-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 320 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 63 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 63 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 320 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 63 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 63 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 320 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 250 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 320 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 63 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 320 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 320 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 63 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 63 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 63 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 320 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 63 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 63 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 63 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 63 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 63 | | 50 |
| 100-42-5 | Styrene | Not Detected | 63 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 63 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3200 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 320 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 63 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 320 | | 50 |
| 108-88-3 | Toluene | Not Detected | 63 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 63 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 63 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 320 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 63 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 63 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 63 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80485 SS38-10.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 87.7 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80486 SS38-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.25 | | | |
| SURROGATE | #Bromofluorobenzene# | 124 | | | |
| SURROGATE | #Dibromofluoromethane# | 120 | | | |
| SURROGATE | #Toluene-d8# | 119 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 57 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 57 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 57 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 57 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 57 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 57 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 57 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 57 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 57 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 57 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 57 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 57 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 57 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 57 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 57 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 57 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 57 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 57 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 57 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 57 | | 50 |
| 56-23-5 | Carbon tetrachloride | 1000 | 57 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 57 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | 110 | 57 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80486 SS38-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 57 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 57 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 57 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 57 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 57 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 57 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 57 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 57 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 57 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 57 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 57 | | 50 |
| 100-42-5 | Styrene | Not Detected | 57 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 57 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 57 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 57 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 57 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 57 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 57 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 57 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80486 SS38-12.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 92.0 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80487 SS38-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.07 | | | |
| SURROGATE | #Bromofluorobenzene# | 140 | | | |
| SURROGATE | #Dibromofluoromethane# | 149 | | | |
| SURROGATE | #Toluene-d8# | 139 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 56 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 56 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 56 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 56 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 56 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 56 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 56 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 56 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 56 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 56 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 56 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 56 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 56 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 56 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 56 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 56 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 56 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 56 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 56 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 56 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 56 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 220 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 56 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 56 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 56 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 56 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80487 SS38-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 56 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 56 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 56 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 56 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 220 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 56 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 56 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 56 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 56 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 56 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 56 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 56 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 56 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 56 | | 50 |
| 100-42-5 | Styrene | Not Detected | 56 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 56 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 56 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 56 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 56 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 56 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 56 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 56 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 56 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80487 SS38-15.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.8 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80488 SS38-17.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.36 | | | |
| SURROGATE | #Bromofluorobenzene# | 117 | | | |
| SURROGATE | #Dibromofluoromethane# | 139 | | | |
| SURROGATE | #Toluene-d8# | 123 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 61 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 61 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 61 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 61 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 61 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 61 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 310 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 61 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 61 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 310 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 61 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 310 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 61 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 61 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 61 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 61 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 61 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 61 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 61 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 310 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 310 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 310 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 310 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 310 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 61 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 61 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 61 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 61 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 61 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 250 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 61 | | 50 |
| 56-23-5 | Carbon tetrachloride | 210 | 61 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 61 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 310 | | 50 |
| 67-66-3 | Chloroform | 220 | 61 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80488 SS38-17.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 310 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 61 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 61 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 310 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 61 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 61 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 310 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 250 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 310 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 61 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 310 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 310 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 61 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 61 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 61 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 310 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 61 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 61 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 61 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 61 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 61 | | 50 |
| 100-42-5 | Styrene | Not Detected | 61 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 61 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3100 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 310 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 61 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 310 | | 50 |
| 108-88-3 | Toluene | Not Detected | 61 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 61 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 61 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 310 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 61 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 61 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 61 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80488 SS38-17.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 92.9 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80489 SS38-20.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.66 | | | |
| SURROGATE | #Bromofluorobenzene# | 123 | | | |
| SURROGATE | #Dibromofluoromethane# | 131 | | | |
| SURROGATE | #Toluene-d8# | 120 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 58 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 58 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 58 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 58 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 58 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 58 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 58 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 58 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 58 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 58 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 58 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 58 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 58 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 58 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 58 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 58 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 58 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 58 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 58 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 58 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 58 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 58 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 58 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80489 SS38-20.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 58 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 58 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 58 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 58 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 58 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 58 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 58 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 58 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 58 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 58 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 58 | | 50 |
| 100-42-5 | Styrene | Not Detected | 58 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 58 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 58 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 58 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 58 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 58 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 58 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 58 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80489 SS38-20.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 94.2 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80490 SS38-22.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.24 | | | |
| SURROGATE | #Bromofluorobenzene# | 128 | | | |
| SURROGATE | #Dibromofluoromethane# | 132 | | | |
| SURROGATE | #Toluene-d8# | 124 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 56 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 56 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 56 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 56 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 56 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 56 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 56 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 56 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 56 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 56 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 56 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 56 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 56 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 56 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 56 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 56 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 56 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 56 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 56 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 56 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 56 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 220 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 56 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 56 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 56 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 56 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80490 SS38-22.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 56 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 56 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 56 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 56 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 220 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 56 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 56 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 56 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 56 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 56 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 56 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 56 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 56 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 56 | | 50 |
| 100-42-5 | Styrene | Not Detected | 56 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 56 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 56 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 56 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 56 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 56 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 56 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 56 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 56 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80490 SS38-22.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.2 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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TEL: (517) 335-9800
FAX: (517) 335-9600

## Sample Number: AB80491 SS38-29

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.25 | | | |
| SURROGATE | #Bromofluorobenzene# | 134 | | | |
| SURROGATE | #Dibromofluoromethane# | 143 | | | |
| SURROGATE | #Toluene-d8# | 131 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 54 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 54 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 54 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 54 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 54 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 54 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 270 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 54 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 54 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 270 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 54 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 270 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 54 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 54 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 54 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 54 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 54 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 54 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 54 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 270 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 270 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 270 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 270 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 270 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 54 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 54 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 54 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 54 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 54 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 220 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 54 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 54 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 54 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 270 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 54 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80491 SS38-29

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 270 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 54 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 54 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 270 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 54 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 54 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 270 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 220 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 270 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 54 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 270 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 270 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 54 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 54 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 54 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 270 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 54 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 54 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 54 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 54 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 54 | | 50 |
| 100-42-5 | Styrene | Not Detected | 54 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 54 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2700 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 270 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 54 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 270 | | 50 |
| 108-88-3 | Toluene | Not Detected | 54 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 54 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 54 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 270 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 54 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 54 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 54 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80491 SS38-29

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 94.6 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80492 SS53-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.35 | | | |
| SURROGATE | #Bromofluorobenzene# | 124 | | | |
| SURROGATE | #Dibromofluoromethane# | 132 | | | |
| SURROGATE | #Toluene-d8# | 123 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 71 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 71 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 71 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 71 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 71 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 71 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 350 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 71 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 71 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 350 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 71 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 350 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 71 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 71 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 71 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 71 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 71 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 71 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 71 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 350 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 350 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 350 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1400 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 350 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 350 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 71 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 71 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 71 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 71 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 71 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 280 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 71 | | 50 |
| 56-23-5 | Carbon tetrachloride | 220 | 71 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 71 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 350 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 71 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80492 SS53-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 350 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 71 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 71 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 350 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 71 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 71 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 350 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 280 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 350 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 71 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 350 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 350 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 71 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 140 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 71 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 140 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 71 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 350 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 71 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 71 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 71 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 71 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 71 | | 50 |
| 100-42-5 | Styrene | Not Detected | 71 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 71 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3500 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 350 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 71 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 350 | | 50 |
| 108-88-3 | Toluene | Not Detected | 71 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 71 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 71 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 350 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 71 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 71 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 71 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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## Sample Number: AB80492 SS53-2.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 81.5 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80493 SS53-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.65 | | | |
| SURROGATE | #Bromofluorobenzene# | 118 | | | |
| SURROGATE | #Dibromofluoromethane# | 124 | | | |
| SURROGATE | #Toluene-d8# | 116 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 62 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 62 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 62 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 62 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 62 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 62 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 310 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 62 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 62 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 310 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 62 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 310 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 62 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 62 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 62 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 62 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 62 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 62 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 62 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 310 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 310 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 310 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 310 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 310 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 62 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 62 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 62 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 62 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 62 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 250 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 62 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 62 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 62 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 310 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 62 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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## Sample Number: AB80493 SS53-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 310 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 62 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 62 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 310 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 62 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 62 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 310 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 250 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 310 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 62 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 310 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 310 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 62 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 62 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 62 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 310 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 62 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 62 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 62 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 62 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 62 | | 50 |
| 100-42-5 | Styrene | Not Detected | 62 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 62 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3100 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 310 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 62 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 310 | | 50 |
| 108-88-3 | Toluene | Not Detected | 62 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 62 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 62 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 310 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 62 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 62 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 62 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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TEL: (517) 335-9800
FAX: (517) 335-9600

## Sample Number: AB80493 SS53-5.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 90.6 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80494 SS53-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.24 | | | |
| SURROGATE | #Bromofluorobenzene# | 143 | | | |
| SURROGATE | #Dibromofluoromethane# | 149 | | | |
| SURROGATE | #Toluene-d8# | 138 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 71 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 71 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 71 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 71 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 71 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 71 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 360 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 71 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 71 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 360 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 71 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 360 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 71 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 71 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 71 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 71 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 71 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 71 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 71 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 360 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 360 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 360 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1400 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 360 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 360 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 71 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 71 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 71 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 71 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 71 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 290 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 71 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 71 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 71 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 360 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 71 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80494 SS53-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 360 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 71 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 71 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 360 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 71 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 71 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 360 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 290 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 360 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 71 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 360 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 360 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 71 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 140 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 71 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 140 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 71 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 360 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 71 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 71 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 71 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 71 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 71 | | 50 |
| 100-42-5 | Styrene | Not Detected | 71 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 71 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3600 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 360 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 71 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 360 | | 50 |
| 108-88-3 | Toluene | Not Detected | 71 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 71 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 71 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 360 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 71 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 71 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 71 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80494 SS53-7.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 81.5 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80495 SS53-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.79 | | | |
| SURROGATE | #Bromofluorobenzene# | 141 | | | |
| SURROGATE | #Dibromofluoromethane# | 147 | | | |
| SURROGATE | #Toluene-d8# | 136 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 69 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 69 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 69 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 69 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 69 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 69 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 350 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 69 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 69 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 350 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 69 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 350 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 69 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 69 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 69 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 69 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 69 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 69 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 69 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 350 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 350 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 350 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1400 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 350 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 350 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 69 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 69 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 69 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 69 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 69 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 280 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 69 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 69 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 69 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 350 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 69 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80495 SS53-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 350 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 69 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 69 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 350 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 69 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 69 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 350 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 280 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 350 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 69 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 350 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 350 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 69 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 140 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 69 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 140 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 69 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 350 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 69 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 69 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 69 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 69 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 69 | | 50 |
| 100-42-5 | Styrene | Not Detected | 69 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 69 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3500 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 350 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 69 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 350 | | 50 |
| 108-88-3 | Toluene | Not Detected | 69 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 69 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 69 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 350 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 69 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 69 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 69 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80495 SS53-10.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 84.6 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80496 SS53-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.69 | | | |
| SURROGATE | #Bromofluorobenzene# | 135 | | | |
| SURROGATE | #Dibromofluoromethane# | 144 | | | |
| SURROGATE | #Toluene-d8# | 132 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 71 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 71 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 71 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 71 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 71 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 71 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 350 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 71 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 71 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 350 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 71 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 350 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 71 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 71 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 71 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 71 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 71 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 71 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 71 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 350 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 350 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 350 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1400 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 350 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 350 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 71 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 71 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 71 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 71 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 71 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 280 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 71 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 71 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 71 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 350 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 71 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80496 SS53-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 350 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 71 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 71 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 350 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 71 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 71 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 350 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 280 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 350 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 71 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 350 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 350 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 71 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 140 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 71 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 140 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 71 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 350 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 71 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 71 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 71 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 71 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 71 | | 50 |
| 100-42-5 | Styrene | Not Detected | 71 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 71 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3500 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 350 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 71 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 350 | | 50 |
| 108-88-3 | Toluene | Not Detected | 71 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 71 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 71 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 350 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 71 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 71 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 71 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80496 SS53-12.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 84.3 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80497 SS53-16.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.15 | | | |
| SURROGATE | #Bromofluorobenzene# | 109 | | | |
| SURROGATE | #Dibromofluoromethane# | 121 | | | |
| SURROGATE | #Toluene-d8# | 108 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 75 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 75 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 75 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 75 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 75 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 75 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 380 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 75 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 75 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 380 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 75 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 380 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 75 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 75 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 75 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 75 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 75 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 75 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 75 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 380 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 380 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 380 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1500 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 380 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 380 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 75 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 75 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 75 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 75 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 75 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 300 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 75 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 75 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 75 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 380 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 75 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80497 SS53-16.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 380 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | 72 | 75 | T | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 75 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 380 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 75 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 75 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 380 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 300 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 380 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 75 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 380 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 380 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 75 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 150 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 75 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 150 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 75 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 380 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 75 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 75 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 75 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 75 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 75 | | 50 |
| 100-42-5 | Styrene | Not Detected | 75 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 75 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3800 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 380 | G | 50 |
| 127-18-4 | Tetrachloroethylene | 110 | 75 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 380 | | 50 |
| 108-88-3 | Toluene | Not Detected | 75 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 75 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 75 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 380 | GZ | 50 |
| 79-01-6 | Trichloroethylene | 380 | 75 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 75 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 75 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80497 SS53-16.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 79.2 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80498 SS53-18.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.64 | | | |
| SURROGATE | #Bromofluorobenzene# | 113 | | | |
| SURROGATE | #Dibromofluoromethane# | 127 | | | |
| SURROGATE | #Toluene-d8# | 114 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 64 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 64 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 64 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 64 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 64 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 64 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 320 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 64 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 64 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 320 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 64 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 320 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 64 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 64 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 64 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 64 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 64 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 64 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 64 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 320 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 320 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 320 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 320 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 320 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 64 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 64 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 64 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 64 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 64 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 260 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 64 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 64 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 64 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 320 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 64 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80498 SS53-18.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 320 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 64 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 64 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 320 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 64 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 64 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 320 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 260 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 320 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 64 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 320 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 320 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 64 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 64 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 64 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 320 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 64 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 64 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 64 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 64 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 64 | | 50 |
| 100-42-5 | Styrene | Not Detected | 64 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 64 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3200 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 320 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 64 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 320 | | 50 |
| 108-88-3 | Toluene | Not Detected | 64 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 64 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 64 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 320 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 64 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 64 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 64 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80498 SS53-18.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 89.1 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80499 SS53-20.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.12 | | | |
| SURROGATE | #Bromofluorobenzene# | 117 | | | |
| SURROGATE | #Dibromofluoromethane# | 121 | | | |
| SURROGATE | #Toluene-d8# | 115 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 58 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 58 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 58 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 58 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 58 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 58 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 58 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 58 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 58 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 58 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 58 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 58 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 58 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 58 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 58 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 58 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 58 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 58 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 58 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 58 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 58 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 58 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 58 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80499 SS53-20.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 58 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 58 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 58 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 58 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 58 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 58 | G | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 58 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 58 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 58 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 58 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 58 | | 50 |
| 100-42-5 | Styrene | Not Detected | 58 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 58 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | G | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 58 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 58 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 58 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 58 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 58 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 58 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80499 SS53-20.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.9 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80500 TB1

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.00 | | | |
| SURROGATE | #Bromofluorobenzene# | 111 | | | |
| SURROGATE | #Dibromofluoromethane# | 115 | | | |
| SURROGATE | #Toluene-d8# | 110 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 50 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 50 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 50 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 50 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 50 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 50 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 250 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 50 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 50 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 250 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 50 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 250 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 50 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 50 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 50 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 50 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 50 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 50 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 50 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 250 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 250 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 250 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1000 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 250 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 250 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 50 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 50 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 50 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 50 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 50 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 200 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 50 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 50 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 50 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 250 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 50 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80500 TB1

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/29/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/25/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 250 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 50 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 50 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 250 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 50 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 50 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 250 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 200 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 250 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 50 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 250 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 250 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 50 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 100 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 50 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 100 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 50 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 250 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 50 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 50 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 50 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 50 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 50 | | 50 |
| 100-42-5 | Styrene | Not Detected | 50 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 50 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2500 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 250 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 50 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 250 | | 50 |
| 108-88-3 | Toluene | Not Detected | 50 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 50 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 50 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 250 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 50 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 50 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 50 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
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ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80500 TB1

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 100 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

| Qualifier Code | Qualifier Description |
|---|---|
| 1 | Result(s) and RL(s) are estimated due to low surrogate recovery. |
| 2 | Result is estimated due to high surrogate recovery. |
| 3 | Result(s) and RL(s) are estimated due to low matrix spike recovery. |
| 4 | Result is estimated due to high matrix spike recovery. |
| 5 | Result and RL are estimated due to low continuing calibration standard criteria failure. |
| 6 | Result is estimated due to high continuing calibration standard criteria failure. |
| 7 | Result(s) and RL(s) are estimated due to poor precision. |
| 8 | Result(s) and RL(s) are estimated due to low recovery of batch QC. |
| 9 | Result outside QC acceptance criteria. |
| A | Value reported is the mean of two or more determinations. |
| C | Value calculated from other independent parameters. |
| D | Analyte value quantified from a dilution(s); reporting limit (RL) raised. |
| E | Result is estimated due to high recovery of batch QC. |
| F | Amenable cyanide was not analyzed due to low level of total cyanide. |
| G | Result and RL are estimated due to initial calibration standard criteria failure. |
| H | Recommended laboratory holding time was exceeded. |
| I | Dilution required due to matrix interference; reporting limit (RL) raised. |
| J | Analyte was positively identified. Value is an estimate. |
| JA | Result is estimated due to multiple Aroclors present. |
| JC | Result is estimated since confirmation analysis did not meet acceptance criteria |
| JD | Due to severe degradation, specific Aroclor identification is difficult and quantitation is estimated. |
| K | RL(s) raised due to matrix interferences. |
| KR | RL(s) raised due to low sample volume submitted. |
| KS | RL(s) raised due to low total solids. |
| KW | RL(s) raised due to light sample weight. |
| LB | Reported library search compounds are tentative identifications with estimated concentrations. |
| M | The level of the method preparation blank (MPB) is reported in the qualifier column. |
| N | Non-homogeneous sample made analysis of sample questionable. |
| O | Result and RL estimated due to analysis from an open vial. |
| P | Recommended sample collection/preservation technique not used; reported result(s) is an estimate. |
| PI | Possible interference may have affected the accuracy of the laboratory result |
| Q | Quantity of sample insufficient to perform analyses requested. |
| R | Result confirmed by re-extraction and analysis. |
| S | Supernatant analyzed. |
| T | Reported value is less than the reporting limit (RL). Result is estimated. |
| V | Value not available due to dilution. |
| W | Reported value is less than the method detection limit (MDL). |
| X | Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200°C. 2-Methylnaphthalene & naphthalene have boiling points above 200°C and are better suited to analysis by methods 8270 or 625 as semivolatile organics. |
| Z | Result reported below the RL to meet the TDL in RRD Op Memo 2 (10/22/04) multiplied by applicable dilution factor. |

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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**Division:** RD
**Report to:** JOE WALCZAK
DNRE-RD-LANSING
CONSTITUTION HALL
525 W. ALLEGAN, LANSING, MI 48909

**Total:** $115.00

**Lab Work Order # :** 10800234
**Work Site ID :** LB041056
**Site Name :** FORMER ACME INDUSTRIES
**Received:** 08/23/2011
**Reported:** 09/21/2011
**Collected By:** JOE WALCZAK

**Samples Received :**

| No: | Sample ID | Sample Description | Matrix: | Collection Date |
|---|---|---|---|---|
| 01 | AB80501 | Equip. Blank | WATER | 08/22/2011 |

I certify that the analysis performed by the MDEQ Environmental Laboratory are accurate and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

George L. Krisztian,
Laboratory Director

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## Sample Number: AB80501 Equip. Blank

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/25/2011 **Analyst:** KCL

| CAS # | Compound | Result ug/L | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| SURROGATE | #Bromofluorobenzene# | 107 | | | |
| SURROGATE | #Dibromofluoromethane# | 98.5 | | | |
| SURROGATE | #Toluene-d8# | 92.9 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 1.0 | | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 1.0 | | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 1.0 | | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 1.0 | | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 1.0 | | 1.0 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 5.0 | | 1.0 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 1.0 | | 1.0 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 5.0 | | 1.0 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 5.0 | | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 1.0 | | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 1.0 | | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 1.0 | | 1.0 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 5.0 | | 1.0 |
| 591-78-6 | 2-Hexanone | Not Detected | 5.0 | | 1.0 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 5.0 | X | 1.0 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 20 | | 1.0 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 5.0 | | 1.0 |
| 107-13-1 | Acrylonitrile | Not Detected | 5.0 | Z | 1.0 |
| 71-43-2 | Benzene | Not Detected | 1.0 | | 1.0 |
| 108-86-1 | Bromobenzene | Not Detected | 1.0 | | 1.0 |
| 74-97-5 | Bromochloromethane | Not Detected | 1.0 | | 1.0 |
| 75-27-4 | Bromodichloromethane | Not Detected | 1.0 | | 1.0 |
| 75-25-2 | Bromoform | Not Detected | 1.0 | | 1.0 |
| 74-83-9 | Bromomethane | Not Detected | 5.0 | | 1.0 |
| 75-15-0 | Carbon disulfide | Not Detected | 1.0 | | 1.0 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 1.0 | | 1.0 |
| 108-90-7 | Chlorobenzene | Not Detected | 1.0 | | 1.0 |
| 75-00-3 | Chloroethane | Not Detected | 5.0 | | 1.0 |
| 67-66-3 | Chloroform | 2.1 | 1.0 | | 1.0 |
| 74-87-3 | Chloromethane | Not Detected | 5.0 | | 1.0 |

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80501 Equip. Blank

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/25/2011 **Analyst:** KCL

| CAS # | Compound | Result ug/L | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 1.0 | | 1.0 |
| 110-82-7 | Cyclohexane | Not Detected | 5.0 | | 1.0 |
| 124-48-1 | Dibromochloromethane | Not Detected | 1.0 | | 1.0 |
| 74-95-3 | Dibromomethane | Not Detected | 1.0 | | 1.0 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 5.0 | | 1.0 |
| 60-29-7 | Diethyl ether | Not Detected | 5.0 | | 1.0 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 5.0 | | 1.0 |
| 100-41-4 | Ethylbenzene | Not Detected | 1.0 | | 1.0 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 5.0 | | 1.0 |
| 67-72-1 | Hexachloroethane | Not Detected | 5.0 | | 1.0 |
| 98-82-8 | Isopropylbenzene | Not Detected | 1.0 | | 1.0 |
| 108383,106423 | m & p - Xylene | Not Detected | 2.0 | | 1.0 |
| 74-88-4 | Methyl iodide | Not Detected | 1.0 | | 1.0 |
| 75-09-2 | Methylene chloride | Not Detected | 5.0 | | 1.0 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 1.0 | | 1.0 |
| 91-20-3 | Naphthalene | Not Detected | 5.0 | X | 1.0 |
| 104-51-8 | n-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 103-65-1 | n-Propylbenzene | Not Detected | 1.0 | | 1.0 |
| 95-47-6 | o-Xylene | Not Detected | 1.0 | | 1.0 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 1.0 | | 1.0 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 100-42-5 | Styrene | Not Detected | 1.0 | | 1.0 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 50 | | 1.0 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 5.0 | | 1.0 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 1.0 | | 1.0 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 5.0 | | 1.0 |
| 108-88-3 | Toluene | Not Detected | 1.0 | | 1.0 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 1.0 | | 1.0 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 5.0 | Z | 1.0 |
| 79-01-6 | Trichloroethylene | Not Detected | 1.0 | | 1.0 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 1.0 | | 1.0 |
| 75-01-4 | Vinyl chloride | Not Detected | 1.0 | | 1.0 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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| Qualifier Code | Qualifier Description |
|---|---|
| 1 | Result(s) and RL(s) are estimated due to low surrogate recovery. |
| 2 | Result is estimated due to high surrogate recovery. |
| 3 | Result(s) and RL(s) are estimated due to low matrix spike recovery. |
| 4 | Result is estimated due to high matrix spike recovery. |
| 5 | Result and RL are estimated due to low continuing calibration standard criteria failure. |
| 6 | Result is estimated due to high continuing calibration standard criteria failure. |
| 7 | Result(s) and RL(s) are estimated due to poor precision. |
| 8 | Result(s) and RL(s) are estimated due to low recovery of batch QC. |
| 9 | Result outside QC acceptance criteria. |
| A | Value reported is the mean of two or more determinations. |
| C | Value calculated from other independent parameters. |
| D | Analyte value quantified from a dilution(s); reporting limit (RL) raised. |
| E | Result is estimated due to high recovery of batch QC. |
| F | Amenable cyanide was not analyzed due to low level of total cyanide. |
| G | Result and RL are estimated due to initial calibration standard criteria failure. |
| H | Recommended laboratory holding time was exceeded. |
| I | Dilution required due to matrix interference; reporting limit (RL) raised. |
| J | Analyte was positively identified. Value is an estimate. |
| JA | Result is estimated due to multiple Aroclors present. |
| JC | Result is estimated since confirmation analysis did not meet acceptance criteria |
| JD | Due to severe degradation, specific Aroclor identification is difficult and quantitation is estimated. |
| K | RL(s) raised due to matrix interferences. |
| KR | RL(s) raised due to low sample volume submitted. |
| KS | RL(s) raised due to low total solids. |
| KW | RL(s) raised due to light sample weight. |
| LB | Reported library search compounds are tentative identifications with estimated concentrations. |
| M | The level of the method preparation blank (MPB) is reported in the qualifier column. |
| N | Non-homogeneous sample made analysis of sample questionable. |
| O | Result and RL estimated due to analysis from an open vial. |
| P | Recommended sample collection/preservation technique not used; reported result(s) is an estimate. |
| PI | Possible interference may have affected the accuracy of the laboratory result |
| Q | Quantity of sample insufficient to perform analyses requested. |
| R | Result confirmed by re-extraction and analysis. |
| S | Supernatant analyzed. |
| T | Reported value is less than the reporting limit (RL). Result is estimated. |
| V | Value not available due to dilution. |
| W | Reported value is less than the method detection limit (MDL). |
| X | Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200°C. 2-Methylnaphthalene & naphthalene have boiling points above 200°C and are better suited to analysis by methods 8270 or 625 as semivolatile organics. |
| Z | Result reported below the RL to meet the TDL in RRD Op Memo 2 (10/22/04) multiplied by applicable dilution factor. |

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Systems Mgmt Unit: George Krisztian

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FAX: (517) 335-9600

**Division:** RD
**Report to:** JOE WALCZAK
DNRE-RD-LANSING
CONSTITUTION HALL
525 W. ALLEGAN, LANSING, MI 48909

**Total:** $3,393.00

**Lab Work Order # :** 10800246
**Work Site ID :** LB041056
**Site Name :** FORMER ACME INDUSTRIES
**Received:** 08/24/2011
**Reported:** 09/26/2011
**Collected By:** PAUL FRENCH

**Samples Received :**

| No: | Sample ID | Sample Description | Matrix: | Collection Date |
|---|---|---|---|---|
| 01 | AB80574 | TB2 | SEDIMENT | 08/23/2011 |
| 02 | AB80575 | SS34-5.0 | SEDIMENT | 08/23/2011 |
| 03 | AB80576 | SS34-7.5 | SEDIMENT | 08/23/2011 |
| 04 | AB80577 | SS34-10.0 | SEDIMENT | 08/23/2011 |
| 05 | AB80578 | SS34-12.5 | SEDIMENT | 08/23/2011 |
| 06 | AB80579 | SS34-15.0 | SEDIMENT | 08/23/2011 |
| 07 | AB80580 | SS34-17.5 | SEDIMENT | 08/23/2011 |
| 08 | AB80581 | SS34-20.0 | SEDIMENT | 08/23/2011 |
| 09 | AB80582 | SS34-22.5 | SEDIMENT | 08/23/2011 |
| 10 | AB80583 | SS34-2.5 | SEDIMENT | 08/23/2011 |
| 11 | AB80584 | SS33-2.5 | SEDIMENT | 08/23/2011 |
| 12 | AB80585 | SS33-5.0 | SEDIMENT | 08/23/2011 |
| 13 | AB80586 | SS33-7.5 | SEDIMENT | 08/23/2011 |
| 14 | AB80587 | SS33-10.0 | SEDIMENT | 08/23/2011 |
| 15 | AB80588 | SS33-12.5 | SEDIMENT | 08/23/2011 |
| 16 | AB80589 | SS33-16.0 | SEDIMENT | 08/23/2011 |
| 17 | AB80590 | SS33-18.0 | SEDIMENT | 08/23/2011 |
| 18 | AB80591 | SS33-20.0 | SEDIMENT | 08/23/2011 |
| 19 | AB80592 | SS52-5.0 | SEDIMENT | 08/23/2011 |
| 20 | AB80593 | SS52-7.5 | SEDIMENT | 08/23/2011 |
| 21 | AB80594 | SS52-10.0 | SEDIMENT | 08/23/2011 |
| 22 | AB80595 | SS52-12.5 | SEDIMENT | 08/23/2011 |
| 23 | AB80596 | SS52-15.0 | SEDIMENT | 08/23/2011 |
| 24 | AB80597 | SS52-17.5 | SEDIMENT | 08/23/2011 |
| 25 | AB80598 | SS52-20.0 | SEDIMENT | 08/23/2011 |
| 26 | AB80599 | Field Blank | SEDIMENT | 08/23/2011 |

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I certify that the analysis performed by the MDEQ Environmental Laboratory are accurate and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

George L. Krisztian,
Laboratory Director

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80574 TB2

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.00 | | | |
| SURROGATE | #Bromofluorobenzene# | 111 | | | |
| SURROGATE | #Dibromofluoromethane# | 102 | | | |
| SURROGATE | #Toluene-d8# | 105 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 50 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 50 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 50 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 50 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 50 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 50 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 250 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 50 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 50 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 250 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 50 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 250 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 50 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 50 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 50 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 50 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 50 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 50 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 50 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 250 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 250 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 250 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1000 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 250 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 250 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 50 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 50 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 50 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 50 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 50 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 200 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 50 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 50 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 50 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 250 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 50 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80574 TB2

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 250 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 50 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 50 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 250 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 50 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 50 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 250 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 200 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 250 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 50 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 250 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 250 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 50 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 100 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 50 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 100 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 50 | G | 50 |
| 91-20-3 | Naphthalene | Not Detected | 250 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 50 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 50 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 50 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 50 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 50 | | 50 |
| 100-42-5 | Styrene | Not Detected | 50 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 50 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2500 | G | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 250 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 50 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 250 | | 50 |
| 108-88-3 | Toluene | Not Detected | 50 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 50 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 50 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 250 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 50 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 50 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 50 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80574 TB2

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 100 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
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## Sample Number: AB80575 SS34-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.68 | | | |
| SURROGATE | #Bromofluorobenzene# | 131 | | | |
| SURROGATE | #Dibromofluoromethane# | 141 | | | |
| SURROGATE | #Toluene-d8# | 131 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 66 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 66 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 66 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 66 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 66 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 66 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 330 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 66 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 66 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 330 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 66 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 330 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 66 | GZ | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 66 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 66 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 66 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 66 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 66 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 66 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 330 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 330 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 330 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 330 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 330 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 66 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 66 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 66 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 66 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 66 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 270 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 66 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 66 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 66 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 330 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 66 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80575 SS34-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 330 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 66 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 66 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 330 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 66 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 66 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 330 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 270 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 330 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 66 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 330 | G | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 330 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 66 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 66 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 66 | G | 50 |
| 91-20-3 | Naphthalene | Not Detected | 330 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 66 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 66 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 66 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 66 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 66 | | 50 |
| 100-42-5 | Styrene | Not Detected | 66 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 66 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3300 | G | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 330 | G | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 66 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 330 | | 50 |
| 108-88-3 | Toluene | Not Detected | 66 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 66 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 66 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 330 | GZ | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 66 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 66 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 66 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80575 SS34-5.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 87.3 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80576 SS34-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.45 | | | |
| SURROGATE | #Bromofluorobenzene# | 119 | | | |
| SURROGATE | #Dibromofluoromethane# | 147 | | | |
| SURROGATE | #Toluene-d8# | 138 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 60 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 60 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 60 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 60 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 60 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 60 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 60 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 60 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 60 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 60 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 60 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 60 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 60 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 60 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 60 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 60 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 60 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 60 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 60 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 60 | | 50 |
| 56-23-5 | Carbon tetrachloride | 2300 | 60 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 60 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | 150 | 60 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80576 SS34-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 60 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 60 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 60 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 60 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 60 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 60 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 60 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 60 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 60 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 60 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 60 | | 50 |
| 100-42-5 | Styrene | Not Detected | 60 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 60 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | 60 | 60 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | Not Detected | 60 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | 260 | 60 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 60 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 60 | Z | 50 |

Unidentified peaks present in sample.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80576 SS34-7.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 88.6 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80577 SS34-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.13 | | | |
| SURROGATE | #Bromofluorobenzene# | 126 | | | |
| SURROGATE | #Dibromofluoromethane# | 147 | | | |
| SURROGATE | #Toluene-d8# | 142 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 64 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 64 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 64 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 64 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 64 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 64 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 320 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 64 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 64 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 320 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 64 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 320 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 64 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 64 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 64 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 64 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 64 | 64 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 64 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 64 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 320 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 320 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 320 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 320 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 320 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 64 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 64 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 64 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 64 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 64 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 250 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 64 | | 50 |
| 56-23-5 | Carbon tetrachloride | 13000 | 250 | | 200 |
| 108-90-7 | Chlorobenzene | Not Detected | 64 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 320 | | 50 |
| 67-66-3 | Chloroform | 1400 | 64 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80577 SS34-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 320 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 64 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 64 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 320 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 64 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 64 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 320 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 250 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 320 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 64 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 320 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 320 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 64 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 64 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 64 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 320 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 64 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 64 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 64 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 64 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 64 | | 50 |
| 100-42-5 | Styrene | Not Detected | 64 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 64 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3200 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 320 | | 50 |
| 127-18-4 | Tetrachloroethylene | 300 | 64 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 320 | | 50 |
| 108-88-3 | Toluene | Not Detected | 64 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 64 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 64 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 320 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 64 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 64 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 64 | Z | 50 |

Unidentified peaks present in sample.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80577 SS34-10.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 87.4 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80578 SS34-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.96 | | | |
| SURROGATE | #Bromofluorobenzene# | 117 | | | |
| SURROGATE | #Dibromofluoromethane# | 127 | | | |
| SURROGATE | #Toluene-d8# | 127 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 57 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 57 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 57 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 57 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 57 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 57 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 57 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 57 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 57 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 57 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 57 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 57 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 57 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 57 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 57 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 57 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 57 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 57 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 57 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 57 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 57 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 57 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 57 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80578 SS34-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 57 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 57 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 57 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 57 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 57 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 57 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 57 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 57 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 57 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 57 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 57 | | 50 |
| 100-42-5 | Styrene | Not Detected | 57 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 57 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 57 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 57 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 57 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 57 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 57 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80578 SS34-12.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.3 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80579 SS34-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.04 | | | |
| SURROGATE | #Bromofluorobenzene# | 122 | | | |
| SURROGATE | #Dibromofluoromethane# | 131 | | | |
| SURROGATE | #Toluene-d8# | 125 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 56 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 56 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 56 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 56 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 56 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 56 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 56 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 56 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 56 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 56 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 56 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 56 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 56 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 56 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 56 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 56 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 56 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 56 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 56 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 56 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 56 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 220 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 56 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 56 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 56 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 56 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80579 SS34-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 56 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 56 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 56 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 56 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 220 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 56 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 56 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 56 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 56 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 56 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 56 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 56 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 56 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 56 | | 50 |
| 100-42-5 | Styrene | Not Detected | 56 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 56 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 56 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 56 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 56 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 56 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 56 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 56 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 56 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80579 SS34-15.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 94.0 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80580 SS34-17.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.99 | | | |
| SURROGATE | #Bromofluorobenzene# | 100 | | | |
| SURROGATE | #Dibromofluoromethane# | 108 | | | |
| SURROGATE | #Toluene-d8# | 105 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 57 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 57 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 57 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 57 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 57 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 57 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 57 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 57 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 57 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 57 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 57 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 57 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 57 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 57 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 57 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 57 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 57 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 57 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 57 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 57 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 57 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 57 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 57 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80580 SS34-17.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 57 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 57 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 57 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 57 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 57 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 57 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 57 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 57 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 57 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 57 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 57 | | 50 |
| 100-42-5 | Styrene | Not Detected | 57 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 57 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 57 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 57 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 57 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 57 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 57 | Z | 50 |

Unidentified peaks present in sample.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80580 SS34-17.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.9 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80581 SS34-20.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.09 | | | |
| SURROGATE | #Bromofluorobenzene# | 115 | | | |
| SURROGATE | #Dibromofluoromethane# | 124 | | | |
| SURROGATE | #Toluene-d8# | 119 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 58 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 58 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 58 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 58 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 58 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 58 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 58 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 58 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 58 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 58 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 58 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 58 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 58 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 58 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 58 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 58 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 58 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 58 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 58 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 58 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 58 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 58 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 58 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80581 SS34-20.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 58 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 58 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 58 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 58 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 58 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 58 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 58 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 58 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 58 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 58 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 58 | | 50 |
| 100-42-5 | Styrene | Not Detected | 58 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 58 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 58 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 58 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 58 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 58 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 58 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80581 SS34-20.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 92.6 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80582 SS34-22.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.96 | | | |
| SURROGATE | #Bromofluorobenzene# | 111 | | | |
| SURROGATE | #Dibromofluoromethane# | 119 | | | |
| SURROGATE | #Toluene-d8# | 118 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 67 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 67 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 67 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 67 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 67 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 67 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 340 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 67 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 67 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 340 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 67 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 340 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 67 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 67 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 67 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 67 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 67 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 67 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 67 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 340 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 340 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 340 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 340 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 340 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 67 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 67 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 67 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 67 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 67 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 270 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 67 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 67 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 67 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 340 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 67 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80582 SS34-22.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 340 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 67 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 67 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 340 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 67 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 67 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 340 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 270 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 340 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 67 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 340 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 340 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 67 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 67 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 67 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 340 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 67 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 67 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 67 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 67 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 67 | | 50 |
| 100-42-5 | Styrene | Not Detected | 67 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 67 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3400 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 340 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 67 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 340 | | 50 |
| 108-88-3 | Toluene | Not Detected | 67 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 67 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 67 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 340 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 67 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 67 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 67 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80582 SS34-22.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 85.3 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80583 SS34-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.76 | | | |
| SURROGATE | #Bromofluorobenzene# | 113 | | | |
| SURROGATE | #Dibromofluoromethane# | 117 | | | |
| SURROGATE | #Toluene-d8# | 123 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 72 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 72 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 72 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 72 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 72 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 72 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 360 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 72 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 72 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 360 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 72 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 360 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 72 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 72 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 72 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 72 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 72 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 72 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 72 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 360 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 360 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 360 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1400 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 360 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 360 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 72 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 72 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 72 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 72 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 72 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 290 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 72 | | 50 |
| 56-23-5 | Carbon tetrachloride | 94 | 72 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 72 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 360 | | 50 |
| 67-66-3 | Chloroform | 330 | 72 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80583 SS34-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 360 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 72 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 72 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 360 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 72 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 72 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 360 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 290 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 360 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 72 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 360 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 360 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 72 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 140 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 72 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 140 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 72 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 360 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 72 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 72 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 72 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 72 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 72 | | 50 |
| 100-42-5 | Styrene | Not Detected | 72 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 72 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3600 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 360 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 72 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 360 | | 50 |
| 108-88-3 | Toluene | 1700 | 72 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 72 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 72 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 360 | Z | 50 |
| 79-01-6 | Trichloroethylene | 110 | 72 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 72 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 72 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80583 SS34-2.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 83.2 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80584 SS33-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.18 | | | |
| SURROGATE | #Bromofluorobenzene# | 105 | | | |
| SURROGATE | #Dibromofluoromethane# | 115 | | | |
| SURROGATE | #Toluene-d8# | 111 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 53 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 53 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 53 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 53 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 53 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 53 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 270 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 53 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 53 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 270 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 53 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 270 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 53 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 53 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 53 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 53 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 53 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 53 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 53 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 270 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 270 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 270 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 270 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 270 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 53 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 53 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 53 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 53 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 53 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 210 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 53 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 53 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 53 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 270 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 53 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80584 SS33-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 270 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 53 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 53 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 270 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 53 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 53 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 270 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 210 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 270 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 53 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 270 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 270 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 53 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 53 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 53 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 270 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 53 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 53 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 53 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 53 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 53 | | 50 |
| 100-42-5 | Styrene | Not Detected | 53 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 53 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2700 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 270 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 53 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 270 | | 50 |
| 108-88-3 | Toluene | Not Detected | 53 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 53 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 53 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 270 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 53 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 53 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 53 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80584 SS33-2.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 95.8 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80585 SS33-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.48 | | | |
| SURROGATE | #Bromofluorobenzene# | 124 | | | |
| SURROGATE | #Dibromofluoromethane# | 134 | | | |
| SURROGATE | #Toluene-d8# | 131 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 64 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 64 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 64 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 64 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 64 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 64 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 320 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 64 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 64 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 320 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 64 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 320 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 64 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 64 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 64 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 64 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 64 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 64 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 64 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 320 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 320 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 320 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 320 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 320 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 64 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 64 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 64 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 64 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 64 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 260 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 64 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 64 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 64 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 320 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 64 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80585 SS33-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 320 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 64 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 64 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 320 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 64 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 64 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 320 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 260 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 320 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 64 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 320 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 320 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 64 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 64 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 64 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 320 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 64 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 64 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 64 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 64 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 64 | | 50 |
| 100-42-5 | Styrene | Not Detected | 64 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 64 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3200 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 320 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 64 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 320 | | 50 |
| 108-88-3 | Toluene | Not Detected | 64 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 64 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 64 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 320 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 64 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 64 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 64 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80585 SS33-5.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 85.7 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80586 SS33-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 8.99 | | | |
| SURROGATE | #Bromofluorobenzene# | 133 | | | |
| SURROGATE | #Dibromofluoromethane# | 140 | | | |
| SURROGATE | #Toluene-d8# | 139 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 66 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 66 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 66 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 66 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 66 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 66 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 330 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 66 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 66 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 330 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 66 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 330 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 66 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 66 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 66 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 66 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 66 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 66 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 66 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 330 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 330 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 330 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 330 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 330 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 66 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 66 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 66 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 66 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 66 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 260 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 66 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 66 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 66 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 330 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 66 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80586 SS33-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 330 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 66 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 66 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 330 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 66 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 66 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 330 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 260 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 330 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 66 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 330 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 330 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 66 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 66 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 66 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 330 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 66 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 66 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 66 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 66 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 66 | | 50 |
| 100-42-5 | Styrene | Not Detected | 66 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 66 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3300 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 330 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 66 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 330 | | 50 |
| 108-88-3 | Toluene | Not Detected | 66 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 66 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 66 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 330 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 66 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 66 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 66 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80586 SS33-7.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.1 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80587 SS33-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.90 | | | |
| SURROGATE | #Bromofluorobenzene# | 112 | | | |
| SURROGATE | #Dibromofluoromethane# | 118 | | | |
| SURROGATE | #Toluene-d8# | 119 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 63 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 63 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 63 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 63 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 63 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 63 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 320 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 63 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 63 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 320 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 63 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 320 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 63 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 63 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 63 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 63 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 63 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 63 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 63 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 320 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 320 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 320 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 320 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 320 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 63 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 63 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 63 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 63 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 63 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 250 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 63 | | 50 |
| 56-23-5 | Carbon tetrachloride | 190 | 63 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 63 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 320 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 63 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80587 SS33-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/30/2011 **Analyst:** KCL
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 320 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 63 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 63 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 320 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 63 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 63 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 320 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 250 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 320 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 63 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 320 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 320 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 63 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 63 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 63 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 320 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 63 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 63 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 63 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 63 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 63 | | 50 |
| 100-42-5 | Styrene | Not Detected | 63 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 63 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3200 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 320 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 63 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 320 | | 50 |
| 108-88-3 | Toluene | Not Detected | 63 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 63 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 63 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 320 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 63 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 63 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 63 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80587 SS33-10.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 88.8 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80588 SS33-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/05/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.33 | | | |
| SURROGATE | #Bromofluorobenzene# | 87.7 | | | |
| SURROGATE | #Dibromofluoromethane# | 121 | | | |
| SURROGATE | #Toluene-d8# | 105 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 60 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 60 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 60 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 60 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 60 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 60 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 60 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 60 | 5 7Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 60 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 60 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 60 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 60 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 60 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 60 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 60 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 60 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 60 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 60 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 60 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 60 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 60 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 60 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | 160 | 60 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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## Sample Number: AB80588 SS33-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/05/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 60 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 60 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 60 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 60 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 60 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 60 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 60 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 60 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 60 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 60 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 60 | | 50 |
| 100-42-5 | Styrene | Not Detected | 60 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 60 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | 7 | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 60 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | Not Detected | 60 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | 5Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 60 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 60 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 60 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80588 SS33-12.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 89.4 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80589 SS33-16.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/05/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.18 | | | |
| SURROGATE | #Bromofluorobenzene# | 32.9 | | 9 | |
| SURROGATE | #Dibromofluoromethane# | 77.5 | | | |
| SURROGATE | #Toluene-d8# | 48.0 | | 9 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 87 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 87 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 87 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 87 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 87 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 87 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 440 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 87 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 87 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 440 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 87 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 440 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 87 | 5 7Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 87 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 87 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 87 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 87 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 87 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 87 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 440 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 440 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 440 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1700 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 440 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 440 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 87 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 87 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 87 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 87 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 87 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 350 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 87 | | 50 |
| 56-23-5 | Carbon tetrachloride | 6200 | 87 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 87 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 440 | | 50 |
| 67-66-3 | Chloroform | 1400 | 87 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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## Sample Number: AB80589 SS33-16.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/05/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 440 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 87 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 87 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 440 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 87 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 87 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 440 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 350 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 440 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 87 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 440 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 440 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 87 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 170 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 87 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 170 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 87 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 440 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 87 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 87 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 87 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 87 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 87 | | 50 |
| 100-42-5 | Styrene | Not Detected | 87 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 87 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 4400 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 440 | 7 | 50 |
| 127-18-4 | Tetrachloroethylene | 630 | 87 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 440 | | 50 |
| 108-88-3 | Toluene | Not Detected | 87 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 87 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 87 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 440 | 5Z | 50 |
| 79-01-6 | Trichloroethylene | 1000 | 87 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 87 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 87 | Z | 50 |

Result(s) and RL(s) are estimated due to low surrogate recovery.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80589 SS33-16.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 72.3 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80590 SS33-18.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/31/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.80 | | | |
| SURROGATE | #Bromofluorobenzene# | 99.7 | | | |
| SURROGATE | #Dibromofluoromethane# | 117 | | | |
| SURROGATE | #Toluene-d8# | 101 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 70 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 70 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 70 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 70 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 70 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 70 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 350 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 70 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 70 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 350 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 70 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 350 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 70 | G 3 7Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 70 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 70 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 70 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 70 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 70 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 70 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 350 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 350 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 350 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1400 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 350 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 350 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 70 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 70 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 70 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 70 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 70 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 280 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 70 | | 50 |
| 56-23-5 | Carbon tetrachloride | 100 | 70 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 70 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 350 | | 50 |
| 67-66-3 | Chloroform | 100 | 70 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80590 SS33-18.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/31/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 350 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 70 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 70 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 350 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 70 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 70 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 350 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 280 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 350 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 70 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 350 | G 5 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 350 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 70 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 140 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 70 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 140 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 70 | G 3 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 350 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 70 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 70 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 70 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 70 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 70 | | 50 |
| 100-42-5 | Styrene | Not Detected | 70 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 70 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3500 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 350 | G 7 | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 70 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 350 | | 50 |
| 108-88-3 | Toluene | Not Detected | 70 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 70 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 70 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 350 | G 3 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 70 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 70 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 70 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80590 SS33-18.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 84.3 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80591 SS33-20.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/31/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.88 | | | |
| SURROGATE | #Bromofluorobenzene# | 117 | | | |
| SURROGATE | #Dibromofluoromethane# | 110 | | | |
| SURROGATE | #Toluene-d8# | 112 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 57 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 57 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 57 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 57 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 57 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 57 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 57 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 57 | G 7Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 57 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 57 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 57 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 57 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 57 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 57 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 57 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 57 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 57 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 57 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 57 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 57 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 57 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 57 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 57 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80591 SS33-20.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/31/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 57 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 57 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 57 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | G 5 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 57 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 57 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 57 | G 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 57 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 57 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 57 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 57 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 57 | | 50 |
| 100-42-5 | Styrene | Not Detected | 57 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 57 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | G 7 | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 57 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 57 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 57 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | G 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 57 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 57 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 57 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80591 SS33-20.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 94.4 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80592 SS52-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/31/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.88 | | | |
| SURROGATE | #Bromofluorobenzene# | 112 | | | |
| SURROGATE | #Dibromofluoromethane# | 122 | | | |
| SURROGATE | #Toluene-d8# | 112 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 58 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 58 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 58 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 58 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 58 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 58 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 58 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 58 | G 7Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 58 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 58 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 58 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 58 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 58 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 58 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 58 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 58 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 58 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 58 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 58 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 58 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 58 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 58 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 58 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80592 SS52-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/31/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 58 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 58 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 58 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | G 5 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 58 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 58 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 58 | G 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 58 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 58 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 58 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 58 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 58 | | 50 |
| 100-42-5 | Styrene | Not Detected | 58 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 58 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | G 7 | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 58 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 58 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 58 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | G 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 58 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 58 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 58 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80592 SS52-5.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 92.8 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80593 SS52-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/31/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.41 | | | |
| SURROGATE | #Bromofluorobenzene# | 132 | | | |
| SURROGATE | #Dibromofluoromethane# | 142 | | | |
| SURROGATE | #Toluene-d8# | 129 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 75 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 75 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 75 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 75 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 75 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 75 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 370 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 75 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 75 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 370 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 75 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 370 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 75 | G 7Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 75 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 75 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 75 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 75 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 75 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 75 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 370 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 370 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 370 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1500 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 370 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 370 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 75 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 75 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 75 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 75 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 75 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 300 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 75 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 75 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 75 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 370 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 75 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80593 SS52-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/31/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 370 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 75 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 75 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 370 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 75 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 75 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 370 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 300 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 370 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 75 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 370 | G 5 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 370 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 75 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 150 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 75 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 150 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 75 | G 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 370 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 75 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 75 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 75 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 75 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 75 | | 50 |
| 100-42-5 | Styrene | Not Detected | 75 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 75 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3700 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 370 | G 7 | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 75 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 370 | | 50 |
| 108-88-3 | Toluene | Not Detected | 75 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 75 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 75 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 370 | G 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 75 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 75 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 75 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80593 SS52-7.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 82.7 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80594 SS52-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/31/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.01 | | | |
| SURROGATE | #Bromofluorobenzene# | 124 | | | |
| SURROGATE | #Dibromofluoromethane# | 138 | | | |
| SURROGATE | #Toluene-d8# | 124 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 67 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 67 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 67 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 67 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 67 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 67 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 340 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 67 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 67 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 340 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 67 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 340 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 67 | G 7Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 67 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 67 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 67 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 67 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 67 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 67 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 340 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 340 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 340 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 340 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 340 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 67 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 67 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 67 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 67 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 67 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 270 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 67 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 67 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 67 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 340 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 67 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80594 SS52-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/31/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 340 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 67 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 67 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 340 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 67 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 67 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 340 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 270 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 340 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 67 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 340 | G 5 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 340 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 67 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 67 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 67 | G 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 340 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 67 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 67 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 67 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 67 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 67 | | 50 |
| 100-42-5 | Styrene | Not Detected | 67 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 67 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3400 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 340 | G 7 | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 67 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 340 | | 50 |
| 108-88-3 | Toluene | Not Detected | 67 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 67 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 67 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 340 | G 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 67 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 67 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 67 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80594 SS52-10.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 85.2 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80595 SS52-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/31/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:** P

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.02 | | | |
| SURROGATE | #Bromofluorobenzene# | 108 | | | |
| SURROGATE | #Dibromofluoromethane# | 117 | | | |
| SURROGATE | #Toluene-d8# | 108 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 57 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 57 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 57 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 57 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 57 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 57 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 57 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 57 | G 7Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 57 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 57 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 57 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 57 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 57 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 57 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 57 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 57 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 57 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 57 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 57 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 57 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 57 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 57 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 57 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80595 SS52-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/31/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:** P

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 57 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 57 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 57 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | G 5 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 57 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 57 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 57 | G 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 57 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 57 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 57 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 57 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 57 | | 50 |
| 100-42-5 | Styrene | Not Detected | 57 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 57 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | G 7 | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 57 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 57 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 57 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | G 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 57 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 57 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 57 | Z | 50 |

The methanol used to preserve the sample leaked out of the vial in transit to the laboratory. 10ml of methanol was added to the sample.
All results and reporting limits are estimated.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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## Sample Number: AB80595 SS52-12.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.6 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80596 SS52-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/31/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.50 | | | |
| SURROGATE | #Bromofluorobenzene# | 114 | | | |
| SURROGATE | #Dibromofluoromethane# | 121 | | | |
| SURROGATE | #Toluene-d8# | 110 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 60 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 60 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 60 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 60 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 60 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 60 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 60 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 60 | G 7Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 60 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 60 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 60 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 60 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 60 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 60 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 60 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 60 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 60 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 60 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 60 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 60 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 60 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 60 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 60 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80596 SS52-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/31/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 60 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 60 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 60 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | G 5 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 60 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 60 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 60 | G 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 60 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 60 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 60 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 60 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 60 | | 50 |
| 100-42-5 | Styrene | Not Detected | 60 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 60 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | G 7 | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 60 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | Not Detected | 60 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 60 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | G 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 60 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 60 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 60 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80596 SS52-15.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.4 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80597 SS52-17.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.65 | | | |
| SURROGATE | #Bromofluorobenzene# | 24.1 | | 9 | |
| SURROGATE | #Dibromofluoromethane# | 62.0 | | 9 | |
| SURROGATE | #Toluene-d8# | 37.2 | | 9 | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 66 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 66 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 66 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 66 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 66 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 66 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 330 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 66 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 66 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 330 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 66 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 330 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 66 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 66 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 66 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 66 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 66 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 66 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 66 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 330 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 330 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 330 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 330 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 330 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 66 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 66 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 66 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 66 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 66 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 260 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 66 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 66 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 66 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 330 | | 50 |
| 67-66-3 | Chloroform | 130 | 66 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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## Sample Number: AB80597 SS52-17.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 330 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 66 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 66 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 330 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 66 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 66 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 330 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 260 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 330 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 66 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 330 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 330 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 66 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 66 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 66 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 330 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 66 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 66 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 66 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 66 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 66 | | 50 |
| 100-42-5 | Styrene | Not Detected | 66 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 66 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3300 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 330 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 66 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 330 | | 50 |
| 108-88-3 | Toluene | Not Detected | 66 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 66 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 66 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 330 | 5Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 66 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 66 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 66 | Z | 50 |

Result(s) and RL(s) are estimated due to low surrogate recovery.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80597 SS52-17.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 87.9 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80598 SS52-20.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.88 | | | |
| SURROGATE | #Bromofluorobenzene# | 94.2 | | | |
| SURROGATE | #Dibromofluoromethane# | 126 | | | |
| SURROGATE | #Toluene-d8# | 112 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 58 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 58 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 58 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 58 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 58 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 58 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 58 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 58 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 58 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 58 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 58 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 58 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 58 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 58 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 58 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 58 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 58 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 58 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 58 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 58 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 58 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 58 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 58 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80598 SS52-20.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 58 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 58 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 58 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 58 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 58 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 58 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 58 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 58 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 58 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 58 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 58 | | 50 |
| 100-42-5 | Styrene | Not Detected | 58 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 58 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 58 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 58 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | 5Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 58 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 58 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 58 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80598 SS52-20.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 92.8 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80599 Field Blank

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/31/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.00 | | | |
| SURROGATE | #Bromofluorobenzene# | 113 | | | |
| SURROGATE | #Dibromofluoromethane# | 116 | | | |
| SURROGATE | #Toluene-d8# | 110 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 50 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 50 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 50 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 50 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 50 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 50 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 250 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 50 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 50 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 250 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 50 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 250 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 50 | G 7Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 50 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 50 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 50 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 50 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 50 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 50 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 250 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 250 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 250 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1000 | G | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 250 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 250 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 50 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 50 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 50 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 50 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 50 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 200 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 50 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 50 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 50 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 250 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 50 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80599 Field Blank

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/31/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/26/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 250 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 50 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 50 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 250 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 50 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 50 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 250 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 200 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 250 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 50 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 250 | G 5 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 250 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 50 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 100 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 50 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 100 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 50 | G 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 250 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 50 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 50 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 50 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 50 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 50 | | 50 |
| 100-42-5 | Styrene | Not Detected | 50 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 50 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2500 | G 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 250 | G 7 | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 50 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 250 | | 50 |
| 108-88-3 | Toluene | Not Detected | 50 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 50 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 50 | G | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 250 | G 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 50 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 50 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 50 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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**ENVIRONMENTAL LABORATORY**
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**Division:** RD
**Report to:** JOE WALCZAK
DNRE-RD-LANSING
CONSTITUTION HALL
525 W. ALLEGAN, LANSING, MI 48909

**Total:** $2,610.00

**Lab Work Order # :** 10800289
**Work Site ID :** LB041056
**Site Name :** FORMER ACME INDUSTRIES
**Received:** 08/26/2011
**Reported:** 09/28/2011
**Collected By:** ROBERT WEBSTER

**Samples Received :**

| No: | Sample ID | Sample Description | Matrix: | Collection Date |
|---|---|---|---|---|
| 01 | AB80948 | TB3 | SEDIMENT | 08/24/2011 |
| 02 | AB80949 | SS4-2.5 | SEDIMENT | 08/24/2011 |
| 03 | AB80950 | SS4-5.0 | SEDIMENT | 08/24/2011 |
| 04 | AB80951 | SS4-7.5 | SEDIMENT | 08/24/2011 |
| 05 | AB80952 | SS4-10.0 | SEDIMENT | 08/24/2011 |
| 06 | AB80953 | SS4-12.5 | SEDIMENT | 08/24/2011 |
| 07 | AB80954 | SS4-15.0 | SEDIMENT | 08/24/2011 |
| 08 | AB80955 | SS4-17.5 | SEDIMENT | 08/24/2011 |
| 09 | AB80956 | SS2-2.5 | SEDIMENT | 08/24/2011 |
| 10 | AB80957 | SS2-5.0 | SEDIMENT | 08/24/2011 |
| 11 | AB80958 | SS2-7.5 | SEDIMENT | 08/24/2011 |
| 12 | AB80959 | SS2-10.0 | SEDIMENT | 08/24/2011 |
| 13 | AB80960 | SS2-12.5 | SEDIMENT | 08/24/2011 |
| 14 | AB80961 | SS2-14.5 | SEDIMENT | 08/24/2011 |
| 15 | AB80962 | SS2-17.0 | SEDIMENT | 08/24/2011 |
| 16 | AB80963 | SS69-2.5 | SEDIMENT | 08/24/2011 |
| 17 | AB80964 | SS69-5.0 | SEDIMENT | 08/24/2011 |
| 18 | AB80965 | SS69-5.0 MS | SEDIMENT | 08/24/2011 |
| 19 | AB80966 | SS69-5.0 MSD | SEDIMENT | 08/24/2011 |
| 20 | AB80967 | SS69-7.5 | SEDIMENT | 08/24/2011 |

I certify that the analysis performed by the MDEQ Environmental Laboratory are accurate and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

George L. Krisztian,
Laboratory Director

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## Sample Number: AB80948 TB3

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/05/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.00 | | | |
| SURROGATE | #Bromofluorobenzene# | 119 | | | |
| SURROGATE | #Dibromofluoromethane# | 155 | | | |
| SURROGATE | #Toluene-d8# | 138 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 50 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 50 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 50 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 50 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 50 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 50 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 250 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 50 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 50 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 250 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 50 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 250 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 50 | 5 7Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 50 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 50 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 50 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 50 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 50 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 50 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 250 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 250 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 250 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1000 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 250 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 250 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 50 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 50 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 50 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 50 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 50 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 200 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 50 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 50 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 50 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 250 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 50 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80948 TB3

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/05/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 250 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 50 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 50 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 250 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 50 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 50 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 250 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 200 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 250 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 50 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 250 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 250 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 50 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 100 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 50 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 100 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 50 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 250 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 50 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 50 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 50 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 50 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 50 | | 50 |
| 100-42-5 | Styrene | Not Detected | 50 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 50 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2500 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 250 | 7 | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 50 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 250 | | 50 |
| 108-88-3 | Toluene | 72 | 50 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 50 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 50 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 250 | 5Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 50 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 50 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 50 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80948 TB3

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 100 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80949 SS4-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.16 | | | |
| SURROGATE | #Bromofluorobenzene# | 121 | | | |
| SURROGATE | #Dibromofluoromethane# | 152 | | | |
| SURROGATE | #Toluene-d8# | 140 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 58 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 58 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 58 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 58 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 58 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 58 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 58 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 58 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 58 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 58 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 58 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 58 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 58 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 58 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 58 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 58 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 58 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 58 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 58 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 58 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 58 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 58 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 58 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80949 SS4-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 58 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 58 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 58 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 58 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 58 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 58 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 58 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 58 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 58 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 58 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 58 | | 50 |
| 100-42-5 | Styrene | Not Detected | 58 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 58 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 58 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 58 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | 5Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 58 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 58 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 58 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80949 SS4-2.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.6 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80950 SS4-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.30 | | | |
| SURROGATE | #Bromofluorobenzene# | 119 | | | |
| SURROGATE | #Dibromofluoromethane# | 148 | | | |
| SURROGATE | #Toluene-d8# | 136 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 60 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 60 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 60 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 60 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 60 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 60 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 60 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 60 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 60 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 60 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 60 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 60 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 60 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 60 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 60 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 60 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 60 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 60 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 60 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 60 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 60 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 60 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 60 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80950 SS4-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 60 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 60 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 60 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 60 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 60 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 60 | G 5 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 60 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 60 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 60 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 60 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 60 | | 50 |
| 100-42-5 | Styrene | Not Detected | 60 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 60 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 60 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | Not Detected | 60 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | 5Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 60 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 60 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 60 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80950 SS4-5.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 89.9 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80951 SS4-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.07 | | | |
| SURROGATE | #Bromofluorobenzene# | 122 | | | |
| SURROGATE | #Dibromofluoromethane# | 118 | | | |
| SURROGATE | #Toluene-d8# | 121 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 58 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 58 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 58 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 58 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 58 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 58 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 58 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | 3 7 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 58 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 58 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 58 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 58 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 58 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 58 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 58 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 58 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 58 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 58 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 58 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 58 | 5 3 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 58 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 58 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 58 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 58 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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## Sample Number: AB80951 SS4-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 58 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 58 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 58 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 58 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 58 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 58 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 58 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 58 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 58 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 58 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 58 | | 50 |
| 100-42-5 | Styrene | Not Detected | 58 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 58 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 58 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 58 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 58 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 58 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 58 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80951 SS4-7.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.9 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80952 SS4-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.52 | | | |
| SURROGATE | #Bromofluorobenzene# | 123 | | | |
| SURROGATE | #Dibromofluoromethane# | 125 | | | |
| SURROGATE | #Toluene-d8# | 126 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 56 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 56 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 56 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 56 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 56 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 56 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 56 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 56 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 56 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | 3 7 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 56 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 56 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 56 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 56 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 56 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 56 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 56 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 56 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 56 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 56 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 56 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 56 | 5 3 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 220 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 56 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 56 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 56 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 56 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80952 SS4-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 56 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 56 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 56 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 56 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 220 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 56 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 56 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 56 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 56 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 56 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 56 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 56 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 56 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 56 | | 50 |
| 100-42-5 | Styrene | Not Detected | 56 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 56 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 56 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 56 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 56 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 56 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 56 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 56 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 56 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80952 SS4-10.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.8 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80953 SS4-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.56 | | | |
| SURROGATE | #Bromofluorobenzene# | 115 | | | |
| SURROGATE | #Dibromofluoromethane# | 115 | | | |
| SURROGATE | #Toluene-d8# | 115 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 59 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 59 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 59 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 59 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 59 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 59 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 59 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 59 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 59 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | 3 7 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 59 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 59 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 59 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 59 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 59 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 59 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 59 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 59 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 59 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 59 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 59 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 59 | 5 3 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 59 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 59 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 59 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 59 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80953 SS4-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 59 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 59 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 59 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 59 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 59 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 59 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 59 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 59 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 59 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 59 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 59 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 59 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 59 | | 50 |
| 100-42-5 | Styrene | Not Detected | 59 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 59 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 59 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | Not Detected | 59 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 59 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 59 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 59 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 59 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 59 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80953 SS4-12.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.6 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80954 SS4-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.45 | | | |
| SURROGATE | #Bromofluorobenzene# | 115 | | | |
| SURROGATE | #Dibromofluoromethane# | 121 | | | |
| SURROGATE | #Toluene-d8# | 115 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 60 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 60 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 60 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 60 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 60 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 60 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 60 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | 3 7 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 60 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 60 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 60 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 60 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 60 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 60 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 60 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 60 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 60 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 60 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 60 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 60 | 5 3 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 60 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 60 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 60 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 60 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80954 SS4-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 60 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 60 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 60 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 60 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 60 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 60 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 60 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 60 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 60 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 60 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 60 | | 50 |
| 100-42-5 | Styrene | Not Detected | 60 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 60 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 60 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | Not Detected | 60 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 60 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 60 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 60 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80954 SS4-15.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.4 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80955 SS4-17.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/05/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.36 | | | |
| SURROGATE | #Bromofluorobenzene# | 119 | | | |
| SURROGATE | #Dibromofluoromethane# | 158 | | | |
| SURROGATE | #Toluene-d8# | 139 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 57 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 57 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 57 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 57 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 57 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 57 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 57 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 57 | 5 7Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 57 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 57 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 57 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 57 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 57 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 57 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 57 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 57 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 57 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 57 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 57 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 57 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 57 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 57 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 57 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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FAX: (517) 335-9600

## Sample Number: AB80955 SS4-17.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/05/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 57 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 57 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 57 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 57 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 57 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 57 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 57 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 57 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 57 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 57 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 57 | | 50 |
| 100-42-5 | Styrene | Not Detected | 57 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 57 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | 7 | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 57 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 57 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | 5Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 57 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 57 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 57 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80955 SS4-17.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 92.1 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80956 SS2-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.49 | | | |
| SURROGATE | #Bromofluorobenzene# | 118 | | | |
| SURROGATE | #Dibromofluoromethane# | 116 | | | |
| SURROGATE | #Toluene-d8# | 116 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 58 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 58 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 58 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 58 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 58 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 58 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 58 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | 3 7 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 58 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 58 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 58 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 58 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 58 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 58 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 58 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 58 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 58 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 58 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 58 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 58 | 5 3 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 58 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 58 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 58 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 58 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80956 SS2-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 58 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 58 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 58 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 58 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 58 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 58 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 58 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 58 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 58 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 58 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 58 | | 50 |
| 100-42-5 | Styrene | Not Detected | 58 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 58 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 58 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 58 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 58 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 58 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 58 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80956 SS2-2.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 90.3 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80957 SS2-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.15 | | | |
| SURROGATE | #Bromofluorobenzene# | 120 | | | |
| SURROGATE | #Dibromofluoromethane# | 122 | | | |
| SURROGATE | #Toluene-d8# | 126 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 61 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 61 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 61 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 61 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 61 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 61 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 310 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 61 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 61 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 310 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 61 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 310 | 3 7 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 61 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 61 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 61 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 61 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 61 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 61 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 61 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 310 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 310 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 310 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 310 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 310 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 61 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 61 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 61 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 61 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 61 | 5 3 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 250 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 61 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 61 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 61 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 310 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 61 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80957 SS2-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 310 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 61 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 61 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 310 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 61 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 61 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 310 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 250 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 310 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 61 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 310 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 310 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 61 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 61 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 61 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 310 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 61 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 61 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 61 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 61 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 61 | | 50 |
| 100-42-5 | Styrene | Not Detected | 61 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 61 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3100 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 310 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 61 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 310 | | 50 |
| 108-88-3 | Toluene | Not Detected | 61 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 61 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 61 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 310 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 61 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 61 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 61 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80957 SS2-5.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 89.1 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80958 SS2-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.93 | | | |
| SURROGATE | #Bromofluorobenzene# | 111 | | | |
| SURROGATE | #Dibromofluoromethane# | 115 | | | |
| SURROGATE | #Toluene-d8# | 116 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 60 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 60 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 60 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 60 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 60 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 60 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 60 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | 3 7 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 60 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 60 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 60 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 60 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 60 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 60 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 60 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 60 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 60 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 60 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 60 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 60 | 5 3 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 60 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 60 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 60 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 60 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80958 SS2-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 60 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 60 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 60 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 60 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 60 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 60 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 60 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 60 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 60 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 60 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 60 | | 50 |
| 100-42-5 | Styrene | Not Detected | 60 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 60 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 60 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | Not Detected | 60 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 60 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 60 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 60 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80958 SS2-7.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.1 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80959 SS2-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.01 | | | |
| SURROGATE | #Bromofluorobenzene# | 124 | | | |
| SURROGATE | #Dibromofluoromethane# | 124 | | | |
| SURROGATE | #Toluene-d8# | 128 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 61 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 61 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 61 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 61 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 61 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 61 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 310 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 61 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 61 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 310 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 61 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 310 | 3 7 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 61 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 61 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 61 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 61 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 61 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 61 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 61 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 310 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 310 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 310 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 310 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 310 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 61 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 61 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 61 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 61 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 61 | 5 3 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 250 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 61 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 61 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 61 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 310 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 61 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80959 SS2-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 310 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 61 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 61 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 310 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 61 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 61 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 310 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 250 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 310 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 61 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 310 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 310 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 61 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 61 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 61 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 310 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 61 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 61 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 61 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 61 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 61 | | 50 |
| 100-42-5 | Styrene | Not Detected | 61 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 61 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3100 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 310 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 61 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 310 | | 50 |
| 108-88-3 | Toluene | Not Detected | 61 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 61 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 61 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 310 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 61 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 61 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 61 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80959 SS2-10.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 89.7 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80960 SS2-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.20 | | | |
| SURROGATE | #Bromofluorobenzene# | 119 | | | |
| SURROGATE | #Dibromofluoromethane# | 125 | | | |
| SURROGATE | #Toluene-d8# | 122 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 57 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 57 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 57 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 57 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 57 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 57 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 57 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | 3 7 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 57 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 57 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 57 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 57 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 57 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 57 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 57 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 57 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 57 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 57 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 57 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 57 | 5 3 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 57 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 57 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 57 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 57 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80960 SS2-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 57 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 57 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 57 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 57 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 57 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 57 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 57 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 57 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 57 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 57 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 57 | | 50 |
| 100-42-5 | Styrene | Not Detected | 57 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 57 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 57 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 57 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 57 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 57 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 57 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80960 SS2-12.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 92.8 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80961 SS2-14.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.96 | | | |
| SURROGATE | #Bromofluorobenzene# | 118 | | | |
| SURROGATE | #Dibromofluoromethane# | 121 | | | |
| SURROGATE | #Toluene-d8# | 121 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 63 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 63 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 63 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 63 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 63 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 63 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 320 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 63 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 63 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 320 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 63 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 320 | 3 7 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 63 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 63 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 63 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 63 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 63 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 63 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 63 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 320 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 320 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 320 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 320 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 320 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 63 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 63 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 63 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 63 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 63 | 5 3 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 250 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 63 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 63 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 63 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 320 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 63 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80961 SS2-14.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 320 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 63 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 63 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 320 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 63 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 63 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 320 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 250 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 320 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 63 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 320 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 320 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 63 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 63 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 63 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 320 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 63 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 63 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 63 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 63 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 63 | | 50 |
| 100-42-5 | Styrene | Not Detected | 63 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 63 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3200 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 320 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 63 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 320 | | 50 |
| 108-88-3 | Toluene | Not Detected | 63 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 63 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 63 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 320 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 63 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 63 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 63 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80961 SS2-14.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 88.5 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80962 SS2-17.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.08 | | | |
| SURROGATE | #Bromofluorobenzene# | 108 | | | |
| SURROGATE | #Dibromofluoromethane# | 108 | | | |
| SURROGATE | #Toluene-d8# | 110 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 60 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 60 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 60 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 60 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 60 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 60 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 60 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | 3 7 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 60 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 60 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 60 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 60 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 60 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 60 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 60 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 60 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 60 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 60 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 60 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 60 | 5 3 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | 60 | 60 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 60 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 60 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 60 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80962 SS2-17.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | 100 | 60 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 60 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 60 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 60 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 60 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 60 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 60 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 60 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 60 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 60 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 60 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 60 | | 50 |
| 100-42-5 | Styrene | Not Detected | 60 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 60 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 60 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | Not Detected | 60 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | 190 | 60 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 60 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 60 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80962 SS2-17.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 90.2 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80963 SS69-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.95 | | | |
| SURROGATE | #Bromofluorobenzene# | 111 | | | |
| SURROGATE | #Dibromofluoromethane# | 110 | | | |
| SURROGATE | #Toluene-d8# | 113 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 60 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 60 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 60 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 60 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 60 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 60 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 60 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | 3 7 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 60 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 60 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 60 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 60 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 60 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 60 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 60 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 60 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 60 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 60 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 60 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 60 | 5 3 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 60 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 60 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 60 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 60 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80963 SS69-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 60 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 60 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 60 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 60 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 60 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 60 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 60 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 60 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 60 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 60 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 60 | | 50 |
| 100-42-5 | Styrene | Not Detected | 60 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 60 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 60 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | Not Detected | 60 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | 92 | 60 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 60 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 60 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80963 SS69-2.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.0 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80964 SS69-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.26 | | | |
| SURROGATE | #Bromofluorobenzene# | 108 | | | |
| SURROGATE | #Dibromofluoromethane# | 108 | | | |
| SURROGATE | #Toluene-d8# | 116 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 58 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 58 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 58 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 58 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 58 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 58 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | 3 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 58 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | 3 7 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 58 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 58 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 58 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 58 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 58 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 58 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 58 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X 5 3 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 58 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 58 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 58 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 58 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 58 | 5 3 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 58 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 58 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 58 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 58 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

## Sample Number: AB80964 SS69-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 58 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 58 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 58 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 58 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 58 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 58 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 58 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 58 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 58 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 58 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 58 | | 50 |
| 100-42-5 | Styrene | Not Detected | 58 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 58 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 58 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 58 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 58 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 58 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 58 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
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ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80964 SS69-5.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.5 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80965 SS69-5.0 MS

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.26 | | | |
| SURROGATE | #Bromofluorobenzene# | 108 | | | |
| SURROGATE | #Dibromofluoromethane# | 115 | | | |
| SURROGATE | #Toluene-d8# | 115 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 2600 | 58 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | 2500 | 58 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2600 | 58 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | 2600 | 58 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | 2700 | 58 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | 2700 | 58 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2500 | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | 2600 | 58 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 2600 | 58 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2400 | 290 | 3 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2600 | 58 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 2100 | 290 | 3 7 | 50 |
| 106-93-4 | 1,2-Dibromoethane | 2600 | 58 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | 2600 | 58 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | 2600 | 58 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | 2700 | 58 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2500 | 58 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | 2400 | 58 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | 2500 | 58 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | 3200 | 290 | 6 | 50 |
| 591-78-6 | 2-Hexanone | 3200 | 290 | 6 | 50 |
| 91-57-6 | 2-Methylnaphthalene | 1700 | 290 | X 5 3 | 50 |
| 67-64-1 | 2-Propanone (acetone) | 3200 | 1200 | 6 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 2700 | 290 | | 50 |
| 107-13-1 | Acrylonitrile | 2500 | 290 | Z | 50 |
| 71-43-2 | Benzene | 2600 | 58 | | 50 |
| 108-86-1 | Bromobenzene | 2700 | 58 | | 50 |
| 74-97-5 | Bromochloromethane | 2800 | 58 | | 50 |
| 75-27-4 | Bromodichloromethane | 2500 | 58 | | 50 |
| 75-25-2 | Bromoform | 2000 | 58 | 5 3 | 50 |
| 74-83-9 | Bromomethane | 2200 | 230 | 7 | 50 |
| 75-15-0 | Carbon disulfide | 2400 | 58 | | 50 |
| 56-23-5 | Carbon tetrachloride | 2600 | 58 | | 50 |
| 108-90-7 | Chlorobenzene | 2700 | 58 | | 50 |
| 75-00-3 | Chloroethane | 2900 | 290 | | 50 |
| 67-66-3 | Chloroform | 2600 | 58 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80965 SS69-5.0 MS

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 2700 | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | 2400 | 58 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | 2800 | 58 | | 50 |
| 110-82-7 | Cyclohexane | 2300 | 290 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | 2500 | 58 | | 50 |
| 74-95-3 | Dibromomethane | 2600 | 58 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | 3000 | 290 | | 50 |
| 60-29-7 | Diethyl ether | 2800 | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | 2700 | 290 | | 50 |
| 100-41-4 | Ethylbenzene | 2600 | 58 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | 2800 | 290 | | 50 |
| 67-72-1 | Hexachloroethane | 2000 | 290 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | 2700 | 58 | | 50 |
| 108383,106423 | m & p - Xylene | 5100 | 120 | | 50 |
| 74-88-4 | Methyl iodide | 2100 | 58 | 5 | 50 |
| 75-09-2 | Methylene chloride | 2800 | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | 2700 | 58 | | 50 |
| 91-20-3 | Naphthalene | 2400 | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | 2500 | 58 | | 50 |
| 103-65-1 | n-Propylbenzene | 2600 | 58 | | 50 |
| 95-47-6 | o-Xylene | 2500 | 58 | | 50 |
| 99-87-6 | p-Isopropyl toluene | 2500 | 58 | | 50 |
| 135-98-8 | sec-Butylbenzene | 2700 | 58 | | 50 |
| 100-42-5 | Styrene | 2600 | 58 | | 50 |
| 98-06-6 | tert-Butylbenzene | 2700 | 58 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | 12000 | 2900 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | 2600 | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | 2500 | 58 | | 50 |
| 109-99-9 | Tetrahydrofuran | 2500 | 290 | | 50 |
| 108-88-3 | Toluene | 2600 | 58 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | 3300 | 58 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | 2700 | 58 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 2300 | 290 | Z | 50 |
| 79-01-6 | Trichloroethylene | 2800 | 58 | | 50 |
| 75-69-4 | Trichlorofluoromethane | 2700 | 58 | | 50 |
| 75-01-4 | Vinyl chloride | 3100 | 58 | Z | 50 |

Sample is a matrix spike.
Compounds spiked at 2900 ug/Kg, except tertiary butyl alcohol spiked at 14500 ug/Kg & m&p-xylene spiked at 5800 ug/Kg.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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FAX: (517) 335-9600

## Sample Number: AB80965 SS69-5.0 MS

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.5 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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FAX: (517) 335-9600

## Sample Number: AB80966 SS69-5.0 MSD

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.26 | | | |
| SURROGATE | #Bromofluorobenzene# | 108 | | | |
| SURROGATE | #Dibromofluoromethane# | 113 | | | |
| SURROGATE | #Toluene-d8# | 113 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 2700 | 58 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | 2400 | 58 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2500 | 58 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | 2700 | 58 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | 2600 | 58 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | 2600 | 58 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2800 | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | 2400 | 58 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 2600 | 58 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2800 | 290 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2800 | 58 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 2500 | 290 | 7 | 50 |
| 106-93-4 | 1,2-Dibromoethane | 2700 | 58 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | 2700 | 58 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | 2500 | 58 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | 2700 | 58 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2700 | 58 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | 2500 | 58 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | 2800 | 58 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | 3100 | 290 | 6 | 50 |
| 591-78-6 | 2-Hexanone | 3400 | 290 | 6 | 50 |
| 91-57-6 | 2-Methylnaphthalene | 2100 | 290 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | 3200 | 1200 | 6 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 2600 | 290 | | 50 |
| 107-13-1 | Acrylonitrile | 2700 | 290 | Z | 50 |
| 71-43-2 | Benzene | 2500 | 58 | | 50 |
| 108-86-1 | Bromobenzene | 3000 | 58 | | 50 |
| 74-97-5 | Bromochloromethane | 2700 | 58 | | 50 |
| 75-27-4 | Bromodichloromethane | 2500 | 58 | | 50 |
| 75-25-2 | Bromoform | 2000 | 58 | 5 3 | 50 |
| 74-83-9 | Bromomethane | 2600 | 230 | 7 | 50 |
| 75-15-0 | Carbon disulfide | 2500 | 58 | | 50 |
| 56-23-5 | Carbon tetrachloride | 2400 | 58 | | 50 |
| 108-90-7 | Chlorobenzene | 2800 | 58 | | 50 |
| 75-00-3 | Chloroethane | 2900 | 290 | | 50 |
| 67-66-3 | Chloroform | 2600 | 58 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80966 SS69-5.0 MSD

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 3000 | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | 2300 | 58 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | 2800 | 58 | | 50 |
| 110-82-7 | Cyclohexane | 2100 | 290 | 5 3 | 50 |
| 124-48-1 | Dibromochloromethane | 2500 | 58 | | 50 |
| 74-95-3 | Dibromomethane | 2600 | 58 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | 2900 | 290 | | 50 |
| 60-29-7 | Diethyl ether | 2600 | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | 2600 | 290 | | 50 |
| 100-41-4 | Ethylbenzene | 2600 | 58 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | 2700 | 290 | | 50 |
| 67-72-1 | Hexachloroethane | 2100 | 290 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | 2800 | 58 | | 50 |
| 108383,106423 | m & p - Xylene | 5100 | 120 | | 50 |
| 74-88-4 | Methyl iodide | 2300 | 58 | 5 | 50 |
| 75-09-2 | Methylene chloride | 2600 | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | 2700 | 58 | | 50 |
| 91-20-3 | Naphthalene | 2800 | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | 2600 | 58 | | 50 |
| 103-65-1 | n-Propylbenzene | 2600 | 58 | | 50 |
| 95-47-6 | o-Xylene | 2500 | 58 | | 50 |
| 99-87-6 | p-Isopropyl toluene | 2600 | 58 | | 50 |
| 135-98-8 | sec-Butylbenzene | 2800 | 58 | | 50 |
| 100-42-5 | Styrene | 2700 | 58 | | 50 |
| 98-06-6 | tert-Butylbenzene | 2700 | 58 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | 12000 | 2900 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | 2600 | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | 2500 | 58 | | 50 |
| 109-99-9 | Tetrahydrofuran | 2600 | 290 | | 50 |
| 108-88-3 | Toluene | 2600 | 58 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | 3200 | 58 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | 2800 | 58 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 2300 | 290 | Z | 50 |
| 79-01-6 | Trichloroethylene | 2800 | 58 | | 50 |
| 75-69-4 | Trichlorofluoromethane | 2600 | 58 | | 50 |
| 75-01-4 | Vinyl chloride | 2900 | 58 | Z | 50 |

Sample is a matrix spike duplicate.
Compounds spiked at 2900 ug/Kg, except tertiary butyl alcohol spiked at 14500 ug/Kg & m&p-xylene spiked at 5800 ug/Kg.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80966 SS69-5.0 MSD

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.5 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
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Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

## Sample Number: AB80967 SS69-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.31 | | | |
| SURROGATE | #Bromofluorobenzene# | 134 | | | |
| SURROGATE | #Dibromofluoromethane# | 139 | | | |
| SURROGATE | #Toluene-d8# | 139 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 60 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 60 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 60 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 60 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 60 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 60 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 60 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | 3 7 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 60 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 60 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 60 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 60 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 60 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 60 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 60 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 60 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 60 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 60 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 60 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 60 | 5 3 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 60 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 60 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 60 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 60 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80967 SS69-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 60 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 60 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 60 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 60 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 60 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 60 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 60 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 60 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 60 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 60 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 60 | | 50 |
| 100-42-5 | Styrene | Not Detected | 60 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 60 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 60 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | Not Detected | 60 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | 180 | 60 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 60 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 60 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80967 SS69-7.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 94.2 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

| Qualifier Code | Qualifier Description |
|---|---|
| 1 | Result(s) and RL(s) are estimated due to low surrogate recovery. |
| 2 | Result is estimated due to high surrogate recovery. |
| 3 | Result(s) and RL(s) are estimated due to low matrix spike recovery. |
| 4 | Result is estimated due to high matrix spike recovery. |
| 5 | Result and RL are estimated due to low continuing calibration standard criteria failure. |
| 6 | Result is estimated due to high continuing calibration standard criteria failure. |
| 7 | Result(s) and RL(s) are estimated due to poor precision. |
| 8 | Result(s) and RL(s) are estimated due to low recovery of batch QC. |
| 9 | Result outside QC acceptance criteria. |
| A | Value reported is the mean of two or more determinations. |
| C | Value calculated from other independent parameters. |
| D | Analyte value quantified from a dilution(s); reporting limit (RL) raised. |
| E | Result is estimated due to high recovery of batch QC. |
| F | Amenable cyanide was not analyzed due to low level of total cyanide. |
| G | Result and RL are estimated due to initial calibration standard criteria failure. |
| H | Recommended laboratory holding time was exceeded. |
| I | Dilution required due to matrix interference; reporting limit (RL) raised. |
| J | Analyte was positively identified. Value is an estimate. |
| JA | Result is estimated due to multiple Aroclors present. |
| JC | Result is estimated since confirmation analysis did not meet acceptance criteria |
| JD | Due to severe degradation, specific Aroclor identification is difficult and quantitation is estimated. |
| K | RL(s) raised due to matrix interferences. |
| KR | RL(s) raised due to low sample volume submitted. |
| KS | RL(s) raised due to low total solids. |
| KW | RL(s) raised due to light sample weight. |
| LB | Reported library search compounds are tentative identifications with estimated concentrations. |
| M | The level of the method preparation blank (MPB) is reported in the qualifier column. |
| N | Non-homogeneous sample made analysis of sample questionable. |
| O | Result and RL estimated due to analysis from an open vial. |
| P | Recommended sample collection/preservation technique not used; reported result(s) is an estimate. |
| PI | Possible interference may have affected the accuracy of the laboratory result |
| Q | Quantity of sample insufficient to perform analyses requested. |
| R | Result confirmed by re-extraction and analysis. |
| S | Supernatant analyzed. |
| T | Reported value is less than the reporting limit (RL). Result is estimated. |
| V | Value not available due to dilution. |
| W | Reported value is less than the method detection limit (MDL). |
| X | Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200°C. 2-Methylnaphthalene & naphthalene have boiling points above 200°C and are better suited to analysis by methods 8270 or 625 as semivolatile organics. |
| Z | Result reported below the RL to meet the TDL in RRD Op Memo 2 (10/22/04) multiplied by applicable dilution factor. |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80599 Field Blank

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 100 | % | 0.1 | | 08/26/2011 | 2540B SM | JW |

| Qualifier Code | Qualifier Description |
|---|---|
| 1 | Result(s) and RL(s) are estimated due to low surrogate recovery. |
| 2 | Result is estimated due to high surrogate recovery. |
| 3 | Result(s) and RL(s) are estimated due to low matrix spike recovery. |
| 4 | Result is estimated due to high matrix spike recovery. |
| 5 | Result and RL are estimated due to low continuing calibration standard criteria failure. |
| 6 | Result is estimated due to high continuing calibration standard criteria failure. |
| 7 | Result(s) and RL(s) are estimated due to poor precision. |
| 8 | Result(s) and RL(s) are estimated due to low recovery of batch QC. |
| 9 | Result outside QC acceptance criteria. |
| A | Value reported is the mean of two or more determinations. |
| C | Value calculated from other independent parameters. |
| D | Analyte value quantified from a dilution(s); reporting limit (RL) raised. |
| E | Result is estimated due to high recovery of batch QC. |
| F | Amenable cyanide was not analyzed due to low level of total cyanide. |
| G | Result and RL are estimated due to initial calibration standard criteria failure. |
| H | Recommended laboratory holding time was exceeded. |
| I | Dilution required due to matrix interference; reporting limit (RL) raised. |
| J | Analyte was positively identified. Value is an estimate. |
| JA | Result is estimated due to multiple Aroclors present. |
| JC | Result is estimated since confirmation analysis did not meet acceptance criteria |
| JD | Due to severe degradation, specific Aroclor identification is difficult and quantitation is estimated. |
| K | RL(s) raised due to matrix interferences. |
| KR | RL(s) raised due to low sample volume submitted. |
| KS | RL(s) raised due to low total solids. |
| KW | RL(s) raised due to light sample weight. |
| LB | Reported library search compounds are tentative identifications with estimated concentrations. |
| M | The level of the method preparation blank (MPB) is reported in the qualifier column. |
| N | Non-homogeneous sample made analysis of sample questionable. |
| O | Result and RL estimated due to analysis from an open vial. |
| P | Recommended sample collection/preservation technique not used; reported result(s) is an estimate. |
| PI | Possible interference may have affected the accuracy of the laboratory result |
| Q | Quantity of sample insufficient to perform analyses requested. |
| R | Result confirmed by re-extraction and analysis. |
| S | Supernatant analyzed. |
| T | Reported value is less than the reporting limit (RL). Result is estimated. |
| V | Value not available due to dilution. |
| W | Reported value is less than the method detection limit (MDL). |
| X | Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200°C. 2-Methylnaphthalene & naphthalene have boiling points above 200°C and are better suited to analysis by methods 8270 or 625 as semivolatile organics. |
| Z | Result reported below the RL to meet the TDL in RRD Op Memo 2 (10/22/04) multiplied by applicable dilution factor. |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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**Division:** RD
**Report to:** JOE WALCZAK
DNRE-RD-LANSING
CONSTITUTION HALL
525 W. ALLEGAN, LANSING, MI 48909

**Total:** $3,132.00

**Lab Work Order # :** 10800290
**Work Site ID :** LB041056
**Site Name :** FORMER ACME INDUSTRIES
**Received:** 08/26/2011
**Reported:** 09/28/2011
**Collected By:**

**Samples Received :**

| No: | Sample ID | Sample Description | Matrix: | Collection Date |
|---|---|---|---|---|
| 01 | AB80968 | SS69-10.0 | SEDIMENT | 08/24/2011 |
| 02 | AB80969 | SS69-12.5 | SEDIMENT | 08/24/2011 |
| 03 | AB80970 | SS69-15.0 | SEDIMENT | 08/24/2011 |
| 04 | AB80971 | SS69-17.0 | SEDIMENT | 08/24/2011 |
| 05 | AB80972 | SS69-19.0 | SEDIMENT | 08/24/2011 |
| 06 | AB80973 | SS68-2.5 | SEDIMENT | 08/24/2011 |
| 07 | AB80974 | SS68-5.0 | SEDIMENT | 08/24/2011 |
| 08 | AB80975 | SS68-7.5 | SEDIMENT | 08/24/2011 |
| 09 | AB80976 | SS68-7.5 MS | SEDIMENT | 08/24/2011 |
| 10 | AB80977 | SS68-7.5 MSD | SEDIMENT | 08/24/2011 |
| 11 | AB80978 | SS68-10.0 | SEDIMENT | 08/24/2011 |
| 12 | AB80979 | SS68-12.5 | SEDIMENT | 08/24/2011 |
| 13 | AB80980 | SS68-15.0 | SEDIMENT | 08/24/2011 |
| 14 | AB80981 | SS68-17.0 | SEDIMENT | 08/24/2011 |
| 15 | AB80982 | M-1S | SEDIMENT | 08/24/2011 |
| 16 | AB80983 | M-2S | SEDIMENT | 08/24/2011 |
| 17 | AB80984 | M-3S | SEDIMENT | 08/24/2011 |
| 18 | AB80985 | SS68-19.5 | SEDIMENT | 08/24/2011 |
| 19 | AB80986 | SS5-2.5 | SEDIMENT | 08/24/2011 |
| 20 | AB80987 | SS5-5.0 | SEDIMENT | 08/24/2011 |
| 21 | AB80988 | SS5-7.5 | SEDIMENT | 08/24/2011 |
| 22 | AB80989 | SS5-5.0 MS | SEDIMENT | 08/24/2011 |
| 23 | AB80990 | SS5-5.0 MSD | SEDIMENT | 08/24/2011 |
| 24 | AB80991 | SS5-10.0 | SEDIMENT | 08/24/2011 |

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I certify that the analysis performed by the MDEQ Environmental Laboratory are accurate and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

George L. Krisztian,
Laboratory Director

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80968 SS69-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 8.59 | | | |
| SURROGATE | #Bromofluorobenzene# | 146 | | | |
| SURROGATE | #Dibromofluoromethane# | 151 | | | |
| SURROGATE | #Toluene-d8# | 158 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 66 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 66 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 66 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 66 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 66 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 66 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 330 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 66 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 66 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 330 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 66 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 330 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 66 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 66 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 66 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 66 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 66 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 66 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 66 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 330 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 330 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 330 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 330 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 330 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 66 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 66 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 66 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 66 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 66 | 5 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 260 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 66 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 66 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 66 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 330 | | 50 |
| 67-66-3 | Chloroform | 180 | 66 | | 50 |

CAS# : Chemical Abstract Service Registry Number
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## Sample Number: AB80968 SS69-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 330 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 66 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 66 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 330 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 66 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 66 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 330 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 260 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 330 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 66 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 330 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 330 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 66 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 66 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 66 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 330 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 66 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 66 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 66 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 66 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 66 | | 50 |
| 100-42-5 | Styrene | Not Detected | 66 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 66 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3300 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 330 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 66 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 330 | | 50 |
| 108-88-3 | Toluene | Not Detected | 66 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 66 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 66 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 330 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 66 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 66 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 66 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80968 SS69-10.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.2 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80969 SS69-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.27 | | | |
| SURROGATE | #Bromofluorobenzene# | 131 | | | |
| SURROGATE | #Dibromofluoromethane# | 124 | | | |
| SURROGATE | #Toluene-d8# | 135 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 65 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 65 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 65 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 65 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 65 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 65 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 330 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 65 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 65 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 330 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 65 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 330 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 65 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 65 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 65 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 65 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 65 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 65 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 65 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 330 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 330 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 330 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 330 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 330 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 65 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 65 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 65 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 65 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 65 | 5 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 260 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 65 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 65 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 65 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 330 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 65 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80969 SS69-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 330 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 65 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 65 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 330 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 65 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 65 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 330 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 260 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 330 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 65 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 330 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 330 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 65 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 65 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 65 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 330 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 65 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 65 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 65 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 65 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 65 | | 50 |
| 100-42-5 | Styrene | Not Detected | 65 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 65 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3300 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 330 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 65 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 330 | | 50 |
| 108-88-3 | Toluene | Not Detected | 65 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 65 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 65 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 330 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 65 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 65 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 65 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80969 SS69-12.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 90.1 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80970 SS69-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.16 | | | |
| SURROGATE | #Bromofluorobenzene# | 146 | | | |
| SURROGATE | #Dibromofluoromethane# | 145 | | | |
| SURROGATE | #Toluene-d8# | 146 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 61 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 61 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 61 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 61 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 61 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 61 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 310 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 61 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 61 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 310 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 61 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 310 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 61 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 61 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 61 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 61 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 61 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 61 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 61 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 310 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 310 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 310 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 310 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 310 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 61 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 61 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 61 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 61 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 61 | 5 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 61 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 61 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 61 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 310 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 61 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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## Sample Number: AB80970 SS69-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 310 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 61 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 61 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 310 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 61 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 61 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 310 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 310 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 61 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 310 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 310 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 61 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 61 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 61 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 310 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 61 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 61 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 61 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 61 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 61 | | 50 |
| 100-42-5 | Styrene | Not Detected | 61 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 61 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3100 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 310 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 61 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 310 | | 50 |
| 108-88-3 | Toluene | Not Detected | 61 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 61 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 61 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 310 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 61 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 61 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 61 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80970 SS69-15.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 94.1 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80971 SS69-17.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.49 | | | |
| SURROGATE | #Bromofluorobenzene# | 118 | | | |
| SURROGATE | #Dibromofluoromethane# | 123 | | | |
| SURROGATE | #Toluene-d8# | 118 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 85 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 85 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 85 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 85 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 85 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 85 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 430 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 85 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 85 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 430 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 85 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 430 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 85 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 85 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 85 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 85 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 85 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 85 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 85 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 430 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 430 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 430 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1700 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 430 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 430 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 85 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 85 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 85 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 85 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 85 | 5 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 340 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 85 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 85 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 85 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 430 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 85 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80971 SS69-17.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 430 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 85 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 85 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 430 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 85 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 85 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 430 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 340 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 430 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 85 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 430 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 430 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 85 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 170 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 85 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 170 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 85 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 430 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 85 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 85 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 85 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 85 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 85 | | 50 |
| 100-42-5 | Styrene | Not Detected | 85 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 85 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 4300 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 430 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 85 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 430 | | 50 |
| 108-88-3 | Toluene | Not Detected | 85 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 85 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 85 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 430 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 85 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 85 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 85 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80971 SS69-17.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 75.9 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80972 SS69-19.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.68 | | | |
| SURROGATE | #Bromofluorobenzene# | 123 | | | |
| SURROGATE | #Dibromofluoromethane# | 124 | | | |
| SURROGATE | #Toluene-d8# | 130 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 60 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 60 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 60 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 60 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 60 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 60 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 60 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 60 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 60 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 60 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 60 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 60 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 60 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 60 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 60 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 60 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 60 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 60 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 60 | 5 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 60 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 60 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 60 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 60 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80972 SS69-19.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 60 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 60 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 60 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 60 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 60 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 60 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 60 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 60 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 60 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 60 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 60 | | 50 |
| 100-42-5 | Styrene | Not Detected | 60 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 60 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 60 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | Not Detected | 60 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 60 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 60 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 60 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80972 SS69-19.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 92.6 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80973 SS68-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.47 | | | |
| SURROGATE | #Bromofluorobenzene# | 113 | | | |
| SURROGATE | #Dibromofluoromethane# | 113 | | | |
| SURROGATE | #Toluene-d8# | 114 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 57 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 57 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 57 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 57 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 57 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 57 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 57 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 57 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 57 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 57 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 57 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 57 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 57 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 57 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 57 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 57 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 57 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 57 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 57 | 5 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 57 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 57 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 57 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 57 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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## Sample Number: AB80973 SS68-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 08/29/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 57 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 57 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 57 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 57 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 57 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 57 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 57 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 57 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 57 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 57 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 57 | | 50 |
| 100-42-5 | Styrene | Not Detected | 57 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 57 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 57 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 57 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 57 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 57 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 57 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80973 SS68-2.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 96.4 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80974 SS68-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.53 | | | |
| SURROGATE | #Bromofluorobenzene# | 104 | | | |
| SURROGATE | #Dibromofluoromethane# | 106 | | | |
| SURROGATE | #Toluene-d8# | 115 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 60 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 60 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 60 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 60 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 60 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 60 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 60 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 60 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 60 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 60 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 60 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 60 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 60 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 60 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 60 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 60 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 60 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 60 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 60 | 5 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 60 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 60 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 60 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 60 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80974 SS68-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 60 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 60 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 60 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 60 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 60 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 60 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 60 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 60 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 60 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 60 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 60 | | 50 |
| 100-42-5 | Styrene | Not Detected | 60 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 60 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 60 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | Not Detected | 60 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 60 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 60 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 60 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80974 SS68-5.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.0 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80975 SS68-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.71 | | | |
| SURROGATE | #Bromofluorobenzene# | 116 | | | |
| SURROGATE | #Dibromofluoromethane# | 122 | | | |
| SURROGATE | #Toluene-d8# | 130 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 59 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 59 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 59 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 59 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 59 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 59 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 59 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 59 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 59 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 59 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 59 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 59 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 59 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 59 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 59 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 59 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 59 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 59 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 59 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 59 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 59 | 5 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 59 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 59 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 59 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 59 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80975 SS68-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 59 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 59 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 59 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 59 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 59 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 59 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 59 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 59 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 59 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 59 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 59 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 59 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 59 | | 50 |
| 100-42-5 | Styrene | Not Detected | 59 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 59 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 59 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | Not Detected | 59 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 59 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 59 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 59 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 59 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 59 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80975 SS68-7.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.1 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80976 SS68-7.5 MS

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.71 | | | |
| SURROGATE | #Bromofluorobenzene# | 122 | | | |
| SURROGATE | #Dibromofluoromethane# | 125 | | | |
| SURROGATE | #Toluene-d8# | 124 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 2700 | 59 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | 2500 | 59 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2500 | 59 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | 2800 | 59 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | 2700 | 59 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | 2700 | 59 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2500 | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | 2400 | 59 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 2600 | 59 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2600 | 300 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2700 | 59 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 2300 | 300 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | 2700 | 59 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | 2700 | 59 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | 2600 | 59 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | 2800 | 59 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2600 | 59 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | 2500 | 59 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | 2600 | 59 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | 3500 | 300 | 6 | 50 |
| 591-78-6 | 2-Hexanone | 3300 | 300 | 6 | 50 |
| 91-57-6 | 2-Methylnaphthalene | 1800 | 300 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | 3400 | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 2800 | 300 | | 50 |
| 107-13-1 | Acrylonitrile | 2400 | 300 | Z | 50 |
| 71-43-2 | Benzene | 2700 | 59 | | 50 |
| 108-86-1 | Bromobenzene | 3300 | 59 | | 50 |
| 74-97-5 | Bromochloromethane | 2800 | 59 | | 50 |
| 75-27-4 | Bromodichloromethane | 2600 | 59 | | 50 |
| 75-25-2 | Bromoform | 2100 | 59 | 5 | 50 |
| 74-83-9 | Bromomethane | 2100 | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | 2500 | 59 | | 50 |
| 56-23-5 | Carbon tetrachloride | 2600 | 59 | | 50 |
| 108-90-7 | Chlorobenzene | 2900 | 59 | | 50 |
| 75-00-3 | Chloroethane | 2800 | 300 | | 50 |
| 67-66-3 | Chloroform | 2700 | 59 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80976 SS68-7.5 MS

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 2800 | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | 2500 | 59 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | 2800 | 59 | | 50 |
| 110-82-7 | Cyclohexane | 2200 | 300 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | 2600 | 59 | | 50 |
| 74-95-3 | Dibromomethane | 2700 | 59 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | 2300 | 300 | | 50 |
| 60-29-7 | Diethyl ether | 2800 | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | 2800 | 300 | | 50 |
| 100-41-4 | Ethylbenzene | 2600 | 59 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | 2900 | 300 | | 50 |
| 67-72-1 | Hexachloroethane | 2100 | 300 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | 2800 | 59 | | 50 |
| 108383,106423 | m & p - Xylene | 5200 | 120 | | 50 |
| 74-88-4 | Methyl iodide | 2100 | 59 | 5 | 50 |
| 75-09-2 | Methylene chloride | 2900 | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | 2900 | 59 | | 50 |
| 91-20-3 | Naphthalene | 2500 | 300 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | 2500 | 59 | | 50 |
| 103-65-1 | n-Propylbenzene | 2700 | 59 | | 50 |
| 95-47-6 | o-Xylene | 2600 | 59 | | 50 |
| 99-87-6 | p-Isopropyl toluene | 2600 | 59 | | 50 |
| 135-98-8 | sec-Butylbenzene | 2700 | 59 | | 50 |
| 100-42-5 | Styrene | 2700 | 59 | | 50 |
| 98-06-6 | tert-Butylbenzene | 2700 | 59 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | 12000 | 3000 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | 2700 | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | 2600 | 59 | | 50 |
| 109-99-9 | Tetrahydrofuran | 2700 | 300 | | 50 |
| 108-88-3 | Toluene | 2700 | 59 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | 3100 | 59 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | 2700 | 59 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 2100 | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | 3100 | 59 | | 50 |
| 75-69-4 | Trichlorofluoromethane | 2700 | 59 | | 50 |
| 75-01-4 | Vinyl chloride | 2800 | 59 | Z | 50 |

Sample is a matrix spike.
Compounds spiked at 2950 ug/Kg, except tertiary butyl alcohol spiked at 14750 ug/Kg & m&p-xylene spiked at 5900 ug/Kg.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80976 SS68-7.5 MS

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.1 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80977 SS68-7.5 MSD

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.71 | | | |
| SURROGATE | #Bromofluorobenzene# | 124 | | | |
| SURROGATE | #Dibromofluoromethane# | 128 | | | |
| SURROGATE | #Toluene-d8# | 131 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 2900 | 59 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | 2500 | 59 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2400 | 59 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | 2800 | 59 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | 2800 | 59 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | 2700 | 59 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2900 | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | 2500 | 59 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 2800 | 59 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3000 | 300 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2800 | 59 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 2400 | 300 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | 2900 | 59 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | 2800 | 59 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | 2600 | 59 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | 2800 | 59 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2700 | 59 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | 2700 | 59 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | 2800 | 59 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | 3500 | 300 | 6 | 50 |
| 591-78-6 | 2-Hexanone | 3900 | 300 | 6 | 50 |
| 91-57-6 | 2-Methylnaphthalene | 2400 | 300 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | 3700 | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 2900 | 300 | | 50 |
| 107-13-1 | Acrylonitrile | 2400 | 300 | Z | 50 |
| 71-43-2 | Benzene | 2600 | 59 | | 50 |
| 108-86-1 | Bromobenzene | 3500 | 59 | | 50 |
| 74-97-5 | Bromochloromethane | 3000 | 59 | | 50 |
| 75-27-4 | Bromodichloromethane | 2600 | 59 | | 50 |
| 75-25-2 | Bromoform | 2200 | 59 | 5 | 50 |
| 74-83-9 | Bromomethane | 2600 | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | 2600 | 59 | | 50 |
| 56-23-5 | Carbon tetrachloride | 2500 | 59 | | 50 |
| 108-90-7 | Chlorobenzene | 2900 | 59 | | 50 |
| 75-00-3 | Chloroethane | 2800 | 300 | | 50 |
| 67-66-3 | Chloroform | 2700 | 59 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80977 SS68-7.5 MSD

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 2900 | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | 2500 | 59 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | 2700 | 59 | | 50 |
| 110-82-7 | Cyclohexane | 2200 | 300 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | 2700 | 59 | | 50 |
| 74-95-3 | Dibromomethane | 2700 | 59 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | 2300 | 300 | | 50 |
| 60-29-7 | Diethyl ether | 3000 | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | 2800 | 300 | | 50 |
| 100-41-4 | Ethylbenzene | 2700 | 59 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | 2800 | 300 | | 50 |
| 67-72-1 | Hexachloroethane | 2200 | 300 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | 2900 | 59 | | 50 |
| 108383,106423 | m & p - Xylene | 5400 | 120 | | 50 |
| 74-88-4 | Methyl iodide | 2200 | 59 | 5 | 50 |
| 75-09-2 | Methylene chloride | 2800 | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | 2900 | 59 | | 50 |
| 91-20-3 | Naphthalene | 3000 | 300 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | 2700 | 59 | | 50 |
| 103-65-1 | n-Propylbenzene | 2700 | 59 | | 50 |
| 95-47-6 | o-Xylene | 2700 | 59 | | 50 |
| 99-87-6 | p-Isopropyl toluene | 2700 | 59 | | 50 |
| 135-98-8 | sec-Butylbenzene | 2800 | 59 | | 50 |
| 100-42-5 | Styrene | 2800 | 59 | | 50 |
| 98-06-6 | tert-Butylbenzene | 2800 | 59 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | 13000 | 3000 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | 2700 | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | 2700 | 59 | | 50 |
| 109-99-9 | Tetrahydrofuran | 2800 | 300 | | 50 |
| 108-88-3 | Toluene | 2700 | 59 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | 3100 | 59 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | 2700 | 59 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 2300 | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | 3100 | 59 | | 50 |
| 75-69-4 | Trichlorofluoromethane | 2700 | 59 | | 50 |
| 75-01-4 | Vinyl chloride | 2800 | 59 | Z | 50 |

Sample is a matrix spike duplicate.
Compounds spiked at 2950 ug/Kg, except tertiary butyl alcohol spiked at 14750 ug/Kg & m&p-xylene spiked at 5900 ug/Kg.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80977 SS68-7.5 MSD

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.1 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80978 SS68-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.41 | | | |
| SURROGATE | #Bromofluorobenzene# | 110 | | | |
| SURROGATE | #Dibromofluoromethane# | 114 | | | |
| SURROGATE | #Toluene-d8# | 116 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 59 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 59 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 59 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 59 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 59 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 59 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 59 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 560 | 59 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1200 | 59 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 59 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 59 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 59 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 59 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 370 | 59 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 59 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 59 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | 170 | 59 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 59 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 59 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 59 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 59 | 5 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | 8700 | 59 | | 50 |
| 56-23-5 | Carbon tetrachloride | 12000 | 480 | | 400 |
| 108-90-7 | Chlorobenzene | Not Detected | 59 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | 18000 | 480 | | 400 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80978 SS68-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 59 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 59 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 59 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 59 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | 87 | 59 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 59 | | 50 |
| 108383,106423 | m & p - Xylene | 130 | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 59 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 59 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 59 | | 50 |
| 103-65-1 | n-Propylbenzene | 120 | 59 | | 50 |
| 95-47-6 | o-Xylene | 68 | 59 | | 50 |
| 99-87-6 | p-Isopropyl toluene | 140 | 59 | | 50 |
| 135-98-8 | sec-Butylbenzene | 97 | 59 | | 50 |
| 100-42-5 | Styrene | Not Detected | 59 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 59 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 59 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | 230 | 59 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 59 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 59 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 59 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 59 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 59 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80978 SS68-10.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 94.2 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80979 SS68-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/05/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.57 | | | |
| SURROGATE | #Bromofluorobenzene# | 113 | | | |
| SURROGATE | #Dibromofluoromethane# | 150 | | | |
| SURROGATE | #Toluene-d8# | 134 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 58 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 58 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 58 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 58 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 58 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 58 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 58 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 58 | 5 7Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 58 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 58 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 58 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 58 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 58 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 58 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 58 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 58 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 58 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 58 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 58 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | 110 | 58 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 58 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 58 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | 190 | 58 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80979 SS68-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/05/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 58 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 58 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 58 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 58 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 58 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 58 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 58 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 58 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 58 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 58 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 58 | | 50 |
| 100-42-5 | Styrene | Not Detected | 58 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 58 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | 7 | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 58 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 58 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | 5Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 58 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 58 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 58 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80979 SS68-12.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 94.3 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80980 SS68-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/05/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.65 | | | |
| SURROGATE | #Bromofluorobenzene# | 119 | | | |
| SURROGATE | #Dibromofluoromethane# | 164 | | | |
| SURROGATE | #Toluene-d8# | 140 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 58 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 58 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 58 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 58 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 58 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 58 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 58 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 58 | 5 7Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 58 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 58 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 58 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 58 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 58 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 58 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | 470 | 290 | X 6 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 58 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 58 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 58 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 58 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 58 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 58 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 58 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 58 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 58 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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## Sample Number: AB80980 SS68-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/05/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 58 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 58 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 58 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 58 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 58 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 58 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 58 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 58 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 58 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 58 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 58 | | 50 |
| 100-42-5 | Styrene | Not Detected | 58 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 58 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | 7 | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 58 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 58 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | 5Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 58 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 58 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 58 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80980 SS68-15.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 94.2 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80981 SS68-17.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.20 | | | |
| SURROGATE | #Bromofluorobenzene# | 124 | | | |
| SURROGATE | #Dibromofluoromethane# | 132 | | | |
| SURROGATE | #Toluene-d8# | 134 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 64 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 64 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 64 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 64 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 64 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 64 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 320 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 64 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 64 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 320 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 64 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 320 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 64 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 64 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 64 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 64 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 64 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 64 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 64 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 320 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 320 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 320 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 320 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 320 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 64 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 64 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 64 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 64 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 64 | 5 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 260 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 64 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 64 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 64 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 320 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 64 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80981 SS68-17.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 320 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 64 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 64 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 320 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 64 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 64 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 320 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 260 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 320 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 64 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 320 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 320 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 64 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 64 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 64 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 320 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 64 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 64 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 64 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 64 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 64 | | 50 |
| 100-42-5 | Styrene | Not Detected | 64 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 64 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3200 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 320 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 64 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 320 | | 50 |
| 108-88-3 | Toluene | Not Detected | 64 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 64 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 64 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 320 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 64 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 64 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 64 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80981 SS68-17.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.7 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80982 M-1S

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.83 | | | |
| SURROGATE | #Bromofluorobenzene# | 116 | | | |
| SURROGATE | #Dibromofluoromethane# | 96.3 | | | |
| SURROGATE | #Toluene-d8# | 120 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 67 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 67 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 67 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 67 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 67 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 67 | 7 | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 330 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 67 | 3 | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 67 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 330 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 67 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 330 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 67 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 67 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 67 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 67 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 67 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 67 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 67 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 330 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 330 | 7 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 330 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 330 | 5 | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 330 | 5Z | 50 |
| 71-43-2 | Benzene | Not Detected | 67 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 67 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 67 | 7 | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 67 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 67 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 270 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 67 | 7 | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 67 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 67 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 330 | 7 | 50 |
| 67-66-3 | Chloroform | Not Detected | 67 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80982 M-1S

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 330 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 67 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 67 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 330 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 67 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 67 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 330 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 270 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 330 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 67 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 330 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 330 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 67 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 67 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 67 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 330 | X 5 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 67 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 67 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 67 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 67 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 67 | | 50 |
| 100-42-5 | Styrene | Not Detected | 67 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 67 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3300 | 5 3 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 330 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 67 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 330 | 5 | 50 |
| 108-88-3 | Toluene | Not Detected | 67 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 67 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 67 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 330 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 67 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 67 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 67 | 7Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80982 M-1S

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 86.4 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80983 M-2S

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.14 | | | |
| SURROGATE | #Bromofluorobenzene# | 113 | | | |
| SURROGATE | #Dibromofluoromethane# | 113 | | | |
| SURROGATE | #Toluene-d8# | 115 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 54 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 54 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 54 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 54 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 54 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 54 | 7 | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 270 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 54 | 3 | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 54 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 270 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 54 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 270 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 54 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 54 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 54 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 54 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 54 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 54 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 54 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 270 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 270 | 7 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 270 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 270 | 5 | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 270 | 5Z | 50 |
| 71-43-2 | Benzene | Not Detected | 54 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 54 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 54 | 7 | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 54 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 54 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 220 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 54 | 7 | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 54 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 54 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 270 | 7 | 50 |
| 67-66-3 | Chloroform | Not Detected | 54 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80983 M-2S

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 270 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 54 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 54 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 270 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 54 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 54 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 270 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 220 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 270 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 54 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 270 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 270 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 54 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 54 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 54 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 270 | X 5 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 54 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 54 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 54 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 54 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 54 | | 50 |
| 100-42-5 | Styrene | Not Detected | 54 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 54 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2700 | 5 3 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 270 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 54 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 270 | 5 | 50 |
| 108-88-3 | Toluene | Not Detected | 54 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 54 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 54 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 270 | Z | 50 |
| 79-01-6 | Trichloroethylene | 130 | 54 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 54 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 54 | 7Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80983 M-2S

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 95.1 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80984 M-3S

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.45 | | | |
| SURROGATE | #Bromofluorobenzene# | 123 | | | |
| SURROGATE | #Dibromofluoromethane# | 111 | | | |
| SURROGATE | #Toluene-d8# | 124 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 60 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 60 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 60 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 60 | 7 | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 60 | 3 | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 780 | 60 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1600 | 60 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 60 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 60 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 60 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 60 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 510 | 60 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 60 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 60 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | 7 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | 5 | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | 5Z | 50 |
| 71-43-2 | Benzene | 240 | 60 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 60 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 60 | 7 | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 60 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 60 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | 10000 | 60 | 7 | 50 |
| 56-23-5 | Carbon tetrachloride | 20000 | 600 | | 500 |
| 108-90-7 | Chlorobenzene | Not Detected | 60 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | 7 | 50 |
| 67-66-3 | Chloroform | 18000 | 600 | | 500 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80984 M-3S

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 60 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 60 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | 120 | 60 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 60 | | 50 |
| 108383,106423 | m & p - Xylene | 190 | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 60 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 60 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X 5 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 60 | | 50 |
| 103-65-1 | n-Propylbenzene | 180 | 60 | | 50 |
| 95-47-6 | o-Xylene | 100 | 60 | | 50 |
| 99-87-6 | p-Isopropyl toluene | 200 | 60 | | 50 |
| 135-98-8 | sec-Butylbenzene | 160 | 60 | | 50 |
| 100-42-5 | Styrene | Not Detected | 60 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 60 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | 5 3 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 60 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | 5 | 50 |
| 108-88-3 | Toluene | 330 | 60 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 60 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 60 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 60 | 7Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80984 M-3S

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.7 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80985 SS68-19.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.56 | | | |
| SURROGATE | #Bromofluorobenzene# | 118 | | | |
| SURROGATE | #Dibromofluoromethane# | 105 | | | |
| SURROGATE | #Toluene-d8# | 125 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 61 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 61 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 61 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 61 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 61 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 61 | 7 | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 61 | 3 | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 61 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 61 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 61 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 61 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 61 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 61 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 61 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 61 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 61 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | 7 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | 5 | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | 5Z | 50 |
| 71-43-2 | Benzene | Not Detected | 61 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 61 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 61 | 7 | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 61 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 61 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 61 | 7 | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 61 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 61 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | 7 | 50 |
| 67-66-3 | Chloroform | 69 | 61 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80985 SS68-19.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 61 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 61 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 61 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 61 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 61 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 61 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 61 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 61 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X 5 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 61 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 61 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 61 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 61 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 61 | | 50 |
| 100-42-5 | Styrene | Not Detected | 61 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 61 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | 5 3 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 61 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | 5 | 50 |
| 108-88-3 | Toluene | Not Detected | 61 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 61 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 61 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 61 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 61 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 61 | 7Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80985 SS68-19.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 92.5 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80986 SS5-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 8.60 | | | |
| SURROGATE | #Bromofluorobenzene# | 154 | | | |
| SURROGATE | #Dibromofluoromethane# | 114 | | | |
| SURROGATE | #Toluene-d8# | 157 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 73 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 73 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 73 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 73 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 73 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 73 | 7 | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 370 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 73 | 3 | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 73 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 370 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 73 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 370 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 73 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 73 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 73 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 73 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 73 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 73 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 73 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 370 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 370 | 7 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 370 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1500 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 370 | 5 | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 370 | 5Z | 50 |
| 71-43-2 | Benzene | Not Detected | 73 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 73 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 73 | 7 | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 73 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 73 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 290 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 73 | 7 | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 73 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 73 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 370 | 7 | 50 |
| 67-66-3 | Chloroform | Not Detected | 73 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80986 SS5-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 370 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 73 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 73 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 370 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 73 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 73 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 370 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 290 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 370 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 73 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 370 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 370 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 73 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 150 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 73 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 150 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 73 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 370 | X 5 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 73 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 73 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 73 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 73 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 73 | | 50 |
| 100-42-5 | Styrene | Not Detected | 73 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 73 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3700 | 5 3 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 370 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 73 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 370 | 5 | 50 |
| 108-88-3 | Toluene | Not Detected | 73 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 73 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 73 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 370 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 73 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 73 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 73 | 7Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80986 SS5-2.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 87.9 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80987 SS5-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.19 | | | |
| SURROGATE | #Bromofluorobenzene# | 129 | | | |
| SURROGATE | #Dibromofluoromethane# | 108 | | | |
| SURROGATE | #Toluene-d8# | 133 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 64 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 64 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 64 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 64 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 64 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 64 | 7 | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 320 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 64 | 3 | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 64 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 320 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 64 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 320 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 64 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 64 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 64 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 64 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 64 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 64 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 64 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 320 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 320 | 7 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 320 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 320 | 5 | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 320 | 5Z | 50 |
| 71-43-2 | Benzene | Not Detected | 64 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 64 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 64 | 7 | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 64 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 64 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 260 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 64 | 7 | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 64 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 64 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 320 | 7 | 50 |
| 67-66-3 | Chloroform | Not Detected | 64 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80987 SS5-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 320 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 64 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 64 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 320 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 64 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 64 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 320 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 260 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 320 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 64 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 320 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 320 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 64 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 64 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 64 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 320 | X 5 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 64 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 64 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 64 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 64 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 64 | | 50 |
| 100-42-5 | Styrene | Not Detected | 64 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 64 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3200 | 5 3 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 320 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 64 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 320 | 5 | 50 |
| 108-88-3 | Toluene | Not Detected | 64 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 64 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 64 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 320 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 64 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 64 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 64 | 7Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80987 SS5-5.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.6 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80988 SS5-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.60 | | | |
| SURROGATE | #Bromofluorobenzene# | 125 | | | |
| SURROGATE | #Dibromofluoromethane# | 106 | | | |
| SURROGATE | #Toluene-d8# | 126 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 64 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 64 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 64 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 64 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 64 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 64 | 7 | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 320 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 64 | 3 | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 64 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 320 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 64 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 320 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 64 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 64 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 64 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 64 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 64 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 64 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 64 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 320 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 320 | 7 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 320 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 320 | 5 | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 320 | 5Z | 50 |
| 71-43-2 | Benzene | Not Detected | 64 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 64 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 64 | 7 | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 64 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 64 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 250 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 64 | 7 | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 64 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 64 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 320 | 7 | 50 |
| 67-66-3 | Chloroform | Not Detected | 64 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80988 SS5-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 320 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 64 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 64 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 320 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 64 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 64 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 320 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 250 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 320 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 64 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 320 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 320 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 64 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 64 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 64 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 320 | X 5 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 64 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 64 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 64 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 64 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 64 | | 50 |
| 100-42-5 | Styrene | Not Detected | 64 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 64 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3200 | 5 3 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 320 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 64 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 320 | 5 | 50 |
| 108-88-3 | Toluene | Not Detected | 64 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 64 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 64 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 320 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 64 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 64 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 64 | 7Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80988 SS5-7.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 89.9 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80989 SS5-5.0 MS

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.19 | | | |
| SURROGATE | #Bromofluorobenzene# | 123 | | | |
| SURROGATE | #Dibromofluoromethane# | 96.5 | | | |
| SURROGATE | #Toluene-d8# | 127 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 3100 | 64 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | 3400 | 64 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2200 | 64 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | 2900 | 64 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | 3300 | 64 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | 3500 | 64 | 7 | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3000 | 320 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | 2500 | 64 | 3 | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 3500 | 64 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3300 | 320 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 3600 | 64 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 2500 | 320 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | 2800 | 64 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | 3200 | 64 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | 3100 | 64 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | 3200 | 64 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 3600 | 64 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | 3300 | 64 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | 3300 | 64 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | 2500 | 320 | | 50 |
| 591-78-6 | 2-Hexanone | 3400 | 320 | 7 | 50 |
| 91-57-6 | 2-Methylnaphthalene | 3000 | 320 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | 3200 | 1300 | 6 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 2400 | 320 | 5 | 50 |
| 107-13-1 | Acrylonitrile | 2600 | 320 | 5Z | 50 |
| 71-43-2 | Benzene | 3400 | 64 | | 50 |
| 108-86-1 | Bromobenzene | 3200 | 64 | | 50 |
| 74-97-5 | Bromochloromethane | 3100 | 64 | 7 | 50 |
| 75-27-4 | Bromodichloromethane | 3100 | 64 | | 50 |
| 75-25-2 | Bromoform | 2700 | 64 | | 50 |
| 74-83-9 | Bromomethane | 3200 | 260 | 7 | 50 |
| 75-15-0 | Carbon disulfide | 3600 | 64 | 4 7 | 50 |
| 56-23-5 | Carbon tetrachloride | 3300 | 64 | | 50 |
| 108-90-7 | Chlorobenzene | 3300 | 64 | | 50 |
| 75-00-3 | Chloroethane | 1700 | 320 | 6 7 | 50 |
| 67-66-3 | Chloroform | 3300 | 64 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80989 SS5-5.0 MS

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 3200 | 320 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | 3400 | 64 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | 3200 | 64 | | 50 |
| 110-82-7 | Cyclohexane | 3500 | 320 | | 50 |
| 124-48-1 | Dibromochloromethane | 2900 | 64 | | 50 |
| 74-95-3 | Dibromomethane | 2900 | 64 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | 3200 | 320 | | 50 |
| 60-29-7 | Diethyl ether | 3100 | 260 | | 50 |
| 108-20-3 | Diisopropyl Ether | 3600 | 320 | | 50 |
| 100-41-4 | Ethylbenzene | 3300 | 64 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | 3000 | 320 | | 50 |
| 67-72-1 | Hexachloroethane | 3500 | 320 | | 50 |
| 98-82-8 | Isopropylbenzene | 3300 | 64 | | 50 |
| 108383,106423 | m & p - Xylene | 6800 | 130 | | 50 |
| 74-88-4 | Methyl iodide | 3700 | 64 | | 50 |
| 75-09-2 | Methylene chloride | 3300 | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | 2700 | 64 | | 50 |
| 91-20-3 | Naphthalene | 2800 | 320 | X 5 | 50 |
| 104-51-8 | n-Butylbenzene | 3700 | 64 | | 50 |
| 103-65-1 | n-Propylbenzene | 3400 | 64 | | 50 |
| 95-47-6 | o-Xylene | 3400 | 64 | | 50 |
| 99-87-6 | p-Isopropyl toluene | 3600 | 64 | 4 | 50 |
| 135-98-8 | sec-Butylbenzene | 3700 | 64 | 4 | 50 |
| 100-42-5 | Styrene | 3400 | 64 | | 50 |
| 98-06-6 | tert-Butylbenzene | 3600 | 64 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | 1400 | 3200 | 5 3 | 50 |
| 994-05-8 | tertiaryAmylmethylether | 2800 | 320 | | 50 |
| 127-18-4 | Tetrachloroethylene | 3400 | 64 | | 50 |
| 109-99-9 | Tetrahydrofuran | 2500 | 320 | 5 | 50 |
| 108-88-3 | Toluene | 3400 | 64 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | 3500 | 64 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | 2800 | 64 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 2300 | 320 | Z | 50 |
| 79-01-6 | Trichloroethylene | 3500 | 64 | | 50 |
| 75-69-4 | Trichlorofluoromethane | 3600 | 64 | 6 | 50 |
| 75-01-4 | Vinyl chloride | 3300 | 64 | 7Z | 50 |

Sample is a matrix spike.
Compounds spiked at 2959 ug/Kg, except tertiary butyl alcohol spiked at 14800 ug/Kg & m&p-xylene spiked at 5917 ug/Kg.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80989 SS5-5.0 MS

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.6 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB80990 SS5-5.0 MSD

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.19 | | | |
| SURROGATE | #Bromofluorobenzene# | 125 | | | |
| SURROGATE | #Dibromofluoromethane# | 103 | | | |
| SURROGATE | #Toluene-d8# | 130 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 3100 | 64 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | 3300 | 64 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2300 | 64 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | 2800 | 64 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | 4000 | 64 | 4 | 50 |
| 75-35-4 | 1,1-Dichloroethylene | 4500 | 64 | 4 7 | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2900 | 320 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | 2400 | 64 | 3 | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 3500 | 64 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3200 | 320 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 3600 | 64 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 2500 | 320 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | 2900 | 64 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | 3200 | 64 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | 3000 | 64 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | 3300 | 64 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 3600 | 64 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | 3400 | 64 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | 3300 | 64 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | 2700 | 320 | | 50 |
| 591-78-6 | 2-Hexanone | 2300 | 320 | 7 | 50 |
| 91-57-6 | 2-Methylnaphthalene | 2800 | 320 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | 3800 | 1300 | 6 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 2200 | 320 | 5 3 | 50 |
| 107-13-1 | Acrylonitrile | 3100 | 320 | 5Z | 50 |
| 71-43-2 | Benzene | 3400 | 64 | | 50 |
| 108-86-1 | Bromobenzene | 3100 | 64 | | 50 |
| 74-97-5 | Bromochloromethane | 3800 | 64 | 7 | 50 |
| 75-27-4 | Bromodichloromethane | 3100 | 64 | | 50 |
| 75-25-2 | Bromoform | 2600 | 64 | | 50 |
| 74-83-9 | Bromomethane | 4000 | 260 | 7 | 50 |
| 75-15-0 | Carbon disulfide | 4400 | 64 | 4 7 | 50 |
| 56-23-5 | Carbon tetrachloride | 3200 | 64 | | 50 |
| 108-90-7 | Chlorobenzene | 3300 | 64 | | 50 |
| 75-00-3 | Chloroethane | 3800 | 320 | 6 7 | 50 |
| 67-66-3 | Chloroform | 4000 | 64 | 4 | 50 |

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

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ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80990 SS5-5.0 MSD

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 4000 | 320 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | 4100 | 64 | 4 | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | 3200 | 64 | | 50 |
| 110-82-7 | Cyclohexane | 4200 | 320 | 4 | 50 |
| 124-48-1 | Dibromochloromethane | 2900 | 64 | | 50 |
| 74-95-3 | Dibromomethane | 2800 | 64 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | 3800 | 320 | | 50 |
| 60-29-7 | Diethyl ether | 3700 | 260 | | 50 |
| 108-20-3 | Diisopropyl Ether | 4300 | 320 | 4 | 50 |
| 100-41-4 | Ethylbenzene | 3300 | 64 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | 3500 | 320 | | 50 |
| 67-72-1 | Hexachloroethane | 3600 | 320 | | 50 |
| 98-82-8 | Isopropylbenzene | 3300 | 64 | | 50 |
| 108383,106423 | m & p - Xylene | 6800 | 130 | | 50 |
| 74-88-4 | Methyl iodide | 4700 | 64 | 4 | 50 |
| 75-09-2 | Methylene chloride | 4000 | 130 | 4 | 50 |
| 1634-04-4 | Methyltertiarybutylether | 3100 | 64 | | 50 |
| 91-20-3 | Naphthalene | 2800 | 320 | X 5 | 50 |
| 104-51-8 | n-Butylbenzene | 3700 | 64 | | 50 |
| 103-65-1 | n-Propylbenzene | 3300 | 64 | | 50 |
| 95-47-6 | o-Xylene | 3400 | 64 | | 50 |
| 99-87-6 | p-Isopropyl toluene | 3600 | 64 | 4 | 50 |
| 135-98-8 | sec-Butylbenzene | 3700 | 64 | 4 | 50 |
| 100-42-5 | Styrene | 3400 | 64 | | 50 |
| 98-06-6 | tert-Butylbenzene | 3700 | 64 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | 1400 | 3200 | 5 3 | 50 |
| 994-05-8 | tertiaryAmylmethylether | 3300 | 320 | | 50 |
| 127-18-4 | Tetrachloroethylene | 3300 | 64 | | 50 |
| 109-99-9 | Tetrahydrofuran | 2700 | 320 | 5 | 50 |
| 108-88-3 | Toluene | 3400 | 64 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | 4100 | 64 | 4 | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | 2800 | 64 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 2300 | 320 | Z | 50 |
| 79-01-6 | Trichloroethylene | 3400 | 64 | | 50 |
| 75-69-4 | Trichlorofluoromethane | 3600 | 64 | 6 | 50 |
| 75-01-4 | Vinyl chloride | 4200 | 64 | 7Z | 50 |

Sample is a matrix spike.
Compounds spiked at 2959 ug/Kg, except tertiary butyl alcohol spiked at 14800 ug/Kg & m&p-xylene spiked at 5917 ug/Kg.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80990 SS5-5.0 MSD

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.6 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80991 SS5-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.44 | | | |
| SURROGATE | #Bromofluorobenzene# | 117 | | | |
| SURROGATE | #Dibromofluoromethane# | 105 | | | |
| SURROGATE | #Toluene-d8# | 120 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 60 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 60 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 60 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 60 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 60 | 7 | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 60 | 3 | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 60 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 60 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 60 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 60 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 60 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 60 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 60 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 60 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 60 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | 7 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X 5 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | 5 | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | 5Z | 50 |
| 71-43-2 | Benzene | Not Detected | 60 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 60 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 60 | 7 | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 60 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 60 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 60 | 7 | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 60 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 60 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | 7 | 50 |
| 67-66-3 | Chloroform | Not Detected | 60 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80991 SS5-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** PCR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 60 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 60 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 60 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 60 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 60 | | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 60 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X 5 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 60 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 60 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 60 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 60 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 60 | | 50 |
| 100-42-5 | Styrene | Not Detected | 60 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 60 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | 5 3 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 60 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | 5 | 50 |
| 108-88-3 | Toluene | Not Detected | 60 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 60 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 60 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 60 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 60 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 60 | 7Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80991 SS5-10.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.8 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

| Qualifier Code | Qualifier Description |
|---|---|
| 1 | Result(s) and RL(s) are estimated due to low surrogate recovery. |
| 2 | Result is estimated due to high surrogate recovery. |
| 3 | Result(s) and RL(s) are estimated due to low matrix spike recovery. |
| 4 | Result is estimated due to high matrix spike recovery. |
| 5 | Result and RL are estimated due to low continuing calibration standard criteria failure. |
| 6 | Result is estimated due to high continuing calibration standard criteria failure. |
| 7 | Result(s) and RL(s) are estimated due to poor precision. |
| 8 | Result(s) and RL(s) are estimated due to low recovery of batch QC. |
| 9 | Result outside QC acceptance criteria. |
| A | Value reported is the mean of two or more determinations. |
| C | Value calculated from other independent parameters. |
| D | Analyte value quantified from a dilution(s); reporting limit (RL) raised. |
| E | Result is estimated due to high recovery of batch QC. |
| F | Amenable cyanide was not analyzed due to low level of total cyanide. |
| G | Result and RL are estimated due to initial calibration standard criteria failure. |
| H | Recommended laboratory holding time was exceeded. |
| I | Dilution required due to matrix interference; reporting limit (RL) raised. |
| J | Analyte was positively identified. Value is an estimate. |
| JA | Result is estimated due to multiple Aroclors present. |
| JC | Result is estimated since confirmation analysis did not meet acceptance criteria |
| JD | Due to severe degradation, specific Aroclor identification is difficult and quantitation is estimated. |
| K | RL(s) raised due to matrix interferences. |
| KR | RL(s) raised due to low sample volume submitted. |
| KS | RL(s) raised due to low total solids. |
| KW | RL(s) raised due to light sample weight. |
| LB | Reported library search compounds are tentative identifications with estimated concentrations. |
| M | The level of the method preparation blank (MPB) is reported in the qualifier column. |
| N | Non-homogeneous sample made analysis of sample questionable. |
| O | Result and RL estimated due to analysis from an open vial. |
| P | Recommended sample collection/preservation technique not used; reported result(s) is an estimate. |
| PI | Possible interference may have affected the accuracy of the laboratory result |
| Q | Quantity of sample insufficient to perform analyses requested. |
| R | Result confirmed by re-extraction and analysis. |
| S | Supernatant analyzed. |
| T | Reported value is less than the reporting limit (RL). Result is estimated. |
| V | Value not available due to dilution. |
| W | Reported value is less than the method detection limit (MDL). |
| X | Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200°C. 2-Methylnaphthalene & naphthalene have boiling points above 200°C and are better suited to analysis by methods 8270 or 625 as semivolatile organics. |
| Z | Result reported below the RL to meet the TDL in RRD Op Memo 2 (10/22/04) multiplied by applicable dilution factor. |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Systems Mgmt Unit: George Krisztian

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September 09, 2011

Mr. Joseph Walczak
MDEQ
530 W. Allegan, 3rd Floor, South
Lansing, MI 48933

RE: Trace Project T11H306
MDEQ Site 456753 Former Acme Industries

Dear Mr. Walczak:

Enclosed are the analytical results that represent the completed report for the above project. All analyses were completed at Trace Analytical Laboratories, Inc.

The samples were received on 8/29/2011 1:40:00 PM , in good condition, correctly labeled and properly preserved. Any problems encountered during sample receipt are addressed in the enclosed Sample Log-In Checklist.
Every practical effort was made to meet the quality control requirements of each analytical method and the reporting limit specifications of the project. The analytical data associated with this project has been reviewed for accuracy, precision, and completeness. Methods used for analyses are indicated on analytical reports. A Statement of Data Qualifications Section is provided for any data that required qualification.

Ms. Gina M. Roe has reviewed the QA/QC results associated with the analysis of these samples. To the best knowledge of the signer, the QA/QC data are complete and accurate. The review was completed on September 09, 2011.

If you have questions or require further information, please contact me at 231.773.5998 or by email at groe@trace-labs.com.

Sincerely,

Gina M. Roe
Project Manager

Enclosures

c: Mr. Paul French
Envirologic, Inc.
2960 Interstate Parkway
Kalamazoo, MI 49048

ACCREDITED IN ACCORDANCE WITH nelac

NJDEP Accreditation No. MI008 PADEP Accreditation No. 68-04471

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TRACE ID T11H306
MDEQ Site 456753 Former Acme Industries

## CROSS REFERENCE TABLE

| MDEQ ID | TRACE ID |
|---|---|
| TB-4 | T11H306-01 |
| SS-5 12.5 | T11H306-02 |
| SS-5 15.0 | T11H306-03 |
| SS-5 17.5 | T11H306-04 |
| SS-5 20.0 | T11H306-05 |
| SS-56 2.5 | T11H306-06 |
| SS-56 5.0 | T11H306-07 |
| SS-56 7.5 | T11H306-08 |
| SS-56 10.0 | T11H306-09 |
| SS-56 12.5 | T11H306-10 |
| SS-56 15.0 | T11H306-11 |
| SS-56 17.5 | T11H306-12 |
| SS-56 20.0 | T11H306-13 |
| SS-57 2.5 | T11H306-14 |
| SS-57 5.0 | T11H306-15 |
| SS-57 7.5 | T11H306-16 |
| SS-57 10.0 | T11H306-17 |
| SS-57 12.5 | T11H306-18 |
| SS-57 15.0 | T11H306-19 |
| SS-57 17.5 | T11H306-20 |
| M-4s | T11H306-21 |
| M-5S | T11H306-22 |
| M-6S | T11H306-23 |
| SS-3 2.5 | T11H306-24 |
| SS-3 5.0 | T11H306-25 |
| SS-3 7.5 | T11H306-26 |
| SS-3 10.0 | T11H306-27 |

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SS-3 12.0 T11H306-28


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TRACE ID: T11H306
MDEQ Site 456753 Former Acme Industries

## QUALIFIER KEY

### DEFINITIONS

| | |
|---|---|
| <, ND or U | Indicates the compound was analyzed for but not detected. |
| * | Indicates a result that exceeds its associated MCL or Surrogate control limits. |
| N | Indicates that the compound has not been evaluated by NELAC. |
| NA | Indicates that the compound is not available. |
| RDL | Reporting Detection Limit |
| MCL | Maximum Contamination Limit |
| TIC | Tentatively Identified Compound |
| LCS | Laboratory Control Sample |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| RPD | Relative Percent Difference |

## ANALYTICAL AND QUALITY CONTROL RESULTS
## STATEMENT OF DATA QUALIFICATIONS

### DATA QUALIFIERS

**Trace ID: T025036-BS1**
***Analysis: EPA 8260B***

| | |
|---|---|
| **4-Bromofluorobenzene** | Note 312.5 : The surrogate recovery was out of control high when compared to control limits. Because all the spike recoveries are acceptable, no data require qualification. |

**Trace ID: T025057-BS1**
***Analysis: EPA 8260B***

| | |
|---|---|
| **4-Bromofluorobenzene** | Note 305 : The surrogate recovery was out of control when compared to the control limits. Because all spike recoveries are in control, no data require qualification. |

**Trace ID: T025057-MS1**
***Analysis: EPA 8260B***

| | |
|---|---|
| **4-Bromofluorobenzene** | Note 305 : The surrogate recovery was out of control when compared to the control limits. Because all spike recoveries are in control, no data require qualification. |
| **Benzene** | Note 230 : The MS and MSD were out of control high. Because there was no positive result in the non-spiked version of the sample, no data require qualification. |
| **Chlorobenzene** | Note 230 : The MS and MSD were out of control high. Because there was no positive result in the non-spiked version of the sample, no data require qualification. |

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| | |
|---|---|
| **Toluene** | Note 230 : The MS and MSD were out of control high. Because there was no positive result in the non-spiked version of the sample, no data require qualification. |
| **Trichloroethene** | Note 230 : The MS and MSD were out of control high. Because there was no positive result in the non-spiked version of the sample, no data require qualification. |

**Trace ID: T025057-MSD1**
***Analysis: EPA 8260B***

| | |
|---|---|
| **4-Bromofluorobenzene** | Note 305 : The surrogate recovery was out of control when compared to the control limits. Because all spike recoveries are in control, no data require qualification. |
| **Benzene** | Note 230 : The MS and MSD were out of control high. Because there was no positive result in the non-spiked version of the sample, no data require qualification. |
| **Chlorobenzene** | Note 230 : The MS and MSD were out of control high. Because there was no positive result in the non-spiked version of the sample, no data require qualification. |
| **Toluene** | Note 230 : The MS and MSD were out of control high. Because there was no positive result in the non-spiked version of the sample, no data require qualification. |
| **Trichloroethene** | Note 230 : The MS and MSD were out of control high. Because there was no positive result in the non-spiked version of the sample, no data require qualification. |

**Trace ID: T025112-BS1**
***Analysis: EPA 8260B***

| | |
|---|---|
| **4-Bromofluorobenzene** | Note 305 : The surrogate recovery was out of control when compared to the control limits. Because all spike recoveries are in control, no data require qualification. |

**Trace ID: T025112-MS1**
***Analysis: EPA 8260B***

| | |
|---|---|
| **4-Bromofluorobenzene** | Note 312.5 : The surrogate recovery was out of control high when compared to control limits. Because all the spike recoveries are acceptable, no data require qualification. |

**Trace ID: T025112-MSD1**
***Analysis: EPA 8260B***

| | |
|---|---|
| **4-Bromofluorobenzene** | Note 312.5 : The surrogate recovery was out of control high when compared to control limits. Because all the spike recoveries are acceptable, no data require qualification. |
| **Benzene** | Note 230 : The MS and MSD were out of control high. Because there was no positive result in the non-spiked version of the sample, no data require qualification. |
| **Chlorobenzene** | Note 230 : The MS and MSD were out of control high. Because there was no positive result in the non-spiked version of the sample, no data require qualification. |
| **Trichloroethene** | Note 230 : The MS and MSD were out of control high. Because there was no positive result in the non-spiked version of the sample, no data require qualification. |


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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-01 | Date Collected: 08/25/11 06:30 | Matrix: Soil
Sample ID: TB-4 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025036* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg wet | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chloromethane | <250 | ug/kg wet | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Vinyl chloride | <40 | ug/kg wet | 40 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Bromomethane | <200 | ug/kg wet | 200 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chloroethane | <250 | ug/kg wet | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Diethyl ether | <200 | ug/kg wet | 200 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Tert-butyl alcohol | <2500 | ug/kg wet | 2500 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,1-Dichloroethene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Acetone | <1000 | ug/kg wet | 1000 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Iodomethane | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Carbon disulfide | <250 | ug/kg wet | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Methyl-tert-butyl ether | <250 | ug/kg wet | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Methylene chloride | <250 | ug/kg wet | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Acrylonitrile | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| trans-1,2-Dichloroethene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1-Dichloroethane | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Diisopropyl Ether | <250 | ug/kg wet | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 2-Butanone | <750 | ug/kg wet | 750 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| cis-1,2-Dichloroethene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Butyl Ethyl Ether | <250 | ug/kg wet | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Tetrahydrofuran | <1000 | ug/kg wet | 1000 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Chloroform | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,1-Trichloroethane | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Carbon tetrachloride | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Benzene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Amyl Methyl Ether | <250 | ug/kg wet | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2-Dichloroethane | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Cyclohexane | <250 | ug/kg wet | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Trichloroethene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dichloropropane | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Dibromomethane | <250 | ug/kg wet | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| cis-1,3-Dichloropropene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 4-Methyl-2-pentanone | <2500 | ug/kg wet | 2500 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Toluene | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-01 | Date Collected: 08/25/11 06:30 | Matrix: Soil
Sample ID: TB-4 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,2-Trichloroethane | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Tetrachloroethene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 2-Hexanone | <2500 | ug/kg wet | 2500 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chlorobenzene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Ethylbenzene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| m,p-Xylene | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| o-Xylene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Xylenes, total | <150 | ug/kg wet | 150 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Styrene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromoform | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg wet | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromobenzene | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Butyl Benzene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| sec-Butylbenzene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| n-Butylbenzene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,3-Trimethylbenzene | <50 | ug/kg wet | 50 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Hexachloroethane | <100 | ug/kg wet | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg wet | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Naphthalene | <330 | ug/kg wet | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg wet | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg wet | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 71 | % | 68-133 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Toluene-d8 | 91 | % | 75-120 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-01 | Date Collected: 08/25/11 06:30 | Matrix: Soil
Sample ID: TB-4 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 115 | % | 69-119 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 112 | % | 72-127 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-02 | Date Collected: 08/25/11 10:00 | Matrix: Soil
Sample ID: SS-5 12.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025036* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Vinyl chloride | <45 | ug/kg dry | 45 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Diethyl ether | <230 | ug/kg dry | 230 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Tert-butyl alcohol | <2800 | ug/kg dry | 2800 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,1-Dichloroethene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Carbon disulfide | <280 | ug/kg dry | 280 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Methyl-tert-butyl ether | <280 | ug/kg dry | 280 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Acrylonitrile | <110 | ug/kg dry | 110 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| trans-1,2-Dichloroethene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1-Dichloroethane | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Diisopropyl Ether | <280 | ug/kg dry | 280 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 2-Butanone | <850 | ug/kg dry | 850 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| cis-1,2-Dichloroethene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Butyl Ethyl Ether | <280 | ug/kg dry | 280 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Tetrahydrofuran | <1100 | ug/kg dry | 1100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Chloroform | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,1-Trichloroethane | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Carbon tetrachloride | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Benzene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Amyl Methyl Ether | <280 | ug/kg dry | 280 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2-Dichloroethane | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Cyclohexane | <280 | ug/kg dry | 280 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Trichloroethene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dichloropropane | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| cis-1,3-Dichloropropene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 4-Methyl-2-pentanone | <2800 | ug/kg dry | 2800 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-02 | Date Collected: 08/25/11 10:00 | Matrix: Soil
Sample ID: SS-5 12.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,2-Trichloroethane | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Tetrachloroethene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 2-Hexanone | <2800 | ug/kg dry | 2800 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chlorobenzene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Ethylbenzene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| m,p-Xylene | <110 | ug/kg dry | 110 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| o-Xylene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Xylenes, total | <170 | ug/kg dry | 170 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Styrene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Butyl Benzene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| sec-Butylbenzene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| n-Butylbenzene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,3-Trimethylbenzene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <110 | ug/kg dry | 110 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 74 | % | 68-133 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Toluene-d8 | 91 | % | 75-120 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-02 | Date Collected: 08/25/11 10:00 | Matrix: Soil
Sample ID: SS-5 12.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 114 | % | 69-119 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 110 | % | 72-127 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **95** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-03 | Date Collected: 08/25/11 10:10 | Matrix: Soil
Sample ID: SS-5 15.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025036* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Vinyl chloride | <49 | ug/kg dry | 49 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Diethyl ether | <240 | ug/kg dry | 240 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Tert-butyl alcohol | <3000 | ug/kg dry | 3000 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,1-Dichloroethene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Carbon disulfide | <300 | ug/kg dry | 300 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Methyl-tert-butyl ether | <300 | ug/kg dry | 300 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| trans-1,2-Dichloroethene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1-Dichloroethane | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Diisopropyl Ether | <300 | ug/kg dry | 300 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 2-Butanone | <910 | ug/kg dry | 910 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| cis-1,2-Dichloroethene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Butyl Ethyl Ether | <300 | ug/kg dry | 300 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Chloroform | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,1-Trichloroethane | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Carbon tetrachloride | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Benzene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Amyl Methyl Ether | <300 | ug/kg dry | 300 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2-Dichloroethane | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Cyclohexane | <300 | ug/kg dry | 300 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Trichloroethene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dichloropropane | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| cis-1,3-Dichloropropene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 4-Methyl-2-pentanone | <3000 | ug/kg dry | 3000 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-03 | Date Collected: 08/25/11 10:10 | Matrix: Soil
Sample ID: SS-5 15.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,2-Trichloroethane | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Tetrachloroethene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 2-Hexanone | <3000 | ug/kg dry | 3000 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chlorobenzene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Ethylbenzene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| o-Xylene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Xylenes, total | <180 | ug/kg dry | 180 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Styrene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Butyl Benzene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| sec-Butylbenzene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| n-Butylbenzene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,3-Trimethylbenzene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 75 | % | 68-133 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Toluene-d8 | 90 | % | 75-120 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-03 | Date Collected: 08/25/11 10:10 | Matrix: Soil
Sample ID: SS-5 15.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 114 | % | 69-119 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 112 | % | 72-127 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **94** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-04 | Date Collected: 08/25/11 10:20 | Matrix: Soil
Sample ID: SS-5 17.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025036* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Vinyl chloride | <49 | ug/kg dry | 49 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Diethyl ether | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Tert-butyl alcohol | <3100 | ug/kg dry | 3100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,1-Dichloroethene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Carbon disulfide | <310 | ug/kg dry | 310 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Methyl-tert-butyl ether | <310 | ug/kg dry | 310 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| trans-1,2-Dichloroethene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1-Dichloroethane | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Diisopropyl Ether | <310 | ug/kg dry | 310 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 2-Butanone | <930 | ug/kg dry | 930 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| cis-1,2-Dichloroethene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Butyl Ethyl Ether | <310 | ug/kg dry | 310 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Chloroform | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,1-Trichloroethane | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Carbon tetrachloride | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Benzene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Amyl Methyl Ether | <310 | ug/kg dry | 310 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2-Dichloroethane | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Cyclohexane | <310 | ug/kg dry | 310 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Trichloroethene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dichloropropane | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| cis-1,3-Dichloropropene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 4-Methyl-2-pentanone | <3100 | ug/kg dry | 3100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-04 | Date Collected: 08/25/11 10:20 | Matrix: Soil
Sample ID: SS-5 17.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,2-Trichloroethane | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Tetrachloroethene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 2-Hexanone | <3100 | ug/kg dry | 3100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chlorobenzene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Ethylbenzene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| o-Xylene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Xylenes, total | <190 | ug/kg dry | 190 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Styrene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Butyl Benzene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| sec-Butylbenzene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| n-Butylbenzene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,3-Trimethylbenzene | <62 | ug/kg dry | 62 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 76 | % | 68-133 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Toluene-d8 | 91 | % | 75-120 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-04 | Date Collected: 08/25/11 10:20 | Matrix: Soil
Sample ID: SS-5 17.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 113 | % | 69-119 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 116 | % | 72-127 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **90** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-05 | Date Collected: 08/25/11 10:30 | Matrix: Soil
Sample ID: SS-5 20.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025036* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Vinyl chloride | <42 | ug/kg dry | 42 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Diethyl ether | <210 | ug/kg dry | 210 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Tert-butyl alcohol | <2600 | ug/kg dry | 2600 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,1-Dichloroethene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Carbon disulfide | <260 | ug/kg dry | 260 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Methyl-tert-butyl ether | <260 | ug/kg dry | 260 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Acrylonitrile | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| trans-1,2-Dichloroethene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1-Dichloroethane | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Diisopropyl Ether | <260 | ug/kg dry | 260 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 2-Butanone | <790 | ug/kg dry | 790 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| cis-1,2-Dichloroethene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Butyl Ethyl Ether | <260 | ug/kg dry | 260 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Tetrahydrofuran | <1000 | ug/kg dry | 1000 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Chloroform | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,1-Trichloroethane | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Carbon tetrachloride | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Benzene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Amyl Methyl Ether | <260 | ug/kg dry | 260 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2-Dichloroethane | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Cyclohexane | <260 | ug/kg dry | 260 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Trichloroethene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dichloropropane | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| cis-1,3-Dichloropropene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 4-Methyl-2-pentanone | <2600 | ug/kg dry | 2600 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-05 | Date Collected: 08/25/11 10:30 | Matrix: Soil
Sample ID: SS-5 20.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,2-Trichloroethane | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Tetrachloroethene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 2-Hexanone | <2600 | ug/kg dry | 2600 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chlorobenzene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Ethylbenzene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| m,p-Xylene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| o-Xylene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Xylenes, total | <160 | ug/kg dry | 160 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Styrene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Butyl Benzene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| sec-Butylbenzene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| n-Butylbenzene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,3-Trimethylbenzene | <52 | ug/kg dry | 52 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 68 | % | 68-133 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Toluene-d8 | 90 | % | 75-120 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-05 | Date Collected: 08/25/11 10:30 | Matrix: Soil
Sample ID: SS-5 20.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 112 | % | 69-119 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 117 | % | 72-127 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **98** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-06 | Date Collected: 08/25/11 13:20 | Matrix: Soil
Sample ID: SS-56 2.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025036* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Vinyl chloride | <46 | ug/kg dry | 46 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Diethyl ether | <230 | ug/kg dry | 230 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Tert-butyl alcohol | <2900 | ug/kg dry | 2900 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,1-Dichloroethene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Carbon disulfide | <290 | ug/kg dry | 290 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Methyl-tert-butyl ether | <290 | ug/kg dry | 290 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Acrylonitrile | <110 | ug/kg dry | 110 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| trans-1,2-Dichloroethene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1-Dichloroethane | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Diisopropyl Ether | <290 | ug/kg dry | 290 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 2-Butanone | <860 | ug/kg dry | 860 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| cis-1,2-Dichloroethene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Butyl Ethyl Ether | <290 | ug/kg dry | 290 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Tetrahydrofuran | <1100 | ug/kg dry | 1100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| **Chloroform** | **260** | **ug/kg dry** | **57** | **50** | **08/30/11** | **jq** | **08/30/11** | **jq** | | |
| 1,1,1-Trichloroethane | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| **Carbon tetrachloride** | **190** | **ug/kg dry** | **57** | **50** | **08/30/11** | **jq** | **08/30/11** | **jq** | | |
| Benzene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Amyl Methyl Ether | <290 | ug/kg dry | 290 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2-Dichloroethane | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Cyclohexane | <290 | ug/kg dry | 290 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| **Trichloroethene** | **190** | **ug/kg dry** | **57** | **50** | **08/30/11** | **jq** | **08/30/11** | **jq** | | |
| 1,2-Dichloropropane | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| cis-1,3-Dichloropropene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 4-Methyl-2-pentanone | <2900 | ug/kg dry | 2900 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| **Toluene** | **180** | **ug/kg dry** | **100** | **50** | **08/30/11** | **jq** | **08/30/11** | **jq** | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-06 | Date Collected: 08/25/11 13:20 | Matrix: Soil
Sample ID: SS-56 2.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,2-Trichloroethane | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Tetrachloroethene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 2-Hexanone | <2900 | ug/kg dry | 2900 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chlorobenzene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| **Ethylbenzene** | **71** | **ug/kg dry** | **57** | **50** | **08/30/11** | **jq** | **08/30/11** | **jq** | | |
| **m,p-Xylene** | **300** | **ug/kg dry** | **110** | **50** | **08/30/11** | **jq** | **08/30/11** | **jq** | N | |
| **o-Xylene** | **130** | **ug/kg dry** | **57** | **50** | **08/30/11** | **jq** | **08/30/11** | **jq** | N | |
| **Xylenes, total** | **430** | **ug/kg dry** | **170** | **50** | **08/30/11** | **jq** | **08/30/11** | **jq** | N | |
| Styrene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Butyl Benzene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| **1,2,4-Trimethylbenzene** | **150** | **ug/kg dry** | **100** | **50** | **08/30/11** | **jq** | **08/30/11** | **jq** | | |
| sec-Butylbenzene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| n-Butylbenzene | <57 | ug/kg dry | 57 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| **1,2,3-Trimethylbenzene** | **59** | **ug/kg dry** | **57** | **50** | **08/30/11** | **jq** | **08/30/11** | **jq** | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <110 | ug/kg dry | 110 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 81 | % | 68-133 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Toluene-d8 | 91 | % | 75-120 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-06 | Date Collected: 08/25/11 13:20 | Matrix: Soil
Sample ID: SS-56 2.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 114 | % | 69-119 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 118 | % | 72-127 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **91** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-07 | Date Collected: 08/25/11 13:30 | Matrix: Soil
Sample ID: SS-56 5.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025036* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Vinyl chloride | <49 | ug/kg dry | 49 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Diethyl ether | <240 | ug/kg dry | 240 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Tert-butyl alcohol | <3000 | ug/kg dry | 3000 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,1-Dichloroethene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Carbon disulfide | <300 | ug/kg dry | 300 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Methyl-tert-butyl ether | <300 | ug/kg dry | 300 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| trans-1,2-Dichloroethene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1-Dichloroethane | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Diisopropyl Ether | <300 | ug/kg dry | 300 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 2-Butanone | <910 | ug/kg dry | 910 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| cis-1,2-Dichloroethene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Butyl Ethyl Ether | <300 | ug/kg dry | 300 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Chloroform | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,1-Trichloroethane | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Carbon tetrachloride | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Benzene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Amyl Methyl Ether | <300 | ug/kg dry | 300 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2-Dichloroethane | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Cyclohexane | <300 | ug/kg dry | 300 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Trichloroethene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dichloropropane | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| cis-1,3-Dichloropropene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 4-Methyl-2-pentanone | <3000 | ug/kg dry | 3000 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-07 | Date Collected: 08/25/11 13:30 | Matrix: Soil
Sample ID: SS-56 5.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,2-Trichloroethane | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Tetrachloroethene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 2-Hexanone | <3000 | ug/kg dry | 3000 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chlorobenzene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Ethylbenzene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| o-Xylene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Xylenes, total | <180 | ug/kg dry | 180 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Styrene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Butyl Benzene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| sec-Butylbenzene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| n-Butylbenzene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,3-Trimethylbenzene | <61 | ug/kg dry | 61 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 78 | % | 68-133 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Toluene-d8 | 92 | % | 75-120 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-07 | Date Collected: 08/25/11 13:30 | Matrix: Soil
Sample ID: SS-56 5.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 114 | % | 69-119 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 118 | % | 72-127 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **88** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-08 | Date Collected: 08/25/11 13:40 | Matrix: Soil
Sample ID: SS-56 7.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025111* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Vinyl chloride | <47 | ug/kg dry | 47 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Diethyl ether | <230 | ug/kg dry | 230 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Tert-butyl alcohol | <2900 | ug/kg dry | 2900 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 1,1-Dichloroethene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Carbon disulfide | <290 | ug/kg dry | 290 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Methyl-tert-butyl ether | <290 | ug/kg dry | 290 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| trans-1,2-Dichloroethene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,1-Dichloroethane | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Diisopropyl Ether | <290 | ug/kg dry | 290 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 2-Butanone | <870 | ug/kg dry | 870 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| cis-1,2-Dichloroethene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| t-Butyl Ethyl Ether | <290 | ug/kg dry | 290 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Chloroform | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,1,1-Trichloroethane | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Carbon tetrachloride | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Benzene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| t-Amyl Methyl Ether | <290 | ug/kg dry | 290 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 1,2-Dichloroethane | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Cyclohexane | <290 | ug/kg dry | 290 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Trichloroethene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2-Dichloropropane | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| cis-1,3-Dichloropropene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 4-Methyl-2-pentanone | <2900 | ug/kg dry | 2900 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-08 | Date Collected: 08/25/11 13:40 | Matrix: Soil
Sample ID: SS-56 7.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,1,2-Trichloroethane | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Tetrachloroethene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 2-Hexanone | <2900 | ug/kg dry | 2900 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2-Dibromoethane (EDB) | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Chlorobenzene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Ethylbenzene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| o-Xylene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Xylenes, total | <170 | ug/kg dry | 170 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Styrene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,1,2,2-Tetrachloroethane | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| trans-1,4-Dichloro-2-butene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| t-Butyl Benzene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| sec-Butylbenzene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| n-Butylbenzene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2,3-Trimethylbenzene | <58 | ug/kg dry | 58 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 70 | % | 68-133 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Toluene-d8 | 92 | % | 75-120 | 50 | 09/03/11 | was | 09/03/11 | was | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-08 | Date Collected: 08/25/11 13:40 | Matrix: Soil
Sample ID: SS-56 7.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 108 | % | 69-119 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2-Dichlorobenzene-d4 | 97 | % | 72-127 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **90** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-09 | Date Collected: 08/25/11 13:50 | Matrix: Soil
Sample ID: SS-56 10.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025057* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Vinyl chloride | <44 | ug/kg dry | 44 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diethyl ether | <220 | ug/kg dry | 220 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Tert-butyl alcohol | <2800 | ug/kg dry | 2800 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,1-Dichloroethene | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Carbon disulfide | <280 | ug/kg dry | 280 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methyl-tert-butyl ether | <280 | ug/kg dry | 280 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acrylonitrile | <110 | ug/kg dry | 110 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| trans-1,2-Dichloroethene | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1-Dichloroethane | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diisopropyl Ether | <280 | ug/kg dry | 280 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 2-Butanone | <830 | ug/kg dry | 830 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| **cis-1,2-Dichloroethene** | **150** | **ug/kg dry** | **55** | **50** | **08/31/11** | **jq** | **08/31/11** | **jq** | | |
| t-Butyl Ethyl Ether | <280 | ug/kg dry | 280 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrahydrofuran | <1100 | ug/kg dry | 1100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| **Chloroform** | **240** | **ug/kg dry** | **55** | **50** | **08/31/11** | **jq** | **08/31/11** | **jq** | | |
| 1,1,1-Trichloroethane | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Carbon tetrachloride | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Benzene | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Amyl Methyl Ether | <280 | ug/kg dry | 280 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichloroethane | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Cyclohexane | <280 | ug/kg dry | 280 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Trichloroethene | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichloropropane | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,3-Dichloropropene | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 4-Methyl-2-pentanone | <2800 | ug/kg dry | 2800 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-09 | Date Collected: 08/25/11 13:50 | Matrix: Soil
Sample ID: SS-56 10.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2-Trichloroethane | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrachloroethene | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Hexanone | <2800 | ug/kg dry | 2800 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chlorobenzene | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Ethylbenzene | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| m,p-Xylene | <110 | ug/kg dry | 110 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| o-Xylene | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Xylenes, total | <170 | ug/kg dry | 170 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Styrene | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Benzene | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| sec-Butylbenzene | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Butylbenzene | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trimethylbenzene | <55 | ug/kg dry | 55 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <110 | ug/kg dry | 110 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 76 | % | 68-133 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene-d8 | 91 | % | 75-120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-09 | Date Collected: 08/25/11 13:50 | Matrix: Soil
Sample ID: SS-56 10.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 112 | % | 69-119 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 115 | % | 72-127 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **95** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-10 | Date Collected: 08/25/11 14:10 | Matrix: Soil
Sample ID: SS-56 12.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | |
| *Batch: T025057* | | | | | | | | | |
| Dichlorodifluoromethane | <250 ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloromethane | <250 ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| **Vinyl chloride** | **230 ug/kg dry** | **47** | **50** | **08/31/11** | **jq** | **08/31/11** | **jq** | N | |
| Bromomethane | <200 ug/kg dry | 200 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloroethane | <250 ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Trichlorofluoromethane | <100 ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diethyl ether | <230 ug/kg dry | 230 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Tert-butyl alcohol | <2900 ug/kg dry | 2900 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,1-Dichloroethene | <59 ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acetone | <1000 ug/kg dry | 1000 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Iodomethane | <100 ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Carbon disulfide | <290 ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methyl-tert-butyl ether | <290 ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methylene chloride | <250 ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acrylonitrile | <120 ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| trans-1,2-Dichloroethene | <59 ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1-Dichloroethane | <59 ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diisopropyl Ether | <290 ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 2-Butanone | <880 ug/kg dry | 880 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| **cis-1,2-Dichloroethene** | **75 ug/kg dry** | **59** | **50** | **08/31/11** | **jq** | **08/31/11** | **jq** | | |
| t-Butyl Ethyl Ether | <290 ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromochloromethane | <100 ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrahydrofuran | <1200 ug/kg dry | 1200 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Chloroform | <59 ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1-Trichloroethane | <59 ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Carbon tetrachloride | <59 ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Benzene | <59 ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Amyl Methyl Ether | <290 ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichloroethane | <59 ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Cyclohexane | <290 ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Trichloroethene | <59 ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichloropropane | <59 ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromomethane | <250 ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromodichloromethane | <100 ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,3-Dichloropropene | <59 ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 4-Methyl-2-pentanone | <2900 ug/kg dry | 2900 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene | <100 ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-10 | Date Collected: 08/25/11 14:10 | Matrix: Soil
Sample ID: SS-56 12.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2-Trichloroethane | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrachloroethene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Hexanone | <2900 | ug/kg dry | 2900 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chlorobenzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Ethylbenzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| o-Xylene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Xylenes, total | <180 | ug/kg dry | 180 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Styrene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Benzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| sec-Butylbenzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Butylbenzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trimethylbenzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 75 | % | 68-133 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene-d8 | 88 | % | 75-120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-10 | Date Collected: 08/25/11 14:10 | Matrix: Soil
Sample ID: SS-56 12.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 114 | % | 69-119 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 116 | % | 72-127 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **93** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-11 | Date Collected: 08/25/11 14:20 | Matrix: Soil
Sample ID: SS-56 15.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025057* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Vinyl chloride | <46 | ug/kg dry | 46 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diethyl ether | <230 | ug/kg dry | 230 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Tert-butyl alcohol | <2900 | ug/kg dry | 2900 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,1-Dichloroethene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Carbon disulfide | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methyl-tert-butyl ether | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| trans-1,2-Dichloroethene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1-Dichloroethane | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diisopropyl Ether | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 2-Butanone | <870 | ug/kg dry | 870 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,2-Dichloroethene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Ethyl Ether | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Chloroform | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1-Trichloroethane | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Carbon tetrachloride | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Benzene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Amyl Methyl Ether | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichloroethane | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Cyclohexane | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Trichloroethene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichloropropane | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,3-Dichloropropene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 4-Methyl-2-pentanone | <2900 | ug/kg dry | 2900 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-11 | Date Collected: 08/25/11 14:20 | Matrix: Soil
Sample ID: SS-56 15.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2-Trichloroethane | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrachloroethene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Hexanone | <2900 | ug/kg dry | 2900 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chlorobenzene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Ethylbenzene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| o-Xylene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Xylenes, total | <170 | ug/kg dry | 170 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Styrene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Benzene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| sec-Butylbenzene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Butylbenzene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trimethylbenzene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 76 | % | 68-133 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene-d8 | 89 | % | 75-120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-11 | Date Collected: 08/25/11 14:20 | Matrix: Soil
Sample ID: SS-56 15.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 110 | % | 69-119 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 116 | % | 72-127 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **93** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-12 | Date Collected: 08/25/11 14:30 | Matrix: Soil
Sample ID: SS-56 17.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025057* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Vinyl chloride | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diethyl ether | <280 | ug/kg dry | 280 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Tert-butyl alcohol | <3500 | ug/kg dry | 3500 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,1-Dichloroethene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acetone | <1100 | ug/kg dry | 1100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Carbon disulfide | <350 | ug/kg dry | 350 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methyl-tert-butyl ether | <350 | ug/kg dry | 350 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acrylonitrile | <140 | ug/kg dry | 140 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| trans-1,2-Dichloroethene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1-Dichloroethane | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diisopropyl Ether | <350 | ug/kg dry | 350 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 2-Butanone | <1100 | ug/kg dry | 1100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,2-Dichloroethene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Ethyl Ether | <350 | ug/kg dry | 350 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrahydrofuran | <1400 | ug/kg dry | 1400 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Chloroform | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1-Trichloroethane | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Carbon tetrachloride | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Benzene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Amyl Methyl Ether | <350 | ug/kg dry | 350 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichloroethane | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Cyclohexane | <350 | ug/kg dry | 350 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Trichloroethene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichloropropane | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,3-Dichloropropene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 4-Methyl-2-pentanone | <3500 | ug/kg dry | 3500 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-12 | Date Collected: 08/25/11 14:30 | Matrix: Soil
Sample ID: SS-56 17.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2-Trichloroethane | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrachloroethene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Hexanone | <3500 | ug/kg dry | 3500 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chlorobenzene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Ethylbenzene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| m,p-Xylene | <140 | ug/kg dry | 140 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| o-Xylene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Xylenes, total | <210 | ug/kg dry | 210 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Styrene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Benzene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| sec-Butylbenzene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Butylbenzene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trimethylbenzene | <71 | ug/kg dry | 71 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <140 | ug/kg dry | 140 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Naphthalene | <350 | ug/kg dry | 350 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Methylnaphthalene | <350 | ug/kg dry | 350 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 82 | % | 68-133 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene-d8 | 91 | % | 75-120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-12 | Date Collected: 08/25/11 14:30 | Matrix: Soil
Sample ID: SS-56 17.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 111 | % | 69-119 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 117 | % | 72-127 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **74** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-13 | Date Collected: 08/25/11 14:45 | Matrix: Soil
Sample ID: SS-56 20.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025057* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Vinyl chloride | <45 | ug/kg dry | 45 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diethyl ether | <220 | ug/kg dry | 220 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Tert-butyl alcohol | <2800 | ug/kg dry | 2800 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,1-Dichloroethene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Carbon disulfide | <280 | ug/kg dry | 280 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methyl-tert-butyl ether | <280 | ug/kg dry | 280 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acrylonitrile | <110 | ug/kg dry | 110 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| trans-1,2-Dichloroethene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1-Dichloroethane | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diisopropyl Ether | <280 | ug/kg dry | 280 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 2-Butanone | <840 | ug/kg dry | 840 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,2-Dichloroethene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Ethyl Ether | <280 | ug/kg dry | 280 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrahydrofuran | <1100 | ug/kg dry | 1100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Chloroform | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1-Trichloroethane | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Carbon tetrachloride | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Benzene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Amyl Methyl Ether | <280 | ug/kg dry | 280 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichloroethane | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Cyclohexane | <280 | ug/kg dry | 280 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Trichloroethene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichloropropane | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,3-Dichloropropene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 4-Methyl-2-pentanone | <2800 | ug/kg dry | 2800 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-13 | Date Collected: 08/25/11 14:45 | Matrix: Soil
Sample ID: SS-56 20.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2-Trichloroethane | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrachloroethene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Hexanone | <2800 | ug/kg dry | 2800 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chlorobenzene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Ethylbenzene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| m,p-Xylene | <110 | ug/kg dry | 110 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| o-Xylene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Xylenes, total | <170 | ug/kg dry | 170 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Styrene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Benzene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| sec-Butylbenzene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Butylbenzene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trimethylbenzene | <56 | ug/kg dry | 56 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <110 | ug/kg dry | 110 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 74 | % | 68-133 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene-d8 | 89 | % | 75-120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-13 | Date Collected: 08/25/11 14:45 | Matrix: Soil
Sample ID: SS-56 20.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 110 | % | 69-119 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 115 | % | 72-127 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **93** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-14 | Date Collected: 08/25/11 15:20 | Matrix: Soil
Sample ID: SS-57 2.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025057* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Vinyl chloride | <50 | ug/kg dry | 50 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diethyl ether | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Tert-butyl alcohol | <3100 | ug/kg dry | 3100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,1-Dichloroethene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Carbon disulfide | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methyl-tert-butyl ether | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acrylonitrile | <130 | ug/kg dry | 130 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| trans-1,2-Dichloroethene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1-Dichloroethane | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diisopropyl Ether | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 2-Butanone | <940 | ug/kg dry | 940 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,2-Dichloroethene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Ethyl Ether | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrahydrofuran | <1300 | ug/kg dry | 1300 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| **Chloroform** | **1600** | **ug/kg dry** | **63** | **50** | **08/31/11** | **jq** | **08/31/11** | **jq** | | |
| 1,1,1-Trichloroethane | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Carbon tetrachloride | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Benzene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Amyl Methyl Ether | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichloroethane | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Cyclohexane | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Trichloroethene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichloropropane | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,3-Dichloropropene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 4-Methyl-2-pentanone | <3100 | ug/kg dry | 3100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-14 | Date Collected: 08/25/11 15:20 | Matrix: Soil
Sample ID: SS-57 2.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2-Trichloroethane | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrachloroethene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Hexanone | <3100 | ug/kg dry | 3100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chlorobenzene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Ethylbenzene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| m,p-Xylene | <130 | ug/kg dry | 130 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| o-Xylene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Xylenes, total | <190 | ug/kg dry | 190 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Styrene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Benzene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| sec-Butylbenzene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Butylbenzene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trimethylbenzene | <63 | ug/kg dry | 63 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <130 | ug/kg dry | 130 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 76 | % | 68-133 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene-d8 | 90 | % | 75-120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-14 | Date Collected: 08/25/11 15:20 | Matrix: Soil
Sample ID: SS-57 2.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 112 | % | 69-119 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 116 | % | 72-127 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024992* | | | | | | | | | | |
| **% Solids** | **87** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **ad/sm** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-15 | Date Collected: 08/25/11 15:30 | Matrix: Soil
Sample ID: SS-57 5.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025057* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Vinyl chloride | <49 | ug/kg dry | 49 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diethyl ether | <240 | ug/kg dry | 240 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Tert-butyl alcohol | <3100 | ug/kg dry | 3100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,1-Dichloroethene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Carbon disulfide | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methyl-tert-butyl ether | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| trans-1,2-Dichloroethene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1-Dichloroethane | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diisopropyl Ether | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 2-Butanone | <920 | ug/kg dry | 920 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,2-Dichloroethene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Ethyl Ether | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Chloroform | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1-Trichloroethane | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Carbon tetrachloride | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Benzene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Amyl Methyl Ether | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichloroethane | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Cyclohexane | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Trichloroethene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichloropropane | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,3-Dichloropropene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 4-Methyl-2-pentanone | <3100 | ug/kg dry | 3100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-15 | Date Collected: 08/25/11 15:30 | Matrix: Soil
Sample ID: SS-57 5.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2-Trichloroethane | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrachloroethene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Hexanone | <3100 | ug/kg dry | 3100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chlorobenzene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Ethylbenzene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| o-Xylene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Xylenes, total | <180 | ug/kg dry | 180 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Styrene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Benzene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| sec-Butylbenzene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Butylbenzene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trimethylbenzene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 76 | % | 68-133 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene-d8 | 89 | % | 75-120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-15 | Date Collected: 08/25/11 15:30 | Matrix: Soil
Sample ID: SS-57 5.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 111 | % | 69-119 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 117 | % | 72-127 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **88** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-16 | Date Collected: 08/25/11 15:35 | Matrix: Soil
Sample ID: SS-57 7.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025057* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Vinyl chloride | <48 | ug/kg dry | 48 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diethyl ether | <240 | ug/kg dry | 240 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Tert-butyl alcohol | <3000 | ug/kg dry | 3000 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,1-Dichloroethene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Carbon disulfide | <300 | ug/kg dry | 300 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methyl-tert-butyl ether | <300 | ug/kg dry | 300 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| trans-1,2-Dichloroethene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1-Dichloroethane | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diisopropyl Ether | <300 | ug/kg dry | 300 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 2-Butanone | <900 | ug/kg dry | 900 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,2-Dichloroethene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Ethyl Ether | <300 | ug/kg dry | 300 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Chloroform | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1-Trichloroethane | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Carbon tetrachloride | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Benzene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Amyl Methyl Ether | <300 | ug/kg dry | 300 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichloroethane | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Cyclohexane | <300 | ug/kg dry | 300 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Trichloroethene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichloropropane | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,3-Dichloropropene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 4-Methyl-2-pentanone | <3000 | ug/kg dry | 3000 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-16 | Date Collected: 08/25/11 15:35 | Matrix: Soil
Sample ID: SS-57 7.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2-Trichloroethane | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrachloroethene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Hexanone | <3000 | ug/kg dry | 3000 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chlorobenzene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Ethylbenzene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| o-Xylene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Xylenes, total | <180 | ug/kg dry | 180 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Styrene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Benzene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| sec-Butylbenzene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Butylbenzene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trimethylbenzene | <60 | ug/kg dry | 60 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 76 | % | 68-133 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene-d8 | 89 | % | 75-120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-16 | Date Collected: 08/25/11 15:35 | Matrix: Soil
Sample ID: SS-57 7.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 111 | % | 69-119 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 116 | % | 72-127 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **88** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-17 | Date Collected: 08/25/11 15:45 | Matrix: Soil
Sample ID: SS-57 10.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025036* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Vinyl chloride | <46 | ug/kg dry | 46 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Diethyl ether | <230 | ug/kg dry | 230 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Tert-butyl alcohol | <2900 | ug/kg dry | 2900 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,1-Dichloroethene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Carbon disulfide | <290 | ug/kg dry | 290 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Methyl-tert-butyl ether | <290 | ug/kg dry | 290 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| trans-1,2-Dichloroethene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1-Dichloroethane | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Diisopropyl Ether | <290 | ug/kg dry | 290 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 2-Butanone | <860 | ug/kg dry | 860 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| cis-1,2-Dichloroethene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Butyl Ethyl Ether | <290 | ug/kg dry | 290 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Chloroform | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,1-Trichloroethane | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Carbon tetrachloride | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Benzene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Amyl Methyl Ether | <290 | ug/kg dry | 290 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2-Dichloroethane | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Cyclohexane | <290 | ug/kg dry | 290 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Trichloroethene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dichloropropane | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| cis-1,3-Dichloropropene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 4-Methyl-2-pentanone | <2900 | ug/kg dry | 2900 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-17 | Date Collected: 08/25/11 15:45 | Matrix: Soil
Sample ID: SS-57 10.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,2-Trichloroethane | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Tetrachloroethene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 2-Hexanone | <2900 | ug/kg dry | 2900 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Chlorobenzene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Ethylbenzene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| o-Xylene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Xylenes, total | <170 | ug/kg dry | 170 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| Styrene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| t-Butyl Benzene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| sec-Butylbenzene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| n-Butylbenzene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2,3-Trimethylbenzene | <58 | ug/kg dry | 58 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/30/11 | jq | 08/30/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 80 | % | 68-133 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| Toluene-d8 | 90 | % | 75-120 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-17 | Date Collected: 08/25/11 15:45 | Matrix: Soil
Sample ID: SS-57 10.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 113 | % | 69-119 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 118 | % | 72-127 | 50 | 08/30/11 | jq | 08/30/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **88** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-18 | Date Collected: 08/25/11 15:55 | Matrix: Soil
Sample ID: SS-57 12.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025057* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Vinyl chloride | <47 | ug/kg dry | 47 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diethyl ether | <240 | ug/kg dry | 240 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Tert-butyl alcohol | <2900 | ug/kg dry | 2900 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,1-Dichloroethene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Carbon disulfide | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methyl-tert-butyl ether | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| trans-1,2-Dichloroethene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1-Dichloroethane | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diisopropyl Ether | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 2-Butanone | <880 | ug/kg dry | 880 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,2-Dichloroethene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Ethyl Ether | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Chloroform | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1-Trichloroethane | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Carbon tetrachloride | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Benzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Amyl Methyl Ether | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichloroethane | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Cyclohexane | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Trichloroethene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichloropropane | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,3-Dichloropropene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 4-Methyl-2-pentanone | <2900 | ug/kg dry | 2900 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-18 | Date Collected: 08/25/11 15:55 | Matrix: Soil
Sample ID: SS-57 12.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2-Trichloroethane | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrachloroethene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Hexanone | <2900 | ug/kg dry | 2900 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chlorobenzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Ethylbenzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| o-Xylene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Xylenes, total | <180 | ug/kg dry | 180 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Styrene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Benzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| sec-Butylbenzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Butylbenzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trimethylbenzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 76 | % | 68-133 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene-d8 | 88 | % | 75-120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-18 | Date Collected: 08/25/11 15:55 | Matrix: Soil
Sample ID: SS-57 12.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 112 | % | 69-119 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 116 | % | 72-127 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **92** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-19 | Date Collected: 08/25/11 16:05 | Matrix: Soil
Sample ID: SS-57 15.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025057* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Vinyl chloride | <46 | ug/kg dry | 46 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diethyl ether | <230 | ug/kg dry | 230 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Tert-butyl alcohol | <2900 | ug/kg dry | 2900 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,1-Dichloroethene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Carbon disulfide | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methyl-tert-butyl ether | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| trans-1,2-Dichloroethene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1-Dichloroethane | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diisopropyl Ether | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 2-Butanone | <870 | ug/kg dry | 870 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,2-Dichloroethene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Ethyl Ether | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Chloroform | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1-Trichloroethane | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Carbon tetrachloride | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Benzene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Amyl Methyl Ether | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichloroethane | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Cyclohexane | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Trichloroethene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichloropropane | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,3-Dichloropropene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 4-Methyl-2-pentanone | <2900 | ug/kg dry | 2900 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-19 | Date Collected: 08/25/11 16:05 | Matrix: Soil
Sample ID: SS-57 15.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2-Trichloroethane | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrachloroethene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Hexanone | <2900 | ug/kg dry | 2900 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chlorobenzene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Ethylbenzene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| o-Xylene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Xylenes, total | <170 | ug/kg dry | 170 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Styrene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Benzene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| sec-Butylbenzene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Butylbenzene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trimethylbenzene | <58 | ug/kg dry | 58 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 82 | % | 68-133 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene-d8 | 88 | % | 75-120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-19 | Date Collected: 08/25/11 16:05 | Matrix: Soil
Sample ID: SS-57 15.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 117 | % | 69-119 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 124 | % | 72-127 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **91** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-20 | Date Collected: 08/25/11 17:00 | Matrix: Soil
Sample ID: SS-57 17.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025057* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Vinyl chloride | <47 | ug/kg dry | 47 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diethyl ether | <240 | ug/kg dry | 240 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Tert-butyl alcohol | <3000 | ug/kg dry | 3000 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,1-Dichloroethene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Carbon disulfide | <300 | ug/kg dry | 300 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methyl-tert-butyl ether | <300 | ug/kg dry | 300 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| trans-1,2-Dichloroethene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1-Dichloroethane | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diisopropyl Ether | <300 | ug/kg dry | 300 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 2-Butanone | <890 | ug/kg dry | 890 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,2-Dichloroethene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Ethyl Ether | <300 | ug/kg dry | 300 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Chloroform | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1-Trichloroethane | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Carbon tetrachloride | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Benzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Amyl Methyl Ether | <300 | ug/kg dry | 300 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichloroethane | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Cyclohexane | <300 | ug/kg dry | 300 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Trichloroethene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichloropropane | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,3-Dichloropropene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 4-Methyl-2-pentanone | <3000 | ug/kg dry | 3000 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-20 | Date Collected: 08/25/11 17:00 | Matrix: Soil
Sample ID: SS-57 17.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2-Trichloroethane | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrachloroethene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Hexanone | <3000 | ug/kg dry | 3000 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chlorobenzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Ethylbenzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| o-Xylene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Xylenes, total | <180 | ug/kg dry | 180 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Styrene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Benzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| sec-Butylbenzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Butylbenzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trimethylbenzene | <59 | ug/kg dry | 59 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 81 | % | 68-133 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene-d8 | 89 | % | 75-120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-20 | Date Collected: 08/25/11 17:00 | Matrix: Soil
Sample ID: SS-57 17.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 112 | % | 69-119 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 115 | % | 72-127 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **91** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-21 | Date Collected: 08/25/11 15:00 | Matrix: Soil
Sample ID: M-4s | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025057* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Vinyl chloride | <49 | ug/kg dry | 49 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diethyl ether | <240 | ug/kg dry | 240 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Tert-butyl alcohol | <3100 | ug/kg dry | 3100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,1-Dichloroethene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Carbon disulfide | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methyl-tert-butyl ether | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| trans-1,2-Dichloroethene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1-Dichloroethane | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diisopropyl Ether | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 2-Butanone | <920 | ug/kg dry | 920 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,2-Dichloroethene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Ethyl Ether | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Chloroform | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1-Trichloroethane | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Carbon tetrachloride | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Benzene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Amyl Methyl Ether | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichloroethane | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Cyclohexane | <310 | ug/kg dry | 310 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Trichloroethene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichloropropane | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,3-Dichloropropene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 4-Methyl-2-pentanone | <3100 | ug/kg dry | 3100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-21 | Date Collected: 08/25/11 15:00 | Matrix: Soil
Sample ID: M-4s | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2-Trichloroethane | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrachloroethene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Hexanone | <3100 | ug/kg dry | 3100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chlorobenzene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Ethylbenzene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| o-Xylene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Xylenes, total | <180 | ug/kg dry | 180 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Styrene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Benzene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| sec-Butylbenzene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Butylbenzene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trimethylbenzene | <61 | ug/kg dry | 61 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 81 | % | 68-133 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene-d8 | 90 | % | 75-120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-21 | Date Collected: 08/25/11 15:00 | Matrix: Soil
Sample ID: M-4s | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 113 | % | 69-119 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 116 | % | 72-127 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024992* | | | | | | | | | | |
| **% Solids** | **87** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **ad/sm** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-22 | Date Collected: 08/25/11 17:10 | Matrix: Soil
Sample ID: M-5S | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025057* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Vinyl chloride | <46 | ug/kg dry | 46 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diethyl ether | <230 | ug/kg dry | 230 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Tert-butyl alcohol | <2900 | ug/kg dry | 2900 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,1-Dichloroethene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Carbon disulfide | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methyl-tert-butyl ether | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Acrylonitrile | <110 | ug/kg dry | 110 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| trans-1,2-Dichloroethene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1-Dichloroethane | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Diisopropyl Ether | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 2-Butanone | <860 | ug/kg dry | 860 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,2-Dichloroethene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Ethyl Ether | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrahydrofuran | <1100 | ug/kg dry | 1100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| **Chloroform** | **1000** | **ug/kg dry** | **57** | **50** | **08/31/11** | **jq** | **08/31/11** | **jq** | | |
| 1,1,1-Trichloroethane | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Carbon tetrachloride | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Benzene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Amyl Methyl Ether | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichloroethane | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Cyclohexane | <290 | ug/kg dry | 290 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Trichloroethene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichloropropane | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| cis-1,3-Dichloropropene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 4-Methyl-2-pentanone | <2900 | ug/kg dry | 2900 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-22 | Date Collected: 08/25/11 17:10 | Matrix: Soil
Sample ID: M-5S | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2-Trichloroethane | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Tetrachloroethene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Hexanone | <2900 | ug/kg dry | 2900 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Chlorobenzene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Ethylbenzene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| m,p-Xylene | <110 | ug/kg dry | 110 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| o-Xylene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Xylenes, total | <170 | ug/kg dry | 170 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| Styrene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| t-Butyl Benzene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| sec-Butylbenzene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| n-Butylbenzene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2,3-Trimethylbenzene | <57 | ug/kg dry | 57 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <110 | ug/kg dry | 110 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 08/31/11 | jq | 08/31/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 79 | % | 68-133 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| Toluene-d8 | 89 | % | 75-120 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-22 | Date Collected: 08/25/11 17:10 | Matrix: Soil
Sample ID: M-5S | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 111 | % | 69-119 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 114 | % | 72-127 | 50 | 08/31/11 | jq | 08/31/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024992* | | | | | | | | | | |
| **% Solids** | **87** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **ad/sm** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-23 | Date Collected: 08/25/11 18:20 | Matrix: Soil
Sample ID: M-6S | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025111* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Vinyl chloride | <48 | ug/kg dry | 48 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Diethyl ether | <240 | ug/kg dry | 240 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Tert-butyl alcohol | <3000 | ug/kg dry | 3000 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 1,1-Dichloroethene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Carbon disulfide | <300 | ug/kg dry | 300 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Methyl-tert-butyl ether | <300 | ug/kg dry | 300 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| trans-1,2-Dichloroethene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,1-Dichloroethane | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Diisopropyl Ether | <300 | ug/kg dry | 300 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 2-Butanone | <910 | ug/kg dry | 910 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| cis-1,2-Dichloroethene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| t-Butyl Ethyl Ether | <300 | ug/kg dry | 300 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| **Chloroform** | **130** | **ug/kg dry** | **61** | **50** | **09/03/11** | **was** | **09/03/11** | **was** | | |
| 1,1,1-Trichloroethane | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| **Carbon tetrachloride** | **210** | **ug/kg dry** | **61** | **50** | **09/03/11** | **was** | **09/03/11** | **was** | | |
| Benzene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| t-Amyl Methyl Ether | <300 | ug/kg dry | 300 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 1,2-Dichloroethane | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Cyclohexane | <300 | ug/kg dry | 300 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Trichloroethene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2-Dichloropropane | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| cis-1,3-Dichloropropene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 4-Methyl-2-pentanone | <3000 | ug/kg dry | 3000 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-23 | Date Collected: 08/25/11 18:20 | Matrix: Soil
Sample ID: M-6S | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,1,2-Trichloroethane | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Tetrachloroethene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 2-Hexanone | <3000 | ug/kg dry | 3000 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2-Dibromoethane (EDB) | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Chlorobenzene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Ethylbenzene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| o-Xylene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Xylenes, total | <180 | ug/kg dry | 180 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Styrene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,1,2,2-Tetrachloroethane | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| trans-1,4-Dichloro-2-butene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| t-Butyl Benzene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| sec-Butylbenzene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| n-Butylbenzene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2,3-Trimethylbenzene | <61 | ug/kg dry | 61 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 69 | % | 68-133 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Toluene-d8 | 92 | % | 75-120 | 50 | 09/03/11 | was | 09/03/11 | was | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-23 | Date Collected: 08/25/11 18:20 | Matrix: Soil
Sample ID: M-6S | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 108 | % | 69-119 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2-Dichlorobenzene-d4 | 99 | % | 72-127 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024992* | | | | | | | | | | |
| **% Solids** | **86** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **ad/sm** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-24 | Date Collected: 08/25/11 17:35 | Matrix: Soil
Sample ID: SS-3 2.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025112* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Vinyl chloride | <48 | ug/kg dry | 48 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Diethyl ether | <240 | ug/kg dry | 240 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Tert-butyl alcohol | <3000 | ug/kg dry | 3000 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,1-Dichloroethene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Carbon disulfide | <300 | ug/kg dry | 300 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Methyl-tert-butyl ether | <300 | ug/kg dry | 300 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| trans-1,2-Dichloroethene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1-Dichloroethane | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Diisopropyl Ether | <300 | ug/kg dry | 300 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 2-Butanone | <900 | ug/kg dry | 900 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| cis-1,2-Dichloroethene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| t-Butyl Ethyl Ether | <300 | ug/kg dry | 300 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| **Chloroform** | **270** | **ug/kg dry** | **60** | **50** | **09/01/11** | **jq** | **09/01/11** | **jq** | | |
| 1,1,1-Trichloroethane | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| **Carbon tetrachloride** | **150** | **ug/kg dry** | **60** | **50** | **09/01/11** | **jq** | **09/01/11** | **jq** | | |
| Benzene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| t-Amyl Methyl Ether | <300 | ug/kg dry | 300 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,2-Dichloroethane | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Cyclohexane | <300 | ug/kg dry | 300 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Trichloroethene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2-Dichloropropane | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| cis-1,3-Dichloropropene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 4-Methyl-2-pentanone | <3000 | ug/kg dry | 3000 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-24 | Date Collected: 08/25/11 17:35 | Matrix: Soil
Sample ID: SS-3 2.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1,2-Trichloroethane | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Tetrachloroethene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 2-Hexanone | <3000 | ug/kg dry | 3000 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Chlorobenzene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Ethylbenzene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| o-Xylene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Xylenes, total | <180 | ug/kg dry | 180 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Styrene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| t-Butyl Benzene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| sec-Butylbenzene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| n-Butylbenzene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2,3-Trimethylbenzene | <60 | ug/kg dry | 60 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 85 | % | 68-133 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Toluene-d8 | 92 | % | 75-120 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-24 | Date Collected: 08/25/11 17:35 | Matrix: Soil
Sample ID: SS-3 2.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 113 | % | 69-119 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 114 | % | 72-127 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024992* | | | | | | | | | | |
| **% Solids** | **89** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **ad/sm** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-25 | Date Collected: 08/25/11 17:40 | Matrix: Soil
Sample ID: SS-3 5.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025112* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Vinyl chloride | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Diethyl ether | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Tert-butyl alcohol | <3100 | ug/kg dry | 3100 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,1-Dichloroethene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Carbon disulfide | <310 | ug/kg dry | 310 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Methyl-tert-butyl ether | <310 | ug/kg dry | 310 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| trans-1,2-Dichloroethene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1-Dichloroethane | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Diisopropyl Ether | <310 | ug/kg dry | 310 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 2-Butanone | <940 | ug/kg dry | 940 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| cis-1,2-Dichloroethene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| t-Butyl Ethyl Ether | <310 | ug/kg dry | 310 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Chloroform | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1,1-Trichloroethane | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Carbon tetrachloride | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Benzene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| t-Amyl Methyl Ether | <310 | ug/kg dry | 310 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,2-Dichloroethane | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Cyclohexane | <310 | ug/kg dry | 310 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Trichloroethene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2-Dichloropropane | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| cis-1,3-Dichloropropene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 4-Methyl-2-pentanone | <3100 | ug/kg dry | 3100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-25 | Date Collected: 08/25/11 17:40 | Matrix: Soil
Sample ID: SS-3 5.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1,2-Trichloroethane | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Tetrachloroethene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 2-Hexanone | <3100 | ug/kg dry | 3100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Chlorobenzene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Ethylbenzene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| o-Xylene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Xylenes, total | <190 | ug/kg dry | 190 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Styrene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| t-Butyl Benzene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| sec-Butylbenzene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| n-Butylbenzene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2,3-Trimethylbenzene | <62 | ug/kg dry | 62 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 84 | % | 68-133 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Toluene-d8 | 91 | % | 75-120 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-25 | Date Collected: 08/25/11 17:40 | Matrix: Soil
Sample ID: SS-3 5.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 116 | % | 69-119 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 114 | % | 72-127 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024992* | | | | | | | | | | |
| **% Solids** | **85** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **ad/sm** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-26 | Date Collected: 08/25/11 17:45 | Matrix: Soil
Sample ID: SS-3 7.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025112* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Vinyl chloride | <46 | ug/kg dry | 46 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Diethyl ether | <230 | ug/kg dry | 230 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Tert-butyl alcohol | <2900 | ug/kg dry | 2900 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,1-Dichloroethene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Carbon disulfide | <290 | ug/kg dry | 290 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Methyl-tert-butyl ether | <290 | ug/kg dry | 290 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| trans-1,2-Dichloroethene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1-Dichloroethane | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Diisopropyl Ether | <290 | ug/kg dry | 290 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 2-Butanone | <870 | ug/kg dry | 870 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| cis-1,2-Dichloroethene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| t-Butyl Ethyl Ether | <290 | ug/kg dry | 290 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Chloroform | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1,1-Trichloroethane | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Carbon tetrachloride | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Benzene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| t-Amyl Methyl Ether | <290 | ug/kg dry | 290 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,2-Dichloroethane | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Cyclohexane | <290 | ug/kg dry | 290 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Trichloroethene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2-Dichloropropane | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| cis-1,3-Dichloropropene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 4-Methyl-2-pentanone | <2900 | ug/kg dry | 2900 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-26 | Date Collected: 08/25/11 17:45 | Matrix: Soil
Sample ID: SS-3 7.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1,2-Trichloroethane | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Tetrachloroethene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 2-Hexanone | <2900 | ug/kg dry | 2900 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Chlorobenzene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Ethylbenzene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| o-Xylene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Xylenes, total | <170 | ug/kg dry | 170 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Styrene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| t-Butyl Benzene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| sec-Butylbenzene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| n-Butylbenzene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2,3-Trimethylbenzene | <58 | ug/kg dry | 58 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 82 | % | 68-133 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Toluene-d8 | 92 | % | 75-120 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-26 | Date Collected: 08/25/11 17:45 | Matrix: Soil
Sample ID: SS-3 7.5 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 112 | % | 69-119 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 114 | % | 72-127 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024992* | | | | | | | | | | |
| **% Solids** | **89** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **ad/sm** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-27 | Date Collected: 08/25/11 17:55 | Matrix: Soil
Sample ID: SS-3 10.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025112* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Vinyl chloride | <40 | ug/kg dry | 40 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Diethyl ether | <200 | ug/kg dry | 200 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Tert-butyl alcohol | <2500 | ug/kg dry | 2500 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,1-Dichloroethene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Carbon disulfide | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Methyl-tert-butyl ether | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Acrylonitrile | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| trans-1,2-Dichloroethene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1-Dichloroethane | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Diisopropyl Ether | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 2-Butanone | <760 | ug/kg dry | 760 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| cis-1,2-Dichloroethene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| t-Butyl Ethyl Ether | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Tetrahydrofuran | <1000 | ug/kg dry | 1000 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Chloroform | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1,1-Trichloroethane | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Carbon tetrachloride | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Benzene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| t-Amyl Methyl Ether | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,2-Dichloroethane | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Cyclohexane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Trichloroethene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2-Dichloropropane | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| cis-1,3-Dichloropropene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 4-Methyl-2-pentanone | <2500 | ug/kg dry | 2500 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-27 | Date Collected: 08/25/11 17:55 | Matrix: Soil
Sample ID: SS-3 10.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1,2-Trichloroethane | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Tetrachloroethene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 2-Hexanone | <2500 | ug/kg dry | 2500 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2-Dibromoethane (EDB) | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Chlorobenzene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Ethylbenzene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| m,p-Xylene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| o-Xylene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Xylenes, total | <150 | ug/kg dry | 150 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| Styrene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,1,2,2-Tetrachloroethane | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| trans-1,4-Dichloro-2-butene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,3,5-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| t-Butyl Benzene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2,4-Trimethylbenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| sec-Butylbenzene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| n-Butylbenzene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2,3-Trimethylbenzene | <50 | ug/kg dry | 50 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2-Dibromo-3-chloropropane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 09/01/11 | jq | 09/01/11 | jq | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 84 | % | 68-133 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| Toluene-d8 | 91 | % | 75-120 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-27 | Date Collected: 08/25/11 17:55 | Matrix: Soil
Sample ID: SS-3 10.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 116 | % | 69-119 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| 1,2-Dichlorobenzene-d4 | 117 | % | 72-127 | 50 | 09/01/11 | jq | 09/01/11 | jq | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024992* | | | | | | | | | | |
| **% Solids** | **98** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **ad/sm** | N | |

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# ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-28 | Date Collected: 08/25/11 18:10 | Matrix: Soil
Sample ID: SS-3 12.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| *Analysis Method: EPA 8260B* | | | | | | | | | | |
| *Batch: T025111* | | | | | | | | | | |
| Dichlorodifluoromethane | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Chloromethane | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Vinyl chloride | <48 | ug/kg dry | 48 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Bromomethane | <200 | ug/kg dry | 200 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Chloroethane | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Trichlorofluoromethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Diethyl ether | <240 | ug/kg dry | 240 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Tert-butyl alcohol | <3000 | ug/kg dry | 3000 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 1,1-Dichloroethene | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Acetone | <1000 | ug/kg dry | 1000 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Iodomethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Carbon disulfide | <300 | ug/kg dry | 300 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Methyl-tert-butyl ether | <300 | ug/kg dry | 300 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Methylene chloride | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Acrylonitrile | <120 | ug/kg dry | 120 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| trans-1,2-Dichloroethene | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,1-Dichloroethane | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Diisopropyl Ether | <300 | ug/kg dry | 300 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 2-Butanone | <910 | ug/kg dry | 910 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| **cis-1,2-Dichloroethene** | **140** | **ug/kg dry** | **60** | **50** | **09/03/11** | **was** | **09/03/11** | **was** | | |
| t-Butyl Ethyl Ether | <300 | ug/kg dry | 300 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Bromochloromethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Tetrahydrofuran | <1200 | ug/kg dry | 1200 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Chloroform | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,1,1-Trichloroethane | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Carbon tetrachloride | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Benzene | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| t-Amyl Methyl Ether | <300 | ug/kg dry | 300 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 1,2-Dichloroethane | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Cyclohexane | <300 | ug/kg dry | 300 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Trichloroethene | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2-Dichloropropane | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Dibromomethane | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Bromodichloromethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| cis-1,3-Dichloropropene | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 4-Methyl-2-pentanone | <3000 | ug/kg dry | 3000 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Toluene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-28 | Date Collected: 08/25/11 18:10 | Matrix: Soil
Sample ID: SS-3 12.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| trans-1,3-Dichloropropene | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,1,2-Trichloroethane | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Tetrachloroethene | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 2-Hexanone | <3000 | ug/kg dry | 3000 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Dibromochloromethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2-Dibromoethane (EDB) | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Chlorobenzene | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,1,1,2-Tetrachloroethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Ethylbenzene | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| m,p-Xylene | <120 | ug/kg dry | 120 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| o-Xylene | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Xylenes, total | <180 | ug/kg dry | 180 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| Styrene | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Bromoform | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Isopropylbenzene | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,1,2,2-Tetrachloroethane | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2,3-Trichloropropane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| trans-1,4-Dichloro-2-butene | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Bromobenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| n-Propylbenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| **1,3,5-Trimethylbenzene** | **120** | **ug/kg dry** | **100** | **50** | **09/03/11** | **was** | **09/03/11** | **was** | | |
| t-Butyl Benzene | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| **1,2,4-Trimethylbenzene** | **500** | **ug/kg dry** | **100** | **50** | **09/03/11** | **was** | **09/03/11** | **was** | | |
| sec-Butylbenzene | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| p-Isopropyltoluene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,3-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,4-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| n-Butylbenzene | <60 | ug/kg dry | 60 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| **1,2,3-Trimethylbenzene** | **160** | **ug/kg dry** | **60** | **50** | **09/03/11** | **was** | **09/03/11** | **was** | N | |
| 1,2-Dichlorobenzene | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2-Dibromo-3-chloropropane | <120 | ug/kg dry | 120 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Hexachloroethane | <100 | ug/kg dry | 100 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 1,2,4-Trichlorobenzene | <330 | ug/kg dry | 330 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Naphthalene | <330 | ug/kg dry | 330 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| 1,2,3-Trichlorobenzene | <250 | ug/kg dry | 250 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 2-Methylnaphthalene | <330 | ug/kg dry | 330 | 50 | 09/03/11 | was | 09/03/11 | was | N | |
| ***Surrogates:*** | | | | | | | | | | |
| 1,2-Dichloroethane-d4 | 70 | % | 68-133 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| Toluene-d8 | 92 | % | 75-120 | 50 | 09/03/11 | was | 09/03/11 | was | | |

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## ANALYTICAL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

Trace ID: T11H306-28 | Date Collected: 08/25/11 18:10 | Matrix: Soil
Sample ID: SS-3 12.0 | Date Received: 08/29/11 13:40

| PARAMETERS | RESULTS | UNITS | RDL | DILUTION | PREPARED | BY | ANALYZED | BY | NOTES | MCL |
|---|---|---|---|---|---|---|---|---|---|---|
| **VOLATILE ORGANIC COMPOUNDS BY GC-MS** | | | | | | | | | | |
| 4-Bromofluorobenzene | 108 | % | 69-119 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| 1,2-Dichlorobenzene-d4 | 97 | % | 72-127 | 50 | 09/03/11 | was | 09/03/11 | was | | |
| **WET CHEMISTRY** | | | | | | | | | | |
| *Analysis Method: % Calculation* | | | | | | | | | | |
| *Batch: T024990* | | | | | | | | | | |
| **% Solids** | **89** | **% by Wt.** | **0.10** | **1** | **08/30/11** | **as** | **08/31/11** | **sm/ad** | N | |

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## QUALITY CONTROL RESULTS

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

| | |
|---|---|
| QC Batch: T025036 | Analysis Description: Volatiles, Full MDEQ+ List |
| QC Batch Method: EPA 5035 Purge-and-Trap for Solids and Wastes | Analysis Method: EPA 8260B |

### METHOD BLANK: T025036-BLK1

| Parameter | Units | Blank Result | Reporting Limit | Notes |
|---|---|---|---|---|
| Dichlorodifluoromethane | ug/kg wet | <250 | 250 | |
| Chloromethane | ug/kg wet | <250 | 250 | |
| Vinyl chloride | ug/kg wet | <40 | 40 | |
| Bromomethane | ug/kg wet | <200 | 200 | |
| Chloroethane | ug/kg wet | <250 | 250 | |
| Trichlorofluoromethane | ug/kg wet | <100 | 100 | |
| Diethyl ether | ug/kg wet | <200 | 200 | |
| Tert-butyl alcohol | ug/kg wet | <2500 | 2500 | |
| 1,1-Dichloroethene | ug/kg wet | <50 | 50 | |
| Acetone | ug/kg wet | <1000 | 1000 | |
| Iodomethane | ug/kg wet | <100 | 100 | |
| Carbon disulfide | ug/kg wet | <250 | 250 | |
| Methyl-tert-butyl ether | ug/kg wet | <250 | 250 | |
| Methylene chloride | ug/kg wet | <250 | 250 | |
| Acrylonitrile | ug/kg wet | <100 | 100 | |
| trans-1,2-Dichloroethene | ug/kg wet | <50 | 50 | |
| 1,1-Dichloroethane | ug/kg wet | <50 | 50 | |
| Diisopropyl Ether | ug/kg wet | <250 | 250 | |
| 2-Butanone | ug/kg wet | <750 | 750 | |
| cis-1,2-Dichloroethene | ug/kg wet | <50 | 50 | |
| t-Butyl Ethyl Ether | ug/kg wet | <250 | 250 | |
| Bromochloromethane | ug/kg wet | <100 | 100 | |
| Tetrahydrofuran | ug/kg wet | <1000 | 1000 | |
| Chloroform | ug/kg wet | <50 | 50 | |
| 1,1,1-Trichloroethane | ug/kg wet | <50 | 50 | |
| Carbon tetrachloride | ug/kg wet | <50 | 50 | |
| Benzene | ug/kg wet | <50 | 50 | |
| t-Amyl Methyl Ether | ug/kg wet | <250 | 250 | |
| 1,2-Dichloroethane | ug/kg wet | <50 | 50 | |
| Cyclohexane | ug/kg wet | <250 | 250 | |
| Trichloroethene | ug/kg wet | <50 | 50 | |
| 1,2-Dichloropropane | ug/kg wet | <50 | 50 | |
| Dibromomethane | ug/kg wet | <250 | 250 | |
| Bromodichloromethane | ug/kg wet | <100 | 100 | |
| cis-1,3-Dichloropropene | ug/kg wet | <50 | 50 | |
| 4-Methyl-2-pentanone | ug/kg wet | <2500 | 2500 | |
| Toluene | ug/kg wet | <100 | 100 | |
| trans-1,3-Dichloropropene | ug/kg wet | <50 | 50 | |
| 1,1,2-Trichloroethane | ug/kg wet | <50 | 50 | |
| Tetrachloroethene | ug/kg wet | <50 | 50 | |
| 2-Hexanone | ug/kg wet | <2500 | 2500 | |

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**METHOD BLANK: T025036-BLK1**

| Parameter | Units | Blank Result | Reporting Limit | Notes |
|---|---|---|---|---|
| Dibromochloromethane | ug/kg wet | <100 | 100 | |
| 1,2-Dibromoethane (EDB) | ug/kg wet | <50 | 50 | |
| Chlorobenzene | ug/kg wet | <50 | 50 | |
| 1,1,1,2-Tetrachloroethane | ug/kg wet | <100 | 100 | |
| Ethylbenzene | ug/kg wet | <50 | 50 | |
| m,p-Xylene | ug/kg wet | <100 | 100 | |
| o-Xylene | ug/kg wet | <50 | 50 | |
| Xylenes, total | ug/kg wet | <150 | 150 | |
| Styrene | ug/kg wet | <50 | 50 | |
| Bromoform | ug/kg wet | <100 | 100 | |
| Isopropylbenzene | ug/kg wet | <250 | 250 | |
| 1,1,2,2-Tetrachloroethane | ug/kg wet | <50 | 50 | |
| 1,2,3-Trichloropropane | ug/kg wet | <100 | 100 | |
| trans-1,4-Dichloro-2-butene | ug/kg wet | <50 | 50 | |
| Bromobenzene | ug/kg wet | <100 | 100 | |
| n-Propylbenzene | ug/kg wet | <100 | 100 | |
| 1,3,5-Trimethylbenzene | ug/kg wet | <100 | 100 | |
| t-Butyl Benzene | ug/kg wet | <50 | 50 | |
| 1,2,4-Trimethylbenzene | ug/kg wet | <100 | 100 | |
| sec-Butylbenzene | ug/kg wet | <50 | 50 | |
| p-Isopropyltoluene | ug/kg wet | <100 | 100 | |
| 1,3-Dichlorobenzene | ug/kg wet | <100 | 100 | |
| 1,4-Dichlorobenzene | ug/kg wet | <100 | 100 | |
| n-Butylbenzene | ug/kg wet | <50 | 50 | |
| 1,2,3-Trimethylbenzene | ug/kg wet | <50 | 50 | |
| 1,2-Dichlorobenzene | ug/kg wet | <100 | 100 | |
| 1,2-Dibromo-3-chloropropane | ug/kg wet | <100 | 100 | |
| Hexachloroethane | ug/kg wet | <100 | 100 | |
| 1,2,4-Trichlorobenzene | ug/kg wet | <330 | 330 | |
| Naphthalene | ug/kg wet | <330 | 330 | |
| 1,2,3-Trichlorobenzene | ug/kg wet | <250 | 250 | |
| 2-Methylnaphthalene | ug/kg wet | <330 | 330 | |
| 1,2-Dichloroethane-d4 (S) | % | 100 | 68-133 | |
| Toluene-d8 (S) | % | 94 | 75-120 | |
| 4-Bromofluorobenzene (S) | % | 113 | 69-119 | |
| 1,2-Dichlorobenzene-d4 (S) | % | 110 | 72-127 | |

**LABORATORY CONTROL SAMPLE: T025036-BS1**

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limit | Notes |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ug/kg wet | 20.0 | <50 | 87 | 64-156 | |
| Benzene | ug/kg wet | 20.0 | <50 | 101 | 80-120 | |
| Trichloroethene | ug/kg wet | 20.0 | <50 | 104 | 69-133 | |
| Toluene | ug/kg wet | 20.0 | <100 | 95 | 80-120 | |
| Chlorobenzene | ug/kg wet | 20.0 | <50 | 101 | 80-120 | |
| 1,2-Dichloroethane-d4 (S) | % | 40.0 | 38.3 | 96 | 68-133 | |
| Toluene-d8 (S) | % | 50.2 | 46.2 | 92 | 75-120 | |
| **4-Bromofluorobenzene (S)** | **%** | **60.0** | **76.3** | **127** | **69-119** | **312.5** |


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**LABORATORY CONTROL SAMPLE: T025036-BS1**

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limit | Notes |
|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene-d4 (S) | % | 60.0 | 74.8 | 125 | 72-127 | |

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

QC Batch: T025057
QC Batch Method: EPA 5035 Purge-and-Trap for Solids and Wastes
Analysis Description: Volatiles, Full MDEQ+ List
Analysis Method: EPA 8260B

**METHOD BLANK: T025057-BLK1**

| Parameter | Units | Blank Result | Reporting Limit | Notes |
|---|---|---|---|---|
| Dichlorodifluoromethane | ug/kg wet | <250 | 250 | |
| Chloromethane | ug/kg wet | <250 | 250 | |
| Vinyl chloride | ug/kg wet | <40 | 40 | |
| Bromomethane | ug/kg wet | <200 | 200 | |
| Chloroethane | ug/kg wet | <250 | 250 | |
| Trichlorofluoromethane | ug/kg wet | <100 | 100 | |
| Diethyl ether | ug/kg wet | <200 | 200 | |
| Tert-butyl alcohol | ug/kg wet | <2500 | 2500 | |
| 1,1-Dichloroethene | ug/kg wet | <50 | 50 | |
| Acetone | ug/kg wet | <1000 | 1000 | |
| Iodomethane | ug/kg wet | <100 | 100 | |
| Carbon disulfide | ug/kg wet | <250 | 250 | |
| Methyl-tert-butyl ether | ug/kg wet | <250 | 250 | |
| Methylene chloride | ug/kg wet | <250 | 250 | |
| Acrylonitrile | ug/kg wet | <100 | 100 | |
| trans-1,2-Dichloroethene | ug/kg wet | <50 | 50 | |
| 1,1-Dichloroethane | ug/kg wet | <50 | 50 | |
| Diisopropyl Ether | ug/kg wet | <250 | 250 | |
| 2-Butanone | ug/kg wet | <750 | 750 | |
| cis-1,2-Dichloroethene | ug/kg wet | <50 | 50 | |
| t-Butyl Ethyl Ether | ug/kg wet | <250 | 250 | |
| Bromochloromethane | ug/kg wet | <100 | 100 | |
| Tetrahydrofuran | ug/kg wet | <1000 | 1000 | |
| Chloroform | ug/kg wet | <50 | 50 | |
| 1,1,1-Trichloroethane | ug/kg wet | <50 | 50 | |
| Carbon tetrachloride | ug/kg wet | <50 | 50 | |
| Benzene | ug/kg wet | <50 | 50 | |
| t-Amyl Methyl Ether | ug/kg wet | <250 | 250 | |
| 1,2-Dichloroethane | ug/kg wet | <50 | 50 | |
| Cyclohexane | ug/kg wet | <250 | 250 | |
| Trichloroethene | ug/kg wet | <50 | 50 | |
| 1,2-Dichloropropane | ug/kg wet | <50 | 50 | |
| Dibromomethane | ug/kg wet | <250 | 250 | |
| Bromodichloromethane | ug/kg wet | <100 | 100 | |
| cis-1,3-Dichloropropene | ug/kg wet | <50 | 50 | |
| 4-Methyl-2-pentanone | ug/kg wet | <2500 | 2500 | |
| Toluene | ug/kg wet | <100 | 100 | |
| trans-1,3-Dichloropropene | ug/kg wet | <50 | 50 | |


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**METHOD BLANK: T025057-BLK1**

| Parameter | Units | Blank Result | Reporting Limit | Notes |
|---|---|---|---|---|
| 1,1,2-Trichloroethane | ug/kg wet | <50 | 50 | |
| Tetrachloroethene | ug/kg wet | <50 | 50 | |
| 2-Hexanone | ug/kg wet | <2500 | 2500 | |
| Dibromochloromethane | ug/kg wet | <100 | 100 | |
| 1,2-Dibromoethane (EDB) | ug/kg wet | <50 | 50 | |
| Chlorobenzene | ug/kg wet | <50 | 50 | |
| 1,1,1,2-Tetrachloroethane | ug/kg wet | <100 | 100 | |
| Ethylbenzene | ug/kg wet | <50 | 50 | |
| m,p-Xylene | ug/kg wet | <100 | 100 | |
| o-Xylene | ug/kg wet | <50 | 50 | |
| Xylenes, total | ug/kg wet | <150 | 150 | |
| Styrene | ug/kg wet | <50 | 50 | |
| Bromoform | ug/kg wet | <100 | 100 | |
| Isopropylbenzene | ug/kg wet | <250 | 250 | |
| 1,1,2,2-Tetrachloroethane | ug/kg wet | <50 | 50 | |
| 1,2,3-Trichloropropane | ug/kg wet | <100 | 100 | |
| trans-1,4-Dichloro-2-butene | ug/kg wet | <50 | 50 | |
| Bromobenzene | ug/kg wet | <100 | 100 | |
| n-Propylbenzene | ug/kg wet | <100 | 100 | |
| 1,3,5-Trimethylbenzene | ug/kg wet | <100 | 100 | |
| t-Butyl Benzene | ug/kg wet | <50 | 50 | |
| 1,2,4-Trimethylbenzene | ug/kg wet | <100 | 100 | |
| sec-Butylbenzene | ug/kg wet | <50 | 50 | |
| p-Isopropyltoluene | ug/kg wet | <100 | 100 | |
| 1,3-Dichlorobenzene | ug/kg wet | <100 | 100 | |
| 1,4-Dichlorobenzene | ug/kg wet | <100 | 100 | |
| n-Butylbenzene | ug/kg wet | <50 | 50 | |
| 1,2,3-Trimethylbenzene | ug/kg wet | <50 | 50 | |
| 1,2-Dichlorobenzene | ug/kg wet | <100 | 100 | |
| 1,2-Dibromo-3-chloropropane | ug/kg wet | <100 | 100 | |
| Hexachloroethane | ug/kg wet | <100 | 100 | |
| 1,2,4-Trichlorobenzene | ug/kg wet | <330 | 330 | |
| Naphthalene | ug/kg wet | <330 | 330 | |
| 1,2,3-Trichlorobenzene | ug/kg wet | <250 | 250 | |
| 2-Methylnaphthalene | ug/kg wet | <330 | 330 | |
| 1,2-Dichloroethane-d4 (S) | % | 98 | 68-133 | |
| Toluene-d8 (S) | % | 91 | 75-120 | |
| 4-Bromofluorobenzene (S) | % | 115 | 69-119 | |
| 1,2-Dichlorobenzene-d4 (S) | % | 114 | 72-127 | |

**LABORATORY CONTROL SAMPLE: T025057-BS1**

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limit | Notes |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ug/kg wet | 25.0 | <50 | 100 | 64-156 | |
| Benzene | ug/kg wet | 25.0 | <50 | 110 | 80-120 | |
| Trichloroethene | ug/kg wet | 25.0 | <50 | 116 | 69-133 | |
| Toluene | ug/kg wet | 25.0 | <100 | 101 | 80-120 | |
| Chlorobenzene | ug/kg wet | 25.0 | <50 | 108 | 80-120 | |
| 1,2-Dichloroethane-d4 (S) | % | 40.0 | 38.9 | 97 | 68-133 | |


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**LABORATORY CONTROL SAMPLE: T025057-BS1**

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limit | Notes |
|---|---|---|---|---|---|---|
| Toluene-d8 (S) | % | 50.2 | 46.2 | 92 | 75-120 | |
| **4-Bromofluorobenzene (S)** | **%** | **60.0** | **75.0** | **125** | **69-119** | **305** |
| 1,2-Dichlorobenzene-d4 (S) | % | 60.0 | 72.5 | 121 | 72-127 | |

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T025057-MSD1** Original: **T11H306-14**

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ug/kg dry | 0 | 1240 | 1330 | 1250 | 107 | 101 | 60-146 | 5 | 15 | |
| **Benzene** | **ug/kg dry** | **0** | **1240** | **1720** | **1640** | **138** | **132** | **78-114** | **4** | **11** | **230** |
| **Trichloroethene** | **ug/kg dry** | **0** | **1240** | **1700** | **1640** | **136** | **132** | **70-117** | **3** | **14** | **230** |
| **Toluene** | **ug/kg dry** | **0** | **1240** | **1540** | **1480** | **124** | **120** | **77-118** | **3** | **10** | **230** |
| **Chlorobenzene** | **ug/kg dry** | **0** | **1240** | **1650** | **1590** | **132** | **128** | **75-116** | **3** | **12** | **230** |
| 1,2-Dichloroethane-d4 (S) | % | | 40.0 | 30.9 | 29.8 | 77 | 75 | 68-133 | | | |
| Toluene-d8 (S) | % | | 50.2 | 44.8 | 44.8 | 89 | 89 | 75-120 | | | |
| **4-Bromofluorobenzene (S)** | **%** | | **60.0** | **72.4** | **73.4** | **121** | **122** | **69-119** | | | **305** |
| 1,2-Dichlorobenzene-d4 (S) | % | | 60.0 | 72.0 | 73.2 | 120 | 122 | 72-127 | | | |

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

QC Batch: T025111
QC Batch Method: EPA 5035 Purge-and-Trap for Solids and Wastes
Analysis Description: Volatiles, Full MDEQ+ List
Analysis Method: EPA 8260B

**METHOD BLANK: T025111-BLK1**

| Parameter | Units | Blank Result | Reporting Limit | Notes |
|---|---|---|---|---|
| Dichlorodifluoromethane | ug/kg wet | <250 | 250 | |
| Chloromethane | ug/kg wet | <250 | 250 | |
| Vinyl chloride | ug/kg wet | <40 | 40 | |
| Bromomethane | ug/kg wet | <200 | 200 | |
| Chloroethane | ug/kg wet | <250 | 250 | |
| Trichlorofluoromethane | ug/kg wet | <100 | 100 | |
| Diethyl ether | ug/kg wet | <200 | 200 | |
| Tert-butyl alcohol | ug/kg wet | <2500 | 2500 | |
| 1,1-Dichloroethene | ug/kg wet | <50 | 50 | |
| Acetone | ug/kg wet | <1000 | 1000 | |
| Iodomethane | ug/kg wet | <100 | 100 | |
| Carbon disulfide | ug/kg wet | <250 | 250 | |
| Methyl-tert-butyl ether | ug/kg wet | <250 | 250 | |
| Methylene chloride | ug/kg wet | <250 | 250 | |
| Acrylonitrile | ug/kg wet | <100 | 100 | |
| trans-1,2-Dichloroethene | ug/kg wet | <50 | 50 | |
| 1,1-Dichloroethane | ug/kg wet | <50 | 50 | |
| Diisopropyl Ether | ug/kg wet | <250 | 250 | |
| 2-Butanone | ug/kg wet | <750 | 750 | |
| cis-1,2-Dichloroethene | ug/kg wet | <50 | 50 | |
| t-Butyl Ethyl Ether | ug/kg wet | <250 | 250 | |
| Bromochloromethane | ug/kg wet | <100 | 100 | |
| Tetrahydrofuran | ug/kg wet | <1000 | 1000 | |


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**METHOD BLANK: T025111-BLK1**

| Parameter | Units | Blank Result | Reporting Limit | Notes |
|---|---|---|---|---|
| Chloroform | ug/kg wet | <50 | 50 | |
| 1,1,1-Trichloroethane | ug/kg wet | <50 | 50 | |
| Carbon tetrachloride | ug/kg wet | <50 | 50 | |
| Benzene | ug/kg wet | <50 | 50 | |
| t-Amyl Methyl Ether | ug/kg wet | <250 | 250 | |
| 1,2-Dichloroethane | ug/kg wet | <50 | 50 | |
| Cyclohexane | ug/kg wet | <250 | 250 | |
| Trichloroethene | ug/kg wet | <50 | 50 | |
| 1,2-Dichloropropane | ug/kg wet | <50 | 50 | |
| Dibromomethane | ug/kg wet | <250 | 250 | |
| Bromodichloromethane | ug/kg wet | <100 | 100 | |
| cis-1,3-Dichloropropene | ug/kg wet | <50 | 50 | |
| 4-Methyl-2-pentanone | ug/kg wet | <2500 | 2500 | |
| Toluene | ug/kg wet | <100 | 100 | |
| trans-1,3-Dichloropropene | ug/kg wet | <50 | 50 | |
| 1,1,2-Trichloroethane | ug/kg wet | <50 | 50 | |
| Tetrachloroethene | ug/kg wet | <50 | 50 | |
| 2-Hexanone | ug/kg wet | <2500 | 2500 | |
| Dibromochloromethane | ug/kg wet | <100 | 100 | |
| 1,2-Dibromoethane (EDB) | ug/kg wet | <50 | 50 | |
| Chlorobenzene | ug/kg wet | <50 | 50 | |
| 1,1,1,2-Tetrachloroethane | ug/kg wet | <100 | 100 | |
| Ethylbenzene | ug/kg wet | <50 | 50 | |
| m,p-Xylene | ug/kg wet | <100 | 100 | |
| o-Xylene | ug/kg wet | <50 | 50 | |
| Xylenes, total | ug/kg wet | <150 | 150 | |
| Styrene | ug/kg wet | <50 | 50 | |
| Bromoform | ug/kg wet | <100 | 100 | |
| Isopropylbenzene | ug/kg wet | <250 | 250 | |
| 1,1,2,2-Tetrachloroethane | ug/kg wet | <50 | 50 | |
| 1,2,3-Trichloropropane | ug/kg wet | <100 | 100 | |
| trans-1,4-Dichloro-2-butene | ug/kg wet | <50 | 50 | |
| Bromobenzene | ug/kg wet | <100 | 100 | |
| n-Propylbenzene | ug/kg wet | <100 | 100 | |
| 1,3,5-Trimethylbenzene | ug/kg wet | <100 | 100 | |
| t-Butyl Benzene | ug/kg wet | <50 | 50 | |
| 1,2,4-Trimethylbenzene | ug/kg wet | <100 | 100 | |
| sec-Butylbenzene | ug/kg wet | <50 | 50 | |
| p-Isopropyltoluene | ug/kg wet | <100 | 100 | |
| 1,3-Dichlorobenzene | ug/kg wet | <100 | 100 | |
| 1,4-Dichlorobenzene | ug/kg wet | <100 | 100 | |
| n-Butylbenzene | ug/kg wet | <50 | 50 | |
| 1,2,3-Trimethylbenzene | ug/kg wet | <50 | 50 | |
| 1,2-Dichlorobenzene | ug/kg wet | <100 | 100 | |
| 1,2-Dibromo-3-chloropropane | ug/kg wet | <100 | 100 | |
| Hexachloroethane | ug/kg wet | <100 | 100 | |
| 1,2,4-Trichlorobenzene | ug/kg wet | <330 | 330 | |
| Naphthalene | ug/kg wet | <330 | 330 | |
| 1,2,3-Trichlorobenzene | ug/kg wet | <250 | 250 | |


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**METHOD BLANK: T025111-BLK1**

| Parameter | Units | Blank Result | Reporting Limit | Notes |
|---|---|---|---|---|
| 2-Methylnaphthalene | ug/kg wet | <330 | 330 | |
| 1,2-Dichloroethane-d4 (S) | % | 77 | 68-133 | |
| Toluene-d8 (S) | % | 96 | 75-120 | |
| 4-Bromofluorobenzene (S) | % | 111 | 69-119 | |
| 1,2-Dichlorobenzene-d4 (S) | % | 97 | 72-127 | |

**LABORATORY CONTROL SAMPLE: T025111-BS1**

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limit | Notes |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ug/kg wet | 1000 | 838 | 84 | 64-156 | |
| Benzene | ug/kg wet | 1000 | 846 | 85 | 80-120 | |
| Trichloroethene | ug/kg wet | 1000 | 950 | 95 | 69-133 | |
| Toluene | ug/kg wet | 1000 | 842 | 84 | 80-120 | |
| Chlorobenzene | ug/kg wet | 1000 | 876 | 88 | 80-120 | |
| 1,2-Dichloroethane-d4 (S) | % | 30.0 | 24.8 | 82 | 68-133 | |
| Toluene-d8 (S) | % | 30.0 | 28.6 | 95 | 75-120 | |
| 4-Bromofluorobenzene (S) | % | 30.0 | 32.2 | 107 | 69-119 | |
| 1,2-Dichlorobenzene-d4 (S) | % | 30.0 | 27.5 | 92 | 72-127 | |

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T025111-MSD1** Original: **T11H306-08**

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ug/kg dry | 0 | 1160 | 756 | 809 | 65 | 70 | 60-146 | 7 | 15 | |
| Benzene | ug/kg dry | 0 | 1160 | 930 | 980 | 80 | 84 | 78-114 | 5 | 11 | |
| Trichloroethene | ug/kg dry | 0 | 1160 | 892 | 920 | 77 | 79 | 70-117 | 3 | 14 | |
| Toluene | ug/kg dry | 0 | 1160 | 931 | 969 | 80 | 83 | 77-118 | 4 | 10 | |
| Chlorobenzene | ug/kg dry | 0 | 1160 | 1000 | 1030 | 86 | 89 | 75-116 | 3 | 12 | |
| 1,2-Dichloroethane-d4 (S) | % | | 30.0 | 21.9 | 22.3 | 73 | 74 | 68-133 | | | |
| Toluene-d8 (S) | % | | 30.0 | 27.1 | 27.5 | 90 | 92 | 75-120 | | | |
| 4-Bromofluorobenzene (S) | % | | 30.0 | 31.8 | 31.9 | 106 | 106 | 69-119 | | | |
| 1,2-Dichlorobenzene-d4 (S) | % | | 30.0 | 28.2 | 28.5 | 94 | 95 | 72-127 | | | |

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

QC Batch: T025112
QC Batch Method: EPA 5035 Purge-and-Trap for Solids and Wastes
Analysis Description: Volatiles, Full MDEQ+ List
Analysis Method: EPA 8260B

**METHOD BLANK: T025112-BLK1**

| Parameter | Units | Blank Result | Reporting Limit | Notes |
|---|---|---|---|---|
| Dichlorodifluoromethane | ug/kg wet | <250 | 250 | |
| Chloromethane | ug/kg wet | <250 | 250 | |
| Vinyl chloride | ug/kg wet | <40 | 40 | |
| Bromomethane | ug/kg wet | <200 | 200 | |
| Chloroethane | ug/kg wet | <250 | 250 | |
| Trichlorofluoromethane | ug/kg wet | <100 | 100 | |
| Diethyl ether | ug/kg wet | <200 | 200 | |
| Tert-butyl alcohol | ug/kg wet | <2500 | 2500 | |

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**METHOD BLANK: T025112-BLK1**

| Parameter | Units | Blank Result | Reporting Limit | Notes |
|---|---|---|---|---|
| 1,1-Dichloroethene | ug/kg wet | <50 | 50 | |
| Acetone | ug/kg wet | <1000 | 1000 | |
| Iodomethane | ug/kg wet | <100 | 100 | |
| Carbon disulfide | ug/kg wet | <250 | 250 | |
| Methyl-tert-butyl ether | ug/kg wet | <250 | 250 | |
| Methylene chloride | ug/kg wet | <250 | 250 | |
| Acrylonitrile | ug/kg wet | <100 | 100 | |
| trans-1,2-Dichloroethene | ug/kg wet | <50 | 50 | |
| 1,1-Dichloroethane | ug/kg wet | <50 | 50 | |
| Diisopropyl Ether | ug/kg wet | <250 | 250 | |
| 2-Butanone | ug/kg wet | <750 | 750 | |
| cis-1,2-Dichloroethene | ug/kg wet | <50 | 50 | |
| t-Butyl Ethyl Ether | ug/kg wet | <250 | 250 | |
| Bromochloromethane | ug/kg wet | <100 | 100 | |
| Tetrahydrofuran | ug/kg wet | <1000 | 1000 | |
| Chloroform | ug/kg wet | <50 | 50 | |
| 1,1,1-Trichloroethane | ug/kg wet | <50 | 50 | |
| Carbon tetrachloride | ug/kg wet | <50 | 50 | |
| Benzene | ug/kg wet | <50 | 50 | |
| t-Amyl Methyl Ether | ug/kg wet | <250 | 250 | |
| 1,2-Dichloroethane | ug/kg wet | <50 | 50 | |
| Cyclohexane | ug/kg wet | <250 | 250 | |
| Trichloroethene | ug/kg wet | <50 | 50 | |
| 1,2-Dichloropropane | ug/kg wet | <50 | 50 | |
| Dibromomethane | ug/kg wet | <250 | 250 | |
| Bromodichloromethane | ug/kg wet | <100 | 100 | |
| cis-1,3-Dichloropropene | ug/kg wet | <50 | 50 | |
| 4-Methyl-2-pentanone | ug/kg wet | <2500 | 2500 | |
| Toluene | ug/kg wet | <100 | 100 | |
| trans-1,3-Dichloropropene | ug/kg wet | <50 | 50 | |
| 1,1,2-Trichloroethane | ug/kg wet | <50 | 50 | |
| Tetrachloroethene | ug/kg wet | <50 | 50 | |
| 2-Hexanone | ug/kg wet | <2500 | 2500 | |
| Dibromochloromethane | ug/kg wet | <100 | 100 | |
| 1,2-Dibromoethane (EDB) | ug/kg wet | <50 | 50 | |
| Chlorobenzene | ug/kg wet | <50 | 50 | |
| 1,1,1,2-Tetrachloroethane | ug/kg wet | <100 | 100 | |
| Ethylbenzene | ug/kg wet | <50 | 50 | |
| m,p-Xylene | ug/kg wet | <100 | 100 | |
| o-Xylene | ug/kg wet | <50 | 50 | |
| Xylenes, total | ug/kg wet | <150 | 150 | |
| Styrene | ug/kg wet | <50 | 50 | |
| Bromoform | ug/kg wet | <100 | 100 | |
| Isopropylbenzene | ug/kg wet | <250 | 250 | |
| 1,1,2,2-Tetrachloroethane | ug/kg wet | <50 | 50 | |
| 1,2,3-Trichloropropane | ug/kg wet | <100 | 100 | |
| trans-1,4-Dichloro-2-butene | ug/kg wet | <50 | 50 | |
| Bromobenzene | ug/kg wet | <100 | 100 | |
| n-Propylbenzene | ug/kg wet | <100 | 100 | |


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**METHOD BLANK: T025112-BLK1**

| Parameter | Units | Blank Result | Reporting Limit | Notes |
|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | ug/kg wet | <100 | 100 | |
| t-Butyl Benzene | ug/kg wet | <50 | 50 | |
| 1,2,4-Trimethylbenzene | ug/kg wet | <100 | 100 | |
| sec-Butylbenzene | ug/kg wet | <50 | 50 | |
| p-Isopropyltoluene | ug/kg wet | <100 | 100 | |
| 1,3-Dichlorobenzene | ug/kg wet | <100 | 100 | |
| 1,4-Dichlorobenzene | ug/kg wet | <100 | 100 | |
| n-Butylbenzene | ug/kg wet | <50 | 50 | |
| 1,2,3-Trimethylbenzene | ug/kg wet | <50 | 50 | |
| 1,2-Dichlorobenzene | ug/kg wet | <100 | 100 | |
| 1,2-Dibromo-3-chloropropane | ug/kg wet | <100 | 100 | |
| Hexachloroethane | ug/kg wet | <100 | 100 | |
| 1,2,4-Trichlorobenzene | ug/kg wet | <330 | 330 | |
| Naphthalene | ug/kg wet | <330 | 330 | |
| 1,2,3-Trichlorobenzene | ug/kg wet | <250 | 250 | |
| 2-Methylnaphthalene | ug/kg wet | <330 | 330 | |
| 1,2-Dichloroethane-d4 (S) | % | 102 | 68-133 | |
| Toluene-d8 (S) | % | 88 | 75-120 | |
| 4-Bromofluorobenzene (S) | % | 118 | 69-119 | |
| 1,2-Dichlorobenzene-d4 (S) | % | 117 | 72-127 | |

**LABORATORY CONTROL SAMPLE: T025112-BS1**

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limit | Notes |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ug/kg wet | 25.0 | <50 | 85 | 64-156 | |
| Benzene | ug/kg wet | 25.0 | <50 | 108 | 80-120 | |
| Trichloroethene | ug/kg wet | 25.0 | <50 | 111 | 69-133 | |
| Toluene | ug/kg wet | 25.0 | <100 | 92 | 80-120 | |
| Chlorobenzene | ug/kg wet | 25.0 | <50 | 100 | 80-120 | |
| 1,2-Dichloroethane-d4 (S) | % | 40.0 | 40.1 | 100 | 68-133 | |
| Toluene-d8 (S) | % | 50.2 | 44.2 | 88 | 75-120 | |
| **4-Bromofluorobenzene (S)** | **%** | **60.0** | **74.9** | **125** | **69-119** | **305** |
| 1,2-Dichlorobenzene-d4 (S) | % | 60.0 | 72.8 | 121 | 72-127 | |

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T025112-MSD1** Original: **T11H306-27**

| Parameter | Units | Original Result | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limit | RPD | Max RPD | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ug/kg dry | 0 | 1010 | 872 | 853 | 86 | 85 | 60-146 | 2 | 15 | |
| **Benzene** | **ug/kg dry** | **0** | **1010** | **1240** | **1210** | **123** | **120** | **78-114** | **2** | **11** | **230** |
| **Trichloroethene** | **ug/kg dry** | **0** | **1010** | **1210** | **1180** | **120** | **118** | **70-117** | **2** | **14** | **230** |
| Toluene | ug/kg dry | 0 | 1010 | 1190 | 1160 | 118 | 115 | 77-118 | 2 | 10 | |
| **Chlorobenzene** | **ug/kg dry** | **0** | **1010** | **1270** | **1230** | **126** | **122** | **75-116** | **3** | **12** | **230** |
| 1,2-Dichloroethane-d4 (S) | % | | 40.0 | 32.8 | 32.7 | 82 | 82 | 68-133 | | | |
| Toluene-d8 (S) | % | | 50.2 | 45.7 | 45.6 | 91 | 91 | 75-120 | | | |
| **4-Bromofluorobenzene (S)** | **%** | | **60.0** | **73.8** | **72.2** | **123** | **120** | **69-119** | | | **312.5** |
| 1,2-Dichlorobenzene-d4 (S) | % | | 60.0 | 74.4 | 72.6 | 124 | 121 | 72-127 | | | |

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

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toll-free 800.733.5998
fax 231.773.6537

*Trace Analytical Laboratories, Inc.*
2241 Black Creek Road
Muskegon, MI 49444-2673
info@trace-labs.com
www.trace-labs.com

QC Batch: T024990
QC Batch Method: % Solids
Analysis Description: Solids, Dry Weight
Analysis Method: % Calculation

**SAMPLE DUPLICATE: T024990-DUP1** Original: **T11H306-08**

| Parameter | Units | Original Result | DUP Result | RPD | Max RPD | Notes |
|---|---|---|---|---|---|---|
| % Solids | % by Wt. | 89.6 | 92.7 | 3 | 20 | |

Trace Project ID: T11H306
Client Project ID: 456753 Former Acme Industries

QC Batch: T024992
QC Batch Method: % Solids
Analysis Description: Solids, Dry Weight
Analysis Method: % Calculation

**SAMPLE DUPLICATE: T024992-DUP1** Original: **T11H306-14**

| Parameter | Units | Original Result | DUP Result | RPD | Max RPD | Notes |
|---|---|---|---|---|---|---|
| % Solids | % by Wt. | 87.1 | 85.8 | 2 | 20 | |

**SAMPLE DUPLICATE: T024992-DUP2** Original: **T11H306-27**

| Parameter | Units | Original Result | DUP Result | RPD | Max RPD | Notes |
|---|---|---|---|---|---|---|
| % Solids | % by Wt. | 98.4 | 88.6 | 10 | 20 | |

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# CHAIN-OF-CUSTODY RECORD

9/12/11

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Page 1 of 4

TRACE ID NO. T11H306

**TRACE USE ONLY**

Logged By: [signature] Checked By: [signature]

Received on ice: (Yes) No Preservative Checked: Yes No (N/A)

Soil Volatiles Preserved: (MeOH) Low Level Lab Sampling Time:

**Report Results To:**

Client Name: MDEQ - RD

Contact Person: Joseph Wodczak

Mailing Address:

City, State, Zip Code:

Phone: Fax:

Email Address:

Cell #: Sampled by: RW

Project Name & #: Former Game Industries

**Bill To:**

Billing Address (if different)

City, State, Zip Code

Attn: Phone: PO #:

| Regulatory Requirements | | Turnaround Requirements | | Matrix Key | |
|---|---|---|---|---|---|
| MERA TMDL's | ☐ | Standard | ☐ | S = Soil | WI = Wipes |
| Drinking Water | ☐ | 3-4 Day (RUSH)* | ☐ | W = Water | LW = Liquid Waste |
| NPDES | ☐ | 24-48 Hour (RUSH)* | ☐ | SE = Sediment | A = Air |
| USACE | ☐ | * Requires prior approval | | OI = Oil | D = Drinking Water |
| Special | ☐ | | | SO = Solid Waste | SL = Sludge |

**Request for Analytical Services**

ANALYSIS REQUESTED

| TRACE NO. | DATE TAKEN | TIME TAKEN | METALS FIELD FILTERED | CLIENT SAMPLE ID | MATRIX | NUMBER OF CONTAINERS | VOC MDEQ Full List | REMARKS | Possible Health Hazard |
|---|---|---|---|---|---|---|---|---|---|
| 01 | 8/25/11 | 06:30 | | TB-4 | S | 1 | X | | |
| 02 | | 10:00 | | SS-5 -12.5 | | | | | |
| 03 | | 10:10 | | SS-5 - 15.0 | | | | | |
| 04 | | 10:20 | | SS-5 -17.5 | | | | | |
| 05 | | 10:30 | | SS-5 -20.0 | | | | | |
| 06 | | 13:20 | | SS-56 -2.5 | | | | | |
| 07 | | 13:30 | | SS-56 -5.0 | | | | | |
| 08 | | 13:40 | | SS-56 -7.5 | | | | | |
| 08 | | 13:40 | | SS-56 7.5 MS | | | | | |
| 08 | | 13:40 | | SS-56 7.5 MSD | | | X | | |

**Please Sign**

| Item # | RELEASED BY | RECEIVED BY | DATE | TIME | Item # | RELEASED BY | RECEIVED BY | DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|
| | 1) [signature] | [signature] | 8-29-11 | 13:40 | | 3) WALK-IN | [signature] | 8/30/11 | 8:10 |
| | 2) [signature] | Walk In | 8-29-11 | 17:00 | | 4) | | | |

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TRACE ID NO. T11H306

**TRACE USE ONLY**

Logged By: [signature] Checked By: BMC

Received on ice: (Yes) No Preservative Checked: Yes No (N/A)

Soil Volatiles Preserved: (MeOH) Low Level Lab Sampling Time:

**Report Results To:**

Client Name: MDEQ -RD

Contact Person:

Mailing Address:

City, State, Zip Code:

Phone: Fax:

Email Address:

Cell #: Sampled by: rw

Project Name & #: Former Acme Industries.

**Bill To:**

Billing Address (if different)

City, State, Zip Code

Attn: Phone: PO #:

| Regulatory Requirements | | Turnaround Requirements | | Matrix Key | |
|---|---|---|---|---|---|
| MERA TMDL's | ☐ | Standard | ☐ | S = Soil | WI = Wipes |
| Drinking Water | ☐ | 3-4 Day (RUSH)* | ☐ | W = Water | LW = Liquid Waste |
| NPDES | ☐ | 24-48 Hour (RUSH)* | ☐ | SE = Sediment | A = Air |
| USACE | ☐ | * Requires prior approval | | OI = Oil | D = Drinking Water |
| Special | ☐ | | | SO = Solid Waste | SL = Sludge |

**Request for Analytical Services**

ANALYSIS REQUESTED

| TRACE NO. | DATE TAKEN | TIME TAKEN | METALS, FIELD FILTERED | CLIENT SAMPLE ID | MATRIX | NUMBER OF CONTAINERS | VOC MDEQ | REMARKS | Possible Health Hazard |
|---|---|---|---|---|---|---|---|---|---|
| 09 | 8/25/11 | 13:50 | | SS-56-10.0 | S | 1 | X | | |
| 10 | | 14:10 | | SS-56-12.5 | | | | | |
| 11 | | 14:20 | | SS-56-15.0 | | | | | |
| 12 | | 14:30 | | SS-56-17.5 | | | | | |
| 13 | | 14:45 | | SS-56-20.0 | | | | | |
| 14 | | 15:20 | | SS-57-2.5 | | | | | |
| 14 | | 15:20 | | SS-57-2.5MS | | | | | |
| 14 | | 15:20 | | SS-57-2.5MSD | | | | | |
| 15 | | 15:30 | | SS-57-5.0 | | | | | |
| 16 | | 15:35 | | SS-57-7.5 | | | | | |

**Please Sign**

| Item # | RELEASED BY | RECEIVED BY | DATE | TIME | Item # | RELEASED BY | RECEIVED BY | DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|
| | 1) [signature] | [signature] | 8-29-11 | 13:40 | | 3) WALK-IN | [signature] | 8/30/11 | 8:10 |
| | 2) [signature] | Walk In | 8-29-11 | 17:00 | | 4) | | | |

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Page 3 of 4

TRACE ID NO. T11H306

**TRACE USE ONLY**

Logged By: [illegible] Checked By: [illegible]

Received on ice: (Yes) No Preservative Checked: Yes No (N/A)

Soil Volatiles Preserved: (MeOH) Low Level Lab Sampling Time:

**Report Results To:**

Client Name: MDEQ -RD

Contact Person:

Mailing Address:

City, State, Zip Code:

Phone: Fax:

Email Address:

Cell #: Sampled by: rw

Project Name & #: Former Clime Industries.

| Regulatory Requirements | | Turnaround Requirements | | Matrix Key | |
|---|---|---|---|---|---|
| MERA TMDL's | ☐ | Standard | ☐ | S = Soil | WI = Wipes |
| Drinking Water | ☐ | 3-4 Day (RUSH)* | ☐ | W = Water | LW = Liquid Waste |
| NPDES | ☐ | 24-48 Hour (RUSH)* | ☐ | SE = Sediment | A = Air |
| USACE | ☐ | * Requires prior approval | | OI = Oil | D = Drinking Water |
| Special | ☐ | | | SO = Solid Waste | SL = Sludge |

**Bill To:**

Billing Address (if different)

City, State, Zip Code

Attn: Phone: PO #:

**Request for Analytical Services**

ANALYSIS REQUESTED

| TRACE NO. | DATE TAKEN | TIME TAKEN | METALS FIELD FILTERED | CLIENT SAMPLE ID | MATRIX | NUMBER OF CONTAINERS | VOC PID-FID | REMARKS | Possible Health Hazard |
|---|---|---|---|---|---|---|---|---|---|
| 17 | 8/25/11 | 15:45 | | SS-57-10.0 | S | 1 | X | | |
| 18 | | 15:55 | | SS-57-12.5 | | | | | |
| 19 | | 16:05 | | SS-57-15.0 | | | | | |
| 20 | | 17:00 | | SS-57-17.5 | | | | | |
| 21 | | 1500 | | M-4S | | | | | |
| 22 | | 1710 | | M-5S | | | | | |
| 23 | | 1820 | | M-6S | | | | | |
| 24 | | 1735 | | SS-3-2.5 | | | | | |
| 25 | | 1740 | | SS-3-~~3.0~~ 5.0 | | | | | |
| 26 | | 1745 | | SS-3-7.5 | | | | | |

**Please Sign**

| Item # | RELEASED BY | RECEIVED BY | DATE | TIME | Item # | RELEASED BY | RECEIVED BY | DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|
| | 1) [illegible] | [illegible] | 8-29-11 | 13:40 | | 3) WALK-IN | [illegible] | 8/30/11 | 8:10 |
| | 2) [illegible] | Walk In | 8-29-11 | 17:00 | | 4) | | | |

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Page 4 of 4

TRACE ID NO. T11H306

**TRACE USE ONLY**

Logged By: [signature] Checked By: [signature]

Received on ice: Yes No Preservative Checked: Yes No N/A

Soil Volatiles Preserved: MeOH Low Level Lab Sampling Time:

**Report Results To:**

Client Name: MDEQ RD

Contact Person:

Mailing Address:

City, State, Zip Code:

Phone: Fax:

Email Address:

Cell #: Sampled by: RW

Project Name & #: Former Acme Industries.

**Bill To:**

Billing Address (if different)

City, State, Zip Code

Attn: Phone: PO #:

| Regulatory Requirements | | Turnaround Requirements | | Matrix Key | |
|---|---|---|---|---|---|
| MERA TMDL's | ☐ | Standard | ☐ | S = Soil | WI = Wipes |
| Drinking Water | ☐ | 3-4 Day (RUSH)* | ☐ | W = Water | LW = Liquid Waste |
| NPDES | ☐ | 24-48 Hour (RUSH)* | ☐ | SE = Sediment | A = Air |
| USACE | ☐ | * Requires prior approval | | OI = Oil | D = Drinking Water |
| Special | ☐ | | | SO = Solid Waste | SL = Sludge |

ANALYSIS REQUESTED

**Request for Analytical Services**

| TRACE NO. | DATE TAKEN | TIME TAKEN | METALS FIELD FILTERED | CLIENT SAMPLE ID | MATRIX | NUMBER OF CONTAINERS | VOC DEQ | REMARKS | Possible Health Hazard |
|---|---|---|---|---|---|---|---|---|---|
| 27 | 8/25/11 | 17:55 | | SS-3-10.0 | S | 1 | X | | |
| 27 | | 17:55 | | SS-3-10.0 MS | | | | | |
| 27 | | 17:55 | | SS-3-10.0 MSD | | | | | |
| 28 | | 1810 | | SS-3-12.0 | | | | | |

MMB 8/29/11

**Please Sign**

| Item # | RELEASED BY | RECEIVED BY | DATE | TIME | Item # | RELEASED BY | RECEIVED BY | DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|
| | 1) [signature] | [signature] | 8-29-11 | 13:40 | | 3) COA/K-IN | [signature] | 8/30/11 | 8:10 |
| | 2) [signature] | [signature] | 8-29-11 | 17:00 | | 4) | | | |

In executing this Chain of Custody, the client acknowledges acceptance of the terms and conditions of the agreement as set forth at http://www.trace-labs.com/cocterms.php

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# SAMPLE LOG IN CHECKLIST

Date: 8-30-11 Client Name: MDEQ # of Coolers: 1

Trace ID #: T11H306 Project Name: Cooler #s:

Logged in by: Cooler #s:

## Cooler Receipt

Cooler/samples delivered by: Trace courier [X] Hand delivered [ ] Commercial courier [ ] Name of delivery person: Tim B UPS [ ] DHL [ ] FED EX [ ] US Mail [ ]

Did cooler come with a bill of lading? No [ ] Yes [ ] [X] Not Applicable Way Bill or Tracking #:

COC Seals present and intact on cooler? No [ ] Yes [ ] [X] Not Applicable

Custody seals signed by Client? No [ ] Yes [ ] Client custody seal # (if applicable):

## Coolant and Temperature

### Type of Coolant Used

| | Yes | No |
|---|---|---|
| Slurry w/ crushed, cubed, or chip ice? | [ ] | [ ] |
| Multiple bags of ice around samples? | [X] | [ ] |
| Ice Packs/ Blue Ice : | [ ] | [ ] |
| No Coolant Present: | [ ] | |

### Cooler Temperature

Correction Factor -0.3 °C

Date: 8-30-11 Time: 8:10

Temperature Blank: °C

Range of 3 samples: 6 - 4 °C

Melt Water: °C

Ice still present upon receipt: [X] Yes [ ] No

## General

| | Yes | No | NA |
|---|---|---|---|
| COC taped to inside of cooler lid? | [ ] | [X] | [ ] |
| All bottles arrived unbroken with labels in good condition? | [X] | [ ] | [ ] |
| Each sample point is in a sealed plastic bag? | [X] | [ ] | [ ] |
| Labels filled out completely? | [X] | [ ] | [ ] |
| All bottle labels agree with Chain of Custody (COC)? | [X] | [ ] | [ ] |
| Sufficient sample to run tests requested? | [X] | [ ] | [ ] |
| pH checked and samples at correct pH? | [ ] | [ ] | [X] |
| Correct preservative added to samples? | [X] | [ ] | [ ] |
| DRO/GRO samples received and appropriate check in form completed? | [X] | [ ] | [ ] |
| Air bubbles absent from VOAs? | [ ] | [ ] | [X] |
| COC filled out properly and signed by client? | [X] | [ ] | [ ] |
| COC signed in by TRACE sample custodian? | [X] | [ ] | [ ] |
| Was project manager called and samples discussed? | [ ] | [ ] | [ ] |

Contact: Date:

Notes:

Rev.8 11/21/06

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MICHIGAN DEPT. OF NATURAL RESOURCES AND ENVIRONMENT
ENVIRONMENTAL LABORATORY
ANALYSIS REQUEST SHEET

Goldenrod
Page 1 of 4

LAB ORDER #

MATRIX=SEDIMENT/SOIL/SOLIDS

SITE CODE NUMBER | SITE NAME: Former Acme Industries | ACCEPT HT CODES? ~~YES~~ NO If yes, which parameters?

| DIVISION | DISTRICT/OFFICE | MDNRE PROJECT MANAGER | E-MAIL ADDRESS | PHONE |
|---|---|---|---|---|
| RD | Superfund | Joseph Walczak | walczakj@michigan.gov | 335-2151 |

| PRIMARY CONTACT PERSON | CONTRACT FIRM NAME (if applicable) | PHONE | AY: 11 INDEX: 440982 PROJECT: 456753 | PCA: PH: 19 |
|---|---|---|---|---|
| Joseph Walczak | | 335-2151 | | |

OVERFLOW LAB (Required)
1ST CHOICE: Trace 2ND CHOICE: Tri-Matrix

E-MAIL ADDRESSES TO SEND ADDITIONAL REPORTS TO:
1.) PFrench@enviologic.com
2.)

COLLECTED BY: Robert Webster PHONE: 269-342-1100

**** SAFETY INFORMATION REQUIRED ****
SEE BACK OF FORM

| LAB USE ONLY | | FIELD ID (Sample Identification) | SAMPLE COLLECTED DATE MM/DD/YY | SAMPLE COLLECTED TIME MILITARY | GPS COORDINATES LATITUDE | GPS COORDINATES LONGITUDE | COMMENT |
|---|---|---|---|---|---|---|---|
| 1 | AB | TB4 | 8/25/11 | 0630 | | | |
| 2 | AB | SS-5-12.5 | | 1000 | | | |
| 3 | AB | SS-5-15.0 | | 1010 | | | |
| 4 | AB | SS-5-17.5 | | 1020 | | | |
| 5 | AB | SS-5-20.0 | | 1030 | | | |
| 6 | AB | SS-56-2.5 | | 1320 | | | |
| 7 | AB | SS-56-5.0 | | 1330 | | | |
| 8 | AB | SS-56-7.5 | | 1340 | | | |
| 9 | AB | SS-56-7.5-MS | | 1340 | | | |
| 10 | AB | SS-56-7.5-MSD | | 1340 | | | |

ORGANIC

VOA VOLATILES *(MeOH/8260)
- VOC - Full List: 1 2 3 4 5 6 7 8 9 10
- BTEX/MTBE/TMB only: 1 2 3 4 5 6 7 8 9 10
- Chlorinated only: 1 2 3 4 5 6 7 8 9 10
- GRO: 1 2 3 4 5 6 7 8 9 10
- 1,4 Dioxane: 1 2 3 4 5 6 7 8 9 10

OS PESTICIDES/PCBS (8081/8082)
- Pesticides & PCBs: 1 2 3 4 5 6 7 8 9 10
- Pesticides only: 1 2 3 4 5 6 7 8 9 10
- Specialty Pesticides: 1 2 3 4 5 6 7 8 9 10
- Toxaphene: 1 2 3 4 5 6 7 8 9 10
- PCBs only: 1 2 3 4 5 6 7 8 9 10

BNA BASE NEUTRAL & ACIDS (8270)
- BNAs: 1 2 3 4 5 6 7 8 9 10
- PNAs only: 1 2 3 4 5 6 7 8 9 10
- BNs only: 1 2 3 4 5 6 7 8 9 10

ORGANIC SPECIAL REQUESTS
- Library Search - Volatiles: 1 2 3 4 5 6 7 8 9 10
- Library Search - Semi-Vols: 1 2 3 4 5 6 7 8 9 10
- Finger Print - : 1 2 3 4 5 6 7 8 9 10
- DRO/ORO (8015): 1 2 3 4 5 6 7 8 9 10
- Low Level PNA: 1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY
- GS
- COD: 1 2 3 4 5 6 7 8 9 10
- TOC: 1 2 3 4 5 6 7 8 9 10
- KJEL N, Tot. P: 1 2 3 4 5 6 7 8 9 10
- Phenolics: 1 2 3 4 5 6 7 8 9 10
- Total CN: 1 2 3 4 5 6 7 8 9 10
- Available Cyanide: 1 2 3 4 5 6 7 8 9 10
- Flash Point (1030): 1 2 3 4 5 6 7 8 9 10
- Other _____: 1 2 3 4 5 6 7 8 9 10

INORGANIC
- MICH TEN METALS (As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn): 1 2 3 4 5 6 7 8 9 10
- OP MEMO 2 Metals (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn): 1 2 3 4 5 6 7 8 9 10

1Circle Requested Metal and Corresponding Sample No.1

- Al Sb As Ba Be Cd Cr Co Cu Fe Pb Li Mn Hg Mo Ni Se Ag Sr Tl Ti V Zn: 1 2 3 4 5 6 7 8 9 10
- Pb (BOTH COARSE & FINE): 1 2 3 4 5 6 7 8 9 10
- Low Level Mercury: 1 2 3 4 5 6 7 8 9 10
- Ca Mg K Na: 1 2 3 4 5 6 7 8 9 10
- % Total Solids: 1 2 3 4 5 6 7 8 9 10

Chain-of-Custody

| RELEASED BY / ORGANIZATION | RECEIVED BY / ORGANIZATION | DATE | TIME |
|---|---|---|---|
| Print Name & Organization: Robert Webster, Enviologic Technologies<br>Signature: [signature] | Print Name & Organization: Joseph Walczak - DEQ<br>Signature: [signature] | 8/25/11 | 1825 |
| Print Name & Organization: Joseph Walczak - DEQ<br>Signature: [signature] | Print Name & Organization:<br>Signature: | | |
| Print Name & Organization:<br>Signature: | Print Name & Organization:<br>Signature: | | |

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MICHIGAN DEPT. OF NATURAL RESOURCES AND ENVIRONMENT
ENVIRONMENTAL LABORATORY
ANALYSIS REQUEST SHEET

Goldenrod
Page 3 of 4

LAB ORDER #

MATRIX=SEDIMENT/SOIL/SOLIDS

| SITE CODE NUMBER | SITE NAME | ACCEPT HT CODES? |
|---|---|---|
| | Former Acme Industries | YES NO If yes, which parameters? |

| DIVISION | DISTRICT/OFFICE | MDNRE PROJECT MANAGER | E-MAIL ADDRESS | PHONE |
|---|---|---|---|---|
| RD | Superfund | Joseph Walczak | walczakj@michigan.gov | 335-2151 |

| PRIMARY CONTACT PERSON | CONTRACT FIRM NAME (if applicable) | PHONE | AY: 11 INDEX: 44092 PROJECT: 456753 | PCA: PH: 19 |
|---|---|---|---|---|
| Joseph Walczak | | 335-2151 | | |

| OVERFLOW LAB (Required) | | E-MAIL ADDRESSES TO SEND ADDITIONAL REPORTS TO: |
|---|---|---|
| 1ST CHOICE: Trace | 2ND CHOICE: Tri-Metrix | 1.) BFranch@envirologic.com |
| COLLECTED BY: Robert Webster | PHONE: 269-342-1100 | 2.) |

**** SAFETY INFORMATION REQUIRED ****
SEE BACK OF FORM

| LAB USE ONLY | | FIELD ID (Sample Identification) | SAMPLE COLLECTED DATE MM/DD/YY | SAMPLE COLLECTED TIME MILITARY | GPS COORDINATES LATITUDE | GPS COORDINATES LONGITUDE | COMMENT |
|---|---|---|---|---|---|---|---|
| 1 | AB | SS-57-10.0 | 8/25/11 | 1545 | | | |
| 2 | AB | SS-57-12.5 | | 1555 | | | |
| 3 | AB | SS-57-15.0 | | 1605 | | | |
| 4 | AB | SS-57-17.5 | | 1700 | | | |
| 5 | AB | M-4S | | 1500 | | | |
| 6 | AB | M-5S | | 1710 | | | |
| 7 | AB | M-6S | | 1820 | | | |
| 8 | AB | SS-3-2.5 | | 1735 | | | |
| 9 | AB | SS-3-5.0 | | 1740 | | | |
| 10 | AB | SS-3-7.5 | | 1745 | | | |

**ORGANIC**

VOA VOLATILES *(MeOH/8260)
- VOC - Full List 1 2 3 4 5 6 7 8 9 10
- BTEX/MTBE/TMB only 1 2 3 4 5 6 7 8 9 10
- Chlorinated only 1 2 3 4 5 6 7 8 9 10
- GRO 1 2 3 4 5 6 7 8 9 10
- 1,4 Dioxane 1 2 3 4 5 6 7 8 9 10

OS PESTICIDES/PCBS (8081/8082)
- Pesticides & PCBs 1 2 3 4 5 6 7 8 9 10
- Pesticides only 1 2 3 4 5 6 7 8 9 10
- Specialty Pesticides 1 2 3 4 5 6 7 8 9 10
- Toxaphene 1 2 3 4 5 6 7 8 9 10
- PCBs only 1 2 3 4 5 6 7 8 9 10

BNA BASE NEUTRAL & ACIDS (8270)
- BNAs 1 2 3 4 5 6 7 8 9 10
- PNAs only 1 2 3 4 5 6 7 8 9 10
- BNs only 1 2 3 4 5 6 7 8 9 10

ORGANIC SPECIAL REQUESTS
- Library Search - Volatiles 1 2 3 4 5 6 7 8 9 10
- Library Search - Semi-Volt 1 2 3 4 5 6 7 8 9 10
- FingerPrint - 1 2 3 4 5 6 7 8 9 10
- DRO/ORO (8015) 1 2 3 4 5 6 7 8 9 10
- Low Level PNA 1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY
- GS
- COD 1 2 3 4 5 6 7 8 9 10
- TOC 1 2 3 4 5 6 7 8 9 10
- KJEL N, Tot. P 1 2 3 4 5 6 7 8 9 10
- Phenolics 1 2 3 4 5 6 7 8 9 10
- Total CN 1 2 3 4 5 6 7 8 9 10
- Available Cyanide 1 2 3 4 5 6 7 8 9 10
- Flash Point (1030) 1 2 3 4 5 6 7 8 9 10
- Other _____ 1 2 3 4 5 6 7 8 9 10

**INORGANIC**

MICH TEN METALS 1 2 3 4 5 6 7 8 9 10
(As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn)

OP MEMO 2 Metals 1 2 3 4 5 6 7 8 9 10
(Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Hg, Mo, Ni, Se, Ag, Tl, V, Zn)

{Circle Requested Metal and Corresponding Sample No.}

Al Sb As Ba Be Cd Cr Co Cu Fe Pb Li Mn Hg Mo Ni Se Ag Sr Tl Ti V Zn 1 2 3 4 5 6 7 8 9 10

Pb (BOTH COARSE & FINE) 1 2 3 4 5 6 7 8 9 10

Low Level Mercury 1 2 3 4 5 6 7 8 9 10

Ca Mg K Na 1 2 3 4 5 6 7 8 9 10

% Total Solids 1 2 3 4 5 6 7 8 9 10

Chain-of-Custody

| RELEASED BY / ORGANIZATION | RECEIVED BY / ORGANIZATION | DATE | TIME |
|---|---|---|---|
| Print Name & Organization: Robert Webster, Envirologic Technologies | Print Name & Organization: Joseph Walczak - DEQ | 8/25/11 | 1425 |
| Signature: Robert Webster | Signature: Joseph Walczak | | |
| Print Name & Organization: Joseph Walczak | Print Name & Organization: | | |
| Signature: Joseph Walczak | Signature: | | |
| Print Name & Organization: | Print Name & Organization: | | |
| Signature: | Signature: | | |

**CERTIFICATE OF ANALYSIS**

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toll-free 800.733.5998
fax 231.773.6537

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673
info@trace-labs.com
www.trace-labs.com



MICHIGAN DEPT. OF NATURAL RESOURCES AND ENVIRONMENT
ENVIRONMENTAL LABORATORY
ANALYSIS REQUEST SHEET

Goldenrod
Page 2 of 4

MATRIX=SEDIMENT/SOIL/SOLIDS

LAB ORDER #

SITE CODE NUMBER | SITE NAME: Former Acme Industries | ACCEPT HT CODES? YES / NO If yes, which parameters?

| DIVISION | DISTRICT/OFFICE | MDNRE PROJECT MANAGER | E-MAIL ADDRESS | PHONE |
|---|---|---|---|---|
| RD | Superfund | Joseph Walczak | walczakj @michigan.gov | 335-2151 |

| PRIMARY CONTACT PERSON | CONTRACT FIRM NAME (if applicable) | PHONE | A.Y: 11 INDEX: 44092 PROJECT: 456753 | PCA: PH: 19 |
|---|---|---|---|---|
| Joseph Walczak | | 335-2151 | | |

OVERFLOW LAB (Required)
1ST CHOICE: Trace 2ND CHOICE: Trix Matrix

E-MAIL ADDRESSES TO SEND ADDITIONAL REPORTS TO:
1.) pfrench@envirologic.com
2.)

COLLECTED BY: Robert Webster PHONE: 269-342-1100

**** SAFETY INFORMATION REQUIRED ****
SEE BACK OF FORM

| LAB USE ONLY | | FIELD ID (Sample Identification) | SAMPLE COLLECTED DATE MM/DD/YY | SAMPLE COLLECTED TIME MILITARY | GPS COORDINATES LATITUDE | GPS COORDINATES LONGITUDE | COMMENT |
|---|---|---|---|---|---|---|---|
| 1 | AB | SS-56-10.0 | 8/25/11 | 1350 | | | |
| 2 | AB | SS-56-12.5 | | 1410 | | | |
| 3 | AB | SS-56-15.0 | | 1420 | | | |
| 4 | AB | SS-56-17.5 | | 1430 | | | |
| 5 | AB | SS-56-20.0 | | 1445 | | | |
| 6 | AB | SS-57-2.5 | | 1520 | | | |
| 7 | AB | SS-57-2.5MS | | 1520 | | | |
| 8 | AB | SS-57-2.5MSD | | 1520 | | | |
| 9 | AB | SS-57-5.0 | | 1530 | | | |
| 10 | AB | SS-57-7.5 | | 1535 | | | |

## ORGANIC

VOA VOLATILES *(MeOH/8260)
- VOC - Full List 1 2 3 4 5 6 7 8 9 10
- BTEX/MTBE/TMB only 1 2 3 4 5 6 7 8 9 10
- Chlorinated only 1 2 3 4 5 6 7 8 9 10
- GRO 1 2 3 4 5 6 7 8 9 10
- 1,4 Dioxane 1 2 3 4 5 6 7 8 9 10

OS PESTICIDES/PCBS (8081/8082)
- Pesticides & PCBs 1 2 3 4 5 6 7 8 9 10
- Pesticides only 1 2 3 4 5 6 7 8 9 10
- Specialty Pesticides 1 2 3 4 5 6 7 8 9 10
- Toxaphene 1 2 3 4 5 6 7 8 9 10
- PCBs only 1 2 3 4 5 6 7 8 9 10

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- BNAs 1 2 3 4 5 6 7 8 9 10
- PNAs only 1 2 3 4 5 6 7 8 9 10
- BNs only 1 2 3 4 5 6 7 8 9 10

ORGANIC SPECIAL REQUESTS
- Library Search - Volatiles 1 2 3 4 5 6 7 8 9 10
- Library Search - Semi-Vols 1 2 3 4 5 6 7 8 9 10
- FingerPrint - 1 2 3 4 5 6 7 8 9 10
- DRO/ORO (8015) 1 2 3 4 5 6 7 8 9 10
- Low Level PNA 1 2 3 4 5 6 7 8 9 10

GENERAL CHEMISTRY

GS
- COD 1 2 3 4 5 6 7 8 9 10
- TOC 1 2 3 4 5 6 7 8 9 10
- KJEL N, Tot. P 1 2 3 4 5 6 7 8 9 10
- Phenolics 1 2 3 4 5 6 7 8 9 10
- Total CN 1 2 3 4 5 6 7 8 9 10
- Available Cyanide 1 2 3 4 5 6 7 8 9 10
- Flash Point (1030) 1 2 3 4 5 6 7 8 9 10
- Other _____ 1 2 3 4 5 6 7 8 9 10

## INORGANIC

- MICH TEN METALS 1 2 3 4 5 6 7 8 9 10 (As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn)
- OP MEMO 2 Metals 1 2 3 4 5 6 7 8 9 10 (Sb,As,Ba,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn)

↓Circle Requested Metal and Corresponding Sample No.↓

Al Sb As Ba Be Cd Cr Co Cu Fe Pb Li Mn Hg Mo Ni Se Ag Sr Tl Ti V Zn 1 2 3 4 5 6 7 8 9 10

- Pb (BOTH COARSE & FINE) 1 2 3 4 5 6 7 8 9 10
- Low Level Mercury 1 2 3 4 5 6 7 8 9 10
- Ca Mg K Na 1 2 3 4 5 6 7 8 9 10
- % Total Solids 1 2 3 4 5 6 7 8 9 10

Chain-of-Custody

| RELEASED BY / ORGANIZATION | RECEIVED BY / ORGANIZATION | DATE | TIME |
|---|---|---|---|
| Print Name & Organization: Robert Webster, Envirologic Technologies | Print Name & Organization: Joseph Walczak - DEQ | 8/25/11 | 1825 |
| Signature: [signature] | Signature: [signature] | | |
| Print Name & Organization: Joseph Walczak - DEQ | Print Name & Organization | | |
| Signature: [signature] | Signature | | |
| Print Name & Organization | Print Name & Organization | | |
| Signature | Signature | | |

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Goldenrod
Page 4 of 4

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| PRIMARY CONTACT PERSON | CONTRACT FIRM NAME (If applicable) | PHONE | AY: 11 INDEX: 44092 PCA: |
|---|---|---|---|
| Joseph Walczak | | 335-2151 | PROJECT: 456753 PH: 19 |

1ST CHOICE: Trace | OVERFLOW LAB (Required) 2ND CHOICE: Tri-Matrix

COLLECTED BY: Robert Webster | PHONE: 269-342-1100

E-MAIL ADDRESSES TO SEND ADDITIONAL REPORTS TO:
1.) Bfrench@enviologic.com
2.)

**** SAFETY INFORMATION REQUIRED ****
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| LAB USE ONLY | | FIELD ID (Sample Identification) | SAMPLE COLLECTED DATE MM/DD/YY | SAMPLE COLLECTED TIME MILITARY | GPS COORDINATES LATITUDE | GPS COORDINATES LONGITUDE | COMMENT |
|---|---|---|---|---|---|---|---|
| 1 | AB | SS-3-10.0 | 8/25/11 | 1755 | | | |
| 2 | AB | SS-3-10.0-MS | | 1755 | | | |
| 3 | AB | SS-3-10.0-MSD | | 1755 | | | |
| 4 | AB | SS-3-12.0 | | 1810 | | | |
| 5 | AB | | | | | | |
| 6 | AB | | | | | | |
| 7 | AB | | | | | | |
| 8 | AB | | | | | | |
| 9 | AB | | | | | | |
| 10 | AB | | | | | | |

## ORGANIC

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- FingerPrint - 1 2 3 4 5 6 7 8 9 10
- DRO/ORO (8015) 1 2 3 4 5 6 7 8 9 10
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- Available Cyanide 1 2 3 4 5 6 7 8 9 10
- Flash Point (1030) 1 2 3 4 5 6 7 8 9 10
- Other _____ 1 2 3 4 5 6 7 8 9 10

## INORGANIC

- MICH TEN METALS (As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn) 1 2 3 4 5 6 7 8 9 10
- OP MEMO 2 Metals* (Sb,As,Ba,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Hg,Mo,Ni,Se,Ag,Tl,V,Zn) 1 2 3 4 5 6 7 8 9 10

[Circle Requested Metal and Corresponding Sample No.]

- Al Sb As Ba Be Cd Cr Co Cu Fe Pb Li Mn Hg Mo Ni Se Ag Sr Tl Ti V Zn 1 2 3 4 5 6 7 8 9 10
- Pb (BOTH COARSE & FINE) 1 2 3 4 5 6 7 8 9 10
- Low Level Mercury 1 2 3 4 5 6 7 8 9 10
- Ca Mg K Na 1 2 3 4 5 6 7 8 9 10
- % Total Solids 1 2 3 4 5 6 7 8 9 10

Chain-of-Custody

| RELEASED BY / ORGANIZATION | RECEIVED BY / ORGANIZATION | DATE | TIME |
|---|---|---|---|
| Print Name & Organization: Robert Webster, Enviologic Technologies<br>Signature: [signature] | Print Name & Organization: Joseph Walczak-DEQ<br>Signature: [signature] | 8/25/11 | 1825 |
| Print Name & Organization: Joseph Walczak - DEQ<br>Signature: [signature] | Print Name & Organization:<br>Signature: | | |
| Print Name & Organization:<br>Signature: | Print Name & Organization:<br>Signature: | | |

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**MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT**
**ENVIRONMENTAL LABORATORY**
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

**Division:** RD
**Report to:** JOE WALCZAK
DNRE-RD-LANSING
CONSTITUTION HALL
525 W. ALLEGAN, LANSING, MI 48909

**Total:** $2,479.50

**Lab Work Order # :** 10800298
**Work Site ID :** LB041056
**Site Name :** FORMER ACME INDUSTRIES
**Received:** 08/29/2011
**Reported:** 09/28/2011
**Collected By:** ROBERT WEBSTER

**Samples Received :**

| No: | Sample ID | Sample Description | Matrix: | Collection Date |
|---|---|---|---|---|
| 01 | AB81017 | TB 5 | SEDIMENT | 08/26/2011 |
| 02 | AB81018 | SS-3-15.0 | SEDIMENT | 08/26/2011 |
| 03 | AB81019 | SS-3 17.5 | SEDIMENT | 08/26/2011 |
| 04 | AB81020 | SS-3-20.0 | SEDIMENT | 08/26/2011 |
| 05 | AB81021 | SS-55-2.5 | SEDIMENT | 08/26/2011 |
| 06 | AB81022 | SS-55-5.0 | SEDIMENT | 08/26/2011 |
| 07 | AB81023 | SS-55-5.0 MS | SEDIMENT | 08/26/2011 |
| 08 | AB81024 | SS-55-5.0 MSD | SEDIMENT | 08/26/2011 |
| 09 | AB81025 | SS-55-7.5 | SEDIMENT | 08/26/2011 |
| 10 | AB81026 | SS-55-10.0 | SEDIMENT | 08/26/2011 |
| 11 | AB81027 | SS-55-12.5 | SEDIMENT | 08/26/2011 |
| 12 | AB81028 | SS-55-15.0 | SEDIMENT | 08/26/2011 |
| 13 | AB81029 | M-7S | SEDIMENT | 08/26/2011 |
| 14 | AB81030 | SS-54-2.5 | SEDIMENT | 08/26/2011 |
| 15 | AB81031 | SS-54-5.0 | SEDIMENT | 08/26/2011 |
| 16 | AB81032 | SS-54-7.5 | SEDIMENT | 08/26/2011 |
| 17 | AB81033 | SS-54-10.0 | SEDIMENT | 08/26/2011 |
| 18 | AB81034 | SS-54-12.0 | SEDIMENT | 08/26/2011 |
| 19 | AB81035 | SS-54-15.0 | SEDIMENT | 08/26/2011 |

I certify that the analysis performed by the MDEQ Environmental Laboratory are accurate and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

George L. Krisztian,
Laboratory Director

MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
ENVIRONMENTAL LABORATORY
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

## Sample Number: AB81017 TB 5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.00 | | | |
| SURROGATE | #Bromofluorobenzene# | 112 | | | |
| SURROGATE | #Dibromofluoromethane# | 111 | | | |
| SURROGATE | #Toluene-d8# | 115 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 50 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 50 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 50 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 50 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 50 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 50 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 250 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 50 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 50 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 250 | 7 | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 50 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 250 | 3 | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 50 | Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 50 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 50 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 50 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 50 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 50 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 50 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 250 | | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 250 | | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 250 | X 5 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1000 | | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 250 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 250 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 50 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 50 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 50 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 50 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 50 | 5 | 50 |
| 74-83-9 | Bromomethane | Not Detected | 200 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 50 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 50 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 50 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 250 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 50 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
ENVIRONMENTAL LABORATORY
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

## Sample Number: AB81017 TB 5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/03/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 250 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 50 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 50 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 250 | 5 | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 50 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 50 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 250 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 200 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 250 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 50 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 250 | | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 250 | 5 3 | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 50 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 100 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 50 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 100 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 50 | | 50 |
| 91-20-3 | Naphthalene | Not Detected | 250 | X 7 | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 50 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 50 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 50 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 50 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 50 | | 50 |
| 100-42-5 | Styrene | Not Detected | 50 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 50 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2500 | | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 250 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 50 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 250 | | 50 |
| 108-88-3 | Toluene | Not Detected | 50 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 50 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 50 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 250 | Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 50 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 50 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 50 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB81017 TB 5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 100 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81018 SS-3-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/05/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.21 | | | |
| SURROGATE | #Bromofluorobenzene# | 127 | | | |
| SURROGATE | #Dibromofluoromethane# | 167 | | | |
| SURROGATE | #Toluene-d8# | 147 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 68 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 68 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 68 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 68 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 68 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 68 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 340 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 68 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 68 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 340 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 68 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 340 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 68 | 5 7Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 68 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 68 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 68 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 68 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 68 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 68 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 340 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 340 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 340 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1400 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 340 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 340 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 68 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 68 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 68 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 68 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 68 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 270 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 68 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 68 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 68 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 340 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 68 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81018 SS-3-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/05/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 340 | | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 68 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 68 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 340 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 68 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 68 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 340 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 270 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 340 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 68 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 340 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 340 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 68 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 140 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 68 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 140 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 68 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 340 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 68 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 68 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 68 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 68 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 68 | | 50 |
| 100-42-5 | Styrene | Not Detected | 68 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 68 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3400 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 340 | 7 | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 68 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 340 | | 50 |
| 108-88-3 | Toluene | Not Detected | 68 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 68 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 68 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 340 | 5Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 68 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 68 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 68 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81018 SS-3-15.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 88.7 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81019 SS-3 17.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 9.72 | | | |
| SURROGATE | #Bromofluorobenzene# | 112 | | | |
| SURROGATE | #Dibromofluoromethane# | 150 | | | |
| SURROGATE | #Toluene-d8# | 133 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 63 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 63 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 63 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 63 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 63 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 63 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 310 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 63 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 63 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 310 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 63 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 310 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 63 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 63 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 63 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 63 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 63 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 63 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 63 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 310 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 310 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 310 | X 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 310 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 310 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 63 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 63 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 63 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 63 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 63 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 250 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 63 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 63 | 7 | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 63 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 310 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 63 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81019 SS-3 17.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 310 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 63 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 63 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 310 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 63 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 63 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 310 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 250 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 310 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 63 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 310 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 310 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 63 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 63 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 63 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 310 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 63 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 63 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 63 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 63 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 63 | | 50 |
| 100-42-5 | Styrene | Not Detected | 63 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 63 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3100 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 310 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 63 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 310 | | 50 |
| 108-88-3 | Toluene | Not Detected | 63 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 63 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 63 | 7 | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 310 | 5 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 63 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 63 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 63 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81019 SS-3 17.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 90.1 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81020 SS-3-20.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.35 | | | |
| SURROGATE | #Bromofluorobenzene# | 103 | | | |
| SURROGATE | #Dibromofluoromethane# | 142 | | | |
| SURROGATE | #Toluene-d8# | 125 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 57 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 57 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 57 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 57 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 57 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 57 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 57 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 57 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 57 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 57 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 57 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 57 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 57 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 57 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 57 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 57 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 57 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 57 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 57 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 57 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 57 | 7 | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 57 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 57 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81020 SS-3-20.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 57 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 57 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 57 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 57 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 57 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 57 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 57 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 57 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 57 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 57 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 57 | | 50 |
| 100-42-5 | Styrene | Not Detected | 57 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 57 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 57 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 57 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 57 | 7 | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | 5 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 57 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 57 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 57 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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FAX: (517) 335-9600

## Sample Number: AB81020 SS-3-20.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.9 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81021 SS-55-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.05 | | | |
| SURROGATE | #Bromofluorobenzene# | 107 | | | |
| SURROGATE | #Dibromofluoromethane# | 147 | | | |
| SURROGATE | #Toluene-d8# | 129 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 61 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 61 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 61 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 61 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 61 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 61 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 310 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 61 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 61 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 310 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 61 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 310 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 61 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 61 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 61 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 61 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 61 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 61 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 61 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 310 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 310 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 310 | X 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 310 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 310 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 61 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 61 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 61 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 61 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 61 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 61 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 61 | 7 | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 61 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 310 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 61 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81021 SS-55-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 310 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 61 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 61 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 310 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 61 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 61 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 310 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 310 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 61 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 310 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 310 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 61 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 61 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 61 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 310 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 61 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 61 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 61 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 61 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 61 | | 50 |
| 100-42-5 | Styrene | Not Detected | 61 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 61 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3100 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 310 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 61 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 310 | | 50 |
| 108-88-3 | Toluene | Not Detected | 61 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 61 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 61 | 7 | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 310 | 5 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 61 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 61 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 61 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81021 SS-55-2.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 89.7 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81022 SS-55-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.40 | | | |
| SURROGATE | #Bromofluorobenzene# | 109 | | | |
| SURROGATE | #Dibromofluoromethane# | 132 | | | |
| SURROGATE | #Toluene-d8# | 128 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 57 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 57 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 57 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 57 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 57 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 57 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 57 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 57 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 57 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 57 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 57 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 57 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 57 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 57 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 57 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 57 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 57 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 57 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 57 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 57 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 57 | 7 | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 57 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 57 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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## Sample Number: AB81022 SS-55-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 57 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 57 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 57 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 57 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 57 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 57 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 57 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 57 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 57 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 57 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 57 | | 50 |
| 100-42-5 | Styrene | Not Detected | 57 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 57 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 57 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 57 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 57 | 7 | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | 5 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 57 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 57 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 57 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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FAX: (517) 335-9600

## Sample Number: AB81022 SS-55-5.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.6 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81023 SS-55-5.0 MS

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.40 | | | |
| SURROGATE | #Bromofluorobenzene# | 103 | | | |
| SURROGATE | #Dibromofluoromethane# | 149 | | | |
| SURROGATE | #Toluene-d8# | 127 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 2900 | 57 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | 2700 | 57 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 3000 | 57 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | 2900 | 57 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | 3200 | 57 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | 3200 | 57 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2900 | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | 3300 | 57 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 2800 | 57 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2900 | 290 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2800 | 57 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 2700 | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | 2600 | 57 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | 2900 | 57 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | 3100 | 57 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | 2900 | 57 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2800 | 57 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | 2900 | 57 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | 2800 | 57 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | 2100 | 290 | 5 | 50 |
| 591-78-6 | 2-Hexanone | 2300 | 290 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | 2600 | 290 | X 6 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | 1700 | 1100 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 2700 | 290 | | 50 |
| 107-13-1 | Acrylonitrile | 3000 | 290 | Z | 50 |
| 71-43-2 | Benzene | 3000 | 57 | | 50 |
| 108-86-1 | Bromobenzene | 3300 | 57 | | 50 |
| 74-97-5 | Bromochloromethane | 2800 | 57 | | 50 |
| 75-27-4 | Bromodichloromethane | 3100 | 57 | | 50 |
| 75-25-2 | Bromoform | 2600 | 57 | | 50 |
| 74-83-9 | Bromomethane | 2500 | 230 | 7 | 50 |
| 75-15-0 | Carbon disulfide | 3000 | 57 | | 50 |
| 56-23-5 | Carbon tetrachloride | 2400 | 57 | 7 | 50 |
| 108-90-7 | Chlorobenzene | 2900 | 57 | | 50 |
| 75-00-3 | Chloroethane | 2900 | 290 | | 50 |
| 67-66-3 | Chloroform | 3300 | 57 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81023 SS-55-5.0 MS

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 2000 | 290 | 6 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | 3300 | 57 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | 2600 | 57 | | 50 |
| 110-82-7 | Cyclohexane | 2800 | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | 2900 | 57 | | 50 |
| 74-95-3 | Dibromomethane | 2900 | 57 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | 2400 | 290 | 6 | 50 |
| 60-29-7 | Diethyl ether | 3200 | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | 3300 | 290 | | 50 |
| 100-41-4 | Ethylbenzene | 2800 | 57 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | 2700 | 290 | 7 | 50 |
| 67-72-1 | Hexachloroethane | 2500 | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | 2800 | 57 | | 50 |
| 108383,106423 | m & p - Xylene | 5600 | 110 | | 50 |
| 74-88-4 | Methyl iodide | 2400 | 57 | 5 | 50 |
| 75-09-2 | Methylene chloride | 3200 | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | 2100 | 57 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | 2900 | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | 2800 | 57 | | 50 |
| 103-65-1 | n-Propylbenzene | 2700 | 57 | | 50 |
| 95-47-6 | o-Xylene | 2800 | 57 | | 50 |
| 99-87-6 | p-Isopropyl toluene | 2800 | 57 | | 50 |
| 135-98-8 | sec-Butylbenzene | 2800 | 57 | | 50 |
| 100-42-5 | Styrene | 2800 | 57 | | 50 |
| 98-06-6 | tert-Butylbenzene | 2900 | 57 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | 16000 | 2900 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | 2600 | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | 2800 | 57 | | 50 |
| 109-99-9 | Tetrahydrofuran | 3400 | 290 | | 50 |
| 108-88-3 | Toluene | 2800 | 57 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | 3100 | 57 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | 2600 | 57 | 7 | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 2300 | 290 | 5 7Z | 50 |
| 79-01-6 | Trichloroethylene | 2900 | 57 | | 50 |
| 75-69-4 | Trichlorofluoromethane | 3200 | 57 | | 50 |
| 75-01-4 | Vinyl chloride | 2900 | 57 | Z | 50 |

Sample is a matrix spike.
Compounds spiked at 2850 ug/Kg, except tertiary butyl alcohol spiked at 14250 ug/Kg & m&p-xylene spiked at 5700 ug/Kg.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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FAX: (517) 335-9600

## Sample Number: AB81023 SS-55-5.0 MS

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.6 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81024 SS-55-5.0 MSD

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.40 | | | |
| SURROGATE | #Bromofluorobenzene# | 103 | | | |
| SURROGATE | #Dibromofluoromethane# | 150 | | | |
| SURROGATE | #Toluene-d8# | 129 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 3000 | 57 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | 3100 | 57 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 3000 | 57 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | 2900 | 57 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | 3300 | 57 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | 3100 | 57 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3300 | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | 3300 | 57 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | 3000 | 57 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3300 | 290 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2900 | 57 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 2800 | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | 2700 | 57 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | 3000 | 57 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | 3300 | 57 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | 3000 | 57 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 2900 | 57 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | 2900 | 57 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | 2900 | 57 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | 2300 | 290 | 5 | 50 |
| 591-78-6 | 2-Hexanone | 2300 | 290 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | 3700 | 290 | X 6 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | 1900 | 1100 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 2700 | 290 | | 50 |
| 107-13-1 | Acrylonitrile | 3000 | 290 | Z | 50 |
| 71-43-2 | Benzene | 3000 | 57 | | 50 |
| 108-86-1 | Bromobenzene | 3300 | 57 | | 50 |
| 74-97-5 | Bromochloromethane | 3000 | 57 | | 50 |
| 75-27-4 | Bromodichloromethane | 3200 | 57 | | 50 |
| 75-25-2 | Bromoform | 2700 | 57 | | 50 |
| 74-83-9 | Bromomethane | 3100 | 230 | 7 | 50 |
| 75-15-0 | Carbon disulfide | 3100 | 57 | | 50 |
| 56-23-5 | Carbon tetrachloride | 2900 | 57 | 7 | 50 |
| 108-90-7 | Chlorobenzene | 2900 | 57 | | 50 |
| 75-00-3 | Chloroethane | 3000 | 290 | | 50 |
| 67-66-3 | Chloroform | 3300 | 57 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81024 SS-55-5.0 MSD

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | 3200 | 290 | 6 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | 3200 | 57 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | 3100 | 57 | | 50 |
| 110-82-7 | Cyclohexane | 2900 | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | 3000 | 57 | | 50 |
| 74-95-3 | Dibromomethane | 3000 | 57 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | 2500 | 290 | 6 | 50 |
| 60-29-7 | Diethyl ether | 3200 | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | 3300 | 290 | | 50 |
| 100-41-4 | Ethylbenzene | 2900 | 57 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | 3300 | 290 | 7 | 50 |
| 67-72-1 | Hexachloroethane | 2800 | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | 2900 | 57 | | 50 |
| 108383,106423 | m & p - Xylene | 5800 | 110 | | 50 |
| 74-88-4 | Methyl iodide | 2800 | 57 | 5 | 50 |
| 75-09-2 | Methylene chloride | 3200 | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | 2800 | 57 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | 3300 | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | 2900 | 57 | | 50 |
| 103-65-1 | n-Propylbenzene | 2800 | 57 | | 50 |
| 95-47-6 | o-Xylene | 2900 | 57 | | 50 |
| 99-87-6 | p-Isopropyl toluene | 3000 | 57 | | 50 |
| 135-98-8 | sec-Butylbenzene | 2900 | 57 | | 50 |
| 100-42-5 | Styrene | 2900 | 57 | | 50 |
| 98-06-6 | tert-Butylbenzene | 2900 | 57 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | 21000 | 2900 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | 3000 | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | 2900 | 57 | | 50 |
| 109-99-9 | Tetrahydrofuran | 3300 | 290 | | 50 |
| 108-88-3 | Toluene | 2800 | 57 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | 3100 | 57 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | 3100 | 57 | 7 | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | 3000 | 290 | 5 7Z | 50 |
| 79-01-6 | Trichloroethylene | 3100 | 57 | | 50 |
| 75-69-4 | Trichlorofluoromethane | 3200 | 57 | | 50 |
| 75-01-4 | Vinyl chloride | 2900 | 57 | Z | 50 |

Sample is a matrix spike duplicate.
Compounds spiked at 2850 ug/Kg, except tertiary butyl alcohol spiked at 14250 ug/Kg & m&p-xylene spiked at 5700 ug/Kg.

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81024 SS-55-5.0 MSD

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.6 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81025 SS-55-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.14 | | | |
| SURROGATE | #Bromofluorobenzene# | 119 | | | |
| SURROGATE | #Dibromofluoromethane# | 145 | | | |
| SURROGATE | #Toluene-d8# | 138 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 57 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 57 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 57 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 57 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 57 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 57 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 57 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 57 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 57 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 57 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 57 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 57 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 57 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 57 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 57 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 57 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 57 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 57 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 57 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 57 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 57 | 7 | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 57 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 57 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB81025 SS-55-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 57 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 57 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 57 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 57 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 57 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 57 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 57 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 57 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 57 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 57 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 57 | | 50 |
| 100-42-5 | Styrene | Not Detected | 57 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 57 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 57 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 57 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 57 | 7 | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | 5 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 57 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 57 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 57 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81025 SS-55-7.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 92.6 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81026 SS-55-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.30 | | | |
| SURROGATE | #Bromofluorobenzene# | 110 | | | |
| SURROGATE | #Dibromofluoromethane# | 162 | | | |
| SURROGATE | #Toluene-d8# | 135 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 64 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 64 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 64 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 64 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 64 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 64 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 320 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 64 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 64 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 320 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 64 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 320 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 64 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 64 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 64 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 64 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 64 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 64 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 64 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 320 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 320 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 320 | X 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1300 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 320 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 320 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 64 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 64 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 64 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 64 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 64 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 260 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 64 | | 50 |
| 56-23-5 | Carbon tetrachloride | 280 | 64 | 7 | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 64 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 320 | | 50 |
| 67-66-3 | Chloroform | 340 | 64 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB81026 SS-55-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 320 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 64 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 64 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 320 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 64 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 64 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 320 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 260 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 320 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 64 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 320 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 320 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 64 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 130 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 64 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 130 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 64 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 320 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 64 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 64 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 64 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 64 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 64 | | 50 |
| 100-42-5 | Styrene | Not Detected | 64 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 64 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3200 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 320 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 64 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 320 | | 50 |
| 108-88-3 | Toluene | Not Detected | 64 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 64 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 64 | 7 | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 320 | 5 7Z | 50 |
| 79-01-6 | Trichloroethylene | 790 | 64 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 64 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 64 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81026 SS-55-10.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 86.5 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81027 SS-55-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.20 | | | |
| SURROGATE | #Bromofluorobenzene# | 105 | | | |
| SURROGATE | #Dibromofluoromethane# | 142 | | | |
| SURROGATE | #Toluene-d8# | 125 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 56 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 56 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 56 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 56 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 56 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 56 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 56 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 56 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 56 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 56 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 56 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 56 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 56 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 56 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 56 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 56 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 56 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 56 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 56 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 56 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 56 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 56 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 56 | 7 | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 56 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 56 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81027 SS-55-12.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 56 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 56 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 56 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 56 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 56 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 56 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 56 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 56 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 56 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 56 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 56 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 56 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 56 | | 50 |
| 100-42-5 | Styrene | Not Detected | 56 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 56 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 56 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 56 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 56 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 56 | 7 | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | 5 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 56 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 56 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 56 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81027 SS-55-12.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 93.0 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81028 SS-55-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.10 | | | |
| SURROGATE | #Bromofluorobenzene# | 118 | | | |
| SURROGATE | #Dibromofluoromethane# | 159 | | | |
| SURROGATE | #Toluene-d8# | 140 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 55 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 55 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 55 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 55 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 55 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 55 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 55 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 55 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 55 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 55 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 55 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 55 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 55 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 55 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 55 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 55 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 55 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 55 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 55 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 55 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 55 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 220 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 55 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 55 | 7 | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 55 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 55 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81028 SS-55-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 55 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 55 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 55 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 55 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 220 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 55 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 55 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 55 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 55 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 55 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 55 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 55 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 55 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 55 | | 50 |
| 100-42-5 | Styrene | Not Detected | 55 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 55 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 55 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 55 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 55 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 55 | 7 | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | 5 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 55 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 55 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 55 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81028 SS-55-15.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 94.4 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81029 M-7S

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.10 | | | |
| SURROGATE | #Bromofluorobenzene# | 106 | | | |
| SURROGATE | #Dibromofluoromethane# | 145 | | | |
| SURROGATE | #Toluene-d8# | 125 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 58 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 58 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 58 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 58 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 58 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 290 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 58 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 58 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 290 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 58 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 290 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 58 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 58 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 58 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 58 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 58 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 58 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 58 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 290 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 290 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 290 | X 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 290 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 290 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 58 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 58 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 58 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 58 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 58 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 58 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 58 | 7 | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 58 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 290 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 58 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB81029 M-7S

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 290 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 58 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 290 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 58 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 58 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 290 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 290 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 58 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 290 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 290 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 58 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 58 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 58 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 290 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 58 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 58 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 58 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 58 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 58 | | 50 |
| 100-42-5 | Styrene | Not Detected | 58 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 58 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2900 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 290 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 58 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 290 | | 50 |
| 108-88-3 | Toluene | Not Detected | 58 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 58 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 58 | 7 | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 290 | 5 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 58 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 58 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 58 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81029 M-7S

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 92.3 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81030 SS-54-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.26 | | | |
| SURROGATE | #Bromofluorobenzene# | 113 | | | |
| SURROGATE | #Dibromofluoromethane# | 150 | | | |
| SURROGATE | #Toluene-d8# | 133 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 62 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 62 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 62 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 62 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 62 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 62 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 310 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 62 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 62 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 310 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 62 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 310 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 62 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 62 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 62 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 62 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 62 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 62 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 62 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 310 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 310 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 310 | X 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 310 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 310 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 62 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 62 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 62 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 62 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 62 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 250 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 62 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 62 | 7 | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 62 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 310 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 62 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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## Sample Number: AB81030 SS-54-2.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 310 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 62 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 62 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 310 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 62 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 62 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 310 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 250 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 310 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 62 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 310 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 310 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 62 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 62 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 62 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 310 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 62 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 62 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 62 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 62 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 62 | | 50 |
| 100-42-5 | Styrene | Not Detected | 62 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 62 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3100 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 310 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 62 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 310 | | 50 |
| 108-88-3 | Toluene | Not Detected | 62 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 62 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 62 | 7 | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 310 | 5 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 62 | | 50 |
| 75-69-4 | Trichlorofluoromethane | 100 | 62 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 62 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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## Sample Number: AB81030 SS-54-2.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 88.1 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81031 SS-54-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.28 | | | |
| SURROGATE | #Bromofluorobenzene# | 130 | | | |
| SURROGATE | #Dibromofluoromethane# | 155 | | | |
| SURROGATE | #Toluene-d8# | 152 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 70 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 70 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 70 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 70 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 70 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 70 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 350 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 70 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 70 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 350 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 70 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 350 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 70 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 70 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 70 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 70 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 70 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 70 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 70 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 350 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 350 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 350 | X 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1400 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 350 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 350 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 70 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 70 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 70 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 70 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 70 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 280 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 70 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 70 | 7 | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 70 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 350 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 70 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81031 SS-54-5.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 350 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 70 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 70 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 350 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 70 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 70 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 350 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 280 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 350 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 70 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 350 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 350 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 70 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 140 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 70 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 140 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 70 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 350 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 70 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 70 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 70 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 70 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 70 | | 50 |
| 100-42-5 | Styrene | Not Detected | 70 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 70 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3500 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 350 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 70 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 350 | | 50 |
| 108-88-3 | Toluene | Not Detected | 70 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 70 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 70 | 7 | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 350 | 5 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 70 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 70 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 70 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81031 SS-54-5.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 82.4 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81032 SS-54-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.36 | | | |
| SURROGATE | #Bromofluorobenzene# | 107 | | | |
| SURROGATE | #Dibromofluoromethane# | 147 | | | |
| SURROGATE | #Toluene-d8# | 129 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 70 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 70 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 70 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 70 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 70 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 70 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 350 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 70 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 70 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 350 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 70 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 350 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 70 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 70 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 70 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 70 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 70 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 70 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 70 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 350 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 350 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 350 | X 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1400 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 350 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 350 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 70 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 70 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 70 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 70 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 70 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 280 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 70 | | 50 |
| 56-23-5 | Carbon tetrachloride | 510 | 70 | 7 | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 70 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 350 | | 50 |
| 67-66-3 | Chloroform | 70 | 70 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB81032 SS-54-7.5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 350 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 70 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 70 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 350 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 70 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 70 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 350 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 280 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 350 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 70 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 350 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 350 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 70 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 140 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 70 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 140 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 70 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 350 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 70 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 70 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 70 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 70 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 70 | | 50 |
| 100-42-5 | Styrene | Not Detected | 70 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 70 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3500 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 350 | | 50 |
| 127-18-4 | Tetrachloroethylene | 1800 | 70 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 350 | | 50 |
| 108-88-3 | Toluene | Not Detected | 70 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 70 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 70 | 7 | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 350 | 5 7Z | 50 |
| 79-01-6 | Trichloroethylene | 970 | 70 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 70 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 70 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81032 SS-54-7.5

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 81.8 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81033 SS-54-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.27 | | | |
| SURROGATE | #Bromofluorobenzene# | 115 | | | |
| SURROGATE | #Dibromofluoromethane# | 161 | | | |
| SURROGATE | #Toluene-d8# | 137 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 68 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 68 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 68 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 68 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 68 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 68 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 340 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 68 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 68 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 340 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 68 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 340 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 68 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 68 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 68 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 68 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 68 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 68 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 68 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 340 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 340 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 340 | X 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1400 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 340 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 340 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 68 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 68 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 68 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 68 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 68 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 270 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 68 | | 50 |
| 56-23-5 | Carbon tetrachloride | 420 | 68 | 7 | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 68 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 340 | | 50 |
| 67-66-3 | Chloroform | 74 | 68 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81033 SS-54-10.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 340 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 68 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 68 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 340 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 68 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 68 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 340 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 270 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 340 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 68 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 340 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 340 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 68 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 140 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 68 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 140 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 68 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 340 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 68 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 68 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 68 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 68 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 68 | | 50 |
| 100-42-5 | Styrene | Not Detected | 68 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 68 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3400 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 340 | | 50 |
| 127-18-4 | Tetrachloroethylene | 1800 | 68 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 340 | | 50 |
| 108-88-3 | Toluene | Not Detected | 68 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 68 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 68 | 7 | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 340 | 5 7Z | 50 |
| 79-01-6 | Trichloroethylene | 970 | 68 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 68 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 68 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
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Systems Mgmt Unit: George Krisztian

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## Sample Number: AB81033 SS-54-10.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 83.9 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81034 SS-54-12.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/08/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.57 | | | |
| SURROGATE | #Bromofluorobenzene# | 107 | | | |
| SURROGATE | #Dibromofluoromethane# | 145 | | | |
| SURROGATE | #Toluene-d8# | 125 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 57 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 57 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 57 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 57 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 57 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 280 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 57 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 57 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 280 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 57 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 280 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 57 | 5 7Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 57 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 57 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 57 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 57 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 57 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 57 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 280 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 280 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 280 | X | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1100 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 280 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 280 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 57 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 57 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 57 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 57 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 57 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 230 | | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 57 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 57 | | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 57 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 280 | 7 | 50 |
| 67-66-3 | Chloroform | Not Detected | 57 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81034 SS-54-12.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/08/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 280 | 5 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 280 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 57 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 57 | 7 | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 280 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 230 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 280 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 57 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 280 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 280 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 57 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 110 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 57 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 110 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 57 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 280 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 57 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 57 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 57 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 57 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 57 | | 50 |
| 100-42-5 | Styrene | Not Detected | 57 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 57 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 2800 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 280 | 7 | 50 |
| 127-18-4 | Tetrachloroethylene | 70 | 57 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 280 | | 50 |
| 108-88-3 | Toluene | Not Detected | 57 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 57 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 57 | | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 280 | 5Z | 50 |
| 79-01-6 | Trichloroethylene | 60 | 57 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 57 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 57 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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## Sample Number: AB81034 SS-54-12.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.0 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
ENVIRONMENTAL LABORATORY
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-9800
FAX: (517) 335-9600

## Sample Number: AB81035 SS-54-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| | ##Weight of sample(grams) | 10.05 | | | |
| SURROGATE | #Bromofluorobenzene# | 117 | | | |
| SURROGATE | #Dibromofluoromethane# | 159 | | | |
| SURROGATE | #Toluene-d8# | 140 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 59 | | 50 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 59 | | 50 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 59 | | 50 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 59 | | 50 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 59 | | 50 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 59 | | 50 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 300 | | 50 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 59 | | 50 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 59 | | 50 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 300 | | 50 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 59 | | 50 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 300 | | 50 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 59 | 5Z | 50 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 59 | | 50 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 59 | | 50 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 59 | | 50 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 59 | | 50 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 59 | | 50 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 59 | | 50 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 300 | 5 | 50 |
| 591-78-6 | 2-Hexanone | Not Detected | 300 | 5 | 50 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 300 | X 7 | 50 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 1200 | G 5 | 50 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 300 | | 50 |
| 107-13-1 | Acrylonitrile | Not Detected | 300 | Z | 50 |
| 71-43-2 | Benzene | Not Detected | 59 | | 50 |
| 108-86-1 | Bromobenzene | Not Detected | 59 | | 50 |
| 74-97-5 | Bromochloromethane | Not Detected | 59 | | 50 |
| 75-27-4 | Bromodichloromethane | Not Detected | 59 | | 50 |
| 75-25-2 | Bromoform | Not Detected | 59 | | 50 |
| 74-83-9 | Bromomethane | Not Detected | 240 | 7 | 50 |
| 75-15-0 | Carbon disulfide | Not Detected | 59 | | 50 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 59 | 7 | 50 |
| 108-90-7 | Chlorobenzene | Not Detected | 59 | | 50 |
| 75-00-3 | Chloroethane | Not Detected | 300 | | 50 |
| 67-66-3 | Chloroform | Not Detected | 59 | | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB81035 SS-54-15.0

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** SJR
**Extraction Method:** 5035 **Extraction Date:** 09/01/2011 **Qualifier:**

| CAS # | Compound | Result ug/Kg dry | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 74-87-3 | Chloromethane | Not Detected | 300 | 7 | 50 |
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 59 | | 50 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 59 | | 50 |
| 110-82-7 | Cyclohexane | Not Detected | 300 | | 50 |
| 124-48-1 | Dibromochloromethane | Not Detected | 59 | | 50 |
| 74-95-3 | Dibromomethane | Not Detected | 59 | | 50 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 300 | | 50 |
| 60-29-7 | Diethyl ether | Not Detected | 240 | | 50 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 300 | | 50 |
| 100-41-4 | Ethylbenzene | Not Detected | 59 | | 50 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 300 | 7 | 50 |
| 67-72-1 | Hexachloroethane | Not Detected | 300 | | 50 |
| 98-82-8 | Isopropylbenzene | Not Detected | 59 | | 50 |
| 108383,106423 | m & p - Xylene | Not Detected | 120 | | 50 |
| 74-88-4 | Methyl iodide | Not Detected | 59 | 5 | 50 |
| 75-09-2 | Methylene chloride | Not Detected | 120 | | 50 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 59 | G 5 7 | 50 |
| 91-20-3 | Naphthalene | Not Detected | 300 | X | 50 |
| 104-51-8 | n-Butylbenzene | Not Detected | 59 | | 50 |
| 103-65-1 | n-Propylbenzene | Not Detected | 59 | | 50 |
| 95-47-6 | o-Xylene | Not Detected | 59 | | 50 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 59 | | 50 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 59 | | 50 |
| 100-42-5 | Styrene | Not Detected | 59 | | 50 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 59 | | 50 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 3000 | 7 | 50 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 300 | | 50 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 59 | | 50 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 300 | | 50 |
| 108-88-3 | Toluene | Not Detected | 59 | | 50 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 59 | | 50 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 59 | 7 | 50 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 300 | 5 7Z | 50 |
| 79-01-6 | Trichloroethylene | Not Detected | 59 | | 50 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 59 | | 50 |
| 75-01-4 | Vinyl chloride | Not Detected | 59 | Z | 50 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

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mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB81035 SS-54-15.0

| CAS# | Analyte Name | Result | Unit | RL | Qualifier | Date Tested | Method | Analyst |
|---|---|---|---|---|---|---|---|---|
| | % Total Solids | 91.4 | % | 0.1 | | 09/06/2011 | 2540B SM | JW |

| Qualifier Code | Qualifier Description |
|---|---|
| 1 | Result(s) and RL(s) are estimated due to low surrogate recovery. |
| 2 | Result is estimated due to high surrogate recovery. |
| 3 | Result(s) and RL(s) are estimated due to low matrix spike recovery. |
| 4 | Result is estimated due to high matrix spike recovery. |
| 5 | Result and RL are estimated due to low continuing calibration standard criteria failure. |
| 6 | Result is estimated due to high continuing calibration standard criteria failure. |
| 7 | Result(s) and RL(s) are estimated due to poor precision. |
| 8 | Result(s) and RL(s) are estimated due to low recovery of batch QC. |
| 9 | Result outside QC acceptance criteria. |
| A | Value reported is the mean of two or more determinations. |
| C | Value calculated from other independent parameters. |
| D | Analyte value quantified from a dilution(s); reporting limit (RL) raised. |
| E | Result is estimated due to high recovery of batch QC. |
| F | Amenable cyanide was not analyzed due to low level of total cyanide. |
| G | Result and RL are estimated due to initial calibration standard criteria failure. |
| H | Recommended laboratory holding time was exceeded. |
| I | Dilution required due to matrix interference; reporting limit (RL) raised. |
| J | Analyte was positively identified. Value is an estimate. |
| JA | Result is estimated due to multiple Aroclors present. |
| JC | Result is estimated since confirmation analysis did not meet acceptance criteria |
| JD | Due to severe degradation, specific Aroclor identification is difficult and quantitation is estimated. |
| K | RL(s) raised due to matrix interferences. |
| KR | RL(s) raised due to low sample volume submitted. |
| KS | RL(s) raised due to low total solids. |
| KW | RL(s) raised due to light sample weight. |
| LB | Reported library search compounds are tentative identifications with estimated concentrations. |
| M | The level of the method preparation blank (MPB) is reported in the qualifier column. |
| N | Non-homogeneous sample made analysis of sample questionable. |
| O | Result and RL estimated due to analysis from an open vial. |
| P | Recommended sample collection/preservation technique not used; reported result(s) is an estimate. |
| PI | Possible interference may have affected the accuracy of the laboratory result |
| Q | Quantity of sample insufficient to perform analyses requested. |
| R | Result confirmed by re-extraction and analysis. |
| S | Supernatant analyzed. |
| T | Reported value is less than the reporting limit (RL). Result is estimated. |
| V | Value not available due to dilution. |
| W | Reported value is less than the method detection limit (MDL). |
| X | Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200°C. 2-Methylnaphthalene & naphthalene have boiling points above 200°C and are better suited to analysis by methods 8270 or 625 as semivolatile organics. |
| Z | Result reported below the RL to meet the TDL in RRD Op Memo 2 (10/22/04) multiplied by applicable dilution factor. |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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**Division:** RD
**Report to:** JOE WALCZAK
DNRE-RD-LANSING
CONSTITUTION HALL
525 W. ALLEGAN, LANSING, MI 48909

**Total:** $115.00

**Lab Work Order # :** 10800247
**Work Site ID :** LB041056
**Site Name :** FORMER ACME INDUSTRIES
**Received:** 08/24/2011
**Reported:** 09/26/2011
**Collected By:** JOSEPH WALCZAK

**Samples Received :**

| No: | Sample ID | Sample Description | Matrix: | Collection Date |
|---|---|---|---|---|
| 01 | AB80600 | Equip Blank 2 | WATER | 08/23/2011 |

I certify that the analysis performed by the MDEQ Environmental Laboratory are accurate and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

George L. Krisztian,
Laboratory Director

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TEL: (517) 335-9800
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## Sample Number: AB80600 Equip Blank 2

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/26/2011 **Analyst:** JRS

| CAS # | Compound | Result ug/L | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| SURROGATE | #Bromofluorobenzene# | 111 | | | |
| SURROGATE | #Dibromofluoromethane# | 99.9 | | | |
| SURROGATE | #Toluene-d8# | 95.4 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 1.0 | | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 1.0 | | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 1.0 | | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 1.0 | | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 1.0 | | 1.0 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 5.0 | | 1.0 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 1.0 | | 1.0 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 5.0 | | 1.0 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 5.0 | | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 1.0 | | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 1.0 | | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 1.0 | | 1.0 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 78-93-3 | 2-Butanone (MEK) | 24 | 5.0 | | 1.0 |
| 591-78-6 | 2-Hexanone | Not Detected | 5.0 | | 1.0 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 5.0 | X 7 | 1.0 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 20 | | 1.0 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 5.0 | | 1.0 |
| 107-13-1 | Acrylonitrile | Not Detected | 5.0 | Z | 1.0 |
| 71-43-2 | Benzene | Not Detected | 1.0 | | 1.0 |
| 108-86-1 | Bromobenzene | Not Detected | 1.0 | | 1.0 |
| 74-97-5 | Bromochloromethane | Not Detected | 1.0 | | 1.0 |
| 75-27-4 | Bromodichloromethane | Not Detected | 1.0 | | 1.0 |
| 75-25-2 | Bromoform | Not Detected | 1.0 | | 1.0 |
| 74-83-9 | Bromomethane | Not Detected | 5.0 | | 1.0 |
| 75-15-0 | Carbon disulfide | Not Detected | 1.0 | | 1.0 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 1.0 | | 1.0 |
| 108-90-7 | Chlorobenzene | Not Detected | 1.0 | | 1.0 |
| 75-00-3 | Chloroethane | Not Detected | 5.0 | | 1.0 |
| 67-66-3 | Chloroform | Not Detected | 1.0 | | 1.0 |
| 74-87-3 | Chloromethane | Not Detected | 5.0 | | 1.0 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB80600 Equip Blank 2

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 08/26/2011 **Analyst:** JRS

| CAS # | Compound | Result ug/L | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 1.0 | | 1.0 |
| 110-82-7 | Cyclohexane | Not Detected | 5.0 | | 1.0 |
| 124-48-1 | Dibromochloromethane | Not Detected | 1.0 | | 1.0 |
| 74-95-3 | Dibromomethane | Not Detected | 1.0 | | 1.0 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 5.0 | 5 | 1.0 |
| 60-29-7 | Diethyl ether | Not Detected | 5.0 | | 1.0 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 5.0 | | 1.0 |
| 100-41-4 | Ethylbenzene | Not Detected | 1.0 | | 1.0 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 5.0 | | 1.0 |
| 67-72-1 | Hexachloroethane | Not Detected | 5.0 | | 1.0 |
| 98-82-8 | Isopropylbenzene | Not Detected | 1.0 | | 1.0 |
| 108383,106423 | m & p - Xylene | Not Detected | 2.0 | | 1.0 |
| 74-88-4 | Methyl iodide | Not Detected | 1.0 | | 1.0 |
| 75-09-2 | Methylene chloride | Not Detected | 5.0 | | 1.0 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 1.0 | | 1.0 |
| 91-20-3 | Naphthalene | Not Detected | 5.0 | X | 1.0 |
| 104-51-8 | n-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 103-65-1 | n-Propylbenzene | Not Detected | 1.0 | | 1.0 |
| 95-47-6 | o-Xylene | Not Detected | 1.0 | | 1.0 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 1.0 | | 1.0 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 100-42-5 | Styrene | Not Detected | 1.0 | | 1.0 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 50 | G | 1.0 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 5.0 | | 1.0 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 1.0 | | 1.0 |
| 109-99-9 | Tetrahydrofuran | 55 | 5.0 | | 1.0 |
| 108-88-3 | Toluene | 1.8 | 1.0 | | 1.0 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 1.0 | | 1.0 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 5.0 | Z | 1.0 |
| 79-01-6 | Trichloroethylene | Not Detected | 1.0 | | 1.0 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 1.0 | | 1.0 |
| 75-01-4 | Vinyl chloride | Not Detected | 1.0 | | 1.0 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
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ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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| Qualifier Code | Qualifier Description |
|---|---|
| 1 | Result(s) and RL(s) are estimated due to low surrogate recovery. |
| 2 | Result is estimated due to high surrogate recovery. |
| 3 | Result(s) and RL(s) are estimated due to low matrix spike recovery. |
| 4 | Result is estimated due to high matrix spike recovery. |
| 5 | Result and RL are estimated due to low continuing calibration standard criteria failure. |
| 6 | Result is estimated due to high continuing calibration standard criteria failure. |
| 7 | Result(s) and RL(s) are estimated due to poor precision. |
| 8 | Result(s) and RL(s) are estimated due to low recovery of batch QC. |
| 9 | Result outside QC acceptance criteria. |
| A | Value reported is the mean of two or more determinations. |
| C | Value calculated from other independent parameters. |
| D | Analyte value quantified from a dilution(s); reporting limit (RL) raised. |
| E | Result is estimated due to high recovery of batch QC. |
| F | Amenable cyanide was not analyzed due to low level of total cyanide. |
| G | Result and RL are estimated due to initial calibration standard criteria failure. |
| H | Recommended laboratory holding time was exceeded. |
| I | Dilution required due to matrix interference; reporting limit (RL) raised. |
| J | Analyte was positively identified. Value is an estimate. |
| JA | Result is estimated due to multiple Aroclors present. |
| JC | Result is estimated since confirmation analysis did not meet acceptance criteria |
| JD | Due to severe degradation, specific Aroclor identification is difficult and quantitation is estimated. |
| K | RL(s) raised due to matrix interferences. |
| KR | RL(s) raised due to low sample volume submitted. |
| KS | RL(s) raised due to low total solids. |
| KW | RL(s) raised due to light sample weight. |
| LB | Reported library search compounds are tentative identifications with estimated concentrations. |
| M | The level of the method preparation blank (MPB) is reported in the qualifier column. |
| N | Non-homogeneous sample made analysis of sample questionable. |
| O | Result and RL estimated due to analysis from an open vial. |
| P | Recommended sample collection/preservation technique not used; reported result(s) is an estimate. |
| PI | Possible interference may have affected the accuracy of the laboratory result |
| Q | Quantity of sample insufficient to perform analyses requested. |
| R | Result confirmed by re-extraction and analysis. |
| S | Supernatant analyzed. |
| T | Reported value is less than the reporting limit (RL). Result is estimated. |
| V | Value not available due to dilution. |
| W | Reported value is less than the method detection limit (MDL). |
| X | Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200°C. 2-Methylnaphthalene & naphthalene have boiling points above 200°C and are better suited to analysis by methods 8270 or 625 as semivolatile organics. |
| Z | Result reported below the RL to meet the TDL in RRD Op Memo 2 (10/22/04) multiplied by applicable dilution factor. |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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**Division:** RD
**Report to:** JOE WALCZAK
DNRE-RD-LANSING
CONSTITUTION HALL
525 W. ALLEGAN, LANSING, MI 48909

**Total:** $115.00

**Lab Work Order # :** 10800288
**Work Site ID :** LB041056
**Site Name :** FORMER ACME INDUSTRIES
**Received:** 08/26/2011
**Reported:** 09/26/2011
**Collected By:** JOSEPH WALCZAK

**Samples Received :**

| No: | Sample ID | Sample Description | Matrix: | Collection Date |
|---|---|---|---|---|
| 01 | AB80947 | EQUIP BLANK 3 | WATER | 08/24/2011 |

I certify that the analysis performed by the MDEQ Environmental Laboratory are accurate and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

George L. Krisztian,
Laboratory Director

MICHIGAN DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT
ENVIRONMENTAL LABORATORY
P.O. Box 30270
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TEL: (517) 335-9800
FAX: (517) 335-9600

## Sample Number: AB80947 EQUIP BLANK 3

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** RD

| CAS # | Compound | Result ug/L | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| SURROGATE | #Bromofluorobenzene# | 105 | | | |
| SURROGATE | #Dibromofluoromethane# | 93.5 | | | |
| SURROGATE | #Toluene-d8# | 101 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 1.0 | | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 1.0 | | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 1.0 | | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 1.0 | | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 1.0 | | 1.0 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 5.0 | | 1.0 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 1.0 | | 1.0 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 5.0 | | 1.0 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 5.0 | | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 1.0 | | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 1.0 | | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 1.0 | | 1.0 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 5.0 | 5 | 1.0 |
| 591-78-6 | 2-Hexanone | Not Detected | 5.0 | 5 | 1.0 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 5.0 | X 5 | 1.0 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 20 | 5 | 1.0 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 5.0 | | 1.0 |
| 107-13-1 | Acrylonitrile | Not Detected | 5.0 | Z5 | 1.0 |
| 71-43-2 | Benzene | Not Detected | 1.0 | | 1.0 |
| 108-86-1 | Bromobenzene | Not Detected | 1.0 | | 1.0 |
| 74-97-5 | Bromochloromethane | Not Detected | 1.0 | | 1.0 |
| 75-27-4 | Bromodichloromethane | Not Detected | 1.0 | | 1.0 |
| 75-25-2 | Bromoform | Not Detected | 1.0 | | 1.0 |
| 74-83-9 | Bromomethane | Not Detected | 5.0 | | 1.0 |
| 75-15-0 | Carbon disulfide | Not Detected | 1.0 | | 1.0 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 1.0 | | 1.0 |
| 108-90-7 | Chlorobenzene | Not Detected | 1.0 | | 1.0 |
| 75-00-3 | Chloroethane | Not Detected | 5.0 | | 1.0 |
| 67-66-3 | Chloroform | Not Detected | 1.0 | | 1.0 |
| 74-87-3 | Chloromethane | Not Detected | 5.0 | | 1.0 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

Laboratory Contacts
Inorganic Unit Mgr: Kirby Shane
Organic Unit Mgr: Carol Smith
Systems Mgmt Unit: George Krisztian

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## Sample Number: AB80947 EQUIP BLANK 3

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** RD

| CAS # | Compound | Result ug/L | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 1.0 | | 1.0 |
| 110-82-7 | Cyclohexane | Not Detected | 5.0 | | 1.0 |
| 124-48-1 | Dibromochloromethane | Not Detected | 1.0 | | 1.0 |
| 74-95-3 | Dibromomethane | Not Detected | 1.0 | | 1.0 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 5.0 | | 1.0 |
| 60-29-7 | Diethyl ether | Not Detected | 5.0 | | 1.0 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 5.0 | | 1.0 |
| 100-41-4 | Ethylbenzene | Not Detected | 1.0 | | 1.0 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 5.0 | | 1.0 |
| 67-72-1 | Hexachloroethane | Not Detected | 5.0 | | 1.0 |
| 98-82-8 | Isopropylbenzene | Not Detected | 1.0 | | 1.0 |
| 108383,106423 | m & p - Xylene | Not Detected | 2.0 | | 1.0 |
| 74-88-4 | Methyl iodide | Not Detected | 1.0 | | 1.0 |
| 75-09-2 | Methylene chloride | Not Detected | 5.0 | | 1.0 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 1.0 | | 1.0 |
| 91-20-3 | Naphthalene | Not Detected | 5.0 | X | 1.0 |
| 104-51-8 | n-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 103-65-1 | n-Propylbenzene | Not Detected | 1.0 | | 1.0 |
| 95-47-6 | o-Xylene | Not Detected | 1.0 | | 1.0 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 1.0 | | 1.0 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 100-42-5 | Styrene | Not Detected | 1.0 | | 1.0 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 50 | | 1.0 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 5.0 | | 1.0 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 1.0 | | 1.0 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 5.0 | | 1.0 |
| 108-88-3 | Toluene | Not Detected | 1.0 | | 1.0 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 1.0 | | 1.0 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 5.0 | Z | 1.0 |
| 79-01-6 | Trichloroethylene | Not Detected | 1.0 | | 1.0 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 1.0 | | 1.0 |
| 75-01-4 | Vinyl chloride | Not Detected | 1.0 | | 1.0 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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| Qualifier Code | Qualifier Description |
|---|---|
| 1 | Result(s) and RL(s) are estimated due to low surrogate recovery. |
| 2 | Result is estimated due to high surrogate recovery. |
| 3 | Result(s) and RL(s) are estimated due to low matrix spike recovery. |
| 4 | Result is estimated due to high matrix spike recovery. |
| 5 | Result and RL are estimated due to low continuing calibration standard criteria failure. |
| 6 | Result is estimated due to high continuing calibration standard criteria failure. |
| 7 | Result(s) and RL(s) are estimated due to poor precision. |
| 8 | Result(s) and RL(s) are estimated due to low recovery of batch QC. |
| 9 | Result outside QC acceptance criteria. |
| A | Value reported is the mean of two or more determinations. |
| C | Value calculated from other independent parameters. |
| D | Analyte value quantified from a dilution(s); reporting limit (RL) raised. |
| E | Result is estimated due to high recovery of batch QC. |
| F | Amenable cyanide was not analyzed due to low level of total cyanide. |
| G | Result and RL are estimated due to initial calibration standard criteria failure. |
| H | Recommended laboratory holding time was exceeded. |
| I | Dilution required due to matrix interference; reporting limit (RL) raised. |
| J | Analyte was positively identified. Value is an estimate. |
| JA | Result is estimated due to multiple Aroclors present. |
| JC | Result is estimated since confirmation analysis did not meet acceptance criteria |
| JD | Due to severe degradation, specific Aroclor identification is difficult and quantitation is estimated. |
| K | RL(s) raised due to matrix interferences. |
| KR | RL(s) raised due to low sample volume submitted. |
| KS | RL(s) raised due to low total solids. |
| KW | RL(s) raised due to light sample weight. |
| LB | Reported library search compounds are tentative identifications with estimated concentrations. |
| M | The level of the method preparation blank (MPB) is reported in the qualifier column. |
| N | Non-homogeneous sample made analysis of sample questionable. |
| O | Result and RL estimated due to analysis from an open vial. |
| P | Recommended sample collection/preservation technique not used; reported result(s) is an estimate. |
| PI | Possible interference may have affected the accuracy of the laboratory result |
| Q | Quantity of sample insufficient to perform analyses requested. |
| R | Result confirmed by re-extraction and analysis. |
| S | Supernatant analyzed. |
| T | Reported value is less than the reporting limit (RL). Result is estimated. |
| V | Value not available due to dilution. |
| W | Reported value is less than the method detection limit (MDL). |
| X | Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200°C. 2-Methylnaphthalene & naphthalene have boiling points above 200°C and are better suited to analysis by methods 8270 or 625 as semivolatile organics. |
| Z | Result reported below the RL to meet the TDL in RRD Op Memo 2 (10/22/04) multiplied by applicable dilution factor. |

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
mg / Kg : milligram / kilogram (ppm)

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**Division:** RD
**Report to:** JOE WALCZAK
DNRE-RD-LANSING
CONSTITUTION HALL
525 W. ALLEGAN, LANSING, MI 48909

**Total:** $345.00

**Lab Work Order # :** 10800292
**Work Site ID :** LB041056
**Site Name :** FORMER ACME INDUSTRIES
**Received:** 08/26/2011
**Reported:** 09/28/2011
**Collected By:** ROBERT WEBSTER

**Samples Received :**

| No: | Sample ID | Sample Description | Matrix: | Collection Date |
|---|---|---|---|---|
| 01 | AB81005 | Equip Blank 5 | WATER | 08/26/2011 |
| 02 | AB81006 | Decon Water | WATER | 08/26/2011 |
| 03 | AB81007 | Coring Water | WATER | 08/26/2011 |

I certify that the analysis performed by the MDEQ Environmental Laboratory are accurate and that the laboratory tests were conducted by methods approved by the U.S. Environmental Protection Agency and other appropriate regulatory agencies.

George L. Krisztian,
Laboratory Director

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## Sample Number: AB81005 Equip Blank 5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** RD

| CAS # | Compound | Result ug/L | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| SURROGATE | #Bromofluorobenzene# | 105 | | | |
| SURROGATE | #Dibromofluoromethane# | 93.0 | | | |
| SURROGATE | #Toluene-d8# | 101 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 1.0 | | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 1.0 | | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 1.0 | | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 1.0 | | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 1.0 | | 1.0 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 5.0 | | 1.0 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 1.0 | | 1.0 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 5.0 | | 1.0 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 5.0 | | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 1.0 | | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 1.0 | | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 1.0 | | 1.0 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 5.0 | 5 | 1.0 |
| 591-78-6 | 2-Hexanone | Not Detected | 5.0 | 5 | 1.0 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 5.0 | X 5 | 1.0 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 20 | 5 | 1.0 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 5.0 | | 1.0 |
| 107-13-1 | Acrylonitrile | Not Detected | 5.0 | Z5 | 1.0 |
| 71-43-2 | Benzene | Not Detected | 1.0 | | 1.0 |
| 108-86-1 | Bromobenzene | Not Detected | 1.0 | | 1.0 |
| 74-97-5 | Bromochloromethane | Not Detected | 1.0 | | 1.0 |
| 75-27-4 | Bromodichloromethane | Not Detected | 1.0 | | 1.0 |
| 75-25-2 | Bromoform | Not Detected | 1.0 | | 1.0 |
| 74-83-9 | Bromomethane | Not Detected | 5.0 | | 1.0 |
| 75-15-0 | Carbon disulfide | Not Detected | 1.0 | | 1.0 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 1.0 | | 1.0 |
| 108-90-7 | Chlorobenzene | Not Detected | 1.0 | | 1.0 |
| 75-00-3 | Chloroethane | Not Detected | 5.0 | | 1.0 |
| 67-66-3 | Chloroform | Not Detected | 1.0 | | 1.0 |
| 74-87-3 | Chloromethane | Not Detected | 5.0 | | 1.0 |

CAS# : Chemical Abstract Service Registry Number
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ND : Not Detected

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## Sample Number: AB81005 Equip Blank 5

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** RD

| CAS # | Compound | Result ug/L | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 1.0 | | 1.0 |
| 110-82-7 | Cyclohexane | Not Detected | 5.0 | | 1.0 |
| 124-48-1 | Dibromochloromethane | Not Detected | 1.0 | | 1.0 |
| 74-95-3 | Dibromomethane | Not Detected | 1.0 | | 1.0 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 5.0 | | 1.0 |
| 60-29-7 | Diethyl ether | Not Detected | 5.0 | | 1.0 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 5.0 | | 1.0 |
| 100-41-4 | Ethylbenzene | Not Detected | 1.0 | | 1.0 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 5.0 | | 1.0 |
| 67-72-1 | Hexachloroethane | Not Detected | 5.0 | | 1.0 |
| 98-82-8 | Isopropylbenzene | Not Detected | 1.0 | | 1.0 |
| 108383,106423 | m & p - Xylene | Not Detected | 2.0 | | 1.0 |
| 74-88-4 | Methyl iodide | Not Detected | 1.0 | | 1.0 |
| 75-09-2 | Methylene chloride | Not Detected | 5.0 | | 1.0 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 1.0 | | 1.0 |
| 91-20-3 | Naphthalene | Not Detected | 5.0 | X | 1.0 |
| 104-51-8 | n-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 103-65-1 | n-Propylbenzene | Not Detected | 1.0 | | 1.0 |
| 95-47-6 | o-Xylene | Not Detected | 1.0 | | 1.0 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 1.0 | | 1.0 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 100-42-5 | Styrene | Not Detected | 1.0 | | 1.0 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 50 | | 1.0 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 5.0 | | 1.0 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 1.0 | | 1.0 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 5.0 | | 1.0 |
| 108-88-3 | Toluene | Not Detected | 1.0 | | 1.0 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 1.0 | | 1.0 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 5.0 | Z | 1.0 |
| 79-01-6 | Trichloroethylene | Not Detected | 1.0 | | 1.0 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 1.0 | | 1.0 |
| 75-01-4 | Vinyl chloride | Not Detected | 1.0 | | 1.0 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
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ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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## Sample Number: AB81006 Decon Water

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** RD

| CAS # | Compound | Result ug/L | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| SURROGATE | #Bromofluorobenzene# | 105 | | | |
| SURROGATE | #Dibromofluoromethane# | 93.8 | | | |
| SURROGATE | #Toluene-d8# | 102 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 1.0 | | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 1.0 | | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 1.0 | | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 1.0 | | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 1.0 | | 1.0 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 5.0 | | 1.0 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 1.0 | | 1.0 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 5.0 | | 1.0 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 5.0 | | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 1.0 | | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 1.0 | | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 1.0 | | 1.0 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 5.0 | 5 | 1.0 |
| 591-78-6 | 2-Hexanone | Not Detected | 5.0 | 5 | 1.0 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 5.0 | X 5 | 1.0 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 20 | 5 | 1.0 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 5.0 | | 1.0 |
| 107-13-1 | Acrylonitrile | Not Detected | 5.0 | Z5 | 1.0 |
| 71-43-2 | Benzene | Not Detected | 1.0 | | 1.0 |
| 108-86-1 | Bromobenzene | Not Detected | 1.0 | | 1.0 |
| 74-97-5 | Bromochloromethane | Not Detected | 1.0 | | 1.0 |
| 75-27-4 | Bromodichloromethane | Not Detected | 1.0 | | 1.0 |
| 75-25-2 | Bromoform | Not Detected | 1.0 | | 1.0 |
| 74-83-9 | Bromomethane | Not Detected | 5.0 | | 1.0 |
| 75-15-0 | Carbon disulfide | Not Detected | 1.0 | | 1.0 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 1.0 | | 1.0 |
| 108-90-7 | Chlorobenzene | Not Detected | 1.0 | | 1.0 |
| 75-00-3 | Chloroethane | Not Detected | 5.0 | | 1.0 |
| 67-66-3 | Chloroform | Not Detected | 1.0 | | 1.0 |
| 74-87-3 | Chloromethane | Not Detected | 5.0 | | 1.0 |

CAS# : Chemical Abstract Service Registry Number
RL : Reporting Limit
ND : Not Detected

ug / L : microgram / liter (ppb)
mg / L : milligram / liter (ppm)
ug / Kg : microgram / kilogram (ppb)
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Systems Mgmt Unit: George Krisztian

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## Sample Number: AB81006 Decon Water

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/02/2011 **Analyst:** RD

| CAS # | Compound | Result ug/L | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 1.0 | | 1.0 |
| 110-82-7 | Cyclohexane | Not Detected | 5.0 | | 1.0 |
| 124-48-1 | Dibromochloromethane | Not Detected | 1.0 | | 1.0 |
| 74-95-3 | Dibromomethane | Not Detected | 1.0 | | 1.0 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 5.0 | | 1.0 |
| 60-29-7 | Diethyl ether | Not Detected | 5.0 | | 1.0 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 5.0 | | 1.0 |
| 100-41-4 | Ethylbenzene | Not Detected | 1.0 | | 1.0 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 5.0 | | 1.0 |
| 67-72-1 | Hexachloroethane | Not Detected | 5.0 | | 1.0 |
| 98-82-8 | Isopropylbenzene | Not Detected | 1.0 | | 1.0 |
| 108383,106423 | m & p - Xylene | Not Detected | 2.0 | | 1.0 |
| 74-88-4 | Methyl iodide | Not Detected | 1.0 | | 1.0 |
| 75-09-2 | Methylene chloride | Not Detected | 5.0 | | 1.0 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 1.0 | | 1.0 |
| 91-20-3 | Naphthalene | Not Detected | 5.0 | X | 1.0 |
| 104-51-8 | n-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 103-65-1 | n-Propylbenzene | Not Detected | 1.0 | | 1.0 |
| 95-47-6 | o-Xylene | Not Detected | 1.0 | | 1.0 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 1.0 | | 1.0 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 100-42-5 | Styrene | Not Detected | 1.0 | | 1.0 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 50 | | 1.0 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 5.0 | | 1.0 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 1.0 | | 1.0 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 5.0 | | 1.0 |
| 108-88-3 | Toluene | Not Detected | 1.0 | | 1.0 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 1.0 | | 1.0 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 5.0 | Z | 1.0 |
| 79-01-6 | Trichloroethylene | Not Detected | 1.0 | | 1.0 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 1.0 | | 1.0 |
| 75-01-4 | Vinyl chloride | Not Detected | 1.0 | | 1.0 |

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## Sample Number: AB81007 Coring Water

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** RD

| CAS # | Compound | Result ug/L | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| SURROGATE | #Bromofluorobenzene# | 104 | | | |
| SURROGATE | #Dibromofluoromethane# | 102 | | | |
| SURROGATE | #Toluene-d8# | 93.2 | | | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | Not Detected | 1.0 | | 1.0 |
| 71-55-6 | 1,1,1-Trichloroethane | Not Detected | 1.0 | | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | Not Detected | 1.0 | | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | Not Detected | 1.0 | | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | Not Detected | 1.0 | | 1.0 |
| 75-35-4 | 1,1-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 87-61-6 | 1,2,3-Trichlorobenzene | Not Detected | 5.0 | | 1.0 |
| 96-18-4 | 1,2,3-Trichloropropane | Not Detected | 1.0 | | 1.0 |
| 526-73-8 | 1,2,3-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | Not Detected | 5.0 | | 1.0 |
| 95-63-6 | 1,2,4-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | Not Detected | 5.0 | | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | Not Detected | 1.0 | | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | Not Detected | 1.0 | | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | Not Detected | 1.0 | | 1.0 |
| 108-67-8 | 1,3,5-Trimethylbenzene | Not Detected | 1.0 | | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | Not Detected | 1.0 | | 1.0 |
| 78-93-3 | 2-Butanone (MEK) | Not Detected | 5.0 | | 1.0 |
| 591-78-6 | 2-Hexanone | Not Detected | 5.0 | | 1.0 |
| 91-57-6 | 2-Methylnaphthalene | Not Detected | 5.0 | X | 1.0 |
| 67-64-1 | 2-Propanone (acetone) | Not Detected | 20 | | 1.0 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | Not Detected | 5.0 | | 1.0 |
| 107-13-1 | Acrylonitrile | Not Detected | 5.0 | Z | 1.0 |
| 71-43-2 | Benzene | Not Detected | 1.0 | | 1.0 |
| 108-86-1 | Bromobenzene | Not Detected | 1.0 | | 1.0 |
| 74-97-5 | Bromochloromethane | Not Detected | 1.0 | | 1.0 |
| 75-27-4 | Bromodichloromethane | 3.7 | 1.0 | | 1.0 |
| 75-25-2 | Bromoform | 2.8 | 1.0 | | 1.0 |
| 74-83-9 | Bromomethane | Not Detected | 5.0 | | 1.0 |
| 75-15-0 | Carbon disulfide | Not Detected | 1.0 | | 1.0 |
| 56-23-5 | Carbon tetrachloride | Not Detected | 1.0 | | 1.0 |
| 108-90-7 | Chlorobenzene | Not Detected | 1.0 | | 1.0 |
| 75-00-3 | Chloroethane | Not Detected | 5.0 | | 1.0 |
| 67-66-3 | Chloroform | 2.1 | 1.0 | | 1.0 |
| 74-87-3 | Chloromethane | Not Detected | 5.0 | | 1.0 |

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## Sample Number: AB81007 Coring Water

### Volatile Compounds

**Analytical Method:** 8260 **Date Tested:** 09/06/2011 **Analyst:** RD

| CAS # | Compound | Result ug/L | RL | Qualifier | Dilution Factor |
|---|---|---|---|---|---|
| 156-59-2 | cis-1,2-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropylene | Not Detected | 1.0 | | 1.0 |
| 110-82-7 | Cyclohexane | Not Detected | 5.0 | | 1.0 |
| 124-48-1 | Dibromochloromethane | 5.4 | 1.0 | | 1.0 |
| 74-95-3 | Dibromomethane | Not Detected | 1.0 | | 1.0 |
| 75-71-8 | Dichlorodifluoromethane | Not Detected | 5.0 | 5 | 1.0 |
| 60-29-7 | Diethyl ether | Not Detected | 5.0 | | 1.0 |
| 108-20-3 | Diisopropyl Ether | Not Detected | 5.0 | | 1.0 |
| 100-41-4 | Ethylbenzene | Not Detected | 1.0 | | 1.0 |
| 637-92-3 | Ethyltertiarybutylether | Not Detected | 5.0 | | 1.0 |
| 67-72-1 | Hexachloroethane | Not Detected | 5.0 | | 1.0 |
| 98-82-8 | Isopropylbenzene | Not Detected | 1.0 | | 1.0 |
| 108383,106423 | m & p - Xylene | Not Detected | 2.0 | | 1.0 |
| 74-88-4 | Methyl iodide | Not Detected | 1.0 | | 1.0 |
| 75-09-2 | Methylene chloride | Not Detected | 5.0 | | 1.0 |
| 1634-04-4 | Methyltertiarybutylether | Not Detected | 1.0 | | 1.0 |
| 91-20-3 | Naphthalene | Not Detected | 5.0 | X | 1.0 |
| 104-51-8 | n-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 103-65-1 | n-Propylbenzene | Not Detected | 1.0 | | 1.0 |
| 95-47-6 | o-Xylene | Not Detected | 1.0 | | 1.0 |
| 99-87-6 | p-Isopropyl toluene | Not Detected | 1.0 | | 1.0 |
| 135-98-8 | sec-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 100-42-5 | Styrene | Not Detected | 1.0 | | 1.0 |
| 98-06-6 | tert-Butylbenzene | Not Detected | 1.0 | | 1.0 |
| 75-65-0 | tertiary Butyl Alcohol | Not Detected | 50 | | 1.0 |
| 994-05-8 | tertiaryAmylmethylether | Not Detected | 5.0 | | 1.0 |
| 127-18-4 | Tetrachloroethylene | Not Detected | 1.0 | | 1.0 |
| 109-99-9 | Tetrahydrofuran | Not Detected | 5.0 | | 1.0 |
| 108-88-3 | Toluene | Not Detected | 1.0 | | 1.0 |
| 156-60-5 | trans-1,2-Dichloroethylene | Not Detected | 1.0 | | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropylene | Not Detected | 1.0 | | 1.0 |
| 110-57-6 | trans-1,4-Dichloro-2-butene | Not Detected | 5.0 | Z | 1.0 |
| 79-01-6 | Trichloroethylene | Not Detected | 1.0 | | 1.0 |
| 75-69-4 | Trichlorofluoromethane | Not Detected | 1.0 | | 1.0 |
| 75-01-4 | Vinyl chloride | Not Detected | 1.0 | | 1.0 |

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| Qualifier Code | Qualifier Description |
|---|---|
| 1 | Result(s) and RL(s) are estimated due to low surrogate recovery. |
| 2 | Result is estimated due to high surrogate recovery. |
| 3 | Result(s) and RL(s) are estimated due to low matrix spike recovery. |
| 4 | Result is estimated due to high matrix spike recovery. |
| 5 | Result and RL are estimated due to low continuing calibration standard criteria failure. |
| 6 | Result is estimated due to high continuing calibration standard criteria failure. |
| 7 | Result(s) and RL(s) are estimated due to poor precision. |
| 8 | Result(s) and RL(s) are estimated due to low recovery of batch QC. |
| 9 | Result outside QC acceptance criteria. |
| A | Value reported is the mean of two or more determinations. |
| C | Value calculated from other independent parameters. |
| D | Analyte value quantified from a dilution(s); reporting limit (RL) raised. |
| E | Result is estimated due to high recovery of batch QC. |
| F | Amenable cyanide was not analyzed due to low level of total cyanide. |
| G | Result and RL are estimated due to initial calibration standard criteria failure. |
| H | Recommended laboratory holding time was exceeded. |
| I | Dilution required due to matrix interference; reporting limit (RL) raised. |
| J | Analyte was positively identified. Value is an estimate. |
| JA | Result is estimated due to multiple Aroclors present. |
| JC | Result is estimated since confirmation analysis did not meet acceptance criteria |
| JD | Due to severe degradation, specific Aroclor identification is difficult and quantitation is estimated. |
| K | RL(s) raised due to matrix interferences. |
| KR | RL(s) raised due to low sample volume submitted. |
| KS | RL(s) raised due to low total solids. |
| KW | RL(s) raised due to light sample weight. |
| LB | Reported library search compounds are tentative identifications with estimated concentrations. |
| M | The level of the method preparation blank (MPB) is reported in the qualifier column. |
| N | Non-homogeneous sample made analysis of sample questionable. |
| O | Result and RL estimated due to analysis from an open vial. |
| P | Recommended sample collection/preservation technique not used; reported result(s) is an estimate. |
| PI | Possible interference may have affected the accuracy of the laboratory result |
| Q | Quantity of sample insufficient to perform analyses requested. |
| R | Result confirmed by re-extraction and analysis. |
| S | Supernatant analyzed. |
| T | Reported value is less than the reporting limit (RL). Result is estimated. |
| V | Value not available due to dilution. |
| W | Reported value is less than the method detection limit (MDL). |
| X | Methods 8260 & 624 are used to analyze volatile organics that have boiling points below 200°C. 2-Methylnaphthalene & naphthalene have boiling points above 200°C and are better suited to analysis by methods 8270 or 625 as semivolatile organics. |
| Z | Result reported below the RL to meet the TDL in RRD Op Memo 2 (10/22/04) multiplied by applicable dilution factor. |

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