



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, OMAHA DISTRICT
HTRW CENTER OF EXPERTISE
12565 WEST CENTER ROAD
OMAHA, NEBRASKA 68144-3869

40-8681

Via Federal Express

August 14, 1998

Mr. William Sinclair
Division of Radiation Control
Utah Department of Environmental Quality
168 North 1950 West
Salt Lake City, UT 84116

Dear Mr. Sinclair:

This concerns the Utah petition to the U.S. Nuclear Regulatory Commission regarding the amendment to the NRC license of International Uranium Corporation (IUC). The U.S. Army Corps of Engineers (USACE) is interested in this matter because the amendment involves IUC reprocessing of certain materials from the environmental restoration of the Ashland 2 Site in Tonawanda, New York, part of the Formerly Used Sites Remedial Action Program (FUSRAP) being conducted by the USACE.

As we discussed on the telephone yesterday, the USACE contractor executing the site work has developed certain plans pursuant to the USACE contract, including sampling and analysis plans. These plans include sampling of the site prior to excavation, as well as sampling of the excavated materials prior to loading for shipment off site. Enclosed please find a copy of the contractor's plans for this testing. Preliminary analytical results have been received for the samples taken in the early stages of the site work. Enclosed for your information are copies of all available preliminary analytical results. These results have not been subject to a full quality assurance review, but so far they do not indicate that any hazardous wastes have been encountered in the materials at the site.

We are still gathering the subcontract information that was requested. As soon as that is compiled, we will send a copy to you for your information. We have also contacted our Project Manager, Mr. David Conboy, of the Buffalo District, and asked him to contact you to discuss the project. If there is any further information you need, please let him know, or feel free to contact me at any time. My telephone number is (402)697-2466, and my e-mail address is ann.l.wright@usace.army.mil.

The USACE is interested in maintaining good relations with the State of Utah and all other public officials regarding the conduct of work under the FUSRAP, and in making information concerning the sites available to the public. If there is anything further that would be of interest to your department, please let us know.

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Printed on Recycled Paper

ADD: Mitzi Young, OGC 21 21
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Mr. End.

Sincerely,



Ann L. Wright
Counsel for the HTRW CX

CF

✓ Mitzi Young, Esq.
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852-2738

SUBMITTAL REGISTER (ER 415-1-10)																				CONTRACT NO. DACA 31-95 D-008				
TITLE AND LOCATION FUSRAP ASHLAND 2														CONTRACTOR ICF KAISER ENGINEERS						SPECIFICATION SECTION				
TRANS MITTAL NO.	FILM NO.	SPECIFICATION PARAGRAPH NO.	DESCRIPTION OF ITEM SUBMITTED	TYPE OF SUBMITTAL										CLASSI- FICATION	CONTRACTOR SCHEDULE DATES			CONTRACTOR ACTION			GOVERNMENT ACTION		REMARKS	
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18	1	3.0.W. SECTION 3	STRAIGHT RAIL OF LADING	✓										✓		7/15/98	7/18/98	—	C	7/15/98	7/15/98	F	7/15/98	
18	2	3.0.W. SECTION 3	RADIOACTIVE MATERIAL PROFILE RECORD	✓										✓		7/15/98	7/18/98	—	C	7/15/98	7/15/98	F	7/15/98	
18	3	3.0.U. SECTION 3	MAP OF TRANSPORTATION ROUTE		✓									✓		7/15/98	7/18/98	—	A	7/15/98	7/15/98	F	7/15/98	
19	1	3.0.W. SECTION 3.12.6	DRAFT SPCC PLAN			✓								✓		7/15/98	7/18/98	—	A	7/15/98	7/15/98	F	7/15/98	
20	1	3.0.W. SECTION 3.12.1	PRE-REMEDIATION RADIOLOGICAL SURVEY	✓	✓									✓		7/21/98	7/21/98	—	A	7/21/98	7/21/98			
21	1	3.0.W. SECTION 3.12.5	FUSRAP - GAMMA SPECTROSCOPY			✓								✓		7/23/98	—	—	F	7/23/98	7/23/98	F	7/23/98	
21	2	3.0.W. SECTION 3.12.5	ROUTE CONTAMINATION SURVEYS			✓								✓		7/29/98	—	—	F	7/29/98	7/29/98	F	7/30/98	
22	3	3.0.W. SECTION 3.12.5	ENVIRONMENTAL MONITORING PROGRAM			✓								✓		7/29/98	—	—	F	7/29/98	7/29/98	F	7/30/98	
22	1	3.0.W. SECTION 3.12.4	AMENDMENT TO HAZARDOUS WASTE TRANSPORTATION PLAN			✓								✓		8/12/98	8/14/98	—	A	8/12/98	8/12/98			
22	2	3.0.W. SECTION 3.12.5	AMENDMENT TO SAMPLING & ANALYSIS PLAN			✓								✓		8/12/98	8/14/98	—	A	8/12/98	8/12/98			

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(Read instructions on the reverse side prior to initiating this form)

3 (This section will be initiated by the contractor)

☐ THIS IS A RESUBMITTAL OF
TRANSMITTAL _____

FUSRAP ASHLAND 2 REMEDIAL ACTION

APPROVAL REQUESTED

Mark T. Schwippen T
ICF KAISER ENGINEERS

NAME AND SIGNATURE OF CONTRACTOR _____

DATE

4.0 EXCAVATED MATERIAL MANAGEMENT PROCEDURES

This section presents the specific guidelines and procedures that will be followed for the management of materials generated during the remedial action activities at the Site. These procedures are generally applicable to the management of surface and subsurface materials after they have been excavated/removed. Specific procedures for excavation and removal are presented in the Site Operations Plan and Excavation, Backfill, and Restoration Plan. The procedures presented in this section are based on the project goals of minimizing threats to Site workers, human health, and the environment during all waste handling activities. Specific procedures and guidelines for visually characterizing, segregating, handling, staging, storing, sampling, packaging, labeling, and transporting site materials are presented in the following sections.

4.1 GENERAL

Material handling activities will be performed in a manner that minimizes the threat of a release of potentially contaminated material to the environment and surrounding community, and protects worker health and safety. Care will be taken during operations and activities that will generate potentially hazardous conditions, such as excavation and dewatering, to prevent releases of fugitive material and dust to the surrounding environment. An excavation management decision tree is provided as Figure 4-1.

4.2 MATERIAL HANDLING PRECAUTIONARY MEASURES

The following procedures may be implemented prior to or during remedial activities to ensure that there are no releases of fugitive materials to the environment and surrounding community, and to protect Site workers.

- Engineering controls such as water sprays may be used during activities that could potentially generate dust (i.e., excavation and loading) to prevent the spread of radioactive materials via wind dispersion.
- Plastic sheeting will be placed under and around containers while they are being loaded with site material. Any material that falls onto the plastic sheeting will be collected and placed in the container with its respective waste.
- Site workers will wear PPE appropriate for the specific task being performed, in accordance with the Site Health and Safety Plan. Spent PPE and contaminated disposable equipment and materials will be containerized and disposed of appropriately.
- Equipment used during construction activities in potentially radioactive areas will be properly cleaned before moving through clean areas of the Site or leaving the Site.
- A "clean road" will be established to allow material hauling vehicles to enter and exit the Site without coming into contact with radioactive media. This will prevent contaminated soils and sediments from being "tracked" onto the public roadways. The surface of hauling vehicles will be surveyed using a hand-held gross beta/gamma meter to ensure that the vehicle is not radiologically impacted when entering the clean road. Vehicles will undergo decontamination (wiping), as necessary, based on the results of the survey/screening process. Detailed procedures for screening and decontamination are presented in the SAP.
- Haul roads and the rail car loading area will be surveyed for radiation contamination, at a minimum, on a weekly basis (detailed procedures for radiological surveys are presented in Sections 4.3 of the Sampling and Analysis Plan) and at the end of the project to verify that these areas have not been radiologically impacted during waste handling operations. More frequent surveying of the haul roads may be performed as deemed necessary based on the schedule of activities, site conditions, and results of initial survey activities.

4.3 PRE-EXCAVATION SCREENING

All soils and materials to be excavated will be screened using a Gross Beta/Gamma Meter or equivalent. Materials containing >40 pCi/g will be segregated for off-Site disposal at International Uranium Corporation's facility in Blanding, Utah (or equivalent). Materials containing <40 pCi/g will be segregated for use as Site backfill. Additional segregation of excavated materials may be performed based on visual characterization or results of sampling activities, as described below.

4.4 REMOVAL AND VISUAL CHARACTERIZATION OF MATERIALS

Subsurface materials will be examined by an ICF Kaiser representative as it is excavated to determine if the material is visibly stained, discolored, or otherwise appears to be impacted (excavated soils will also be screened with a photoionization detector) by materials other than radiological constituents. Although visual characterization and screening with a PID will aid in the classification process, additional sampling and analysis will be required to allow for complete classification of excavated materials. If excavated soils (with or without radiological constituents) are discolored (i.e., stained or colored material or materials exhibiting elevated PID readings), these soils will be segregated and stockpiled separately or placed in an appropriate container. The materials will then be sampled and analyzed to determine if they are a regulated material. Soils and debris that are not stained or discolored will be transferred to the appropriate, designated staging area for subsequent shipment to International Uranium Corporation's facility in Utah (or equivalent), or for use as on-Site backfill.

4.5 MATERIAL HANDLING, STAGING, AND STORAGE

The procedures and guidelines that will be used for handling, staging, and storage of materials generated during the remedial activities at the Site are presented below.

As radioactive soils are excavated, they will be loaded into hauling vehicles and transferred to the appropriate designated staging area or material preparation area (materials containing free liquid only) for further management. The Site Operations Plan presents the locations of the designated staging areas within the exclusion zone. Excavated soils will be segregated based on in-situ scanning results. Soils will be scanned prior to excavation using a gross Beta/Gamma meter and/or visual characterization of materials as they are being excavated. Care will be taken to ensure that soils which are visually stained are segregated appropriately.

Any drums or containers of product or waste that may be encountered will be placed in an overpack drum at the excavation area. The overpack drum will then be transferred to a designated storage area for sampling, analysis, and subsequent disposal.

Materials to be shipped to International Uranium Corporation's facility in Blanding, Utah (or approved alternate) must not contain any free liquids and must pass the paint filter test. Therefore, any materials that are saturated upon excavation will be transferred to a designated temporary material preparation area located within the Exclusion Zone prior to transfer to the rail loading area. At the material preparation area, the soil will be stabilized using an appropriate stabilizing agent. Material will be stabilized until there are no visible free liquids. Materials to be shipped will be analyzed by the paint filter test to ensure that there are no free liquids. It is anticipated that each shipping container will be sampled separately, per the SAP. Details regarding sampling and analysis are presented in the SAP. The material preparation area will be equipped with a sump to allow for collection of waters. These waters will be transferred to the on-Site holding tank for treatment and reuse. The sump at the material preparation area and rail loading area will be cleaned out, as necessary, to remove accumulated sediments. Cleaning of the sediment traps will be performed using hand tools and heavy equipment, as appropriate. Sediments removed from the sump will be stabilized, as necessary, and disposed of along with soils.

The staging areas for non-radioactive (<40 pCi/g) soils will be constructed within the exclusion zone and as close as possible to the areas where remedial activities will generate soils and debris. Locations for the soil staging areas will be selected so as to minimize the handling of materials. Also, if possible, the soil staging areas will be located away from sensitive human and environmental receptors, such as wetlands and property boundaries.

Radioactive soil stockpiles (>40 pCi/g) and other visually stained soils will be covered with poly sheeting at the completion of staging activities, the soil will be covered and will remain covered while awaiting further management.

Several rail shipping scenarios are presently under consideration (see Section 4.2.6 of the Site Operations Plan). Under the intermodal container scenario, >40 pCi/g Th-230 material will be loaded into tarped intermodals and the intermodals will be transported by roll-off trucks to the on-site rail facility. Under the containerized shipping scenario, the containers would be directly loaded at the storage area and subsequently transported by truck to the on-site rail facility following completion of the radiological screening and sampling/analyses procedures specified in Sections 4.3, 5.5 and 5.8 of the SAP.

All trucks, excluding those dedicated to the excavation site(s), will remain on the "radioactive-free" haul road within the Exclusion Zone. All vehicles leaving the Exclusion Zone will be scanned, and, if leaving the Site property, "smeared" prior to release. In the unlikely event that radioactive material is discovered, the vehicles will be cleaned at the equipment decontamination facility prior to release.

4.6 MATERIAL SAMPLING AND ANALYSIS

Prior to excavation, approximately fifteen (15) soil samples will be collected for laboratory analysis from areas to be excavated. Eight (8) of the samples will be surface samples, and seven (7) will be subsurface. The samples will generally be collected from the areas exhibiting the highest radioactivity (see SAP Section 5.5.1.1). The analytical results from these samples will be used to prepare a profile for the materials to be shipped to the International Uranium Corporation disposal site in Blanding, Utah or approved alternate. If possible, the existing profile for the Tonawanda materials, which was prepared by Bechtel, will be utilized and modified appropriately based on the sampling data. The Sampling and Analysis Plan (SAP) provides the specific sample collection procedures, analytical parameters, sample archiving requirements, and laboratory information.

Additional samples of site materials will be collected as needed during the site activities to classify excavated materials for off-site shipment. The detailed procedures for sampling excavated materials are presented in the SAP. The SAP also identifies the anticipated analytical parameters for each material stream to be sampled. A representative sample of each different stream will be collected and analyzed, with the results used to prepare a new profile, if necessary, or modify an existing profile.

Representative samples will be collected, composited and analyzed for radiological activity by the on-site laboratory for shipping bill of lading preparation purposes. These samples will be archived at the site until formal material acceptance is received from the IUC facility. Identical sampling and analysis is performed by the disposal facility for all incoming material.

Qualifications and experience of personnel in charge of the on-site laboratory are provided in Appendix A of the Site Operations Plan. Laboratory operations project organization and personnel responsibilities are provided in Section 2.0 of the SAP. Testing equipment specifications and sampling and analysis procedures to be utilized by these personnel are included in Sections 4.0 and 5.0 of the SAP.

5.0 FIELD SAMPLING AND ANALYTICAL ACTIVITIES

This section of the FSP covers the sampling activities and the sample analyses to be performed on-site and off-site. The quantitative analytical data that is generated as a result of these activities will be sufficient in type, in quantity, and in quality such that the cleanup of the site is verified, radiation exposure to on-site workers is minimized, and migration of radioactive materials to adjacent properties and roads is proven to be negligible.

Safety and Ecology Corporation (SEC) has been selected as a subcontractor to set up and operate the on-site laboratory. SEC is responsible for providing the specific types of equipment and providing the standard operating procedures for the lab equipment. SOPs for the on-site laboratory have been provided to ICF Kaiser Engineers and USACE under separate cover.

5.1 GEOPHYSICS (NOT APPLICABLE)

5.2 SOIL GAS SURVEY (NOT APPLICABLE)

5.3 GROUNDWATER (NOT APPLICABLE)

5.4 SUBSURFACE SOIL (NOT APPLICABLE)

5.5 SURFACE SOIL AND SEDIMENT

5.5.1 Rationale

Surface soil, near-surface soil, and sediment samples will be collected before, during, and after the remedial activities for several different purposes. This subsection is intended to describe the numbers, locations, purpose, and rationale for collecting each type of soil and sediment sample.

5.5.1.1 Surface and Near-Surface Soil Sample Locations

Soil samples will be collected and analyzed during the remedial action program for four different purposes.

The first set of soil samples includes fifteen Profile samples of surface and near surface soils that are may contain radiological constituents and will be collected prior to the start of remedial activities. These samples will be collected early in the program and will be sent off-site for analyses (Table 5.1). The analytical data will provide "Profile" characteristics that are required to ship soils to a off-site facility. This group of samples is referred to as the "Profile Samples." Eight of the samples will be discrete surface soil samples collected from locations where the walkover gamma radiation survey indicates the highest gamma radiation readings occur (see Section 4.2.1). These eight samples will be collected from 0 to 12 inches deep using a shovel and trowel to obtain the samples. Seven other soil samples in this group will be collected from just below the ground surface (1 to 4 feet deep) using a hand auger. These near-surface samples will be collected from locations approximately equal to locations where high activities of radionuclides were detected during the RI program, including borehole locations B32R004, B32R005, B32R006, B32R009, B32R015, B32R017, and B32R136 (Figure 1-2). The procedures for collecting the surface soil samples and auger samples are described in SOP S.1.

The second set of soil samples will be collected during the site activities and is referred to as the "Soil Characterization Samples." This group of samples will be collected and analyzed (Table 5-1) during the course of the soil excavation activities. These samples will be collected from the excavation pit floor and from elsewhere on-site (e.g., haul road, soil storage area, loadout area) where the gamma walkover surveys show gamma radiation levels to be at the threshold values and it is unclear whether the soil materials are >40 or <40 . The collection of these samples and rapid analyses in the on-site laboratory will provide a means to quickly assess whether or not soil materials should be sent off-site.

If soils are encountered that appear to contain organic contaminants or cause elevated PID readings, then samples of these soils will be collected and sent to the off-site laboratory for analyses of volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and metals using the Toxic Characteristic Leaching Procedure (TCLP), and for PCBs (Table 5-2). The procedures for collecting soil samples are included in SOP S.1.

The third type of soil samples to be collected are samples representing soils to be placed in intermodal containers to be shipped off-site. These samples will each consist of randomly collected representative samples that will be composited. These samples will be analyzed in the field laboratory (Table 5-1) and the results will be included on the bill of lading sheets that accompany the rail cars to the off-site facility. The procedures for collecting and compositing these samples are described in SOP S.2.

The fourth set of soil samples to be collected during the project is the "Final Status Survey." These samples will be collected from excavation pit floors and side slopes after all radioactive soils have been removed and a gamma radiation walkover survey of each excavation area has been performed. They will also be collected from other survey units around the Site. The purpose of these samples is to confirm that all radioactive soils exceeding the cleanup criteria have been removed. These samples will be sent to the off-site laboratory for analyses. Details of the statistical sampling design, sampling procedures, numbers of samples, and analytical protocols are described in a separate document (Final Status Survey Plan).

5.5.1.2 Sediment Sample Locations

Two different types of sediment samples will be collected during the course of the project. The first type of samples involve sediments that accumulate in the sumps, the water retention pond, and the silt fences and are potentially contaminated. Each of these sediment locations will be sampled and analyzed weekly in the field laboratory (Table 5-1). When necessary, the sediment that has accumulated at these locations will need to be removed. The laboratory analyses will dictate whether the sediments will be placed in the <40 soil storage pile, or whether it will be placed in the pile destined for off-site removal.

The second type of sediments to be sampled and analyzed are sediments from the two drainage swales that lie adjacent to the main excavation area (Figure 1-1). Sampling locations are shown on Figure 5-1. These four locations will be sampled weekly before, during, and up to one month after remedial activities are performed. The samples will be analyzed in the field laboratory (Table 5-1). Results from these analyses will help determine whether radiolactive soils are migrating off-site, and whether remedial activities are accelerating the rate of off-site migration. If the data indicate that off-site migration is measurable, then additional steps for controlling soil erosion will be evaluated and implemented to reduce off-site migration of contaminated sediments.

The procedures for collecting sediment samples are the same as for surface soil samples (SOP S.1).

5.5.1.3 Discrete/Composite Soil and Sediment Sampling Requirements

All soil and sediment samples collected during the project will be discrete samples, except for the composite soil samples that will be collected for off-site removal. The procedures for collecting and compositing these samples for off-site removal are described in SOP S.2.

5.5.1.4 Field and Laboratory Analyses

Table 5-1 lists the types and approximate numbers of soil and sediment samples that will be collected during the field program, the field measurements that will be made, the analyses that will be performed in the field laboratory, and the analyses that will be performed in the off-site laboratory. For all samples, gross gamma measurements will be performed using hand-held field instruments, and analyses of moisture content and gamma spectroscopy will be performed in the field laboratory. All of the Profile Samples and Final Status Survey Samples will be sent off-site for laboratory analyses, as listed in Tables 5-1 and 5-2.

It is anticipated that a few of the Soil Characterization Samples (approximately 8) might be collected and sent to the off-site laboratory for analyses of metals, VOCs, SVOCs, and PCBs, in addition to the U, Th, and Ra isotopes normally analyzed. This will happen if soil organic staining is observed or VOCs are detected based on PID readings. Sampling of the soil materials in question will occur if the soil is significantly stained, if the PID reading directly above the soil surface exceeds 100 ppmv, or the PID reading in the breathing air zone (i.e., 5 ft above ground surface) exceeds 2 ppmv.

If organic-impacted soil is suspected to be present, all excavation work in that area will cease until sampling and analyses of soil samples are completed, and the data can be evaluated. If organic constituents are present in TCLP extracts at levels that would cause the soils to be classified as RCRA hazardous, then the soils will remain in place until the USACE decides what should be done with the soil and the work plans are modified to deal with the change in site conditions.

5.5.1.5 Upgradient, QA/QC, and Blank Samples and Frequency

Background levels of uranium, thorium, and radium isotopes in soils were determined previously during the RI (BNI, 1993) using soil samples collected from the Ashland 2 South area, which is outside the area containing radioactive materials. Therefore, additional sampling and characterization for background levels is unnecessary.

Sample replicates (i.e., blind duplicates) will be sent to the field laboratory and the off-site laboratory at a frequency of one replicate per 20 soil and sediment samples analyzed. The replicate samples will be analyzed for the same parameters that the primary samples are being analyzed. The procedure for collecting sample replicates is presented in SOP S.1 and S.2.

Rinsate samples will be collected only if samples are being sent off-site for organic or inorganic analyses. The rinsate samples will be collected by passing distilled water over decontaminated trowels and mixing bowls, and placing the rinsate samples in appropriate sample bottles. One rinsate sample will be collected for every 20 soil and sediment samples collected for non-radiological analysis. The procedure for collecting a rinsate sample is presented in SOP S.8.

5.5.2 Procedures

5.5.2.1 Sampling Methods for Surface Soil and Sediment

Surface soil samples will be collected from a depth of 0 to 6 inches using a decontaminated trowel. Sediment will be collected from the uppermost 2 inches of material. In each case, gross gamma survey measurements will generally be employed to select discrete sampling locations that have the highest gross gamma values. If soil sampling locations are vegetated, the above-ground vegetation and top one inch of soil material will be scraped off and discarded. For dry soil and sediment sampling locations, the soil will be stirred and mixed in-place and then placed directly into sample jars. If the soil or sediment sampling location is saturated or contains standing water, then the sample material will be dug up with the trowel, placed into a stainless steel mixing bowl, excess water will be decanted out of the bowl, and the material will be thoroughly mixed using the trowel. The trowel will then be used to place sample material into the sample jars.

For the Profile Samples to be collected near the beginning of the field activities, seven of the samples will be collected from depths of one to four feet deep using a decontaminated hand auger. The augered material will be placed on a clean sheet of plastic and will be scanned with a hand-held gross gamma NaI(Tl) detector. The specific depth interval sent off-site for analysis will be the interval displaying the highest gross gamma measurements. The material selected will be homogenized with a trowel and placed directly into a sampling jar, as discussed in SOP S.1.

Representative composite soil samples will be collected prior to off-site shipment of rail containers. The samples will be collected randomly from the soil stockpile surface, will be placed in a stainless steel bowl, and will be thoroughly homogenized. After mixing, composited sample material will be placed in the required sample jars and will be tightly sealed and labeled. The procedure for collecting a composited soil sample is presented in SOP S.2.

5.5.2.2 Field Measurement Procedures and Criteria

For each Profile Sample, Soil Characterization Sample, and sediment samples not submerged beneath standing water, a gross gamma radiation measurement will be made from directly above the sample (SOP R.2) and a location and elevation will be determined. For most of the sampling sites, the locations will be determined using the GPS instrument (SOP R.1). However, in many cases, engineer's surveying equipment and methods will be used to get a more accurate fix on sampling location and elevation.

A PID instrument will be used to check for organic vapors that might be emanating from surface soils. The procedures for calibrating and operating the PID instrument are included in SOP C.1. For each new lift in an excavation area, the area will be spot checked with the PID following the walkover gamma survey. Oily spots, wet spots, or locations that smell of organic vapors will be preferentially surveyed using the PID. If organic vapors are positively detected at 100 ppmv at the ground surface or 2 ppmv above ambient levels in the breathing air zone, then the soils will be considered as possibly impacted by VOCs and will be sampled for off-site analyses of metals, VOCs, SVOCs, and PCBs (Table 5-2).

5.5.2.3 Sampling for Radiological Analyses

All soil and sediment samples collected at the site will be measured in the field laboratory using gamma spectroscopy to estimate activity levels of U-238, Ra-226, and Th-230 isotopes. For the soil and sediment samples sent to the off-site laboratory (Table 5-1), each will be analyzed for uranium, thorium, and radium isotopes using gamma and alpha spectrometric methods.

5.5.2.4 Sampling for Chemical Analyses

The fifteen Profile Soil Samples will be analyzed in the off-site laboratory for a number of organic and inorganic parameters (Table 5-2).

If soils are encountered during excavation activities which appear to contain organic compounds or cause PID measurements to exceed threshold criteria, then a discrete soil sample will be collected and shipped off-site for analysis of metals, VOCs, SVOCs (by TCLP), and PCBs (Table 5-2).

5.5.2.5 Sample Containers and Preservation Techniques

All soil and sediment samples that are collected for on-site and off-site radiological analyses will be placed in a one liter, wide-mouth polyethylene bottles. Samples for radiological analyses do not need to be refrigerated.

Profile Samples will require two 32-ounce wide-mouth glass sample jars for the organic and inorganic analyses (Table 5-2). These sample containers will be cooled to 4 degrees Centigrade (C) immediately upon collection.

Soil samples that are being analyzed off-site for SVOCs and PCBs will be placed in one 16-ounce amber glass jar with a Teflon cap liner. Samples that are to be analyzed off-site for VOCs will be placed in one 4-ounce amber glass jar. These sample containers will be cooled to 4 degrees C immediately upon collection.

5.5.2.6 Field Quality Control Sampling Procedures

For each twenty soil samples collected for the on-site laboratory, one blind duplicate will be submitted to the on-site laboratory and one replicate sample will be sent to the off-site laboratory for the same analyses. Thus, three splits of the same sample will be analyzed. When replicate samples are being collected, the sample material will be placed in a stainless steel mixing bowl, will be thoroughly mixed with a stainless steel spoon, and will be used to fill the required sample jars (SOP S.1).

5.5.2.7 Decontamination Procedures

Soil and sediment sampling equipment include stainless steel trowels, spoons, mixing bowls and a hand auger. All soil sampling equipment will be decontaminated after each use as follows:

- scraping off dirt and mud,

LETTER OF TRANSMITTAL

**ICF Kaiser Engineers, Inc.
FUSRAP-Ashland 2 Project Office
70 Pearce Avenue
Tonawanda, NY 14150-0410
716-447-9380**

DATE: August 12, 1998

**TO: Frederick L. Boglione
US Army Corps of Engineers**

**FROM: Mark T. Schwippert
ICF Kaiser Engineers, Inc.
Construction Quality Control Manager**

RE: Preliminary Test Results for Soil Profile Samples

Dear Mr. Boglione:

Attached for your review are preliminary analytical testing results for the initial round of Soil Profile Samples which were collected in accordance with Section 5.5.1.1. of the Sampling and Analysis Plan. These results were received from Quanterra Laboratories on August 1, 1998.

**Very truly yours,
ICF Kaiser Engineers**

Mark T. Schwippert

**Mark T. Schwippert
CQC System Manager**

Chain of Custody Record

Quanterra

Project Name: Tcf. Kaiser Date: 7/2/98 Chain of Custody Number: 3452
 Address: 4947 River Rd Lab Number: 7/2/98
 City: Tonawanda, NY 14150

Project Manager: Reid Dennis Telephone Number (Area Code)/Fax Number: 716-873-3074
 Site Contact: Reid Dennis Contract/Material Number: 716-873-3074

Contract/Purchase Order/Quote No. Ashtland II

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type No.	Preservative	Condition on Receipt	Analysis
ASH2-SL-009/WC1B	7/2/98	15:25	Grab	840Z	4 Glass	Cold	Good	Ashtland II
ASH2-SL-010/WC2B	7/2/98	15:35	Grab	840Z	4 Glass	Cold	Good	Ashtland II
ASH2-SL-011/WC3B	7/2/98	15:35	Grab	840Z	4 Glass	Cold	Good	Ashtland II
ASH2-SL-012/WC4B	7/2/98	16:00	Grab	840Z	4 Glass	Cold	Good	Ashtland II
ASH2-SL-013/WC6B	7/2/98	16:10	Grab	840Z	4 Glass	Cold	Good	Ashtland II

Special Instructions

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown
 Turn Around Time Required: ☐ Normal ☐ Rush
 Relinquished By: Reid Dennis Date: 7-2-98 Time: 18:00
 Relinquished By: Reid Dennis Date: 7-2-98 Time: 18:00
 Relinquished By: Reid Dennis Date: 7-2-98 Time: 18:00
 Relinquished By: Reid Dennis Date: 7-2-98 Time: 18:00

Custody Record

[illegible]

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers		Preservative	Condition on Receipt
					Type	No.		
Ash 2 - SL - 014 / w/c 6B	7.6.98	0530	6cwb	84.02	glass	4	cold	X
Ash 2 - SL - 015 / w/c 7B	7.6.98	0545	6cwb	84.02	glass	4	cold	X
Ash 2 - SL - 008 / w/c 8B	7.6.98	0515	6cwb	84.02	glass	4	cold	X
Ash 2 - SL - 001 / w/c 10B	7.6.98	0530	6cwb	84.02	glass	4	cold	X

Section 1

Possible Hazard Identification				Sample Disposal		Archive For	
<input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Polymers		<input type="checkbox"/> Unknown <input type="checkbox"/> L <input type="checkbox"/> B <input type="checkbox"/> RE		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab		<input type="checkbox"/> Months	
Time Around Time Required				Project Specific (Specify)			
1. Requisitioned By				1. Received By		Time	
2. Requisitioned By				2. Received By		Time	
3. Requisitioned By				3. Received By		Time	

11

REMARKS:

Chain of Custody Record



Client: **ICF KAISER**
 Address: **4947 RIVER RD**
 City: **ROCKAWAY** State: **NY** Zip Code: **14150**
 Project Name: **Ashland II**
 Contract/Order/Quote No.: **80880434079**

Project Manager: **Raid Dennis**
 Telephone Number (Area Code) Fax Number: **716 873 4091**
 Site Contact: **Raid Dennis**
 Carrier/Vehicle Number: **FED Ex**

Date: **7/7/98** Chain of Custody Number: **332**
 Lab Number: **7/7/98** Page: **1** of **1**

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type No.	Preservative	Condition on Receipt	Analyte
Ash2-SL-002	7.7.98	0830	Grub	84.02	Glass 4	Cold	7/7/98	Grub
Ash2-SL-003	7.7.98	0915	Grub	84.02	Glass 4	Cold	7/7/98	Grub
Ash2-SL-004	7.7.98	1000	Grub	84.02	Glass 4	Cold	7/7/98	Grub
Ash2-SL-005	7.7.98	1345	Grub	84.02	Glass 4	Cold	7/7/98	Grub
Ash2-SL-007	7.7.98	1600	Grub	84.02	Glass 4	Cold	7/7/98	Grub

Special Instructions

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

Turn Around Time Required: ☐ Normal ☐ Rush

Sample Disposal: ☐ Return To Client ☐ Disposed By Lab ☐ Archive For Months

Project Specific (Specify):

1. Relinquished By: **Donna Catone III** Date: **7/7/98** Time: **1800**
 2. Relinquished By: **FED Ex** Date: **7.7.98** Time: **1800**
 3. Relinquished By: Date: Time:

Comments

Quanterra

Client	ICF Kaiser	Project Manager	Red Dennis	Date	7/8/98	Chain Of Custody Number	336
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Address	4947 River Rd	Telephone Number (Area Code)/Fax Number	716-873-1074	Lab Number	132	Page	1	of	1
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City	State	Zip Code	Site Contact	Analysis of
Tonawanda	NY	14156	Reid Demis	Analysis of

Project Name	Ashland II	Carters/Waydell Number	7/2/00	7/4/00	7/5/00	7/6/00	7/7/00	7/8/00	7/9/00	7/10/00	7/11/00	7/12/00	7/13/00	7/14/00	7/15/00	7/16/00	7/17/00	7/18/00	7/19/00	7/20/00	7/21/00	7/22/00	7/23/00	7/24/00	7/25/00	7/26/00	7/27/00	7/28/00	7/29/00	7/30/00	7/31/00	7/32/00	7/33/00	7/34/00	7/35/00	7/36/00	7/37/00	7/38/00	7/39/00	7/40/00	7/41/00	7/42/00	7/43/00	7/44/00	7/45/00	7/46/00	7/47/00	7/48/00	7/49/00	7/50/00	7/51/00	7/52/00	7/53/00	7/54/00	7/55/00	7/56/00	7/57/00	7/58/00	7/59/00	7/60/00	7/61/00	7/62/00	7/63/00	7/64/00	7/65/00	7/66/00	7/67/00	7/68/00	7/69/00	7/70/00	7/71/00	7/72/00	7/73/00	7/74/00	7/75/00	7/76/00	7/77/00	7/78/00	7/79/00	7/80/00	7/81/00	7/82/00	7/83/00	7/84/00	7/85/00	7/86/00	7/87/00	7/88/00	7/89/00	7/90/00	7/91/00	7/92/00	7/93/00	7/94/00	7/95/00	7/96/00	7/97/00	7/98/00	7/99/00	7/100/00	7/101/00	7/102/00	7/103/00	7/104/00	7/105/00	7/106/00	7/107/00	7/108/00	7/109/00	7/110/00	7/111/00	7/112/00	7/113/00	7/114/00	7/115/00	7/116/00	7/117/00	7/118/00	7/119/00	7/120/00	7/121/00	7/122/00	7/123/00	7/124/00	7/125/00	7/126/00	7/127/00	7/128/00	7/129/00	7/130/00	7/131/00	7/132/00	7/133/00	7/134/00	7/135/00	7/136/00	7/137/00	7/138/00	7/139/00	7/140/00	7/141/00	7/142/00	7/143/00	7/144/00	7/145/00	7/146/00	7/147/00	7/148/00	7/149/00	7/150/00	7/151/00	7/152/00	7/153/00	7/154/00	7/155/00	7/156/00	7/157/00	7/158/00	7/159/00	7/160/00	7/161/00	7/162/00	7/163/00	7/164/00	7/165/00	7/166/00	7/167/00	7/168/00	7/169/00	7/170/00	7/171/00	7/172/00	7/173/00	7/174/00	7/175/00	7/176/00	7/177/00	7/178/00	7/179/00	7/180/00	7/181/00	7/182/00	7/183/00	7/184/00	7/185/00	7/186/00	7/187/00	7/188/00	7/189/00	7/190/00	7/191/00	7/192/00	7/193/00	7/194/00	7/195/00	7/196/00	7/197/00	7/198/00	7/199/00	7/200/00	7/201/00	7/202/00	7/203/00	7/204/00	7/205/00	7/206/00	7/207/00	7/208/00	7/209/00	7/210/00	7/211/00	7/212/00	7/213/00	7/214/00	7/215/00	7/216/00	7/217/00	7/218/00	7/219/00	7/220/00	7/221/00	7/222/00	7/223/00	7/224/00	7/225/00	7/226/00	7/227/00	7/228/00	7/229/00	7/230/00	7/231/00	7/232/00	7/233/00	7/234/00	7/235/00	7/236/00	7/237/00	7/238/00	7/239/00	7/240/00	7/241/00	7/242/00	7/243/00	7/244/00	7/245/00	7/246/00	7/247/00	7/248/00	7/249/00	7/250/00	7/251/00	7/252/00	7/253/00	7/254/00	7/255/00	7/256/00	7/257/00	7/258/00	7/259/00	7/260/00	7/261/00	7/262/00	7/263/00	7/264/00	7/265/00	7/266/00	7/267/00	7/268/00	7/269/00	7/270/00	7/271/00	7/272/00	7/273/00	7/274/00	7/275/00	7/276/00	7/277/00	7/278/00	7/279/00	7/280/00	7/281/00	7/282/00	7/283/00	7/284/00	7/285/00	7/286/00	7/287/00	7/288/00	7/289/00	7/290/00	7/291/00	7/292/00	7/293/00	7/294/00	7/295/00	7/296/00	7/297/00	7/298/00	7/299/00	7
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Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers		Preservative	Condition on Receipt	Remarks
					Type	No.			
Ash2 - SL-016	7/8/58	1100	Grab	8402	glass	4	cold		
Ash2 - SL-006	7/8/58	1200	Grab	8402	glass	4	cold		
Ash2 - Tb-001	7/8/58		Trip	40 ml	glass	1	cold		
Ash2 - Tb-002	7/8/58		Trip	40 ml	glass	1	cold		

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Possible Hazard Identification	Sample Disposal

<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client	<input type="checkbox"/> Disposed By Lab	<input type="checkbox"/> Archive For	Months
Turn Around Time Required _____								Project Specific (Specify) _____ GC Level _____

1. Requested By		1. Received By		Date	Time
<input type="checkbox"/> Normal	<input type="checkbox"/> Rush	<input type="checkbox"/> L	<input type="checkbox"/> R	<input type="checkbox"/> M	
Date 1/1/00		Date 1/1/00		Time 1:00	Time 1:00

2. Acquired By	Date	Time	2. Received By	Date	Time
Warrant	7/8/88	1530			
Obtained by					

[illegible][illegible]

DISTRIBUTION:

3 - Case with Sample CANARY - Returned to Client with Return: BULK - Bulk Case

Quanterra
31 July 1998

Category: Gamma Spec.

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Prep Date	Date Analyzed	Parameter	Result	Sigma Error (+/-)	MDA	Units
ASH 2-SL-009/WC	18285-001	Soil	07/02/98	07/03/98	07/16/98	07/19/98	Cesium-137	ND	---	0.67	PCI/G
							Potassium-40	9.88	5.66	4.30	PCI/G
							Thorium-230	3160	362	219	PCI/G
							Uranium-235	35.9	3.6	5.13	PCI/G
							Thorium-234	498	40	14.1	PCI/G
							Lead-210	41.0	12.4	16.8	PCI/G
							Radium-223	94.5	5.3	3.44	PCI/G
							Bismuth-214	47.8	3.4	1.11	PCI/G
							Lead-211	125	15	16.3	PCI/G
							Lead-214	64.4	4.3	1.27	PCI/G
							Thorium-227	134	9	4.24	PCI/G
ASH 2-SL-010/WC	18285-002	Soil	07/02/98	07/03/98	07/16/98	07/19/98	Cesium-137	ND	---	0.33	PCI/G
							Potassium-40	17.2	4.1	2.77	PCI/G
							Radium-226	56.2	38.7	6.34	PCI/G
							Thorium-230	1530	173	65.0	PCI/G
							Uranium-235	6.40	2.03	1.86	PCI/G
							Thorium-234	71.7	8.0	5.47	PCI/G
							Lead-210	22.9	8.5	5.83	PCI/G
							Protactinium-231	54.4	7.9	46.4	PCI/G
							Radium-223	36.3	2.2	1.40	PCI/G
							Bismuth-214	20.1	1.5	0.53	PCI/G
							Lead-211	38.2	5.8	8.31	PCI/G
							Lead-214	13.9	1.4	0.51	PCI/G
							Thorium-227	36.7	2.9	2.11	PCI/G

Quanterra
31 July 1998

Category: Gamma Spec.

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Prep Date	Date Analyzed	Parameter	Result	Sigma Error (+/-)	MDA	Units
ASH 2-SL-010/WC	18285-002	Soil	07/02/98	07/03/98	07/16/98	07/19/98	Bismuth-211	36.3	5.7	1.49	PCI/G
ASH2-SL-011/WC3	18285-003	Soil	07/02/98	07/03/98	07/16/98	07/19/98	Cesium-137	ND	---	0.42	PCI/G
							Potassium-40	17.2	5.6	4.45	PCI/G
							Radium-226	64.5	64.0	8.59	PCI/G
							Thorium-230	2340	255	90.2	PCI/G
							Uranium-235	13.1	3.4	2.66	PCI/G
							Thorium-234	166	14	7.18	PCI/G
							Lead-210	45.1	9.2	8.38	PCI/G
							Lead-212	1.14	0.56	0.66	PCI/G
							Bismuth-212	5.59	3.19	5.02	PCI/G
							Protactinium-231	95.9	11.8	58.5	PCI/G
							Radium-223	71.4	3.6	1.99	PCI/G
							Bismuth-214	39.0	2.9	0.77	PCI/G
							Lead-211	74.1	10.4	9.74	PCI/G
							Lead-214	37.3	2.6	0.82	PCI/G
							Thorium-227	72.6	4.8	2.42	PCI/G
ASH2-SL-012/WC4	18285-004	Soil	07/02/98	07/03/98	07/16/98	07/19/98	Cesium-137	ND	---	0.49	PCI/G
							Radium-226	117	80	11.0	PCI/G
							Thorium-230	3250	368	123	PCI/G
							Uranium-235	13.9	4.0	3.43	PCI/G
							Thorium-234	142	14	9.02	PCI/G
							Lead-210	79.8	14.0	10.6	PCI/G
							Lead-212	1.36	0.59	0.90	PCI/G

Quanterra
31 July 1998

Category: Gamma Spec.

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Prep Date	Date Analyzed	Parameter	Result	Sigma Error (+/-)	MDA	Units
ASH2-SL-012/WC4	18285-004	Soil	07/02/98	07/03/98	07/16/98	07/19/98	Protactinium-231	113	18	73.4	PCI/G
							Radium-223	85.0	4.8	2.47	PCI/G
							Bismuth-214	85.6	4.8	0.94	PCI/G
							Lead-211	93.4	11.1	14.2	PCI/G
							Lead-214	77.4	5.7	0.98	PCI/G
							Thorium-227	77.6	6.4	3.18	PCI/G
ASH2-SL-013/WC5	18285-005	Soil	07/02/98	07/03/98	07/26/98	07/19/98	Cesium-137	ND	---	0.33	PCI/G
							Potassium-40	19.1	3.9	3.04	PCI/G
							Thorium-230	1250	148	66.7	PCI/G
							Uranium-235	7.67	0.88	1.86	PCI/G
							Thorium-234	60.7	6.6	4.90	PCI/G
							Lead-210	26.0	6.1	5.59	PCI/G
							Lead-212	0.55	0.58	0.45	PCI/G
							Protactinium-231	54.1	8.0	39.4	PCI/G
							Radium-223	35.4	2.0	1.45	PCI/G
							Bismuth-214	33.6	2.2	0.60	PCI/G
							Lead-211	45.8	6.2	8.43	PCI/G
							Lead-214	29.0	2.0	0.57	PCI/G
							Thorium-227	35.2	2.8	1.70	PCI/G
							Cesium-137	ND	---	0.40	PCI/G
ASH2-SL-014/WC	18290-001	Soil	07/06/98	07/07/98	07/16/98	07/19/98	Potassium-40	18.1	5.2	3.37	PCI/G
							Thorium-230	1810	212	132	PCI/G
							Uranium-235	12.9	1.5	3.12	PCI/G

Category: Gamma Spec.

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Prep Date	Date Analyzed	Parameter	Result	Sigma Error (+/-)	MDA	Units
ASH2-SL-014/WC	18290-001	Soil	07/06/98	07/07/98	07/16/98	07/19/98	Thorium-234	106	10	9.43	PCI/G
							Lead-210	30.9	7.6	10.0	PCI/G
							Protactinium-231	99.7	11.9	84.2	PCI/G
							Radium-223	52.5	3.0	2.20	PCI/G
							Bismuth-214	24.4	2.2	0.72	PCI/G
							Lead-211	64.2	8.5	9.61	PCI/G
							Lead-214	49.4	3.1	0.76	PCI/G
ASH2-SL-015/WC	18290-002	Soil	07/06/98	07/07/98	07/16/98	07/19/98	Thorium-227	64.0	4.6	2.74	PCI/G
							Cesium-137	ND	---	0.63	PCI/G
							Potassium-40	7.39	4.77	6.42	PCI/G
							Thorium-230	2770	315	128	PCI/G
							Uranium-235	17.8	2.0	3.67	PCI/G
							Thorium-234	270	24	10.8	PCI/G
							Lead-210	71.5	18.5	10.6	PCI/G
							Protactinium-231	122	16	103	PCI/G
							Radium-223	95.6	5.3	2.75	PCI/G
							Bismuth-214	45.3	3.3	1.09	PCI/G
							Lead-211	95.1	11.9	16.9	PCI/G
							Thorium-227	98.6	6.8	3.35	PCI/G
							Bismuth-211	303	38	3.13	PCI/G
ASH2-SL-008/WC	18290-003	Soil	07/06/98	07/07/98	07/16/98	07/19/98	Cesium-137	ND	---	0.41	PCI/G
							Potassium-40	12.7	5.1	4.73	PCI/G
							Thorium-230	3000	317	99.9	PCI/G

Quanterra
31 July 1998

Category: Gamma Spec.

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Prep Date	Date Analyzed	Parameter	Result	Sigma Error (+/-)	MDA	Units
ASH2-SL-008/WC	18290-003	Soil	07/06/98	07/07/98	07/16/98	07/19/98	Uranium-235	18.7	2.0	2.99	PCI/G
							Thorium-234	200	17	7.80	PCI/G
							Lead-210	51.6	10.7	9.01	PCI/G
							Lead-212	1.63	0.67	0.70	PCI/G
							Protactinium-231	151	15	63.3	PCI/G
							Radium-223	111	5	2.14	PCI/G
							Bismuth-214	40.5	2.9	0.74	PCI/G
							Lead-211	114	13	10.5	PCI/G
							Lead-214	41.4	2.9	0.83	PCI/G
							Thorium-227	108	6	2.68	PCI/G
ASH2-SL-001/WC	18290-004	Soil	07/06/98	07/07/98	07/16/98	07/19/98	Cesium-137	ND	---	0.32	PCI/G
							Potassium-40	16.8	4.5	3.78	PCI/G
							Thorium-230	1290	161	80.6	PCI/G
							Uranium-235	7.81	1.07	2.11	PCI/G
							Thorium-234	78.3	8.2	5.76	PCI/G
							Lead-210	37.3	7.8	6.79	PCI/G
							Lead-212	0.95	0.59	0.50	PCI/G
							Radium-223	36.7	2.3	1.57	PCI/G
							Bismuth-214	25.8	2.0	0.60	PCI/G
							Lead-211	31.1	5.7	9.22	PCI/G
ASH2-SL-002	18302-001	Soil	07/07/98	07/08/98	07/16/98	07/19/98	Lead-214	25.2	2.3	0.63	PCI/G
							Thorium-227	35.1	3.3	1.91	PCI/G
							Cesium-137	ND	---	0.39	PCI/G

Quanterra
31 July 1998

Category: Gamma Spec.

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Prep Date	Date Analyzed	Parameter	Result	Sigma Error (+/-)	MDA	Units
ASH2-SL-002	18302-001	Soil	07/07/98	07/08/98	07/16/98	07/19/98	Potassium-40	15.5	5.1	4.31	PCI/G
							Radium-226	120	63	7.72	PCI/G
							Thorium-230	2370	257	93.0	PCI/G
							Uranium-235	7.70	3.50	2.40	PCI/G
							Thorium-234	92.3	9.3	6.49	PCI/G
							Lead-210	57.1	10.1	7.73	PCI/G
							Lead-212	0.83	0.43	0.78	PCI/G
							Protactinium-231	97.1	11.4	52.3	PCI/G
							Radium-223	67.6	3.4	1.79	PCI/G
							Bismuth-214	35.6	2.5	0.75	PCI/G
							Lead-211	75.2	9.5	10.5	PCI/G
							Lead-214	40.0	2.6	0.70	PCI/G
							Thorium-227	60.8	4.1	2.35	PCI/G
							Cesium-137	ND	---	0.30	PCI/G
ASH2-SL-003	18302-002	Soil	07/07/98	07/08/98	07/16/98	07/20/98	Potassium-40	13.2	3.3	2.49	PCI/G
							Thorium-230	942	118	93.3	PCI/G
							Uranium-235	7.13	0.95	2.30	PCI/G
							Thorium-234	63.0	6.7	6.51	PCI/G
							Radium-223	24.8	1.6	1.57	PCI/G
							Thallium-208	0.32	0.28	0.27	PCI/G
							Bismuth-214	21.5	1.6	0.50	PCI/G
							Lead-211	30.2	5.3	6.82	PCI/G
							Lead-214	25.8	1.9	0.60	PCI/G

Quanterra
31 July 1998

Category: Gamma Spec.

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Prep Date	Date Analyzed	Parameter	Result	Sigma Error (+/-)	MDA	Units
ASH2-SL-003	18302-002	Soil	07/07/98	07/08/98	07/16/98	07/20/98	Thorium-227	31.8	2.5	1.91	PCI/G
ASH2-SL-004	18302-003	Soil	07/07/98	07/08/98	07/16/98	07/20/98	Cesium-137	ND	---	0.22	PCI/G
							Potassium-40	23.1	5.4	2.03	PCI/G
							Radium-226	40.5	31.2	4.39	PCI/G
							Thorium-230	994	117	46.9	PCI/G
							Uranium-235	2.99	1.79	1.41	PCI/G
							Thorium-234	48.1	4.9	3.64	PCI/G
							Lead-210	17.3	4.6	4.18	PCI/G
							Lead-212	0.95	0.35	0.36	PCI/G
							Protactinium-231	35.3	5.3	27.3	PCI/G
							Radium-223	26.7	1.4	1.04	PCI/G
							Thallium-208	0.52	0.21	0.23	PCI/G
							Bismuth-214	16.5	1.4	0.36	PCI/G
							Lead-211	26.3	4.3	5.58	PCI/G
							Lead-214	17.7	1.3	0.41	PCI/G
							Thorium-227	26.4	1.9	1.36	PCI/G
ASH2-SL-007	18302-004	Soil	07/07/98	07/08/98	07/16/98	07/20/98	Cesium-137	ND	---	0.34	PCI/G
							Potassium-40	16.0	4.3	3.62	PCI/G
							Thorium-230	1350	165	76.6	PCI/G
							Uranium-235	8.78	1.23	2.05	PCI/G
							Thorium-234	72.1	7.5	4.69	PCI/G
							Lead-210	37.1	7.7	6.18	PCI/G
							Lead-212	1.30	0.57	0.48	PCI/G

Quanterra
31 July 1998

Category: Gamma Spec.

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Prep Date	Date Analyzed	Parameter	Result	Sigma Error (+/-)	MDA	Units
ASH2-SL-007	18302-004	Soil	07/07/98	07/08/98	07/16/98	07/20/98	Protactinium-231	52.4	8.9	45.3	PCI/G
							Radium-223	35.0	2.2	1.63	PCI/G
							Thallium-208	0.71	0.32	0.31	PCI/G
							Bismuth-214	35.7	2.4	0.60	PCI/G
							Lead-211	26.2	5.8	8.14	PCI/G
							Lead-214	36.2	2.8	0.58	PCI/G
							Thorium-227	34.0	3.1	1.81	PCI/G
ASH2-SL-005	18302-005	Soil	07/07/98	07/08/98	07/16/98	07/20/98	Cesium-137	0.18	0.11	0.18	PCI/G
							Potassium-40	16.7	3.7	1.78	PCI/G
							Radium-226	11.8	3.8	3.59	PCI/G
							Thorium-230	73.2	26.4	37.4	PCI/G
							Thorium-234	8.93	2.05	2.58	PCI/G
							Lead-212	0.65	0.28	0.25	PCI/G
							Thallium-208	0.33	0.16	0.18	PCI/G
ASH2-SL-016	18306-001	Soil	07/08/98	07/09/98	07/16/98	07/20/98	Lead-214	2.71	0.38	0.32	PCI/G
							Cesium-137	ND	---	0.41	PCI/G
							Potassium-40	14.8	5.8	4.56	PCI/G
							Thorium-230	2730	292	95.1	PCI/G
							Uranium-235	17.2	1.9	2.62	PCI/G
							Thorium-234	122	11	7.17	PCI/G
							Lead-210	77.2	11.8	8.16	PCI/G
							Lead-212	0.75	0.46	0.71	PCI/G
							Protactinium-231	106	11	53.2	PCI/G

Quanterra
31 July 1998

Category: Gamma Spec.

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Prep Date	Date Analyzed	Parameter	Result	Sigma Error (+/-)	MDA	Units
ASH2-SL-016	18306-001	Soil	07/08/98	07/09/98	07/16/98	07/20/98	Radium-223	74.0	3.7	2.07	PCI/G
							Thallium-208	0.55	0.33	0.45	PCI/G
							Bismuth-214	61.4	4.0	0.76	PCI/G
							Lead-211	79.9	10.7	10.0	PCI/G
							Lead-214	58.1	3.4	0.85	PCI/G
							Thorium-227	68.4	4.3	2.60	PCI/G
ASH2-SL-016	18306-001DUP	Soil	07/08/98	07/09/98	07/16/98	07/20/98	Cesium-137	ND	---	0.37	PCI/G
							Potassium-40	12.3	4.0	4.37	PCI/G
							Radium-226	79.8	59.0	7.85	PCI/G
							Thorium-230	2200	251	95.6	PCI/G
							Uranium-235	10.3	3.0	2.47	PCI/G
							Thorium-234	103	10	5.83	PCI/G
							Lead-210	66.8	13.0	7.40	PCI/G
							Lead-212	1.28	0.52	0.60	PCI/G
							Protactinium-231	79.2	13.0	53.8	PCI/G
							Radium-223	57.6	3.3	1.78	PCI/G
							Bismuth-214	49.8	2.9	0.66	PCI/G
							Lead-211	65.0	8.3	9.12	PCI/G
							Lead-214	45.6	3.3	0.68	PCI/G
							Thorium-227	63.7	4.8	2.27	PCI/G
ASH2-SL-006	18306-002	Soil	07/08/98	07/09/98	07/16/98	07/20/98	Cesium-137	ND	---	0.20	PCI/G
							Potassium-40	33.1	4.7	1.61	PCI/G
NA	QCBLK178060-1	Soil	NA	NA	07/16/98	07/20/98	Cesium-137	ND	---	0.18	PCI/G

Quanterra
31 July 1998

Category: Gamma Spec.

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Prep Date	Date Analyzed	Parameter	Result	Sigma Error (+/-)	MDA	Units
NA	QCLCS178060-1	Soil	NA	NA	07/16/98	07/22/98	Americium-241	96	---	---	BREC
							Cesium-137	101	---	---	BREC
							Cobalt-60	98	---	---	BREC

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
	-----	-----	-----	-----	-----	-----	-----	-----	---
01	SL-001WC1BH	59	58	61	67	86	64	0	0
02	SL-002	58	57	59	65	86	58	0	0
03	SL-003	70	73	86	77	81	80	0	0
04	SL-004	122 *	122 *	131	142 *	178 *	135 *	0	5
05	SL-005	56	57	59	65	82	54	0	0
06	SL-006	60	61	70	69	92	73	0	0
07	SL-007	55	53	59	61	75	61	0	0
08	SL-008WC8B	58	56	62	66	87	58	0	0
09	SL-009WC1B	53	56	54	59	65	63	0	0
10	SL-010WC2B	60	64	62	62	68	71	0	0
11	SL-011WC3B	60	64	61	64	69	72	0	0
12	SL-012WC4B	51	51	47	55	62	53	0	0
13	SL-013WC5B	55	53	49	55	62	56	0	0
14	SL-014WC6B	60	62	57	64	71	69	0	0
15	SL-015WC7B	60	63	56	63	69	68	0	0
16	SL-016	58	56	60	64	85	60	0	0
17	SSPK01	84	90	83	37	93	107	0	0
18	SL-016MS	51	52	55	59	79	60	0	0
19	SL-016MSD	53	52	58	61	77	60	0	0
20	SBLK01	64	67	68	68	76	67	0	0

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (23-120)
 S2 (FBP) = 2-Fluorobiphenyl (30-115)
 S3 (TPH) = Terphenyl (18-137)
 S4 (PHL) = Phenol-d5 (24-113)
 S5 (2FP) = 2-Fluorophenol (25-121)
 S6 (TBP) = 2,4,6-Tribromophenol (19-122)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogates diluted out

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Lab File ID: H7921

Lab Sample ID: QCBLK177449

Instrument ID: MSA

Date Extracted: 07/10/98

Matrix: (soil/water) SOIL

Date Analyzed: 07/23/98

Level: (low/med) LOW

Time Analyzed: 1418

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	=====	=====	=====	=====
01	SL-001WC1BH	18290-004	H7955	07/27/98
02	SL-002	18302-001	H7956	07/27/98
03	SL-003	18302-002	H7973	07/27/98
04	SL-004	18302-003	H7958	07/27/98
05	SL-005	18302-005	H7960	07/27/98
06	SL-006	18306-002	H7966	07/27/98
07	SL-007	18302-004	H7959	07/27/98
08	SL-008WC8B	18290-003	H7954	07/27/98
09	SL-009WC1B	18285-001	H7923	07/23/98
10	SL-010WC2B	18285-002	H7924	07/23/98
11	SL-011WC3B	18285-003	H7925	07/23/98
12	SL-012WC4B	18285-004	H7926	07/23/98
13	SL-013WC5B	18285-005	H7927	07/23/98
14	SL-014WC6B	18290-001	H7928	07/23/98
15	SL-015WC7B	18290-002	H7929	07/23/98
16	SL-016	18306-001	H7963	07/27/98
17	SSP-01	QCSPK177449	H7922	07/23/98
18	SL-016MS	18306-001MS	H7964	07/27/98
19	SL-016MSD	18306-001MSD	H7965	07/27/98

COMMENTS: BLK177449
INST#MSH; JJB/KRB; 798

9C-LCS
SOIL SEMIVOLATILE LCS RECOVERY

Lab Name: ITAS-ST. LOUIS

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

EPA Sample No.: SSPK01

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC LIMITS REC.
Phenol	2500	1900	78	5-112
2-Chlorophenol	2500	2100	83	23-134
1,4-Dichlorobenzene	1700	1300	78	19-121
N-Nitroso-Di-n-Propylamine	1700	1100	64	1-203
1,2,4-Trichlorobenzene	1700	1400	85	43-142
4-Chloro-3-Methylphenol	2500	1800	73	22-147
Acenaphthene	1700	1400	85	50-142
4-Nitrophenol	2500	1800	70	1-132
2,4-Dinitrotoluene	1700	1300	76	33-132
Pentachlorophenol	2500	1700	70	14-176
Pyrene	1700	1200	75	52-116

- # Column to be used to flag recovery values with an asterisk.
 * Values outside of QC limits.
 D Detected.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK177449

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7921

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO. COMPOUND

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl) Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-Di-n-Propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy) Methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	1600	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethyl Phthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK177449

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7921

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.:

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	1600	U
100-02-7-----	4-Nitrophenol	1600	U
132-64-9-----	Dibenzofuran	330	U
121-14-2-----	2,4-Dinitrotoluene	330	U
84-66-2-----	Diethylphthalate	330	U
7005-72-3-----	4-Chlorophenyl-phenylether	330	U
86-73-7-----	Fluorene	330	U
100-01-6-----	4-Nitroaniline	1600	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	1600	U
86-30-6-----	N-Nitrosodiphenylamine (1)	330	U
101-55-3-----	4-Bromophenyl-phenylether	330	U
118-74-1-----	Hexachlorobenzene	330	U
87-86-5-----	Pentachlorophenol	1600	U
85-01-8-----	Phenanthrene	330	U
120-12-7-----	Anthracene	330	U
86-74-8-----	Carbazole	330	U
84-74-2-----	Di-n-Butylphthalate	330	U
206-44-0-----	Fluoranthene	330	U
129-00-0-----	Pyrene	330	U
85-68-7-----	Butylbenzylphthalate	330	U
91-94-1-----	3,3'-Dichlorobenzidine	1600	U
56-55-3-----	Benzo(a)Anthracene	330	U
218-01-9-----	Chrysene	330	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	230	J
117-84-0-----	Di-n-Octyl Phthalate	330	U
205-99-2-----	Benzo(b)Fluoranthene	330	U
207-08-9-----	Benzo(k)Fluoranthene	330	U
50-32-8-----	Benzo(a)Pyrene	330	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3-----	Dibenz(a,h)Anthracene	330	U
191-24-2-----	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK01

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK177449

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7921

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 57103	Hexadecanoic acid	19.49	290	JN
2.	UNKNOWN	24.50	170	J
3.	UNKNOWN	27.00	70	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SSPK01

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCSPK177449

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7922

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	1900	
111-44-4-----	bis(2-Chloroethyl) Ether	330	U
95-57-8-----	2-Chlorophenol	2100	
541-73-1-----	1,3-Dichlorobenzene	330	U
106-46-7-----	1,4-Dichlorobenzene	1300	
95-50-1-----	1,2-Dichlorobenzene	330	U
95-48-7-----	2-Methylphenol	330	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5-----	4-Methylphenol	330	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	1100	
67-72-1-----	Hexachloroethane	330	U
98-95-3-----	Nitrobenzene	330	U
78-59-1-----	Isophorone	330	U
88-75-5-----	2-Nitrophenol	330	U
105-67-9-----	2,4-Dimethylphenol	330	U
111-91-1-----	bis(2-Chloroethoxy) Methane	330	U
120-83-2-----	2,4-Dichlorophenol	330	U
120-82-1-----	1,2,4-Trichlorobenzene	1400	
91-20-3-----	Naphthalene	330	U
106-47-8-----	4-Chloroaniline	330	U
87-68-3-----	Hexachlorobutadiene	330	U
59-50-7-----	4-Chloro-3-Methylphenol	1800	
91-57-6-----	2-Methylnaphthalene	330	U
77-47-4-----	Hexachlorocyclopentadiene	1600	U
88-06-2-----	2,4,6-Trichlorophenol	330	U
95-95-4-----	2,4,5-Trichlorophenol	330	U
91-58-7-----	2-Chloronaphthalene	330	U
88-74-4-----	2-Nitroaniline	1600	U
131-11-3-----	Dimethyl Phthalate	330	U
208-96-8-----	Acenaphthylene	330	U
606-20-2-----	2,6-Dinitrotoluene	330	U
99-09-2-----	3-Nitroaniline	1600	U
83-32-9-----	Acenaphthene	1400	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SSPK01

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCSPK177449

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7922

Level: (low/med) LOW

Date Received:

% Moisture: decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

CAS NO:

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

51-28-5-----	2,4-Dinitrophenol	1600	U
100-02-7-----	4-Nitrophenol	1800	
132-64-9-----	Dibenzofuran	330	U
121-14-2-----	2,4-Dinitrotoluene	1300	
84-66-2-----	Diethylphthalate	330	U
7005-72-3-----	4-Chlorophenyl-phenylether	330	U
86-73-7-----	Fluorene	330	U
100-01-6-----	4-Nitroaniline	1600	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	1600	U
86-30-6-----	N-Nitrosodiphenylamine (1)	330	U
101-55-3-----	4-Bromophenyl-phenylether	330	U
118-74-1-----	Hexachlorobenzene	330	U
87-86-5-----	Pentachlorophenol	1700	
85-01-8-----	Phenanthrene	330	U
120-12-7-----	Anthracene	330	U
86-74-8-----	Carbazole	330	U
84-74-2-----	Di-n-Butylphthalate	330	U
206-44-0-----	Fluoranthene	330	U
129-00-0-----	Pyrene	1200	
85-68-7-----	Butylbenzylphthalate	210	J
91-94-1-----	3,3'-Dichlorobenzidine	1600	U
56-55-3-----	Benzo(a)Anthracene	330	U
218-01-9-----	Chrysene	330	U
117-81-7-----	bis(2-Ethylhexyl) Phthalate	370	B
117-84-0-----	Di-n-Octyl Phthalate	58	J
205-99-2-----	Benzo(b)Fluoranthene	330	U
207-08-9-----	Benzo(k)Fluoranthene	330	U
50-32-8-----	Benzo(a)Pyrene	330	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	330	U
53-70-3-----	Dibenz(a,h)Anthracene	330	U
191-24-2-----	Benzo(g,h,i)Perylene	330	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-009WC1B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-001

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7923

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: 32 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.

COMPOUND

108-95-2-----	Phenol	490	U
111-44-4-----	bis(2-Chloroethyl) Ether	490	U
95-57-8-----	2-Chlorophenol	490	U
541-73-1-----	1,3-Dichlorobenzene	490	U
106-46-7-----	1,4-Dichlorobenzene	490	U
95-50-1-----	1,2-Dichlorobenzene	490	U
95-48-7-----	2-Methylphenol	490	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	490	U
106-44-5-----	4-Methylphenol	490	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	490	U
67-72-1-----	Hexachloroethane	490	U
98-95-3-----	Nitrobenzene	490	U
78-59-1-----	Isophorone	490	U
88-75-5-----	2-Nitrophenol	490	U
105-67-9-----	2,4-Dimethylphenol	490	U
111-91-1-----	bis(2-Chloroethoxy) Methane	490	U
120-83-2-----	2,4-Dichlorophenol	490	U
120-82-1-----	1,2,4-Trichlorobenzene	490	U
91-20-3-----	Naphthalene	490	U
106-47-8-----	4-Chloroaniline	490	U
87-68-3-----	Hexachlorobutadiene	490	U
59-50-7-----	4-Chloro-3-Methylphenol	490	U
91-57-6-----	2-Methylnaphthalene	490	U
77-47-4-----	Hexachlorocyclopentadiene	2400	U
88-06-2-----	2,4,6-Trichlorophenol	490	U
95-95-4-----	2,4,5-Trichlorophenol	490	U
91-58-7-----	2-Chloronaphthalene	490	U
88-74-4-----	2-Nitroaniline	2400	U
131-11-3-----	Dimethyl Phthalate	490	U
208-96-8-----	Acenaphthylene	490	U
606-20-2-----	2,6-Dinitrotoluene	490	U
99-09-2-----	3-Nitroaniline	2400	U
83-32-9-----	Acenaphthene	490	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-009WC1B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-001

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7923

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: 32 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

CAS NO:

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

51-28-5-----	2,4-Dinitrophenol	2400	U
100-02-7-----	4-Nitrophenol	2400	U
132-64-9-----	Dibenzofuran	490	U
121-14-2-----	2,4-Dinitrotoluene	490	U
84-66-2-----	Diethylphthalate	490	U
7005-72-3-----	4-Chlorophenyl-phenylether	490	U
86-73-7-----	Fluorene	490	U
100-01-6-----	4-Nitroaniline	2400	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	2400	U
86-30-6-----	N-Nitrosodiphenylamine (1)	490	U
101-55-3-----	4-Bromophenyl-phenylether	490	U
118-74-1-----	Hexachlorobenzene	490	U
87-86-5-----	Pentachlorophenol	2400	U
85-01-8-----	Phenanthrene	490	U
120-12-7-----	Anthracene	490	U
86-74-8-----	Carbazole	490	U
84-74-2-----	Di-n-Butylphthalate	490	U
206-44-0-----	Fluoranthene	110	J
129-00-0-----	Pyrene	490	U
85-68-7-----	Butylbenzylphthalate	490	U
91-94-1-----	3,3'-Dichlorobenzidine	2400	U
56-55-3-----	Benzo(a) Anthracene	490	U
218-01-9-----	Chrysene	490	U
117-81-7-----	bis(2-Ethylhexyl) Phthalate	280	BJ
117-84-0-----	Di-n-Octyl Phthalate	490	U
205-99-2-----	Benzo(b) Fluoranthene	300	J
207-08-9-----	Benzo(k) Fluoranthene	490	U
50-32-8-----	Benzo(a) Pyrene	490	U
193-39-5-----	Indeno(1,2,3-cd) Pyrene	490	U
53-70-3-----	Dibenz(a,h) Anthracene	490	U
191-24-2-----	Benzo(g,h,i) Perylene	490	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SL-009WC1B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-001

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7923

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: 32 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 22

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	19.40	280	J
2.	UNKNOWN	19.53	1400	J
3.	UNKNOWN	21.08	640	J
4.	UNKNOWN	21.50	190	J
5.	UNKNOWN	22.79	160	J
6.	UNKNOWN	23.61	580	J
7.	UNKNOWN	24.51	540	J
8.	UNKNOWN	25.34	290	J
9.	UNKNOWN	26.14	470	J
10.	UNKNOWN	27.00	430	J
11.	UNKNOWN	27.18	220	J
12.	UNKNOWN	27.63	1300	J
13.	UNKNOWN	28.65	150	J
14.	UNKNOWN	29.03	540	J
15.	UNKNOWN	29.10	320	J
16.	UNKNOWN	29.18	180	J
17.	UNKNOWN	29.33	260	J
18.	UNKNOWN	29.56	180	J
19.	UNKNOWN	30.11	240	J
20.	UNKNOWN	30.83	460	J
21.	UNKNOWN	31.14	160	J
22.	UNKNOWN	31.28	240	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-010WC2B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-002

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7924

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	430	U
111-44-4-----	bis(2-Chloroethyl) Ether	430	U
95-57-8-----	2-Chlorophenol	430	U
541-73-1-----	1,3-Dichlorobenzene	430	U
106-46-7-----	1,4-Dichlorobenzene	430	U
95-50-1-----	1,2-Dichlorobenzene	430	U
95-48-7-----	2-Methylphenol	430	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	430	U
106-44-5-----	4-Methylphenol	430	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	430	U
67-72-1-----	Hexachloroethane	430	U
98-95-3-----	Nitrobenzene	430	U
78-59-1-----	Isophorone	430	U
88-75-5-----	2-Nitrophenol	430	U
105-67-9-----	2,4-Dimethylphenol	430	U
111-91-1-----	bis(2-Chloroethoxy) Methane	430	U
120-83-2-----	2,4-Dichlorophenol	430	U
120-82-1-----	1,2,4-Trichlorobenzene	430	U
91-20-3-----	Naphthalene	430	U
106-47-3-----	4-Chloroaniline	430	U
87-68-3-----	Hexachlorobutadiene	430	U
59-50-7-----	4-Chloro-3-Methylphenol	430	U
91-57-6-----	2-Methylnaphthalene	430	U
77-47-4-----	Hexachlorocyclopentadiene	2100	U
88-06-2-----	2,4,6-Trichlorophenol	430	U
95-95-4-----	2,4,5-Trichlorophenol	430	U
91-58-7-----	2-Chloronaphthalene	430	U
88-74-4-----	2-Nitroaniline	2100	U
131-11-3-----	Dimethyl Phthalate	430	U
208-96-8-----	Acenaphthylene	430	U
606-20-2-----	2,6-Dinitrotoluene	430	U
99-09-2-----	3-Nitroaniline	2100	U
83-32-9-----	Acenaphthene	430	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-010WC2B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-002

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7924

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	2100	U
100-02-7-----	4-Nitrophenol	2100	U
132-64-9-----	Dibenzofuran	430	U
121-14-2-----	2,4-Dinitrotoluene	430	U
84-66-2-----	Diethylphthalate	430	U
7005-72-3-----	4-Chlorophenyl-phenylether	430	U
86-73-7-----	Fluorene	430	U
100-01-6-----	4-Nitroaniline	2100	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	2100	U
86-30-6-----	N-Nitrosodiphenylamine (1)	430	U
101-55-3-----	4-Bromophenyl-phenylether	430	U
118-74-1-----	Hexachlorobenzene	430	U
87-86-5-----	Pentachlorophenol	2100	U
85-01-8-----	Phenanthrene	430	U
120-12-7-----	Anthracene	430	U
86-74-8-----	Carbazole	430	U
84-74-2-----	Di-n-Butylphthalate	430	U
206-44-0-----	Fluoranthene	430	U
129-00-0-----	Pyrene	430	U
85-68-7-----	Butylbenzylphthalate	430	U
91-94-1-----	3,3'-Dichlorobenzidine	2100	U
56-55-3-----	Benzo (a) Anthracene	430	U
218-01-9-----	Chrysene	430	U
117-81-7-----	bis(2-Ethylhexyl) Phthalate	260	BJ
117-84-0-----	Di-n-Octyl Phthalate	430	U
205-99-2-----	Benzo (b) Fluoranthene	430	U
207-08-9-----	Benzo (k) Fluoranthene	430	U
50-32-8-----	Benzo (a) Pyrene	430	U
193-39-5-----	Indeno (1,2,3-cd) Pyrene	430	U
53-70-3-----	Dibenz (a,h) Anthracene	430	U
191-24-2-----	Benzo (g,h,i) Perylene	430	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SL-010WC2B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-002

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7924

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: 24 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 22

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	16.61	120	J
2. 57103	Hexadecanoic acid	19.52	920	BJN
3.	UNKNOWN	19.91	130	J
4.	UNKNOWN	20.91	110	J
5.	UNKNOWN	21.08	170	J
6.	UNKNOWN	21.50	140	J
7.	UNKNOWN	22.79	140	J
8.	UNKNOWN	23.59	220	J
9.	UNKNOWN	23.67	730	J
10.	UNKNOWN	23.79	500	J
11.	UNKNOWN	24.51	560	J
12.	UNKNOWN	25.35	130	J
13.	UNKNOWN	26.13	360	J
14.	UNKNOWN	27.00	150	J
15.	UNKNOWN	27.18	130	J
16.	UNKNOWN	27.68	120	J
17.	UNKNOWN	29.03	220	J
18.	UNKNOWN	29.12	170	J
19.	UNKNOWN	29.56	120	J
20.	UNKNOWN	30.12	140	J
21.	UNKNOWN	30.33	140	J
22.	UNKNOWN	30.84	180	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-011WC3B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-003

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7925

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO:

COMPOUND

108-95-2-----	Phenol	450	U
111-44-4-----	bis(2-Chloroethyl) Ether	450	U
95-57-8-----	2-Chlorophenol	450	U
541-73-1-----	1,3-Dichlorobenzene	450	U
106-46-7-----	1,4-Dichlorobenzene	450	U
95-50-1-----	1,2-Dichlorobenzene	450	U
95-48-7-----	2-Methylphenol	450	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5-----	4-Methylphenol	450	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	450	U
67-72-1-----	Hexachloroethane	450	U
98-95-3-----	Nitrobenzene	450	U
78-59-1-----	Isophorone	450	U
88-75-5-----	2-Nitrophenol	450	U
105-67-9-----	2,4-Dimethylphenol	450	U
111-91-1-----	bis(2-Chloroethoxy) Methane	450	U
120-83-2-----	2,4-Dichlorophenol	450	U
120-82-1-----	1,2,4-Trichlorobenzene	450	U
91-20-3-----	Naphthalene	450	U
106-47-8-----	4-Chloroaniline	450	U
87-68-3-----	Hexachlorobutadiene	450	U
59-50-7-----	4-Chloro-3-Methylphenol	450	U
91-57-6-----	2-Methylnaphthalene	450	U
77-47-4-----	Hexachlorocyclopentadiene	2200	U
88-06-2-----	2,4,6-Trichlorophenol	450	U
95-95-4-----	2,4,5-Trichlorophenol	450	U
91-58-7-----	2-Chloronaphthalene	450	U
88-74-4-----	2-Nitroaniline	2200	U
131-11-3-----	Dimethyl Phthalate	450	U
208-96-8-----	Acenaphthylene	450	U
606-20-2-----	2,6-Dinitrotoluene	450	U
99-09-2-----	3-Nitroaniline	2200	U
83-32-9-----	Acenaphthene	450	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-011WC3B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-003

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7925

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.:

COMPOUND

51-28-5-----	2,4-Dinitrophenol	2200	U
100-02-7-----	4-Nitrophenol	2200	U
132-64-9-----	Dibenzofuran	450	U
121-14-2-----	2,4-Dinitrotoluene	450	U
84-66-2-----	Diethylphthalate	450	U
7005-72-3-----	4-Chlorophenyl-phenylether	450	U
86-73-7-----	Fluorene	450	U
100-01-6-----	4-Nitroaniline	2200	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	2200	U
86-30-6-----	N-Nitrosodiphenylamine (1)	450	U
101-55-3-----	4-Bromophenyl-phenylether	450	U
118-74-1-----	Hexachlorobenzene	450	U
87-86-5-----	Pentachlorophenol	2200	U
85-01-8-----	Phenanthrene	450	U
120-12-7-----	Anthracene	450	U
86-74-8-----	Carbazole	450	U
84-74-2-----	Di-n-Butylphthalate	450	U
206-44-0-----	Fluoranthene	450	U
129-00-0-----	Pyrene	450	U
85-68-7-----	Butylbenzylphthalate	450	U
91-94-1-----	3,3'-Dichlorobenzidine	2200	U
56-55-3-----	Benzo(a)Anthracene	450	U
218-01-9-----	Chrysene	450	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	310	BJ
117-84-0-----	Di-n-Octyl Phthalate	450	U
205-99-2-----	Benzo(b)Fluoranthene	450	U
207-08-9-----	Benzo(k)Fluoranthene	450	U
50-32-8-----	Benzo(a)Pyrene	450	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	450	U
53-70-3-----	Dibenz(a,h)Anthracene	450	U
191-24-2-----	Benzo(g,h,i)Perylene	450	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SL-011WC3B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-003

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7925

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 22

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	16.61	160	J
2.	UNKNOWN	19.39	240	J
3.	UNKNOWN	19.53	1500	J
4.	UNKNOWN	21.07	170	J
5.	UNKNOWN	21.51	270	J
6.	UNKNOWN	23.58	370	J
7.	UNKNOWN	23.67	330	J
8.	UNKNOWN	24.50	590	J
9.	UNKNOWN	25.34	260	J
10.	UNKNOWN	26.13	530	J
11.	UNKNOWN	27.00	300	J
12.	UNKNOWN	27.18	230	J
13.	UNKNOWN	27.68	250	J
14.	UNKNOWN	28.34	200	J
15.	UNKNOWN	28.96	160	J
16.	UNKNOWN	29.03	430	J
17.	UNKNOWN	29.11	450	J
18.	UNKNOWN	29.32	180	J
19.	UNKNOWN	30.14	240	J
20.	UNKNOWN	30.34	240	J
21.	UNKNOWN	30.84	640	J
22.	UNKNOWN	31.28	250	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-012WC4B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-004

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7926

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: 34 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.:

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

108-95-2-----Phenol	500	U
111-44-4-----bis(2-Chloroethyl) Ether	500	U
95-57-8-----2-Chlorophenol	500	U
541-73-1-----1,3-Dichlorobenzene	500	U
106-46-7-----1,4-Dichlorobenzene	500	U
95-50-1-----1,2-Dichlorobenzene	500	U
95-48-7-----2-Methylphenol	500	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	500	U
106-44-5-----4-Methylphenol	500	U
621-64-7-----N-Nitroso-Di-n-Propylamine	500	U
67-72-1-----Hexachloroethane	500	U
98-95-3-----Nitrobenzene	500	U
78-59-1-----Isophorone	500	U
88-75-5-----2-Nitrophenol	500	U
105-67-9-----2,4-Dimethylphenol	500	U
111-91-1-----bis(2-Chloroethoxy) Methane	500	U
120-83-2-----2,4-Dichlorophenol	500	U
120-82-1-----1,2,4-Trichlorobenzene	500	U
91-20-3-----Naphthalene	500	U
106-47-8-----4-Chloroaniline	500	U
87-68-3-----Hexachlorobutadiene	500	U
59-50-7-----4-Chloro-3-Methylphenol	500	U
91-57-6-----2-Methylnaphthalene	500	U
77-47-4-----Hexachlorocyclopentadiene	2400	U
88-06-2-----2,4,6-Trichlorophenol	500	U
9-95-4-----2,4,5-Trichlorophenol	500	U
91-58-7-----2-Chloronaphthalene	500	U
88-74-4-----2-Nitroaniline	2400	U
131-11-3-----Dimethyl Phthalate	500	U
208-96-8-----Acenaphthylene	500	U
606-20-2-----2,6-Dinitrotoluene	500	U
99-09-2-----3-Nitroaniline	2400	U
83-32-9-----Acenaphthene	500	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-012WC4B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-004

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7926

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: 34 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

51-28-5-----	2,4-Dinitrophenol	2400	U
100-02-7-----	4-Nitrophenol	2400	U
132-64-9-----	Dibenzofuran	500	U
121-14-2-----	2,4-Dinitrotoluene	500	U
84-66-2-----	Diethylphthalate	500	U
7005-72-3-----	4-Chlorophenyl-phenylether	500	U
86-73-7-----	Fluorene	500	U
100-01-6-----	4-Nitroaniline	2400	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	2400	U
86-30-6-----	N-Nitrosodiphenylamine (1)	500	U
101-55-3-----	4-Bromophenyl-phenylether	500	U
118-74-1-----	Hexachlorobenzene	500	U
87-86-5-----	Pentachlorophenol	2400	U
85-01-8-----	Phenanthrene	89	J
120-12-7-----	Anthracene	500	U
86-74-8-----	Carbazole	500	U
84-74-2-----	Di-n-Butylphthalate	500	U
206-44-0-----	Fluoranthene	500	U
129-00-0-----	Pyrene	370	J
85-68-7-----	Butylbenzylphthalate	500	U
91-94-1-----	3,3'-Dichlorobenzidine	2400	U
56-55-3-----	Benzo(a)Anthracene	500	U
218-01-9-----	Chrysene	500	U
117-81-7-----	bis(2-Ethylhexyl) Phthalate	330	BJ
117-84-0-----	Di-n-Octyl Phthalate	500	U
205-99-2-----	Benzo(b) Fluoranthene	410	J
207-08-9-----	Benzo(k) Fluoranthene	500	U
50-32-8-----	Benzo(a) Pyrene	290	J
193-39-5-----	Indeno(1,2,3-cd) Pyrene	500	U
53-70-3-----	Dibenz(a,h) Anthracene	500	U
191-24-2-----	Benzo(g,h,i) Perylene	350	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SL-012WC4B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-004

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7926

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: 34 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

Number TICs found: 22

(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1. 57103	Hexadecanoic acid	19.53	1400	BJN
2.	UNKNOWN	19.92	620	J
3.	UNKNOWN	20.92	820	J
4.	UNKNOWN	21.09	380	J
5.	UNKNOWN	21.52	350	J
6.	UNKNOWN	22.80	750	J
7.	UNKNOWN	23.69	1600	J
8.	UNKNOWN	23.95	320	J
9.	UNKNOWN	25.36	640	J
10.	UNKNOWN	26.14	1000	J
11.	UNKNOWN	27.65	1100	J
12.	UNKNOWN	28.36	700	J
13.	UNKNOWN	28.54	450	J
14.	UNKNOWN	28.65	500	J
15.	UNKNOWN	28.84	650	J
16.	UNKNOWN	29.04	850	J
17.	UNKNOWN	29.12	580	J
18.	UNKNOWN	29.39	680	J
19.	UNKNOWN	29.59	730	J
20.	UNKNOWN	29.73	600	J
21.	UNKNOWN	30.34	540	J
22.	UNKNOWN	30.88	450	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-013WC5B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-005

Sample wt/vol: 30.10 (g/mL) G

Lab File ID: H7927

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

CAS NO.:

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

108-95-2-----Phenol	400	U
111-44-4-----bis(2-Chloroethyl) Ether	400	U
95-57-8-----2-Chlorophenol	400	U
541-73-1-----1,3-Dichlorobenzene	400	U
106-46-7-----1,4-Dichlorobenzene	400	U
95-50-1-----1,2-Dichlorobenzene	400	U
95-48-7-----2-Methylphenol	400	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	400	U
106-44-5-----4-Methylphenol	400	U
621-64-7-----N-Nitroso-Di-n-Propylamine	400	U
67-72-1-----Hexachloroethane	400	U
98-95-3-----Nitrobenzene	400	U
78-59-1-----Isophorone	400	U
88-75-5-----2-Nitrophenol	400	U
105-67-9-----2,4-Dimethylphenol	400	U
111-91-1-----bis(2-Chloroethoxy) Methane	400	U
120-83-2-----2,4-Dichlorophenol	400	U
120-82-1-----1,2,4-Trichlorobenzene	400	U
91-20-3-----Naphthalene	400	U
106-47-8-----4-Chloroaniline	400	U
87-68-3-----Hexachlorobutadiene	400	U
59-50-7-----4-Chloro-3-Methylphenol	400	U
91-57-6-----2-Methylnaphthalene	400	U
77-47-4-----Hexachlorocyclopentadiene	1900	U
88-06-2-----2,4,6-Trichlorophenol	400	U
95-95-4-----2,4,5-Trichlorophenol	400	U
91-58-7-----2-Chloronaphthalene	400	U
88-74-4-----2-Nitroaniline	1900	U
131-11-3-----Dimethyl Phthalate	400	U
208-96-8-----Acenaphthylene	400	U
606-20-2-----2,6-Dinitrotoluene	400	U
99-09-2-----3-Nitroaniline	1900	U
83-32-9-----Acenaphthene	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-013WC5B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-005

Sample wt/vol: 30.10 (g/mL) G

Lab File ID: H7927

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	1900	U
100-02-7-----	4-Nitrophenol	1900	U
132-64-9-----	Dibenzofuran	400	U
121-14-2-----	2,4-Dinitrotoluene	400	U
84-66-2-----	Diethylphthalate	400	U
7005-72-3-----	4-Chlorophenyl-phenylether	400	U
86-73-7-----	Fluorene	400	U
100-01-6-----	4-Nitroaniline	1900	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	1900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	400	U
101-55-3-----	4-Bromophenyl-phenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	1900	U
85-01-8-----	Phenanthrene	400	U
120-12-7-----	Anthracene	400	U
86-74-8-----	Carbazole	400	U
84-74-2-----	Di-n-Butylphthalate	400	U
206-44-0-----	Fluoranthene	400	U
129-00-0-----	Pyrene	230	J
85-68-7-----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	1900	U
56-55-3-----	Benzo(a) Anthracene	400	U
218-01-9-----	Chrysene	150	J
117-81-7-----	bis(2-Ethylhexyl) Phthalate	2100	B
117-84-0-----	Di-n-Octyl Phthalate	150	J
205-99-2-----	Benzo(b) Fluoranthene	400	U
207-08-9-----	Benzo(k) Fluoranthene	400	U
50-32-8-----	Benzo(a) Pyrene	400	U
193-39-5-----	Indeno(1,2,3-cd) Pyrene	400	U
53-70-3-----	Dibenz(a,h) Anthracene	400	U
191-24-2-----	Benzo(g,h,i) Perylene	400	U

(1) - Cannot be separated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-014WC6B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-001

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7928

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: 31 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.

COMPOUND

51-28-5-----	2,4-Dinitrophenol	2300	U
100-02-7-----	4-Nitrophenol	2300	U
132-64-9-----	Dibenzofuran	480	U
121-14-2-----	2,4-Dinitrotoluene	480	U
84-66-2-----	Diethylphthalate	480	U
7005-72-3-----	4-Chlorophenyl-phenylether	480	U
86-73-7-----	Fluorene	480	U
100-01-6-----	4-Nitroaniline	2300	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	2300	U
86-30-6-----	N-Nitrosodiphenylamine (1)	480	U
101-55-3-----	4-Bromophenyl-phenylether	480	U
118-74-1-----	Hexachlorobenzene	480	U
87-86-5-----	Pentachlorophenol	2300	U
85-01-8-----	Phenanthrene	480	U
120-12-7-----	Anthracene	480	U
86-74-8-----	Carbazole	480	U
84-74-2-----	Di-n-Butylphthalate	480	U
206-44-0-----	Fluoranthene	84	J
129-00-0-----	Pyrene	480	U
85-68-7-----	Butylbenzylphthalate	480	U
91-94-1-----	3,3'-Dichlorobenzidine	2300	U
56-55-3-----	Benzo(a)Anthracene	480	U
218-01-9-----	Chrysene	480	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	480	U
117-84-0-----	Di-n-Octyl Phthalate	480	U
205-99-2-----	Benzo(b)Fluoranthene	480	U
207-08-9-----	Benzo(k)Fluoranthene	480	U
50-32-8-----	Benzo(a)Pyrene	480	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	480	U
53-70-3-----	Dibenz(a,h)Anthracene	480	U
191-24-2-----	Benzo(g,h,i)Perylene	480	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-014WC6B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-001

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7928

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: 31 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

108-95-2-----Phenol	480	U
111-44-4-----bis(2-Chloroethyl) Ether	480	U
95-57-8-----2-Chlorophenol	480	U
541-73-1-----1,3-Dichlorobenzene	480	U
106-46-7-----1,4-Dichlorobenzene	480	U
95-50-1-----1,2-Dichlorobenzene	480	U
95-48-7-----2-Methylphenol	480	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	480	U
106-44-5-----4-Methylphenol	480	U
621-64-7-----N-Nitroso-Di-n-Propylamine	480	U
67-72-1-----Hexachloroethane	480	U
98-95-3-----Nitrobenzene	480	U
78-59-1-----Isophorone	480	U
88-75-5-----2-Nitrophenol	480	U
105-67-9-----2,4-Dimethylphenol	480	U
111-91-1-----bis(2-Chloroethoxy)Methane	480	U
120-83-2-----2,4-Dichlorophenol	480	U
120-82-1-----1,2,4-Trichlorobenzene	480	U
91-20-3-----Naphthalene	480	U
106-47-8-----4-Chloroaniline	480	U
87-68-3-----Hexachlorobutadiene	480	U
59-50-7-----4-Chloro-3-Methylphenol	480	U
91-57-6-----2-Methylnaphthalene	480	U
77-47-4-----Hexachlorocyclopentadiene	2300	U
88-06-2-----2,4,6-Trichlorophenol	480	U
95-95-4-----2,4,5-Trichlorophenol	480	U
91-58-7-----2-Chloronaphthalene	480	U
88-74-4-----2-Nitroaniline	2300	U
131-11-3-----Dimethyl Phthalate	480	U
208-96-8-----Acenaphthylene	480	U
606-20-2-----2,6-Dinitrotoluene	480	U
99-09-2-----3-Nitroaniline	2300	U
83-32-9-----Acenaphthene	480	U

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SL-013WC5B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-005

Sample wt/vol: 30.10 (g/mL) G

Lab File ID: H7927

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 2.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 22

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	UNKNOWN	9.75	190	J
2.	UNKNOWN	10.86	190	J
3.	UNKNOWN	12.74	210	J
4.	UNKNOWN	16.60	220	J
5.	UNKNOWN	19.51	570	J
6.	UNKNOWN	20.92	190	J
7.	UNKNOWN	22.31	220	J
8.	UNKNOWN	22.61	410	J
9.	UNKNOWN	22.80	410	J
10.	UNKNOWN	22.86	390	J
11.	UNKNOWN	23.15	360	J
12.	UNKNOWN	23.57	340	J
13.	UNKNOWN	23.68	270	J
14.	UNKNOWN	24.53	230	J
15.	UNKNOWN	26.16	310	J
16.	UNKNOWN	28.34	310	J
17.	UNKNOWN	28.84	190	J
18.	UNKNOWN	29.12	200	J
19.	UNKNOWN	29.19	220	J
20.	UNKNOWN	29.36	190	J
21.	UNKNOWN	29.59	230	J
22.	UNKNOWN	29.94	270	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS.

EPA SAMPLE NO.

SL-014WC6B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-001

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7928

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: 31 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 22

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	16.02	580	J
2.	UNKNOWN	18.44	210	J
3.	UNKNOWN	18.99	270	J
4.	UNKNOWN	19.42	530	J
5.	UNKNOWN	19.55	1700	J
6.	UNKNOWN	19.79	890	J
7.	UNKNOWN	21.52	250	J
8.	UNKNOWN	22.74	360	J
9.	UNKNOWN	23.46	490	J
10.	UNKNOWN	23.70	5200	J
11.	UNKNOWN	24.52	590	J
12.	UNKNOWN	25.99	460	J
13.	UNKNOWN	26.14	390	J
14.	UNKNOWN	27.00	200	J
15.	UNKNOWN	27.64	540	J
16.	UNKNOWN	29.04	470	J
17.	UNKNOWN	29.12	260	J
18.	UNKNOWN	29.35	190	J
19.	UNKNOWN	30.15	350	J
20.	UNKNOWN	30.85	430	J
21.	UNKNOWN	31.01	420	J
22.	UNKNOWN	31.31	430	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-015WC7B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-002

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7929

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: 38 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND		
108-95-2	Phenol	530	U
111-44-4	bis(2-Chloroethyl) Ether	530	U
95-57-8	2-Chlorophenol	530	U
541-73-1	1,3-Dichlorobenzene	530	U
106-46-7	1,4-Dichlorobenzene	530	U
95-50-1	1,2-Dichlorobenzene	530	U
95-48-7	2-Methylphenol	530	U
108-60-1	2,2'-oxybis(1-Chloropropane)	530	U
106-44-5	4-Methylphenol	530	U
621-64-7	N-Nitroso-Di-n-Propylamine	530	U
67-72-1	Hexachloroethane	530	U
98-95-3	Nitrobenzene	530	U
78-59-1	Isophorone	530	U
88-75-5	2-Nitrophenol	530	U
105-67-9	2,4-Dimethylphenol	530	U
111-91-1	bis(2-Chloroethoxy) Methane	530	U
120-83-2	2,4-Dichlorophenol	530	U
120-82-1	1,2,4-Trichlorobenzene	530	U
91-20-3	Naphthalene	530	U
106-47-8	4-Chloroaniline	530	U
87-68-3	Hexachlorobutadiene	530	U
59-50-7	4-Chloro-3-Methylphenol	530	U
91-57-6	2-Methylnaphthalene	530	U
77-47-4	Hexachlorocyclopentadiene	2600	U
88-06-2	2,4,6-Trichlorophenol	530	U
95-95-4	2,4,5-Trichlorophenol	530	U
91-58-7	2-Chloronaphthalene	530	U
88-74-4	2-Nitroaniline	2600	U
131-11-3	Dimethyl Phthalate	530	U
208-96-8	Acenaphthylene	530	U
606-20-2	2,6-Dinitrotoluene	530	U
99-09-2	3-Nitroaniline	2600	U
83-32-9	Acenaphthene	530	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-015WC7B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-002

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7929

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: 38 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	2600	U
100-02-7-----	4-Nitrophenol	2600	U
132-64-9-----	Dibenzofuran	530	U
121-14-2-----	2,4-Dinitrotoluene	530	U
84-66-2-----	Diethylphthalate	530	U
7005-72-3-----	4-Chlorophenyl-phenylether	530	U
86-73-7-----	Fluorene	530	U
100-01-6-----	4-Nitroaniline	2600	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	2600	U
86-30-6-----	N-Nitrosodiphenylamine (1)	530	U
101-55-3-----	4-Bromophenyl-phenylether	530	U
118-74-1-----	Hexachlorobenzene	530	U
87-86-5-----	Pentachlorophenol	2600	U
85-01-8-----	Phenanthrene	530	U
120-12-7-----	Anthracene	530	U
86-74-8-----	Carbazole	530	U
84-74-2-----	Di-n-Butylphthalate	530	U
206-44-0-----	Fluoranthene	530	U
129-00-0-----	Pyrene	530	U
85-68-7-----	Butylbenzylphthalate	530	U
91-94-1-----	3,3'-Dichlorobenzidine	2600	U
56-55-3-----	Benzo(a)Anthracene	530	U
218-01-9-----	Chrysene	530	U
117-81-7-----	bis(2-Ethylhexyl) Phthalate	530	U
117-84-0-----	Di-n-Octyl Phthalate	530	U
205-99-2-----	Benzo(b)Fluoranthene	530	U
207-08-9-----	Benzo(k)Fluoranthene	530	U
50-32-8-----	Benzo(a)Pyrene	530	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	530	U
53-70-3-----	Dibenz(a,h)Anthracene	530	U
191-24-2-----	Benzo(g,h,i)Perylene	530	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SL-015WC7B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-002

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7929

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: 38 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/23/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 22

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 57103	Hexadecanoic acid	19.54	2000	BJN
2.	UNKNOWN	19.92	470	J
3.	UNKNOWN	20.10	240	J
4.	UNKNOWN	20.54	290	J
5.	UNKNOWN	20.65	460	J
6.	UNKNOWN	20.80	890	J
7.	UNKNOWN	20.92	240	J
8.	UNKNOWN	22.80	450	J
9.	UNKNOWN	23.57	260	J
10.	UNKNOWN	23.69	310	J
11.	UNKNOWN	24.53	1200	J
12.	UNKNOWN	25.34	290	J
13.	UNKNOWN	25.95	300	J
14.	UNKNOWN	26.14	660	J
15.	UNKNOWN	27.44	210	J
16.	UNKNOWN	27.64	460	J
17.	UNKNOWN	28.79	220	J
18.	UNKNOWN	28.86	250	J
19.	UNKNOWN	29.04	290	J
20.	UNKNOWN	29.12	210	J
21.	UNKNOWN	29.35	200	J
22.	UNKNOWN	30.84	200	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-008WC8B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-003

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7954

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: 41 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	560	U
111-44-4-----	bis(2-Chloroethyl) Ether	560	U
95-57-8-----	2-Chlorophenol	560	U
541-73-1-----	1,3-Dichlorobenzene	560	U
106-46-7-----	1,4-Dichlorobenzene	560	U
95-50-1-----	1,2-Dichlorobenzene	560	U
95-48-7-----	2-Methylphenol	560	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	560	U
106-44-5-----	4-Methylphenol	560	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	560	U
67-72-1-----	Hexachloroethane	560	U
98-95-3-----	Nitrobenzene	560	U
78-59-1-----	Isophorone	560	U
88-75-5-----	2-Nitrophenol	560	U
105-67-9-----	2,4-Dimethylphenol	560	U
111-91-1-----	bis(2-Chloroethoxy) Methane	560	U
120-83-2-----	2,4-Dichlorophenol	560	U
120-82-1-----	1,2,4-Trichlorobenzene	560	U
91-20-3-----	Naphthalene	560	U
106-47-8-----	4-Chloroaniline	560	U
87-68-3-----	Hexachlorobutadiene	560	U
59-50-7-----	4-Chloro-3-Methylphenol	560	U
91-57-6-----	2-Methylnaphthalene	560	U
77-47-4-----	Hexachlorocyclopentadiene	2700	U
88-06-2-----	2,4,6-Trichlorophenol	560	U
95-95-4-----	2,4,5-Trichlorophenol	560	U
91-58-7-----	2-Chloronaphthalene	560	U
88-74-4-----	2-Nitroaniline	2700	U
131-11-3-----	Dimethyl Phthalate	560	U
208-96-8-----	Acenaphthylene	560	U
606-20-2-----	2,6-Dinitrotoluene	560	U
99-09-2-----	3-Nitroaniline	2700	U
83-32-9-----	Acenaphthene	560	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-008WC8B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-003

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7954

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: 41 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	2700	U
100-02-7-----	4-Nitrophenol	2700	U
132-64-9-----	Dibenzofuran	560	U
121-14-2-----	2,4-Dinitrotoluene	560	U
84-66-2-----	Diethylphthalate	560	U
7005-72-3-----	4-Chlorophenyl-phenylether	560	U
86-73-7-----	Fluorene	560	U
100-01-6-----	4-Nitroaniline	2700	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	2700	U
86-30-6-----	N-Nitrosodiphenylamine (1)	560	U
101-55-3-----	4-Bromophenyl-phenylether	560	U
118-74-1-----	Hexachlorobenzene	560	U
87-86-5-----	Pentachlorophenol	2700	U
85-01-8-----	Phenanthrene	560	U
120-12-7-----	Anthracene	560	U
86-74-8-----	Carbazole	560	U
84-74-2-----	Di-n-Butylphthalate	560	U
206-44-0-----	Fluoranthene	260	J
129-00-0-----	Pyrene	220	J
85-68-7-----	Butylbenzylphthalate	560	U
91-94-1-----	3,3'-Dichlorobenzidine	2700	U
56-55-3-----	Benzo (a) Anthracene	560	U
218-01-9-----	Chrysene	560	U
117-81-7-----	bis(2-Ethylhexyl) Phthalate	210	BJ
117-84-0-----	Di-n-Octyl Phthalate	560	U
205-99-2-----	Benzo (b) Fluoranthene	560	U
207-08-9-----	Benzo (k) Fluoranthene	560	U
50-32-8-----	Benzo (a) Pyrene	560	U
193-39-5-----	Indeno (1,2,3-cd) Pyrene	560	U
53-70-3-----	Dibenz (a,h) Anthracene	560	U
191-24-2-----	Benzo (g,h,i) Perylene	560	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SL-008WC8B

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-003

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7954

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: 41 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 14

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	UNKNOWN ALDOL CONDENSATION	4.49	55000	J
2.	UNKNOWN	20.21	350	J
3.	UNKNOWN	23.50	150	J
4.	UNKNOWN	24.40	110	J
5.	UNKNOWN	25.19	150	J
6.	UNKNOWN	26.84	260	J
7.	UNKNOWN	27.89	270	J
8.	UNKNOWN	28.33	380	J
9.	UNKNOWN	29.76	200	J
10.	UNKNOWN	29.85	190	J
11.	UNKNOWN	29.96	220	J
12.	UNKNOWN	32.16	420	J
13.	UNKNOWN	32.27	230	J
14.	UNKNOWN	32.46	140	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-001WC1BH

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-004

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7955

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl) Ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
111-91-1-----	bis(2-Chloroethoxy) Methane	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	400	U
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
59-50-7-----	4-Chloro-3-Methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	400	U
77-47-4-----	Hexachlorocyclopentadiene	1900	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	400	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	1900	U
131-11-3-----	Dimethyl Phthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U
99-09-2-----	3-Nitroaniline	1900	U
83-32-9-----	Acenaphthene	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-001WC1BH

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-004

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7955

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

CAS NO.

COMPOUND

51-28-5-----	2,4-Dinitrophenol	1900	U
100-02-7-----	4-Nitrophenol	1900	U
132-64-9-----	Dibenzofuran	400	U
121-14-2-----	2,4-Dinitrotoluene	400	U
84-66-2-----	Diethylphthalate	400	U
7005-72-3-----	4-Chlorophenyl-phenylether	400	U
86-73-7-----	Fluorene	400	U
100-01-6-----	4-Nitroaniline	1900	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	1900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	400	U
101-55-3-----	4-Bromophenyl-phenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	1900	U
85-01-8-----	Phenanthrene	400	U
120-12-7-----	Anthracene	400	U
86-74-8-----	Carbazole	400	U
84-74-2-----	Di-n-Butylphthalate	400	U
206-44-0-----	Fluoranthene	400	U
129-00-0-----	Pyrene	400	U
85-68-7-----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	1900	U
56-55-3-----	Benzo(a)Anthracene	400	U
218-01-9-----	Chrysene	400	U
117-81-7-----	bis(2-Ethylhexyl)Phthalate	170	BJ
117-84-0-----	Di-n-Octyl Phthalate	400	U
205-99-2-----	Benzo(b)Fluoranthene	400	U
207-08-9-----	Benzo(k)Fluoranthene	400	U
50-32-8-----	Benzo(a)Pyrene	400	U
193-39-5-----	Indeno(1,2,3-cd)Pyrene	400	U
53-70-3-----	Dibenz(a,h)Anthracene	400	U
191-24-2-----	Benzo(g,h,i)Perylene	400	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SL-001WC1BH

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-004

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7955

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 22

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	UNKNOWN	4.54	41000	J
2.	UNKNOWN	5.55	110	J
3.	UNKNOWN	15.07	230	J
4.	UNKNOWN	17.02	130	J
5.	UNKNOWN	18.63	110	J
6.	UNKNOWN	20.13	100	J
7.	UNKNOWN	20.24	450	J
8.	UNKNOWN	20.63	110	J
9.	UNKNOWN	21.45	580	J
10.	UNKNOWN	21.84	110	J
11.	UNKNOWN	23.51	110	J
12.	UNKNOWN	24.40	120	J
13.	UNKNOWN	25.20	460	J
14.	UNKNOWN	26.05	150	J
15.	UNKNOWN	26.85	420	J
16.	UNKNOWN	27.90	160	J
17.	UNKNOWN	28.34	230	J
18.	UNKNOWN	29.76	130	J
19.	UNKNOWN	29.97	130	J
20.	UNKNOWN	30.68	83	J
21.	UNKNOWN	32.15	200	J
22.	UNKNOWN	32.47	83	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-002

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-001

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7956

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: 26 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

108-95-2-----	Phenol	450	U
111-44-4-----	bis(2-Chloroethyl) Ether	450	U
95-57-8-----	2-Chlorophenol	450	U
541-73-1-----	1,3-Dichlorobenzene	450	U
106-46-7-----	1,4-Dichlorobenzene	450	U
95-50-1-----	1,2-Dichlorobenzene	450	U
95-48-7-----	2-Methylphenol	450	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	450	U
106-44-5-----	4-Methylphenol	450	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	450	U
67-72-1-----	Hexachloroethane	450	U
98-95-3-----	Nitrobenzene	450	U
78-59-1-----	Isophorone	450	U
88-75-5-----	2-Nitrophenol	450	U
105-67-9-----	2,4-Dimethylphenol	450	U
111-91-1-----	bis(2-Chloroethoxy) Methane	450	U
120-83-2-----	2,4-Dichlorophenol	450	U
120-82-1-----	1,2,4-Trichlorobenzene	450	U
91-20-3-----	Naphthalene	450	U
106-47-8-----	4-Chloroaniline	450	U
87-68-3-----	Hexachlorobutadiene	450	U
59-50-7-----	4-Chloro-3-Methylphenol	450	U
91-57-6-----	2-Methylnaphthalene	450	U
77-47-4-----	Hexachlorocyclopentadiene	2200	U
88-06-2-----	2,4,6-Trichlorophenol	450	U
95-95-4-----	2,4,5-Trichlorophenol	450	U
91-58-7-----	2-Chloronaphthalene	450	U
88-74-4-----	2-Nitroaniline	2200	U
131-11-3-----	Dimethyl Phthalate	450	U
208-96-8-----	Acenaphthylene	450	U
606-20-2-----	2,6-Dinitrotoluene	450	U
99-09-2-----	3-Nitroaniline	2200	U
83-32-9-----	Acenaphthene	450	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-002

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-001

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7956

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: 26 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

51-28-5-----2,4-Dinitrophenol	2200	U
100-02-7-----4-Nitrophenol	2200	U
132-64-9-----Dibenzofuran	450	U
121-14-2-----2,4-Dinitrotoluene	450	U
84-66-2-----Diethylphthalate	450	U
7005-72-3-----4-Chlorophenyl-phenylether	450	U
86-73-7-----Fluorene	450	U
100-01-6-----4-Nitroaniline	2200	U
534-52-1-----4,6-Dinitro-2-Methylphenol	2200	U
86-30-6-----N-Nitrosodiphenylamine (1)	450	U
101-55-3-----4-Bromophenyl-phenylether	450	U
118-74-1-----Hexachlorobenzene	450	U
87-86-5-----Pentachlorophenol	2200	U
85-01-8-----Phenanthrene	450	U
120-12-7-----Anthracene	450	U
86-74-8-----Carbazole	450	U
84-74-2-----Di-n-Butylphthalate	450	U
206-44-0-----Fluoranthene	450	U
129-00-0-----Pyrene	180	J
85-68-7-----Butylbenzylphthalate	450	U
91-94-1-----3,3'-Dichlorobenzidine	2200	U
56-55-3-----Benzo(a)Anthracene	450	U
218-01-9-----Chrysene	450	U
117-81-7-----bis(2-Ethylhexyl)Phthalate	330	BJ
117-84-0-----Di-n-Octyl Phthalate	450	U
205-99-2-----Benzo(b)Fluoranthene	450	U
207-08-9-----Benzo(k)Fluoranthene	450	U
50-32-8-----Benzo(a)Pyrene	450	U
193-39-5-----Indeno(1,2,3-cd)Pyrene	450	U
53-70-3-----Dibenz(a,h)Anthracene	450	U
191-24-2-----Benzo(g,h,i)Perylene	450	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SL-002

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-001

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7956

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: 26 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 22

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	UNKNOWN ALDOL CONDENSATION	4.53	46000	J
2.	UNKNOWN	15.08	560	J
3.	UNKNOWN	18.65	370	J
4.	UNKNOWN	20.15	570	J
5.	UNKNOWN	20.25	770	J
6.	UNKNOWN	20.32	200	J
7.	UNKNOWN	20.47	230	J
8.	UNKNOWN	20.63	520	J
9.	UNKNOWN	20.98	230	J
10.	UNKNOWN	21.04	230	J
11.	UNKNOWN	21.15	540	J
12.	UNKNOWN	21.23	360	J
13.	UNKNOWN	21.27	300	J
14.	UNKNOWN	21.30	250	J
15.	UNKNOWN	21.52	3200	J
16.	UNKNOWN	23.50	250	J
17.	UNKNOWN	25.12	240	J
18.	UNKNOWN	25.20	460	J
19.	UNKNOWN	26.06	210	J
20.	UNKNOWN	26.84	490	J
21.	UNKNOWN	29.98	190	J
22.	UNKNOWN	32.15	220	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-004

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-003

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7958

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 2000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

CAS NO.

COMPOUND

108-95-2-----	Phenol	870	U
111-44-4-----	bis(2-Chloroethyl) Ether	870	U
95-57-8-----	2-Chlorophenol	870	U
541-73-1-----	1,3-Dichlorobenzene	870	U
106-46-7-----	1,4-Dichlorobenzene	870	U
95-50-1-----	1,2-Dichlorobenzene	870	U
95-48-7-----	2-Methylphenol	870	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	870	U
106-44-5-----	4-Methylphenol	870	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	870	U
67-72-1-----	Hexachloroethane	870	U
98-95-3-----	Nitrobenzene	870	U
78-59-1-----	Isophorone	870	U
88-75-5-----	2-Nitrophenol	870	U
105-67-9-----	2,4-Dimethylphenol	870	U
111-91-1-----	bis(2-Chloroethoxy) Methane	870	U
120-83-2-----	2,4-Dichlorophenol	870	U
120-82-1-----	1,2,4-Trichlorobenzene	870	U
91-20-3-----	Naphthalene	870	U
106-47-8-----	4-Chloroaniline	870	U
87-68-3-----	Hexachlorobutadiene	870	U
59-50-7-----	4-Chloro-3-Methylphenol	870	U
91-57-6-----	2-Methylnaphthalene	870	U
77-47-4-----	Hexachlorocyclopentadiene	4200	U
88-06-2-----	2,4,6-Trichlorophenol	870	U
95-95-4-----	2,4,5-Trichlorophenol	870	U
91-58-7-----	2-Chloronaphthalene	870	U
88-74-4-----	2-Nitroaniline	4200	U
131-11-3-----	Dimethyl Phthalate	870	U
208-96-8-----	Acenaphthylene	870	U
606-20-2-----	2,6-Dinitrotoluene	870	U
99-09-2-----	3-Nitroaniline	4200	U
83-32-9-----	Acenaphthene	870	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-004

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-003

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7958

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 2000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.

COMPOUND

51-28-5-----	2,4-Dinitrophenol	4200	U
100-02-7-----	4-Nitrophenol	4200	U
132-64-9-----	Dibenzofuran	870	U
121-14-2-----	2,4-Dinitrotoluene	870	U
84-66-2-----	Diethylphthalate	870	U
7005-72-3-----	4-Chlorophenyl-phenylether	870	U
86-73-7-----	Fluorene	870	U
100-01-6-----	4-Nitroaniline	4200	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	4200	U
86-30-6-----	N-Nitrosodiphenylamine (1)	870	U
101-55-3-----	4-Bromophenyl-phenylether	870	U
118-74-1-----	Hexachlorobenzene	870	U
87-86-5-----	Pentachlorophenol	4200	U
85-01-8-----	Phenanthrene	420	J
120-12-7-----	Anthracene	870	U
86-74-8-----	Carbazole	870	U
84-74-2-----	Di-n-Butylphthalate	870	U
206-44-0-----	Fluoranthene	550	J
129-00-0-----	Pyrene	490	J
85-68-7-----	Butylbenzylphthalate	870	U
91-94-1-----	3,3'-Dichlorobenzidine	4200	U
56-55-3-----	Benzo(a)Anthracene	870	U
218-01-9-----	Chrysene	500	J
117-81-7-----	bis(2-Ethylhexyl)Phthalate	640	BJ
117-84-0-----	Di-n-Octyl Phthalate	870	U
205-99-2-----	Benzo(b)Fluoranthene	610	J
207-08-9-----	Benzo(k)Fluoranthene	140	J
50-32-8-----	Benzo(a)Pyrene	540	J
193-39-5-----	Indeno(1,2,3-cd)Pyrene	430	J
53-70-3-----	Dibenz(a,h)Anthracene	870	U
191-24-2-----	Benzo(g,h,i)Perylene	620	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SL-004

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-003

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7958

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: 25 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 2000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 22

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	UNKNOWN ALDOL CONDENSATION	4.52	100000	J
2.	UNKNOWN	15.38	470	J
3.	UNKNOWN	18.71	470	J
4.	UNKNOWN	19.59	710	J
5.	UNKNOWN	20.26	580	J
6.	UNKNOWN	20.65	1100	J
7.	UNKNOWN	21.29	370	J
8.	UNKNOWN	21.52	2300	J
9.	UNKNOWN	22.61	1800	J
10.	UNKNOWN	23.53	1900	J
11.	UNKNOWN	23.85	660	J
12.	UNKNOWN	24.42	1500	J
13.	UNKNOWN	26.08	950	J
14.	UNKNOWN	26.35	620	J
15.	UNKNOWN	26.87	1100	J
16.	UNKNOWN	28.10	730	J
17.	UNKNOWN	28.36	730	J
18.	UNKNOWN	28.61	740	J
19.	UNKNOWN	29.36	590	J
20.	UNKNOWN	29.88	840	J
21.	UNKNOWN	30.02	840	J
22.	UNKNOWN	30.68	1100	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-007

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-004

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7959

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.

COMPOUND

108-95-2-----	Phenol	400	U
111-44-4-----	bis(2-Chloroethyl) Ether	400	U
95-57-8-----	2-Chlorophenol	400	U
541-73-1-----	1,3-Dichlorobenzene	400	U
106-46-7-----	1,4-Dichlorobenzene	400	U
95-50-1-----	1,2-Dichlorobenzene	400	U
95-48-7-----	2-Methylphenol	400	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5-----	4-Methylphenol	400	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	400	U
67-72-1-----	Hexachloroethane	400	U
98-95-3-----	Nitrobenzene	400	U
78-59-1-----	Isophorone	400	U
88-75-5-----	2-Nitrophenol	400	U
105-67-9-----	2,4-Dimethylphenol	400	U
111-91-1-----	bis(2-Chloroethoxy) Methane	400	U
120-83-2-----	2,4-Dichlorophenol	400	U
120-82-1-----	1,2,4-Trichlorobenzene	400	U
91-20-3-----	Naphthalene	400	U
106-47-8-----	4-Chloroaniline	400	U
87-68-3-----	Hexachlorobutadiene	400	U
59-50-7-----	4-Chloro-3-Methylphenol	400	U
91-57-6-----	2-Methylnaphthalene	400	U
77-47-4-----	Hexachlorocyclopentadiene	2000	U
88-06-2-----	2,4,6-Trichlorophenol	400	U
95-95-4-----	2,4,5-Trichlorophenol	400	U
91-58-7-----	2-Chloronaphthalene	400	U
88-74-4-----	2-Nitroaniline	2000	U
131-11-3-----	Dimethyl Phthalate	400	U
208-96-8-----	Acenaphthylene	400	U
606-20-2-----	2,6-Dinitrotoluene	400	U
99-09-2-----	3-Nitroaniline	2000	U
83-32-9-----	Acenaphthene	400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-007

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-004

Sample wt/vol: 30.20 (g/mL) G

Lab File IL: H7959

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	400	U
121-14-2-----	2,4-Dinitrotoluene	400	U
84-66-2-----	Diethylphthalate	400	U
7005-72-3-----	4-Chlorophenyl-phenylether	400	U
86-73-7-----	Fluorene	400	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	400	U
101-55-3-----	4-Bromophenyl-phenylether	400	U
118-74-1-----	Hexachlorobenzene	400	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	180	J
120-12-7-----	Anthracene	400	U
86-74-8-----	Carbazole	400	U
84-74-2-----	Di-n-Butylphthalate	400	U
206-44-0-----	Fluoranthene	260	J
129-00-0-----	Pyrene	250	J
85-68-7-----	Butylbenzylphthalate	400	U
91-94-1-----	3,3'-Dichlorobenzidine	2000	U
56-55-3-----	Benzo(a)Anthracene	400	U
218-01-9-----	Chrysene	230	J
117-81-7-----	bis(2-Ethylhexyl)Phthalate	230	BJ
117-84-0-----	Di-n-Octyl Phthalate	400	U
205-99-2-----	Benzo(b) Fluoranthene	270	J
207-08-9-----	Benzo(k) Fluoranthene	61	J
50-32-8-----	Benzo(a) Pyrene	210	J
193-39-5-----	Indeno(1,2,3-cd) Pyrene	200	J
53-70-3-----	Dibenz(a,h)Anthracene	400	U
191-24-2-----	Benzo(g,h,i) Perylene	230	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SL-007

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sam ID: 18302-004

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7959

Level: (low/med) LOW

Date Received: 07/08/98

* Moisture: 19 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 22

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	UNKNOWN ALDOL CONDENSATION	4.53	43000	J
2.	UNKNOWN	10.49	180	J
3. 103822	Benzeneacetic acid	11.33	340	JN
4.	UNKNOWN	11.63	270	J
5. 629505	Tridecane	12.02	210	JN
6. 629594	Tetradecane	13.48	720	JN
7.	UNKNOWN	14.19	170	J
8.	UNKNOWN	14.34	470	J
9. 629629	Pentadecane	14.84	560	JN
10. 544763	Hexadecane	16.12	270	JN
11.	UNKNOWN	17.34	190	J
12.	UNKNOWN	17.41	170	J
13.	UNKNOWN	20.26	420	J
14.	UNKNOWN	20.65	170	J
15.	UNKNOWN	21.48	370	J
16.	UNKNOWN	24.43	200	J
17.	UNKNOWN	26.87	380	J
18.	UNKNOWN	27.10	630	J
19.	UNKNOWN	28.36	290	J
20.	UNKNOWN	28.61	250	J
21.	UNKNOWN	30.03	240	J
22.	UNKNOWN	32.20	190	J

EPA SAMPLE NO.

SL-005

Contract: 798-02

Case No.: S28501

SAS No. :

SDG No. : 18306

Lab Sample ID: 18302-005

Lab File ID: H7960

Date Received: 07/08/98

Date Extracted: 07/10/98

Date Analyzed: 07/27/98

Dilution Factor: 1.0

pH :

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

C

108-95-2-----Phenol	410	U
111-44-4-----bis(2-Chloroethyl) Ether	410	U
95-57-8-----2-Chlorophenol	410	U
541-73-1-----1,3-Dichlorobenzene	410	U
106-46-7-----1,4-Dichlorobenzene	410	U
95-50-1-----1,2-Dichlorobenzene	410	U
95-48-7-----2-Methylphenol	410	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	410	U
106-44-5-----4-Methylphenol	410	U
621-64-7-----N-Nitroso-Di-n-Propylamine	410	U
67-72-1-----Hexachloroethane	410	U
98-95-3-----Nitrobenzene	410	U
78-59-1-----Isophorone	410	U
88-75-5-----2-Nitrophenol	410	U
105-67-9-----2,4-Dimethylphenol	410	U
111-91-1-----bis(2-Chloroethoxy) Methane	410	U
120-83-2-----2,4-Dichlorophenol	410	U
120-82-1-----1,2,4-Trichlorobenzene	410	U
91-20-3-----Naphthalene	410	U
106-47-8-----4-Chloroaniline	410	U
87-68-3-----Hexachlorobutadiene	410	U
59-50-7-----4-Chloro-3-Methylphenol	410	U
91-57-6-----2-Methylnaphthalene	410	U
77-47-4-----Hexachlorocyclopentadiene	2000	U
88-06-2-----2,4,6-Trichlorophenol	410	U
95-95-4-----2,4,5-Trichlorophenol	410	U
91-58-7-----2-Chloronaphthalene	410	U
88-74-4-----2-Nitroaniline	2000	U
131-11-3-----Dimethyl Phthalate	410	U
208-96-8-----Acenaphthylene	410	U
606-20-2-----2,6-Dinitrotoluene	410	U
99-09-2-----3-Nitroaniline	2000	U
83-32-9-----Acenaphthene	410	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-005

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-005

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7960

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q

CAS NO.

COMPOUND

51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-54-9-----	Dibenzofuran	410	U
121-14-2-----	2,4-Dinitrotoluene	410	U
84-66-2-----	Diethylphthalate	410	U
7005-72-3-----	4-Chlorophenyl-phenylether	410	U
86-73-7-----	Fluorene	410	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	410	U
101-55-3-----	4-Bromophenyl-phenylether	410	U
118-74-1-----	Hexachlorobenzene	410	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	220	J
120-12-7-----	Anthracene	410	U
86-74-8-----	Carbazole	410	U
84-74-2-----	Di-n-Butylphthalate	410	U
206-44-0-----	Fluoranthene	270	J
129-00-0-----	Pyrene	230	J
85-68-7-----	Butylbenzylphthalate	410	U
91-94-1-----	3,3'-Dichlorobenzidine	2000	U
56-55-3-----	Benzo(a)Anthracene	170	J
218-01-9-----	Chrysene	210	J
117-81-7-----	bis(2-Ethylhexyl)Phthalate	200	BJ
117-84-0-----	Di-n-Octyl Phthalate	410	U
205-99-2-----	Benzo(b)Fluoranthene	260	J
207-08-9-----	Benzo(k)Fluoranthene	410	U
50-32-8-----	Benzo(a)Pyrene	170	J
193-39-5-----	Indeno(1,2,3-cd)Pyrene	180	J
53-70-3-----	Dibenz(a,h)Anthracene	410	U
191-24-2-----	Benzo(g,h,i)Perylene	410	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SL-005

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-005

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7960

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 500.0 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 22

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	UNKNOWN ALDOL CONDENSATION	4.54	43000	J
2. 76222	Camphor	9.68	350	JN
3.	UNKNOWN	10.04	210	J
4.	UNKNOWN	12.96	200	J
5.	UNKNOWN	15.29	220	J
6.	UNKNOWN	17.85	160	J
7.	UNKNOWN	18.72	180	J
8.	UNKNOWN	20.27	260	J
9.	UNKNOWN	21.30	220	J
10.	UNKNOWN	21.54	1900	J
11.	UNKNOWN	23.11	3100	J
12.	UNKNOWN	24.61	180	J
13.	UNKNOWN	25.20	170	J
14.	UNKNOWN	26.85	190	J
15.	UNKNOWN	28.37	190	J
16.	UNKNOWN	29.50	190	J
17.	UNKNOWN	30.00	240	J
18.	UNKNOWN	30.38	140	J
19.	UNKNOWN	30.62	200	J
20.	UNKNOWN	30.70	170	J
21.	UNKNOWN	31.57	130	J
22.	UNKNOWN	32.16	310	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-016

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18306-001

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7963

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: 36 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	510	U
111-44-4-----	bis(2-Chloroethyl) Ether	510	U
95-57-8-----	2-Chlorophenol	510	U
541-73-1-----	1,3-Dichlorobenzene	510	U
106-46-7-----	1,4-Dichlorobenzene	510	U
95-50-1-----	1,2-Dichlorobenzene	510	U
95-48-7-----	2-Methylphenol	510	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	510	U
106-44-5-----	4-Methylphenol	510	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	510	U
67-72-1-----	Hexachloroethane	510	U
98-95-3-----	Nitrobenzene	510	U
78-59-1-----	Isophorone	510	U
88-75-5-----	2-Nitrophenol	510	U
105-67-9-----	2,4-Dimethylphenol	510	U
111-91-1-----	bis(2-Chloroethoxy)Methane	510	U
120-83-2-----	2,4-Dichlorophenol	510	U
120-82-1-----	1,2,4-Trichlorobenzene	510	U
91-20-3-----	Naphthalene	510	U
106-47-8-----	4-Chloroaniline	510	U
87-68-3-----	Hexachlorobutadiene	510	U
59-50-7-----	4-Chloro-3-Methylphenol	510	U
91-57-6-----	2-Methylnaphthalene	510	U
77-47-4-----	Hexachlorocyclopentadiene	2500	U
88-06-2-----	2,4,6-Trichlorophenol	510	U
95-95-4-----	2,4,5-Trichlorophenol	510	U
91-58-7-----	2-Chloronaphthalene	510	U
88-74-4-----	2-Nitroaniline	2500	U
131-11-3-----	Dimethyl Phthalate	510	U
208-96-8-----	Acenaphthylene	510	U
606-20-2-----	2,6-Dinitrotoluene	510	U
99-09-2-----	3-Nitroaniline	2500	U
83-32-9-----	Acenaphthene	510	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-016

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18306-001

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7963

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: 36 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	2500	U
100-02-7-----	4-Nitrophenol	2500	U
132-64-9-----	Dibenzofuran	510	U
121-14-2-----	2,4-Dinitrotoluene	510	U
84-66-2-----	Diethylphthalate	510	U
7005-72-3-----	4-Chlorophenyl-phenylether	510	U
86-73-7-----	Fluorene	510	U
100-01-6-----	4-Nitroaniline	2500	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	2500	U
86-30-6-----	N-Nitrosodiphenylamine (1)	510	U
101-55-3-----	4-Bromophenyl-phenylether	510	U
118-74-1-----	Hexachlorobenzene	510	U
87-86-5-----	Pentachlorophenol	2500	U
85-01-8-----	Phenanthrene	510	U
120-12-7-----	Anthracene	510	U
86-74-8-----	Carbazole	510	U
84-74-2-----	Di-n-Butylphthalate	510	U
206-44-0-----	Fluoranthene	510	U
129-00-0-----	Pyrene	220	J
85-68-7-----	Butylbenzylphthalate	510	U
91-94-1-----	3,3'-Dichlorobenzidine	2500	U
56-55-3-----	Benzo(a)Anthracene	510	U
218-01-9-----	Chrysene	250	J
117-81-7-----	bis(2-Ethylhexyl) Phthalate	510	U
117-84-0-----	Di-n-Octyl Phthalate	510	U
205-99-2-----	Benzo(b)Fluoranthene	510	U
207-08-7-----	Benzo(k)Fluoranthene	510	U
50-32-8-----	Benzo(a)Pyrene	310	J
193-39-5-----	Indeno(1,2,3-cd)Pyrene	510	U
53-70-3-----	Dibenz(a,h)Anthracene	510	U
191-24-2-----	Benzo(g,h,i)Perylene	280	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SL-016

Lab Name: QUANTERRA MO

Contract: 798-C2

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18306-001

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7963

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: 36 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 22

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALDOL CONDENSATION	4.48	48000	J
2.	UNKNOWN	19.60	370	J
3.	UNKNOWN	20.26	310	J
4.	UNKNOWN	20.65	560	J
5.	UNKNOWN	21.06	410	J
6.	UNKNOWN	21.32	350	J
7.	UNKNOWN	21.52	1600	J
8.	UNKNOWN	22.61	790	J
9.	UNKNOWN	23.53	800	J
10.	UNKNOWN	24.41	800	J
11.	UNKNOWN	25.22	420	J
12.	UNKNOWN	25.87	480	J
13.	UNKNOWN	26.08	440	J
14.	UNKNOWN	26.80	400	J
15.	UNKNOWN	26.87	520	J
16.	UNKNOWN	27.64	470	J
17.	UNKNOWN	28.37	530	J
18.	UNKNOWN	29.37	350	J
19.	UNKNOWN	29.79	350	J
20.	UNKNOWN	29.89	360	J
21.	UNKNOWN	30.03	430	J
22.	UNKNOWN	30.70	670	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-016MS

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18306-001MS

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7964

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: 36 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	1900	
111-44-4-----	bis(2-Chloroethyl) Ether	520	U
95-57-8-----	2-Chlorophenol	2000	
541-73-1-----	1,3-Dichlorobenzene	520	U
106-46-7-----	1,4-Dichlorobenzene	1100	
95-50-1-----	1,2-Dichlorobenzene	520	U
95-48-7-----	2-Methylphenol	520	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	520	U
106-44-5-----	4-Methylphenol	520	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	1600	
67-72-1-----	Hexachloroethane	520	U
98-95-3-----	Nitrobenzene	520	U
78-59-1-----	Isophorone	520	U
88-75-5-----	2-Nitrophenol	520	U
105-67-9-----	2,4-Dimethylphenol	520	U
111-91-1-----	bis(2-Chloroethoxy) Methane	520	U
120-83-2-----	2,4-Dichlorophenol	520	U
120-82-1-----	1,2,4-Trichlorobenzene	1200	
91-20-3-----	Naphthalene	520	U
106-47-8-----	4-Chloroaniline	520	U
87-68-3-----	Hexachlorobutadiene	520	U
59-50-7-----	4-Chloro-3-Methylphenol	2000	
91-57-6-----	2-Methylnaphthalene	520	U
77-47-4-----	Hexachlorocyclopentadiene	2500	U
88-06-2-----	2,4,6-Trichlorophenol	520	U
95-95-4-----	2,4,5-Trichlorophenol	520	U
91-58-7-----	2-Chloronaphthalene	520	U
88-74-4-----	2-Nitroaniline	2500	U
131-11-3-----	Dimethyl Phthalate	520	U
208-96-8-----	Acenaphthylene	520	U
606-20-2-----	2,6-Dinitrotoluene	520	U
99-09-2-----	3-Nitroaniline	2500	U
83-32-9-----	Acenaphthene	1300	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-016MS

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18306-001MS

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7964

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: 36 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND		
51-28-5-----	2,4-Dinitrophenol	2500	U
100-02-7-----	4-Nitrophenol	2000	J
132-64-9-----	Dibenzofuran	520	U
121-14-2-----	2,4-Dinitrotoluene	1400	
84-66-2-----	Diethylphthalate	520	U
7005-72-3-----	4-Chlorophenyl-phenylether	520	U
86-73-7-----	Fluorene	520	U
100-01-6-----	4-Nitroaniline	2500	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	2500	U
86-30-6-----	N-Nitrosodiphenylamine (1)	520	U
101-55-3-----	4-Bromophenyl-phenylether	520	U
118-74-1-----	Hexachlorobenzene	520	U
87-86-5-----	Pentachlorophenol	1100	J
85-01-8-----	Phenanthrene	200	J
120-12-7-----	Anthracene	520	U
86-74-8-----	Carbazole	520	U
84-74-2-----	Di-n-Butylphthalate	240	J
206-44-0-----	Fluoranthene	520	U
129-00-0-----	Pyrene	1400	
85-68-7-----	Butylbenzylphthalate	520	U
91-94-1-----	3,3'-Dichlorobenzidine	2500	U
56-55-3-----	Benzo(a)Anthracene	520	U
218-01-9-----	Chrysene	240	J
117-81-7-----	bis(2-Ethylhexyl) Phthalate	520	U
117-84-0-----	Di-n-Octyl Phthalate	520	U
205-99-2-----	Benzo(b) Fluoranthene	520	U
207-08-9-----	Benzo(k) Fluoranthene	520	U
50-32-8-----	Benzo(a) Pyrene	250	J
193-39-5-----	Indeno(1,2,3-cd) Pyrene	520	U
53-70-3-----	Dibenz(a,h) Anthracene	520	U
191-24-2-----	Benzo(g,h,i) Perylene	280	J

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-016MSD

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18306-001MSD

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7965

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: 36 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

108-95-2-----Phenol	2000	
111-44-4-----bis(2-Chloroethyl) Ether	510	U
95-57-8-----2-Chlorophenol	2100	
541-73-1-----1,3-Dichlorobenzene	510	U
106-46-7-----1,4-Dichlorobenzene	1300	
95-50-1-----1,2-Dichlorobenzene	510	U
95-48-7-----2-Methylphenol	510	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	510	U
106-44-5-----4-Methylphenol	510	U
621-64-7-----N-Nitroso-Di-n-Propylamine	1700	
67-72-1-----Hexachloroethane	510	U
98-95-3-----Nitrobenzene	510	U
78-59-1-----Isophorone	510	U
88-75-5-----2-Nitrophenol	510	U
105-67-9-----2,4-Dimethylphenol	510	U
111-91-1-----bis(2-Chloroethoxy) Methane	510	U
120-83-2-----2,4-Dichlorophenol	510	U
120-82-1-----1,2,4-Trichlorobenzene	1400	
91-20-3-----Naphthalene	510	U
106-47-8-----4-Chloroaniline	510	U
87-68-3-----Hexachlorobutadiene	510	U
59-50-7-----4-Chloro-3-Methylphenol	2000	
91-57-6-----2-Methylnaphthalene	510	U
77-47-4-----Hexachlorocyclopentadiene	2500	U
88-06-2-----2,4,6-Trichlorophenol	510	U
95-95-4-----2,4,5-Trichlorophenol	510	U
91-58-7-----2-Chloronaphthalene	510	U
88-74-4-----2-Nitroaniline	2500	U
131-11-3-----Dimethyl Phthalate	510	U
208-96-8-----Acenaphthylene	510	U
606-20-2-----2,6-Dinitrotoluene	510	U
99-09-2-----3-Nitroaniline	2500	U
83-32-9-----Acenaphthene	1400	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-016MSD

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18306-001MSD

Sample wt/vol: 30.20 (g/mL) G

Lab File ID: H7965

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: 36 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	2500	U
100-02-7-----	4-Nitrophenol	2100	J
132-64-9-----	Dibenzofuran	510	U
121-14-2-----	2,4-Dinitrotoluene	1400	
84-66-2-----	Diethylphthalate	510	U
7005-72-3-----	4-Chlorophenyl-phenylether	510	U
86-73-7-----	Fluorene	510	U
100-01-6-----	4-Nitroaniline	2500	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	2500	U
86-30-6-----	N-Nitrosodiphenylamine (1)	510	U
101-55-3-----	4-Bromophenyl-phenylether	510	U
118-74-1-----	Hexachlorobenzene	510	U
87-86-5-----	Pentachlorophenol	1300	J
85-01-8-----	Phenanthrene	190	J
120-12-7-----	Anthracene	510	U
86-74-8-----	Carbazole	510	U
84-74-2-----	Di-n-Butylphthalate	510	U
206-44-0-----	Fluoranthene	510	U
129-00-0-----	Pyrene	1500	
85-68-7-----	Butylbenzylphthalate	510	U
91-94-1-----	3,3'-Dichlorobenzidine	2500	U
56-55-3-----	Benzo(a)Anthracene	510	U
218-01-9-----	Chrysene	260	J
117-81-7-----	bis(2-Ethylhexyl)Phthalate	510	U
117-84-0-----	Di-n-Octyl Phthalate	510	U
205-99-2-----	Benzo(b)Fluoranthene	510	U
207-08-9-----	Benzo(k)Fluoranthene	510	U
50-32-8-----	Benzo(a)Pyrene	290	J
193-39-5-----	Indeno(1,2,3-cd)Pyrene	510	U
53-70-3-----	Dibenz(a,h)Anthracene	510	U
191-24-2-----	Benzo(g,h,i)Perylene	300	J

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-006

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18306-002

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7966

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

CAS NO.	COMPOUND		
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl) Ether	420	U
95-57-8	2-Chlorophenol	420	U
541-73-1	1,3-Dichlorobenzene	420	U
106-46-7	1,4-Dichlorobenzene	420	U
95-50-1	1,2-Dichlorobenzene	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-Di-n-Propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy) Methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
120-82-1	1,2,4-Trichlorobenzene	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
59-50-7	4-Chloro-3-Methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	2000	U
131-11-3	Dimethyl Phthalate	420	U
208-96-8	Acenaphthylene	420	U
606-20-2	2,6-Dinitrotoluene	420	U
99-09-2	3-Nitroaniline	2000	U
83-32-9	Acenaphthene	420	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-006

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18306-002

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7966

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	2000	U
100-02-7-----	4-Nitrophenol	2000	U
132-64-9-----	Dibenzofuran	420	U
121-14-2-----	2,4-Dinitrotoluene	420	U
84-66-2-----	Diethylphthalate	420	U
7005-72-3-----	4-Chlorophenyl-phenylether	420	U
86-73-7-----	Fluorene	420	U
100-01-6-----	4-Nitroaniline	2000	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	2000	U
86-30-6-----	N-Nitrosodiphenylamine (1)	420	U
101-55-3-----	4-Bromophenyl-phenylether	420	U
118-74-1-----	Hexachlorobenzene	420	U
87-86-5-----	Pentachlorophenol	2000	U
85-01-8-----	Phenanthrene	350	J
120-12-7-----	Anthracene	420	U
86-74-8-----	Carbazole	420	U
84-74-2-----	Di-n-Butylphthalate	420	U
206-44-0-----	Fluoranthene	450	
129-00-0-----	Pyrene	390	J
85-68-7-----	Butylbenzylphthalate	420	U
91-94-1-----	3,3'-Dichlorobenzidine	2000	U
56-55-3-----	Benzo(a)Anthracene	210	J
218-01-9-----	Chrysene	260	J
117-81-7-----	bis(2-Ethylhexyl)Phthalate	320	BJ
117-84-0-----	Di-n-Octyl Phthalate	420	U
205-99-2-----	Benzo(b)Fluoranthene	420	U
207-08-9-----	Benzo(k)Fluoranthene	420	U
50-32-8-----	Benzo(a)Pyrene	230	J
193-39-5-----	Indeno(1,2,3-cd)Pyrene	210	J
53-70-3-----	Dibenz(a,h)Anthracene	420	U
191-24-2-----	Benzo(g,h,i)Perylene	220	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SL-006

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18306-002

Sample wt/vol: 30.00 (g/mL) G

Lab File ID: H7966

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: 21 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	UNKNOWN ALDOL CONDENSATION	4.50	42000	J
2.	UNKNOWN	17.42	110	J
3.	UNKNOWN	18.60	90	J
4.	UNKNOWN	19.59	92	J
5.	UNKNOWN	20.26	180	J
6.	UNKNOWN	20.64	140	J
7.	UNKNOWN	24.42	130	J
8.	UNKNOWN	25.21	310	J
9.	UNKNOWN	25.58	89	J
10.	UNKNOWN	26.07	130	J
11.	UNKNOWN	26.86	220	J
12.	UNKNOWN	27.62	110	J
13.	UNKNOWN	27.90	250	J
14.	UNKNOWN	28.11	130	J
15.	UNKNOWN	28.39	360	J
16.	UNKNOWN	28.49	200	J
17.	UNKNOWN	29.78	130	J
18.	UNKNOWN	29.85	100	J
19.	UNKNOWN	32.06	110	J
20.	UNKNOWN	32.18	180	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-003

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-002

Sample wt/vol: 30.30 (g/mL) G

Lab File ID: H7973

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 2000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Q

CAS NO.

COMPOUND

108-95-2-----	Phenol	800	U
111-44-4-----	bis (2-Chloroethyl) Ether	800	U
95-57-8-----	2-Chlorophenol	800	U
541-73-1-----	1,3-Dichlorobenzene	800	U
106-46-7-----	1,4-Dichlorobenzene	800	U
95-50-1-----	1,2-Dichlorobenzene	800	U
95-48-7-----	2-Methylphenol	800	U
108-60-1-----	2,2'-oxybis (1-Chloropropane)	800	U
106-44-5-----	4-Methylphenol	800	U
621-64-7-----	N-Nitroso-Di-n-Propylamine	800	U
67-72-1-----	Hexachloroethane	800	U
98-95-3-----	Nitrobenzene	800	U
78-59-1-----	Isophorone	800	U
88-75-5-----	2-Nitrophenol	800	U
105-67-9-----	2,4-Dimethylphenol	800	U
111-91-1-----	bis (2-Chloroethoxy) Methane	800	U
120-83-2-----	2,4-Dichloropheno	800	U
120-82-1-----	1,2,4-Trichlorobenzene	800	U
91-20-3-----	Naphthalene	290	J
106-47-8-----	4-Chloroaniline	800	U
87-68-3-----	Hexachlorobutadiene	800	U
59-50-7-----	4-Chloro-3-Methylphenol	800	U
91-57-6-----	2-Methylnaphthalene	800	U
77-47-4-----	Hexachlorocyclopentadiene	3900	U
88-06-2-----	2,4,6-Trichlorophenol	800	U
95-95-4-----	2,4,5-Trichlorophenol	800	U
91-58-7-----	2-Chloronaphthalene	800	U
88-74-4-----	2-Nitroaniline	3900	U
131-11-3-----	Dimethyl Phthalate	800	U
208-96-8-----	Acenaphthylene	800	U
606-20-2-----	2,6-Dinitrotoluene	800	U
99-09-2-----	3-Nitroaniline	3900	U
83-32-9-----	Acenaphthene	800	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SL-003

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-002

Sample wt/vol: 30.30 (g/mL) G

Lab File ID: H7973

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 2000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	3900	U
100-02-7-----	4-Nitrophenol	3900	U
132-64-9-----	Dibenzofuran	800	U
121-14-2-----	2,4-Dinitrotoluene	800	U
84-66-2-----	Diethylphthalate	800	U
7005-72-3-----	4-Chlorophenyl-phenylether	800	U
86-73-7-----	Fluorene	800	U
100-01-6-----	4-Nitroaniline	3900	U
534-52-1-----	4,6-Dinitro-2-Methylphenol	3900	U
86-30-6-----	N-Nitrosodiphenylamine (1)	800	U
101-55-3-----	4-Bromophenyl-phenylether	800	U
118-74-1-----	Hexachlorobenzene	800	U
87-86-5-----	Pentachlorophenol	3900	U
85-01-8-----	Phenanthrene	360	J
120-12-7-----	Anthracene	800	U
86-74-8-----	Carbazole	800	U
84-74-2-----	Di-n-Butylphthalate	800	U
206-44-0-----	Fluoranthene	410	J
129-00-0-----	Pyrene	700	J
85-68-7-----	Butylbenzylphthalate	800	U
91-94-1-----	3,3'-Dichlorobenzidine	3900	U
56-55-3-----	Benzo(a)Anthracene	800	U
218-01-9-----	Chrysene	720	J
117-81-7-----	bis(2-Ethylhexyl)Phthalate	890	B
117-84-0-----	Di-n-Octyl Phthalate	800	U
205-99-2-----	Benzo(b)Fluoranthene	720	J
207-08-9-----	Benzo(k)Fluoranthene	800	U
50-32-8-----	Benzo(a)Pyrene	900	
193-39-5-----	Indeno(1,2,3-cd)Pyrene	800	U
53-70-3-----	Dibenz(a,h)Anthracene	800	U
191-24-2-----	Benzo(g,h,i)Perylene	800	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SL-003

Lab Name: QUANTERRA MO

Contract: 798-02

Lab Code: ITSL

Case No.: S28501

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-002

Sample wt/vol: 30.30 (g/mL) G

Lab File ID: H7973

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: 18 decanted: (Y/N) N

Date Extracted: 07/10/98

Concentrated Extract Volume: 2000 (uL)

Date Analyzed: 07/27/98

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH:

CONCENTRATION UNITS:
(ug/L or ug/kg) UG/KG

Number TICs found: 22

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	UNKNOWN ALDOL CONDENSATION	4.43	57000	J
2.	UNKNOWN	20.25	990	J
3.	UNKNOWN	20.63	700	J
4.	UNKNOWN	21.44	690	J
5.	UNKNOWN	23.33	1600	J
6.	UNKNOWN	23.51	1000	J
7.	UNKNOWN	23.58	1200	J
8.	UNKNOWN	23.65	1200	J
9.	UNKNOWN	24.44	1200	J
10.	UNKNOWN	24.62	1500	J
11.	UNKNOWN	24.70	1600	J
12.	UNKNOWN	24.91	1500	J
13.	UNKNOWN	24.99	2100	J
14.	UNKNOWN	25.67	1200	J
15.	UNKNOWN	25.89	1300	J
16.	UNKNOWN	26.04	1000	J
17.	UNKNOWN	26.38	1900	J
18.	UNKNOWN	26.84	1900	J
19.	UNKNOWN	27.62	2000	J
20.	UNKNOWN	28.11	1100	J
21.	UNKNOWN	30.04	1400	J
22.	UNKNOWN	30.72	1500	J

Category: Paint Filter Test
Method: EPA 9095
Matrix: Soil

Sample Date : 07/02/98
Receipt Date : 07/03/98
Report Date : 07/31/98

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
ASH 2-SL-009/WC1B	18285-001	Paint Filter Te PFT-1		NA	07/10/98	07/10/98	PASS				1
ASH 2-SL-010/WC2B	18285-002	Paint Filter Te PFT-1		NA	07/10/98	07/10/98	PASS				1
ASH2-SL-011/WC3B	18285-003	Paint Filter Te PFT-1		NA	07/10/98	07/10/98	PASS				1
ASH2-SL-012/WC4B	18285-004	Paint Filter Te PFT-1		NA	07/10/98	07/10/98	PASS				1
ASH2-SL-013/WC5B	18285-005	Paint Filter Te PFT-1		NA	07/10/98	07/10/98	PASS				1
ASH2-SL-014/WC 6B	18290-001	Paint Filter Te PFT-1		NA	07/10/98	07/10/98	PASS				1
ASH2-SL-015/WC 7B	18290-002	Paint Filter Te PFT-1		NA	07/10/98	07/10/98	PASS				1
ASH2-SL-008/WC 8B	18290-003	Paint Filter Te PFT-1		NA	07/10/98	07/10/98	PASS				1
ASH2-SL-001/WC 1BH	18290-004	Paint Filter Te PFT-1		NA	07/10/98	07/10/98	PASS				1
ASH2-SL-002	18302-001	Paint Filter Te PFT-1		NA	07/23/98	07/23/98	PASS				1
ASH2-SL-003	18302-002	Paint Filter Te PFT-1		NA	07/23/98	07/23/98	PASS				1
ASH2-SL-004	18302-003	Paint Filter Te PFT-1		NA	07/23/98	07/23/98	PASS				1
ASH2-SL-007	18302-004	Paint Filter Te PFT-1		NA	07/23/98	07/23/98	PASS				1
ASH2-SL-005	18302-005	Paint Filter Te PFT-1		NA	07/23/98	07/23/98	PASS				1
ASH2-SL-016	18306-001	Paint Filter Te PFT-1		NA	07/23/98	07/23/98	PASS				1
ASH2-SL-016	18306-001DUP	Paint Filter Te PFT-1		NA	07/23/98	07/23/98	PASS				1
ASH2-SL-006	18306-002	Paint Filter Te PFT-1		NA	07/23/98	07/23/98	PASS				1

Category: FLASHPOINT
Method: EPA 1010
Matrix: Soil

Sample Date : 07/02/98
Receipt Date : 07/03/98
Report Date : 07/31/98

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
ASH 2-SL-009/WC1B	18285-001	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
ASH 2-SL-010/WC2B	18285-002	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
ASH2-SL-011/WC3B	18285-003	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
ASH2-SL-012/WC4B	18285-004	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
ASH2-SL-013/WC5B	18285-005	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
ASH2-SL-014/WC 6B	18290-001	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
ASH2-SL-015/WC 7B	18290-002	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
ASH2-SL-008/WC 8B	18290-003	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
ASH2-SL-001/WC 1BH	18290-004	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
ASH2-SL-002	18302-001	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
ASH2-SL-003	18302-002	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
ASH2-SL-004	18302-003	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
ASH2-SL-007	18302-004	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
ASH2-SL-005	18302-005	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
ASH2-SL-016	18306-001	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
ASH2-SL-016	18306-001DUP	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
ASH2-SL-006	18306-002	Flashpoint	10-36-6	NA	07/13/98	07/13/98	>60.0	DEG C			1
NA	QCCLCS178178-1	Flashpoint	10-36-6	NA	07/13/98	07/13/98	27.5	DEG C			1

Category: pH
Method: EPA 9045
Matrix: Soil

Sample Date : 07/02/98
Receipt Date : 07/03/98
Report Date : 07/31/98

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
ASH 2-SL-009/MC1B	18285-001	pH	C-006	QCBLK177821-1	07/10/98	07/10/98	7.55	PH UNITS			
ASH 2-SL-010/MC2B	18285-002	pH	C-006	QCBLK177821-1	07/10/98	07/10/98	7.62	PH UNITS			
ASH2-SL-011/MC3B	18285-003	pH	C-006	QCBLK177821-1	07/10/98	07/10/98	7.63	PH UNITS			
ASH2-SL-012/MC4B	18285-004	pH	C-006	QCBLK177821-1	07/10/98	07/10/98	7.59	PH UNITS			
ASH2-SL-013/MC5B	18285-005	pH	C-006	QCBLK177821-1	07/10/98	07/10/98	7.65	PH UNITS			
ASH2-SL-014/MC 6B	18290-001	pH	C-006	QCBLK177821-1	07/10/98	07/10/98	7.26	PH UNITS			
ASH2-SL-015/MC 7B	18290-002	pH	C-006	QCBLK177821-1	07/10/98	07/10/98	7.95	PH UNITS			
ASH2-SL-008/MC 8B	18290-003	pH	C-006	QCBLK177821-1	07/10/98	07/10/98	7.65	PH UNITS			
ASH2-SL-001/MC 1BH	18290-004	pH	C-006	QCBLK177821-1	07/10/98	07/10/98	7.56	PH UNITS			
ASH2-SL-002	18302-001	pH	C-006	QCBLK179052-1	07/22/98	07/22/98	7.58	PH UNITS			
ASH2-SL-003	18302-002	pH	C-006	QCBLK179052-1	07/22/98	07/22/98	7.53	PH UNITS			
ASH2-SL-004	18302-003	pH	C-006	QCBLK179052-1	07/22/98	07/22/98	7.60	PH UNITS			
ASH2-SL-007	18302-004	pH	C-006	QCBLK179052-1	07/22/98	07/22/98	7.19	PH UNITS			
ASH2-SL-005	18302-005	pH	C-006	QCBLK179052-1	07/22/98	07/22/98	7.26	PH UNITS			
ASH2-SL-016	18306-001	pH	C-006	QCBLK179052-1	07/22/98	07/22/98	7.71	PH UNITS			
ASH2-SL-016	18306-001DUP	pH	C-006	QCBLK179052-1	07/22/98	07/22/98	7.72	PH UNITS			
ASH2-SL-006	18306-002	pH	C-006	QCBLK179052-1	07/22/98	07/22/98	7.57	PH UNITS			
NA	QCBLK177821-1	pH	C-006	QCBLK177821-1	07/10/98	07/10/98	5.81	PH UNITS			
NA	QCBLK179052-1	pH	C-006	QCBLK179052-1	07/22/98	07/22/98	6.11	PH UNITS			

Category: TOX
Method: EPA 9020
Matrix: Soil

Sample Date : 07/02/98
Receipt Date : 07/03/98
Report Date : 07/31/98

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
ASH 2-SL-009/MC1B	18285-001	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	60.7	UG/G	U	60.7	1
ASH 2-SL-010/MC2B	18285-002	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	50.2	UG/G	U	50.2	1
ASH2-SL-011/MC3B	18285-003	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	66.2	UG/G	U	66.2	1
ASH2-SL-012/MC4B	18285-004	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	64.8	UG/G	U	64.8	1
ASH2-SL-013/MC5B	18285-005	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	43.9	UG/G	U	43.9	1
ASH2-SL-014/MC 6B	18290-001	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	73.4	UG/G	U	73.4	1
ASH2-SL-015/MC 7B	18290-002	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	73.2	UG/G	U	73.2	1
ASH2-SL-008/MC 8B	18290-003	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	74.1	UG/G	U	74.1	1
ASH2-SL-001/MC 1BH	18290-004	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	58.4	UG/G	U	58.4	1
ASH2-SL-002	18302-001	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	61.1	UG/G	U	61.1	1
ASH2-SL-003	18302-002	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	61.2	UG/G	U	61.2	1
ASH2-SL-004	18302-003	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	63.9	UG/G	U	63.9	1
ASH2-SL-007	18302-004	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	59.8	UG/G	U	59.8	1
ASH2-SL-005	18302-005	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	62.9	UG/G	U	62.9	1
ASH2-SL-016	18306-001	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	74.3	UG/G	U	74.3	1
ASH2-SL-016	18306-001DUP	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	74.5	UG/G	U	74.5	1
ASH2-SL-016	18306-001MS	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	109	%REC			1
ASH2-SL-006	18306-002	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	51.0	UG/G	U	51.0	1
NA	QCBLK178698-1	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	51.0	UG/G	U	51.0	1
NA	QCCLCS178698-1	TOX	59473-04-0	QCBLK178698-1	07/20/98	07/20/98	104	%REC			1

Category: REACTIVITY-SULFIDE
Method: EPA 9030
Matrix: Soil

Sample Date : 07/02/98
Receipt Date : 07/03/98
Report Date : 07/31/98

Sample	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
ASH 2-SL-009/WC1B	18285-001	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
ASH 2-SL-010/WC2B	18285-002	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
ASH2-SL-011/WC3B	18285-003	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
ASH2-SL-012/WC4B	18285-004	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
ASH2-SL-013/WC5B	18285-005	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
ASH2-SL-014/WC 6B	18290-001	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
ASH2-SL-015/WC 7B	18290-002	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
ASH2-SL-008/WC 8B	18290-003	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
ASH2-SL-001/WC 1BH	18290-004	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
ASH2-SL-002	18302-001	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
ASH2-SL-003	18302-002	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
ASH2-SL-004	18302-003	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
ASH2-SL-007	18302-004	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
ASH2-SL-005	18302-005	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
ASH2-SL-016	18306-001	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
ASH2-SL-016	18306-001DUP	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
ASH2-SL-006	18306-002	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	22.2	MG/KG	U	22.2	1
NA	QCBLK179636-1	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	4.44	MG/KG	U	4.44	1
NA	QCCLCS179636-1	Reactive Sulfid	18496-25-8A	QCBLK179636-1	07/29/98	07/29/98	93	%REC			1

Category: REACTIVITY
Method: EPA 9010
Matrix: Soil

Sample Date : 07/02/98
Receipt Date : 07/03/98
Report Date : 07/31/98

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
ASH 2-SL-009/WC1B	18285-001	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
ASH 2-SL-010/WC2B	18285-002	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
ASH2-SL-011/WC3B	18285-003	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
ASH2-SL-012/WC4B	18285-004	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
ASH2-SL-013/WC5B	18285-005	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
ASH2-SL-014/WC 6B	18290-001	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
ASH2-SL-015/WC 7B	18290-002	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
ASH2-SL-018/WC 8B	18290-003	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
ASH2-SL-001/WC 1BH	18290-004	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
ASH2-SL-002	18302-001	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
ASH2-SL-003	18302-002	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
ASH2-SL-004	18302-003	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
ASH2-SL-007	18302-004	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
ASH2-SL-005	18302-005	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
ASH2-SL-016	18306-001	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
ASH2-SL-016	18306-001DUP	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
ASH2-SL-006	18306-002	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.050	MG/KG	U	0.050	1
NA	QCBLK179633-1	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	0.010	MG/KG	U	0.010	1
NA	QCCLCS179633-1	Reactive Cyanid	57-12-5A	QCBLK179633-1	07/29/98	07/29/98	17	REC			1

Category: CYANIDE
Method: EPA 9010
Matrix: Soil

Sample Date : 07/02/98
Receipt Date : 07/03/98
Report Date : 07/31/98

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
ASH 2-SL-009/WC1B	18285-001	Cyanide	57-12-5	QCBLK177582-1	07/09/98	07/11/98	0.74	UG/G	U	0.74	1
ASH 2-SL-010/WC2B	18285-002	Cyanide	57-12-5	QCBLK177582-1	07/09/98	07/11/98	0.66	UG/G	U	0.66	1
ASH2-SL-011/WC3B	18285-003	Cyanide	57-12-5	QCBLK177582-1	07/09/98	07/11/98	0.66	UG/G	U	0.66	1
ASH2-SL-012/WC4B	18285-004	Cyanide	57-12-5	QCBLK177582-1	07/09/98	07/11/98	0.92	UG/G		0.74	1
ASH2-SL-013/WC5B	18285-005	Cyanide	57-12-5	QCBLK177582-1	07/09/98	07/11/98	0.70	UG/G		0.57	1
ASH2-SL-014/WC 6B	18290-001	Cyanide	57-12-5	QCBLK177827-1	07/13/98	07/17/98	0.71	UG/G	U	0.71	1
ASH2-SL-015/WC 7B	18290-002	Cyanide	57-12-5	QCBLK177827-1	07/13/98	07/17/98	0.80	UG/G	U	0.80	1
ASH2-SL-008/WC 8B	18290-003	Cyanide	57-12-5	QCBLK177827-1	07/13/98	07/17/98	0.84	UG/G	U	0.84	1
ASH2-SL-001/WC 1BH	18290-004	Cyanide	57-12-5	QCBLK177827-1	07/13/98	07/17/98	0.59	UG/G	U	0.59	1
ASH2-SL-002	18302-001	Cyanide	57-12-5	QCBLK178302-1	07/14/98	07/18/98	0.64	UG/G	U	0.64	1
ASH2-SL-003	18302-002	Cyanide	57-12-5	QCBLK178302-1	07/14/98	07/18/98	2.42	UG/G		0.59	1
ASH2-SL-004	18302-003	Cyanide	57-12-5	QCBLK178302-1	07/14/98	07/18/98	1.06	UG/G		0.64	1
ASH2-SL-007	18302-004	Cyanide	57-12-5	QCBLK178302-1	07/14/98	07/18/98	0.57	UG/G	U	0.57	1
ASH2-SL-005	18302-005	Cyanide	57-12-5	QCBLK178302-1	07/14/98	07/18/98	0.59	UG/G	U	0.59	1
ASH2-SL-016	18306-001	Cyanide	57-12-5	QCBLK178302-1	07/14/98	07/18/98	0.77	UG/G	U	0.77	1
ASH2-SL-016	18306-001DUP	Cyanide	57-12-5	QCBLK178302-1	07/14/98	07/18/98	0.70	UG/G	U	0.70	1
ASH2-SL-016	18306-001MS	Cyanide	57-12-5	QCBLK178302-1	07/14/98	07/18/98	89	%REC			1
ASH2-SL-006	18306-002	Cyanide	57-12-5	QCBLK178302-1	07/14/98	07/18/98	0.56	UG/G	U	0.56	1
NA	QCBLK177582-1	Cyanide	57-12-5	QCBLK177582-1	07/09/98	07/11/98	0.50	UG/G	U	0.50	1
NA	QCLCS177582-1	Cyanide	57-12-5	QCBLK177582-1	07/09/98	07/11/98	98	%REC			1
NA	QCBLK177827-1	Cyanide	57-12-5	QCBLK177827-1	07/13/98	07/17/98	0.50	UG/G	U	0.50	1
NA	QCBLK178302-1	Cyanide	57-12-5	QCBLK178302-1	07/14/98	07/18/98	0.50	UG/G	U	0.50	1
NA	QCLCS177827-1	Cyanide	57-12-5	QCBLK177827-1	07/13/98	07/17/98	97	%REC			1
NA	QCLCS178302-1	Cyanide	57-12-5	QCBLK178302-1	07/14/98	07/18/98	102	%REC			1

Category: CYANIDE
Method: EPA 9010
Matrix: Soil

Sample Date : NA
Receipt Date : NA
Report Date : 07/31/98

Client ID	Quanterra ID	Analyte	CAS Number	Blank Sample Name	Prep. Date	Analyses Date	Result	Unit	Qual.	Detection Limit	Dil.
NA	QCBLK177582-1	Cyanide, Amenab	57-12-5B	QCBLK177582-1	07/09/98	07/11/98	0.50	UG/G	U	0.50	1
NA	QCLCS177582-1	Cyanide, Amenab	57-12-5B	QCBLK177582-1	07/09/98	07/11/98	98	%REC			1
ASH 2-SL-009/WC1B	18285-001	Cyanide, Amenab	57-12-5B	QCBLK177582-1	07/09/98	07/11/98	0.72	UG/G	U	0.72	1
ASH 2-SL-010/WC2B	18285-002	Cyanide, Amenab	57-12-5B	QCBLK177582-1	07/09/98	07/11/98	0.65	UG/G	U	0.65	1
ASH2-SL-011/WC3B	18285-003	Cyanide, Amenab	57-12-5B	QCBLK177582-1	07/09/98	07/11/98	0.66	UG/G	U	0.66	1
ASH2-SL-012/WC4B	18285-004	Cyanide, Amenab	57-12-5B	QCBLK177582-1	07/09/98	07/11/98	0.92	UG/G		0.73	1
ASH2-SL-013/WC5B	18285-005	Cyanide, Amenab	57-12-5B	QCBLK177582-1	07/09/98	07/11/98	0.70	UG/G		0.56	1
ASH2-SL-014/WC 6B	18290-001	Cyanide, Amenab	57-12-5B	QCBLK177827-1	07/13/98	07/17/98	0.72	UG/G	U	0.72	1
ASH2-SL-015/WC 7B	18290-002	Cyanide, Amenab	57-12-5B	QCBLK177827-1	07/13/98	07/17/98	0.78	UG/G	U	0.78	1
ASH2-SL-008/WC 8B	18290-003	Cyanide, Amenab	57-12-5B	QCBLK177827-1	07/13/98	07/17/98	0.81	UG/G	U	0.81	1
ASH2-SL-001/WC 1BH	18290-004	Cyanide, Amenab	57-12-5B	QCBLK177827-1	07/13/98	07/17/98	0.59	UG/G	U	0.59	1
ASH2-SL-002	18302-001	Cyanide, Amenab	57-12-5B	QCBLK178302-1	07/14/98	07/18/98	0.68	UG/G	U	0.68	1
ASH2-SL-003	18302-002	Cyanide, Amenab	57-12-5B	QCBLK178302-1	07/14/98	07/18/98	2.42	UG/G		0.60	1
ASH2-SL-004	18302-003	Cyanide, Amenab	57-12-5B	QCBLK178302-1	07/14/98	07/18/98	1.06	UG/G		0.66	1
ASH2-SL-007	18302-004	Cyanide, Amenab	57-12-5B	QCBLK178302-1	07/14/98	07/18/98	0.62	UG/G	U	0.62	1
ASH2-SL-005	18302-005	Cyanide, Amenab	57-12-5B	QCBLK178302-1	07/14/98	07/18/98	0.60	UG/G	U	0.60	1
ASH2-SL-016	18306-001	Cyanide, Amenab	57-12-5B	QCBLK178302-1	07/14/98	07/18/98	0.72	UG/G	U	0.72	1
ASH2-SL-016	18306-001DUP	Cyanide, Amenab	57-12-5B	QCBLK178302-1	07/14/98	07/18/98	0.77	UG/G	U	0.77	1
ASH2-SL-016	18306-001MS	Cyanide, Amenab	57-12-5B	QCBLK178302-1	07/14/98	07/18/98	0.69	UG/G	U	0.69	1
ASH2-SL-006	18306-002	Cyanide, Amenab	57-12-5B	QCBLK178302-1	07/14/98	07/18/98	0.54	UG/G	U	0.54	1
NA	QCBLK177827-1	Cyanide, Amenab	57-12-5B	QCBLK177827-1	07/13/98	07/17/98	0.50	UG/G	U	0.50	1
NA	QCBLK178302-1	Cyanide, Amenab	57-12-5B	QCBLK178302-1	07/14/98	07/18/98	0.50	UG/G	U	0.50	1
NA	QCLCS177827-1	Cyanide, Amenab	57-12-5B	QCBLK177827-1	07/13/98	07/17/98	97	%REC			1
NA	QCLCS178302-1	Cyanide, Amenab	57-12-5B	QCBLK178302-1	07/14/98	07/18/98	102	%REC			1

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18388

	EPA SAMPLE NO.	S1 (BFB) #	S2 (DFM) #	S3 (TOL) #	OTHER	TOT OUT
01	TRIPBLK	98	103	108		0
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
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17						
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22						
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24						
25						
26						
27						
28						
29						
30						

S1 (BFB) = 4-Bromofluorobenzene QC LIMITS (80-120)
 S2 (DFM) = Dibromofluoromethane (80-120)
 S3 (TOL) = Toluene-d8 (80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18388

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (BFB) #	S2 (DFM) #	S3 (TOL) #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	VBLKE202A	94	106	108		0
02	VLCSE202A	92	105	105		0
03	ASH2SL018	118	110	118		0
04						
05						
06						
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29						
30						

QC LIMITS

S1 (BFB) = 4-Bromofluorobenzene (74-121)
 S2 (DFM) = Dibromofluoromethane (80-120)
 S3 (TOL) = Toluene-d8 (80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: QUANTERRA MO Contract: 798.02
 Lab Code: ITMO Case No.: SAS No.: SDG No.: 18388
 Lab File ID: EBLK3539 Lab Sample ID: QCBLK178968
 Date Analyzed: 07/21/98 Time Analyzed: 1434
 Matrix: (soil/water) SOIL Level: (low/med) LOW
 Instrument ID: MSE

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	-----	-----	-----	-----
01	VLCSE202A	QCLCS178968	ELCS3540	1509
02	ASH2SL018	18388-001	ESMP3551	2140
03	TRIPBLK	18388-002	ESMP3552	2214
04				
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COMMENTS:

9A
VOLATILE SPIKE RECOVERY

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18388

EPA Sample No.: VLCSE202A

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
11 1,1-Dichloroethene	50.00	48.32	96.64	1-234
42 Trichloroethene	50.00	52.62	105.25	71-157
40 Benzene	50.00	51.82	103.63	37-151
52 Toluene	50.00	52.02	104.03	47-150
62 Chlorobenzene	50.00	52.64	105.29	37-160

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.00	52.45	104.91	0-120
\$ 51 Toluene-d8	50.00	52.46	104.92	0-120
\$ 73 4-Bromofluorobenze	50.00	46.03	92.06	0-121

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKE202A

Lab Name: QUANTERFA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18388

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK178968

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: EBLK3539

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/21/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	6	J
67-64-1-----	Acetone	48	
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Chlorodibromomethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
108-88-3-----	Toluene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylenes (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKE202A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18388

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK178968

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: EBLK3539

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/21/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	Unknown	2.242	46	J
2.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCSE202A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18388

Matrix: (soil/water) SOIL

Lab Sample ID: QCLCS178968

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: ELCS3540

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/21/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	48	
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	JB
67-64-1	Acetone	46	B
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	48	
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	50	
107-06-2	1,2-Dichloroethane	53	
78-93-3	2-Butanone	56	
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	54	
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	53	
124-48-1	Chlorodibromomethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	52	
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	53	
108-88-3	Toluene	52	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	53	
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylenes (total)	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ASH2SL018

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18388

Matrix: (soil/water) SOIL

Lab Sample ID: 18388-001

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: ESMP3551

Level: (low/med) LOW

Date Received: 07/17/98

% Moisture: not dec. 21

Date Analyzed: 07/21/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
---------	----------	---	---

74-87-3-----	Chloromethane	13	U
74-83-9-----	Bromomethane	13	U
75-01-4-----	Vinyl Chloride	13	U
75-00-3-----	Chloroethane	6	J
75-09-2-----	Methylene Chloride	13	U
67-64-1-----	Acetone	13	U
75-15-0-----	Carbon Disulfide	13	U
75-35-4-----	1,1-Dichloroethene	13	U
75-34-3-----	1,1-Dichloroethane	13	U
540-59-0-----	1,2-Dichloroethene (total)	13	U
67-66-3-----	Chloroform	13	U
107-06-2-----	1,2-Dichloroethane	13	U
78-93-3-----	2-Butanone	13	U
71-55-6-----	1,1,1-Trichloroethane	13	U
56-23-5-----	Carbon Tetrachloride	13	U
75-27-4-----	Bromodichloromethane	13	U
78-87-5-----	1,2-Dichloropropane	13	U
10061-01-5-----	cis-1,3-Dichloropropene	13	U
79-01-6-----	Trichloroethene	13	U
124-48-1-----	Chlorodibromomethane	13	U
79-00-5-----	1,1,2-Trichloroethane	13	U
71-43-2-----	Benzene	13	U
10061-02-6-----	trans-1,3-Dichloropropene	13	U
75-25-2-----	Bromoform	13	U
108-10-1-----	4-Methyl-2-pentanone	13	U
591-78-6-----	2-Hexanone	13	U
127-18-4-----	Tetrachloroethene	13	U
108-88-3-----	Toluene	3	J
79-34-5-----	1,1,2,2-Tetrachloroethane	13	U
108-90-7-----	Chlorobenzene	13	U
100-41-4-----	Ethylbenzene	13	U
100-42-5-----	Styrene	13	U
1330-20-7-----	Xylenes (total)	13	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ASH2SL018

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18388

Matrix: (soil/water) SOIL

Lab Sample ID: 18388-001

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: ESMP3551

Level: (low/med) LOW

Date Received: 07/17/98

% Moisture: not dec. 21

Date Analyzed: 07/21/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.800	12	J
2. 16848-76-3	.alpha.-D-Erythro-Hexopyrano	2.896	6	NJ
3.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLK

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18388

Matrix: (soil/water) WATER

Lab Sample ID: 18388-002

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: ESMP3552

Level: (low/med) LOW

Date Received: 07/17/98

% Moisture: not dec. _____

Date Analyzed: 07/21/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
---------	----------	--	---

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	3	JB
67-64-1-----	Acetone	10	B
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Chlorodibromomethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
108-88-3-----	Toluene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylenes (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIPBLK

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18388

Matrix: (soil/water) WATER

Lab Sample ID: 18388-002

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: ESMP3552

Level: (low/med) LOW

Date Received: 07/17/98

% Moisture: not dec. _____

Date Analyzed: 07/21/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.824	7	J
2.				
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Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

	EPA SAMPLE NO.	S1 (BFB) #	S2 (DFM) #	S3 (TOL) #	OTHER	TOT OUT
	-----	-----	-----	-----	-----	-----
01	TB001	91	114	101		0
02	TB002	90	112	100		0
03						
04						
05						
06						
07						
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QC LIMITS
 S1 (BFB) = 4-Bromofluorobenzene (80-120)
 S2 (DFM) = Dibromofluoromethane (80-120)
 S3 (TOL) = Toluene-d8 (80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (BFB) #	S2 (DFM) #	S3 (TOL) #	OTHER	TOT OUT
	-----	-----	-----	-----	-----	---
01	VELKB192A	83	101	95		0
02	VLCSB192A	81	107	91		0
03	009WC1B	112	151*	101		1
04	010WC2B	108	144*	93		1
05	011WC3B	105	141*	93		1
06	VELKB193A	85	105	100		0
07	VLCSB193A	94	118	104		0
08	009WC1BRE	116	140*	104		1
09	010WC2BRE	116	137*	104		1
10	011WC3BRE	127*	141*	109		2
11	012WC4B	119	141*	115		1
12	013WC5B	111	139*	113		1
13	014WC6B	125*	127*	125*		3
14	015WC7B	105	122*	105		1
15	008WC8B	117	142*	104		1
16	001WC1BH	118	141*	123*		2
17	VELKB194A	88	106	101		0
18	VLCSB194A	84	106	93		0
19	012WC4BRE	114	131*	115		1
20	013WC5BRE	98	124*	103		1
21	014WC6BRE	114	129*	112		1
22	015WC7BRE	104	122*	106		1
23	008WC8BRE	103	127*	101		1
24	001WC1BHRE	98	123*	105		1
25	VELKB197A	95	111	108		0
26	VLCSB197A	94	108	100		0
27	SL003	109	149*	116		1
28	SL005	117	136*	117		1
29	SL016MS	120	135*	119		1
30	SL016MSD	106	131*	106		1

QC LIMITS

S1 (BFB) = 4-Bromofluorobenzene (74-121)
 S2 (DFM) = Dibromofluoromethane (80-120)
 S3 (TOL) = Toluene-d8 (80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (BFB) #	S2 (DFM) #	S3 (TOL) #	OTHER	TOT OUT
01	VLCSEB198A	91	106	98		0
02	VBLKB198A	90	107	102		0
03	SL002	101	112	107		0
04	SL003RE	131*	159*	127*		3
05	SL004	90	112	97		0
06	SL007	90	109	98		0
07	SL005RE	115	124*	123*		2
08	SL016	101	135*	97		1
09	VBLKE201A	95	113	114		0
10	VLCSE201A	95	113	115		0
11	SL006	105	116	118		0
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S1 (BFB) = 4-Bromofluorobenzene (74-121)
 S2 (DFM) = Dibromofluoromethane (80-120)
 S3 (TOL) = Toluene-d8 (80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix Spike - EPA Sample No.: SL016

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	78.12	0.0000	117.8	151	1-234
Trichloroethene	78.12	0.0000	80.93	104	71-157
Benzene	78.12	0.0000	92.68	119	37-151
Toluene	78.12	116.4	1281	1491*	47-150
Chlorobenzene	78.12	0.0000	82.92	106	37-160

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS	
					RPD	REC.
1,1-Dichloroethene	78.12	112.2	144	5	22	1-234
Trichloroethene	78.12	78.54	100	4	24	71-157
Benzene	78.12	87.00	111	7	21	37-151
Toluene	78.12	1029	1168*	24*	21	47-150
Chlorobenzene	78.12	77.54	99	7	21	37-160

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 5 outside limits

Spike Recovery: 2 out of 10 outside limits

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Lab File ID: BBLK4343

Lab Sample ID: QCBLK177912

Date Analyzed: 07/11/98

Time Analyzed: 1617

Matrix: (soil/water) SOIL

Level: (low/med) LOW

Instrument ID: MSB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCSB192A	QCLCS177912	BLCS4344	1648
02	009WC1B	18285-001	BSMP4357	0133
03	010WC2B	18285-002	BSMP4358	0204
04	011WC3B	18285-003	BSMP4359	0235
05				
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COMMENTS:

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Lab File ID: BBLK4364

Lab Sample ID: QCBLK177914

Date Analyzed: 07/12/98

Time Analyzed: 1004

Matrix: (soil/water) SOIL

Level: (low/med) LOW

Instrument ID: MSB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCSB193A	QCLCS177914	BLCS4365	1035
02	009WC1BRE	18285-001 RE	BSMP4373	1457
03	010WC2BRE	18285-002 RE	BSMP4374	1528
04	011WC3BRE	18285-003 RE	BSMP4375	1703
05	012WC4B	18285-004	BSMP4376	1734
06	013WC5B	18285-005	BSMP4377	1805
07	014WC6B	18290-001	BSMP4378	1837
08	015WC7B	18290-002	BSMP4379	1908
09	008WC8B	18290-003	BSMP4380	1940
10	001WC1BH	18290-004	BSMP4381	2011
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COMMENTS:

VOLATILE METHOD BLANK SUMMARY

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Lab File ID: BBLK4384

Lab Sample ID: QCBLK177972

Date Analyzed: 07/13/98

Time Analyzed: 0936

Matrix: (soil/water) SOIL

Level: (low/med) LOW

Instrument ID: MSB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	-----	-----	-----	-----
01	VLCSB194A	QCLCS177972	BLCS4387	1130
02	012WC4BRE	18285-004 RE	BSMP4388	1201
03	013WC5BRE	18285-005 RE	BSMP4389	1232
04	014WC6BRE	18290-001 RE	BSMP4390	1304
05	015WC7BRE	18290-002 RE	BSMP4391	1335
06	008WC8BRE	18290-003 RE	BSMP4392	1406
07	001WC1BHRE	18290-004 RE	BSMP4393	1438
08				
09				
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COMMENTS:

VOLATILE METHOD BLANK SUMMARY

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Lab File ID: BBLK4484

Lab Sample ID: QCBLK178594

Date Analyzed: 07/16/98

Time Analyzed: 0751

Matrix: (soil/water) SOIL

Level: (lcw/med) LOW

Instrument ID: MSB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	-----	-----	-----	-----
01	VLCSB197A	QCLCS178594	BLCS4485	0822
02	TB001	18306-003	BSMP4491	1144
03	TB002	18306-004	BSMP4492	1215
04	SL003	18302-002	BSMP4498	1523
05	SL005	18302-005	BSMP4501	1657
06	SL016MS	18306-001 MS	BSMP4503	1800
07	SL016MSD	18306-001 MSD	BSMP4504	1831
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COMMENTS:

VOLATILE METHOD BLANK SUMMARY

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Lab File ID: BBLK4512

Lab Sample ID: QCBLK178618

Date Analyzed: 07/17/98

Time Analyzed: 1129

Matrix: (soil/water) SOIL

Level: (low/med) LOW

Instrument ID: MSB

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	-----	-----	-----	-----
01	VLCSB198A	QCLCS178618	BLCS4511	1049
02	SL002	18302-001	BSMP4520	1550
03	SL003RE	18302-002 RE	BSMP4521	1621
04	SL004	18302-003	BSMP4522	1653
05	SL007	18302-004	BSMP4523	1724
06	SL005RE	18302-005 RE	BSMP4524	1755
07	SL016	18306-001	BSMP4525	1826
08				
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COMMENTS:

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Lab File ID: EBLK3514

Lab Sample ID: QCBLK178938

Date Analyzed: 07/20/98

Time Analyzed: 1346

Matrix: (soil/water) SOIL

Level: (low/med) LOW

Instrument ID: MSE

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	*****	*****	*****	*****
01	VLCSE201A	QCLCS178938	ELCS3519	1647
02	SL006	18306-002	ESMP3520	1722
03				
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COMMENTS:

VOLATILE SPIKE RECOVERY

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

EPA Sample No.: VLCSB192A

PIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
11 1,1-Dichloroethene	50.00	61.10	122.21	1-234
42 Trichloroethene	50.00	58.24	116.48	71-157
40 Benzene	50.00	57.26	114.52	37-151
52 Toluene	50.00	53.22	106.43	47-150
62 Chlorobenzene	50.00	52.27	104.54	37-160

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
32 Dibromofluorometha	50.00	53.52	107.04	0-120
51 Toluene-d8	50.00	45.41	90.82	0-120
73 4-Bromofluorobenze	50.00	40.69	81.38	0-121

VOLATILE SPIKE RECOVERY

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

EPA Sample No.: VLCSB194A

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
11 1,1-Dichloroethene	50.00	71.65	143.30	1-234
42 Trichloroethene	50.00	54.82	109.64	71-157
40 Benzene	50.00	54.32	108.64	37-151
52 Toluene	50.00	51.43	102.85	47-150
62 Chlorobenzene	50.00	49.24	98.47	37-160

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.00	52.92	105.83	80-120
\$ 37 1,2-Dichloroethane	50.00	54.89	109.79	80-120
\$ 51 Toluene-d8	50.00	46.57	93.14	80-120
\$ 73 4-Bromofluorobenze	50.00	41.94	83.88	80-120

VOLATILE SPIKE RECOVERY

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

EPA Sample No.: VLCSB197A

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
11 1,1-Dichloroethene	50.00	67.23	134.47	1-234
42 Trichloroethene	50.00	54.43	108.86	71-157
40 Benzene	50.00	56.62	113.25	37-151
52 Toluene	50.00	53.49	106.99	47-150
62 Chlorobenzene	50.00	50.87	101.73	37-160

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.00	54.25	108.50	80-120
\$ 37 1,2-Dichloroethane	50.00	58.04	116.08	80-120
\$ 51 Toluene-d8	50.00	50.29	100.59	80-120
\$ 73 4-Bromofluorobenze	50.00	46.80	93.60	80-120

VOLATILE SPIKE RECOVERY

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

EPA Sample No.: VLCSB198A

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
11 1,1-Dichloroethene	50.00	62.20	124.41	1-234
42 Trichloroethene	50.00	50.56	101.12	71-157
40 Benzene	50.00	52.27	104.55	37-151
52 Toluene	50.00	50.00	100.01	47-150
62 Chlorobenzene	50.00	46.92	93.84	37-160

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.00	53.24	106.49	0-120
\$ 51 Toluene-d8	50.00	49.24	98.48	0-120
\$ 73 4-Bromofluorobenze	50.00	45.32	90.64	0-121

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

EPA Sample No.: VLCSE201A

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
11 1,1-Dichloroethene	50.00	97.26	194.52	1-234
42 Trichloroethene	50.00	71.45	142.90	71-157
40 Benzene	50.00	75.91	151.82*	37-151
52 Toluene	50.00	75.26	150.53*	47-150
62 Chlorobenzene	50.00	67.10	134.21	37-160

SURROGATE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
\$ 32 Dibromofluorometha	50.00	56.52	113.04	0-120
\$ 51 Toluene-d8	50.00	57.62	115.23	0-120
\$ 73 4-Bromofluorobenze	50.00	47.53	95.07	0-121

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLKB192A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK177912

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BBLK4343

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/11/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/Kg	
74-87-3	-----Chloromethane	10		U
74-83-9	-----Bromomethane	10		U
75-01-4	-----Vinyl Chloride	10		U
75-00-3	-----Chloroethane	10		U
75-09-2	-----Methylene Chloride	1		J
67-64-1	-----Acetone	19		
75-15-0	-----Carbon Disulfide	10		U
75-35-4	-----1,1-Dichloroethene	10		U
75-34-3	-----1,1-Dichloroethane	10		U
540-59-0	-----1,2-Dichloroethene (total)	10		U
67-66-3	-----Chloroform	10		U
107-06-2	-----1,2-Dichloroethane	10		U
78-93-3	-----2-Butanone	10		U
71-55-6	-----1,1,1-Trichloroethane	10		U
56-23-5	-----Carbon Tetrachloride	10		U
75-27-4	-----Bromodichloromethane	10		U
78-87-5	-----1,2-Dichloropropane	10		U
10061-01-5	-----cis-1,3-Dichloropropene	10		U
79-01-6	-----Trichloroethene	10		U
124-48-1	-----Chlorodibromomethane	10		U
79-00-5	-----1,1,2-Trichloroethane	10		U
71-43-2	-----Benzene	10		U
10061-02-6	-----trans-1,3-Dichloropropene	10		U
75-25-2	-----Bromoform	10		U
108-10-1	-----4-Methyl-2-pentanone	10		U
591-78-6	-----2-Hexanone	10		U
127-18-4	-----Tetrachloroethene	10		U
108-88-3	-----Toluene	10		U
79-34-5	-----1,1,2,2-Tetrachloroethane	10		U
108-90-7	-----Chlorobenzene	10		U
100-41-4	-----Ethylbenzene	10		U
100-42-5	-----Styrene	10		U
1330-20-7	-----Xylenes (total)	10		U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLKB192A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK177912

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BBLK4343

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/11/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.871	6	J
2.				
3.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

VLCSB192A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCLCS177912

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BLCS4344

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/11/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	28	
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	JB
67-64-1-----	Acetone	27	B
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	61	
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	56	
107-06-2-----	1,2-Dichloroethane	61	
78-93-3-----	2-Butanone	89	
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	66	
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	58	
124-48-1-----	Chlorodibromomethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	57	
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	54	
108-88-3-----	Toluene	53	
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-90-7-----	Chlorobenzene	52	
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylenes (total)	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

009WC1B

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-001

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4357

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 32

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
---------	----------	---	---

74-87-3-----	Chloromethane	15	U
74-83-9-----	Bromomethane	15	U
75-01-4-----	Vinyl Chloride	15	U
75-00-3-----	Chloroethane	15	U
75-09-2-----	Methylene Chloride	2	JB
67-64-1-----	Acetone	28	B
75-15-0-----	Carbon Disulfide	15	U
75-35-4-----	1,1-Dichloroethene	15	U
75-34-3-----	1,1-Dichloroethane	15	U
540-59-0-----	1,2-Dichloroethene (total)	15	U
67-66-3-----	Chloroform	15	U
107-06-2-----	1,2-Dichloroethane	15	U
78-93-3-----	2-Butanone	15	U
71-55-6-----	1,1,1-Trichloroethane	15	U
56-23-5-----	Carbon Tetrachloride	15	U
75-27-4-----	Bromodichloromethane	15	U
78-87-5-----	1,2-Dichloropropane	15	U
10061-01-5-----	cis-1,3-Dichloropropene	15	U
79-01-6-----	Trichloroethene	15	U
124-48-1-----	Chlorodibromomethane	15	U
79-00-5-----	1,1,2-Trichloroethane	15	U
71-43-2-----	Benzene	15	U
10061-02-6-----	trans-1,3-Dichloropropene	15	U
75-25-2-----	Bromoform	15	U
108-10-1-----	4-Methyl-2-pentanone	15	U
591-78-6-----	2-Hexanone	15	U
127-18-4-----	Tetrachloroethene	15	U
108-88-3-----	Toluene	8	J
79-34-5-----	1,1,2,2-Tetrachloroethane	15	U
108-90-7-----	Chlorobenzene	15	U
100-41-4-----	Ethylbenzene	15	U
100-42-5-----	Styrene	15	U
1330-20-7-----	Xylenes (total)	15	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

009WC1B

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-001

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4357

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 32

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

010WC2B

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-002

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4358

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 24

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
			Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl Chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene Chloride	13	U
67-64-1	Acetone	27	B
75-15-0	Carbon Disulfide	13	U
75-35-4	1,1-Dichloroethene	13	U
75-34-3	1,1-Dichloroethane	13	U
540-59-0	1,2-Dichloroethene (total)	13	U
67-66-3	Chloroform	13	U
107-06-2	1,2-Dichloroethane	13	U
78-93-3	2-Butanone	13	U
71-55-6	1,1,1-Trichloroethane	13	U
56-23-5	Carbon Tetrachloride	13	U
75-27-4	Bromodichloromethane	13	U
78-87-5	1,2-Dichloropropane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
79-01-6	Trichloroethene	13	U
124-48-1	Chlorodibromomethane	13	U
79-00-5	1,1,2-Trichloroethane	13	U
71-43-2	Benzene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
75-25-2	Bromoform	13	U
108-10-1	4-Methyl-2-pentanone	13	U
591-78-6	2-Hexanone	13	U
127-18-4	Tetrachloroethene	13	U
108-88-3	Toluene	99	
79-34-5	1,1,2,2-Tetrachloroethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
100-42-5	Styrene	13	U
1330-20-7	Xylenes (total)	13	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

010WC2B

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-002

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4358

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 24

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.802	13	JB
2.	Unknown	23.354	11	J
3.	Unknown	24.085	10	J
4. 112-31-2	Decanal	24.520	11	NJ
5.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

011WC3B

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-003

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4359

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 27

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	7	JB
67-64-1	Acetone	30	B
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
75-34-3	1,1-Dichloroethane	14	U
540-59-0	1,2-Dichloroethene (total)	14	U
67-66-3	Chloroform	14	U
107-06-2	1,2-Dichloroethane	14	U
78-93-3	2-Butanone	14	U
71-55-6	1,1,1-Trichloroethane	14	U
56-23-5	Carbon Tetrachloride	14	U
75-27-4	Bromodichloromethane	14	U
78-87-5	1,2-Dichloropropane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
79-01-6	Trichloroethene	14	U
124-48-1	Chlorodibromomethane	14	U
79-00-5	1,1,2-Trichloroethane	14	U
71-43-2	Benzene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
75-25-2	Bromoform	14	U
108-10-1	4-Methyl-2-pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
108-88-3	Toluene	8	J
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
100-42-5	Styrene	14	U
1330-20-7	Xylenes (total)	14	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

011WC3B

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-003

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4359

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 27

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.807	16	JB
2.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

VELKB193A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK177914

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BBLK4364

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	1	J
67-64-1-----	Acetone	19	
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Chlorodibromomethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
108-88-3-----	Toluene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylenes (total)	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLKB193A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK177914

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BBLK4364

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/Kg

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 128-37-0	Butylated Hydroxytoluene	24.451	12	NJ
2.				
3.				
4.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

VLCSB193A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCLCS177914

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BLCS4365

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	48	
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	2	JB
67-64-1-----	Acetone	25	B
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	78	
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	57	
107-06-2-----	1,2-Dichloroethane	61	
78-93-3-----	2-Butanone	60	
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	69	
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	61	
124-48-1-----	Chlorodibromomethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	60	
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	57	
108-88-3-----	Toluene	57	
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-90-7-----	Chlorobenzene	54	
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylenes (total)	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

009WC1RRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-001 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4373

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 32

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg Q

74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	3	JB
67-64-1	Acetone	19	B
75-15-0	Carbon Disulfide	15	U
75-35-4	1,1-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	15	U
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Chlorodibromomethane	15	U
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	15	U
108-88-3	Toluene	3	J
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylenes (total)	15	U

**VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

009WC1BRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-001 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4373

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 32

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

010WC2BRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-002 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4374

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 24

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/Kg	
74-87-3	Chloromethane	13		U
74-83-9	Bromomethane	13		U
75-01-4	Vinyl Chloride	13		U
75-00-3	Chloroethane	13		U
75-09-2	Methylene Chloride	3		JB
67-64-1	Acetone	28		B
75-15-0	Carbon Disulfide	13		U
75-35-4	1,1-Dichloroethene	13		U
75-34-3	1,1-Dichloroethane	13		U
540-59-0	1,2-Dichloroethene (total)	13		U
67-66-3	Chloroform	13		U
107-06-2	1,2-Dichloroethane	13		U
78-93-3	2-Butanone	13		U
71-55-6	1,1,1-Trichloroethane	13		U
56-23-5	Carbon Tetrachloride	13		U
75-27-4	Bromodichloromethane	13		U
78-87-5	1,2-Dichloropropane	13		U
10061-01-5	cis-1,3-Dichloropropene	13		U
79-01-6	Trichloroethene	13		U
124-48-1	Chlorodibromomethane	13		U
79-00-5	1,1,2-Trichloroethane	13		U
71-43-2	Benzene	13		U
10061-02-6	trans-1,3-Dichloropropene	13		U
75-25-2	Bromoform	13		U
108-10-1	4-Methyl-2-pentanone	13		U
591-78-6	2-Hexanone	13		U
127-18-4	Tetrachloroethene	13		U
108-88-3	Toluene	34		
79-34-5	1,1,2,2-Tetrachloroethane	13		U
108-90-7	Chlorobenzene	13		U
100-41-4	Ethylbenzene	13		U
100-42-5	Styrene	13		U
1330-20-7	Xylenes (total)	13		U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

010WC2BRE

Lab Name: QUANTERRA MO.

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-002 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4374

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 24

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
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27.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

011WC3BRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-003 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4375

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 27

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
---------	----------	---	---

74-87-3	-----Chloromethane	14	U
74-83-9	-----Bromomethane	14	U
75-01-4	-----Vinyl Chloride	14	U
75-00-3	-----Chloroethane	14	U
75-09-2	-----Methylene Chloride	14	U
67-64-1	-----Acetone	37	B
75-15-0	-----Carbon Disulfide	14	U
75-35-4	-----1,1-Dichloroethene	14	U
75-34-3	-----1,1-Dichloroethane	14	U
540-59-0	-----1,2-Dichloroethene (total)	14	U
67-66-3	-----Chloroform	14	U
107-06-2	-----1,2-Dichloroethane	14	U
78-93-3	-----2-Butanone	14	U
71-55-6	-----1,1,1-Trichloroethane	14	U
56-23-5	-----Carbon Tetrachloride	14	U
75-27-4	-----Bromodichloromethane	14	U
78-87-5	-----1,2-Dichloropropane	14	U
10061-01-5	-----cis-1,3-Dichloropropene	14	U
79-01-6	-----Trichloroethene	14	U
124-48-1	-----Chlorodibromomethane	14	U
79-00-5	-----1,1,2-Trichloroethane	14	U
71-43-2	-----Benzene	14	U
10061-02-6	-----trans-1,3-Dichloropropene	14	U
75-25-2	-----Bromoform	14	U
108-10-1	-----4-Methyl-2-pentanone	14	U
591-78-6	-----2-Hexanone	14	U
127-18-4	-----Tetrachloroethene	14	U
108-88-3	-----Toluene	10	J
79-34-5	-----1,1,2,2-Tetrachloroethane	14	U
108-90-7	-----Chlorobenzene	14	U
100-41-4	-----Ethylbenzene	14	U
100-42-5	-----Styrene	14	U
1330-20-7	-----Xylenes (total)	14	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

011WC3BRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-003 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4375

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 27

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	3.548	11	J
2.				
3.				
4.				
5.				
6.				
7.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

012WC4B

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-004

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4376

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 34

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	4	JB
67-64-1	Acetone	52	B
75-15-0	Carbon Disulfide	15	U
75-35-4	1,1-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	15	U
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Chlorodibromomethane	15	U
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	15	U
108-88-3	Toluene	200	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethylbenzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylenes (total)	15	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

012WC4B

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-004

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4376

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 34

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 4

CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	3.563	14	J
2.	Unknown	13.190	9	J
3. 505-18-0	Pyridine, 2,3,4,5-tetrahydro	15.279	8	NJ
4.	Unknown	24.471	13	J
5.				
6.				
7.				
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11.				
12.				
13.				
14.				
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27.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

013WC5B

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-005

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4377

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 18

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
---------	----------	---	---

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	3	JB
67-64-1-----	Acetone	41	B
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Chlorodibromomethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
108-88-3-----	Toluene	120	
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	2	J
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylenes (total)	12	J

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

013WC5B

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-005

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4377

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 18

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 9

CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown Alkane	19.145	13	J
2. 98-82-8	Benzene, (1-methylethyl) -	21.060	28	NJ
3.	Unknown Alkane	22.540	74	J
4. 2958-76-1	Naphthalene, decahydro-2-met	23.428	30	NJ
5. 527-53-7	Benzene, 1,2,3,5-tetramethyl	23.793	60	NJ
6. 933-98-2	Benzene, 1-ethyl-2,3-dimethy	24.281	88	NJ
7.	Unknown	24.646	49	J
8.	Unknown	24.803	27	J
9. 17851-27-3	Benzene, 1-ethyl-2,4,5-trime	24.942	44	NJ
10.				
11.				
12.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

014WC6B

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-001

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4378

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: not dec. 31

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg Q

74-87-3-----	Chloromethane	14	U
74-83-9-----	Bromomethane	14	U
75-01-4-----	Vinyl Chloride	14	U
75-00-3-----	Chloroethane	14	U
75-09-2-----	Methylene Chloride	3	JB
67-64-1-----	Acetone	39	B
75-15-0-----	Carbon Disulfide	14	U
75-35-4-----	1,1-Dichloroethene	14	U
75-34-3-----	1,1-Dichloroethane	14	U
540-59-0-----	1,2-Dichloroethene (total)	14	U
67-66-3-----	Chloroform	14	U
107-06-2-----	1,2-Dichloroethane	14	U
78-93-3-----	2-Butanone	14	U
71-55-6-----	1,1,1-Trichloroethane	14	U
56-23-5-----	Carbon Tetrachloride	14	U
75-27-4-----	Bromodichloromethane	14	U
78-87-5-----	1,2-Dichloropropane	14	U
10061-01-5-----	cis-1,3-Dichloropropene	14	U
79-01-6-----	Trichloroethene	14	U
124-48-1-----	Chlorodibromomethane	14	U
79-00-5-----	1,1,2-Trichloroethane	14	U
71-43-2-----	Benzene	14	U
10061-02-6-----	trans-1,3-Dichloropropene	14	U
75-25-2-----	Bromoform	14	U
108-10-1-----	4-Methyl-2-pentanone	14	U
591-78-6-----	2-Hexanone	14	U
127-18-4-----	Tetrachloroethene	14	U
108-88-3-----	Toluene	18	
79-34-5-----	1,1,2,2-Tetrachloroethane	14	U
108-90-7-----	Chlorobenzene	14	U
100-41-4-----	Ethylbenzene	14	U
100-42-5-----	Styrene	14	U
1330-20-7-----	Xylenes (total)	14	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

014WC6B

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-001

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4378

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: not dec. 31

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	13.224	15	J
2. 15790-88-2	2-Pentenoic acid, methyl est	15.296	8	NJ
3. 4889-83-2	Bicyclo[3.1.1]hept-2-ene, 3,	17.350	9	NJ
4. 138-86-3	Limonene	21.737	12	NJ
5. 934-80-5	Benzene, 4-ethyl-1,2-dimethy	24.296	9	NJ
6.	Unknown	24.818	12	J
7.	Unknown	25.463	11	J
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VOLATILE ORGANICS ANALYSIS DATA SHEET

015WC7B

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-002

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4379

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: not dec. 38

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3-----	Chloromethane	16	U
74-83-9-----	Bromomethane	16	U
75-01-4-----	Vinyl Chloride	16	U
75-00-3-----	Chloroethane	16	U
75-09-2-----	Methylene Chloride	4	JB
67-64-1-----	Acetone	47	B
75-15-0-----	Carbon Disulfide	16	U
75-35-4-----	1,1-Dichloroethene	16	U
75-34-3-----	1,1-Dichloroethane	16	U
540-59-0-----	1,2-Dichloroethene (total)	16	U
67-66-3-----	Chloroform	16	U
107-06-2-----	1,2-Dichloroethane	16	U
78-93-3-----	2-Butanone	16	U
71-55-6-----	1,1,1-Trichloroethane	16	U
56-23-5-----	Carbon Tetrachloride	16	U
75-27-4-----	Bromodichloromethane	16	U
78-87-5-----	1,2-Dichloropropane	16	U
10061-01-5-----	cis-1,3-Dichloropropene	16	U
79-01-6-----	Trichloroethene	16	U
124-48-1-----	Chlorodibromomethane	16	U
79-00-5-----	1,1,2-Trichloroethane	16	U
71-43-2-----	Benzene	16	U
10061-02-6-----	trans-1,3-Dichloropropene	16	U
75-25-2-----	Bromoform	16	U
108-10-1-----	4-Methyl-2-pentanone	16	U
591-78-6-----	2-Hexanone	16	U
127-18-4-----	Tetrachloroethene	16	U
108-88-3-----	Toluene	16	U
79-34-5-----	1,1,2,2-Tetrachloroethane	16	U
108-90-7-----	Chlorobenzene	16	U
100-41-4-----	Ethylbenzene	16	U
100-42-5-----	Styrene	16	U
1330-20-7-----	Xylenes (total)	16	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

015WC7B

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-002

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4379

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: not dec. 38

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 5

CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.836	16	J
2.	Unknown Alkane	23.371	13	J
3. 124-11-8	1-Nonene	24.102	10	NJ
4. 10339-60-3	3-Decen-1-ol, (E)-	24.554	13	NJ
5. 872-05-9	1-Decene	25.077	8	NJ
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VOLATILE ORGANICS ANALYSIS DATA SHEET

008WC8B

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-003

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4380

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: not dec. 41

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
---------	----------	---	---

74-87-3	Chloromethane	17	U
74-83-9	Bromomethane	17	U
75-01-4	Vinyl Chloride	17	U
75-00-3	Chloroethane	17	U
75-09-2	Methylene Chloride	9	JB
67-64-1	Acetone	41	B
75-15-0	Carbon Disulfide	17	U
75-35-4	1,1-Dichloroethene	17	U
75-34-3	1,1-Dichloroethane	17	U
540-59-0	1,2-Dichloroethene (total)	17	U
67-66-3	Chloroform	17	U
107-06-2	1,2-Dichloroethane	17	U
78-93-3	2-Butanone	17	U
71-55-6	1,1,1-Trichloroethane	17	U
56-23-5	Carbon Tetrachloride	17	U
75-27-4	Bromodichloromethane	17	U
78-87-5	1,2-Dichloropropane	17	U
10061-01-5	cis-1,3-Dichloropropene	17	U
79-01-6	Trichloroethene	17	U
124-48-1	Chlorodibromomethane	17	U
79-00-5	1,1,2-Trichloroethane	17	U
71-43-2	Benzene	17	U
10061-02-6	trans-1,3-Dichloropropene	17	U
75-25-2	Bromoform	17	U
108-10-1	4-Methyl-2-pentanone	17	U
591-78-6	2-Hexanone	17	U
127-18-4	Tetrachloroethene	17	U
108-88-3	Toluene	220	U
79-34-5	1,1,2,2-Tetrachloroethane	17	U
108-90-7	Chlorobenzene	17	U
100-41-4	Ethylbenzene	17	U
100-42-5	Styrene	17	U
1330-20-7	Xylenes (total)	17	U

**VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

008WC8B

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-003

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4380

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: not dec. 41

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 107-87-9	2-Pentanone	7.565	8	NJ
2.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

001WC1BH

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-004

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4381

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: not dec. 18

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	3	JB
67-64-1	Acetone	60	B
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Chlorodibromomethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-88-3	Toluene	100	
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylenes (total)	12	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

001WC1BH

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-004

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4381

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: not dec. 18

Date Analyzed: 07/12/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 138-86-3	Limonene	21.739	22	NJ
2.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLKB194A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK177972

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BBLK4384

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/13/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	4	J
67-64-1-----	Acetone	22	
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Chlorodibromomethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
108-88-3-----	Toluene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylenes (total)	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLKB194A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK177972

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BBLK4384

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/13/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

VLCSB194A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCLCS177972

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BLCS4387

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/13/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	65	
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	6	JB
67-64-1-----	Acetone	28	B
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	72	
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	52	
107-06-2-----	1,2-Dichloroethane	54	
78-93-3-----	2-Butanone	48	
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	64	
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	55	
124-48-1-----	Chlorodibromomethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	54	
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	53	
108-88-3-----	Toluene	51	
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-90-7-----	Chlorobenzene	49	
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylenes (total)	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

012WC4BRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-004 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4388

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 34

Date Analyzed: 07/13/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg Q

74-87-3-----	Chloromethane	15	U
74-83-9-----	Bromomethane	15	U
75-01-4-----	Vinyl Chloride	15	U
75-00-3-----	Chloroethane	15	U
75-09-2-----	Methylene Chloride	13	JB
67-64-1-----	Acetone	82	B
75-15-0-----	Carbon Disulfide	15	U
75-35-4-----	1,1-Dichloroethene	15	U
75-34-3-----	1,1-Dichloroethane	15	U
540-59-0-----	1,2-Dichloroethene (total)	15	U
67-66-3-----	Chloroform	15	U
107-06-2-----	1,2-Dichloroethane	15	U
78-93-3-----	2-Butanone	16	
71-55-6-----	1,1,1-Trichloroethane	15	U
56-23-5-----	Carbon Tetrachloride	15	U
75-27-4-----	Bromodichloromethane	15	U
78-87-5-----	1,2-Dichloropropane	15	U
10061-01-5-----	cis-1,3-Dichloropropene	15	U
79-01-6-----	Trichloroethene	15	U
124-48-1-----	Chlorodibromomethane	15	U
79-00-5-----	1,1,2-Trichloroethane	15	U
71-43-2-----	Benzene	15	U
10061-02-6-----	trans-1,3-Dichloropropene	15	U
75-25-2-----	Bromoform	15	U
108-10-1-----	4-Methyl-2-pentanone	15	U
591-78-6-----	2-Hexanone	15	U
127-18-4-----	Tetrachloroethene	15	U
108-88-3-----	Toluene	32	
79-34-5-----	1,1,2,2-Tetrachloroethane	15	U
108-90-7-----	Chlorobenzene	15	U
100-41-4-----	Ethylbenzene	15	U
100-42-5-----	Styrene	15	U
1330-20-7-----	Xylenes (total)	15	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

012WC4BRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-004 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4388

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 34

Date Analyzed: 07/13/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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013WC5BRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-005 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4389

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 18

Date Analyzed: 07/13/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/Kg	
74-87-3	-----Chloromethane		12	U
74-83-9	-----Bromomethane		12	U
75-01-4	-----Vinyl Chloride		12	U
75-00-3	-----Chloroethane		12	U
75-09-2	-----Methylene Chloride		8	JB
67-64-1	-----Acetone		51	B
75-15-0	-----Carbon Disulfide		12	U
75-35-4	-----1,1-Dichloroethene		12	U
75-34-3	-----1,1-Dichloroethane		12	U
540-59-0	-----1,2-Dichloroethene (total)		12	U
67-66-3	-----Chloroform		12	U
107-06-2	-----1,2-Dichloroethane		12	U
78-93-3	-----2-Butanone		12	U
71-55-6	-----1,1,1-Trichloroethane		12	U
56-23-5	-----Carbon Tetrachloride		12	U
75-27-4	-----Bromodichloromethane		12	U
78-87-5	-----1,2-Dichloropropane		12	U
10061-01-5	-----cis-1,3-Dichloropropene		12	U
79-01-6	-----Trichloroethene		12	U
124-48-1	-----Chlorodibromomethane		12	U
79-00-5	-----1,1,2-Trichloroethane		12	U
71-43-2	-----Benzene		12	U
10061-02-6	-----trans-1,3-Dichloropropene		12	U
75-25-2	-----Bromoform		12	U
108-10-1	-----4-Methyl-2-pentanone		12	U
591-78-6	-----2-Hexanone		12	U
127-18-4	-----Tetrachloroethene		12	U
108-88-3	-----Toluene		68	
79-34-5	-----1,1,2,2-Tetrachloroethane		12	U
108-90-7	-----Chlorobenzene		12	U
100-41-4	-----Ethylbenzene		12	U
100-42-5	-----Styrene		12	U
1330-20-7	-----Xylenes (total)		5	J

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

013WC5BRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18285-005 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4389

Level: (low/med) LOW

Date Received: 07/03/98

% Moisture: not dec. 18

Date Analyzed: 07/13/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Number TICs found: 9

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 7145-23-5	3-Hexene, 2,3-dimethyl-	12.462	17	NJ
2. 17301-94-9	Nonane, 4-methyl-	17.441	9	NJ
3. 3913-02-8	1-Octanol, 2-butyl-	19.147	13	NJ
4. 5881-17-4	Octane, 3-ethyl-	20.052	8	NJ
5. 2958-76-1	Naphthalene, decahydro-2-met	23.429	61	NJ
6. 99-87-6	Benzene, 1-methyl-4-(1-methy	23.795	54	NJ
7. 294-62-2	Cyclododecane	24.056	52	NJ
8. 933-98-2	Benzene, 1-ethyl-2,3-dimethy	24.282	70	NJ
9. 56253-64-6	Benzene, (2-methyl-1-butenyl	24.665	46	NJ
10.				
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014WC6BRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-001 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4390

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: not dec. 31

Date Analyzed: 07/13/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
---------	----------	---	---

74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	12	JB
67-64-1	Acetone	65	B
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
75-34-3	1,1-Dichloroethane	14	U
540-59-0	1,2-Dichloroethene (total)	14	U
67-66-3	Chloroform	14	U
107-06-2	1,2-Dichloroethane	14	U
78-93-3	2-Butanone	14	U
71-55-6	1,1,1-Trichloroethane	14	U
56-23-5	Carbon Tetrachloride	14	U
75-27-4	Bromodichloromethane	14	U
78-87-5	1,2-Dichloropropane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
79-01-6	Trichloroethene	14	U
124-48-1	Chlorodibromomethane	14	U
79-00-5	1,1,2-Trichloroethane	14	U
71-43-2	Benzene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
75-25-2	Bromoform	14	U
108-10-1	4-Methyl-2-pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
108-88-3	Toluene	12	J
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
100-42-5	Styrene	14	U
1330-20-7	Xylenes (total)	14	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

014WC6BRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-001 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4390

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: not dec. 31

Date Analyzed: 07/13/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 2

CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 471-29-4	Guanidine, methyl-	3.564	30	NJ
2. 27167-34-6	1,2-Cyclohexanediol, 1-pheny	24.959	8	NJ
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015WC7BRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-002 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4391

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: not dec. 38

Date Analyzed: 07/13/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	16	U
74-83-9	Bromomethane	16	U
75-01-4	Vinyl Chloride	16	U
75-00-3	Chloroethane	16	U
75-09-2	Methylene Chloride	12	JB
67-64-1	Acetone	66	B
75-15-0	Carbon Disulfide	16	U
75-35-4	1,1-Dichloroethene	16	U
75-34-3	1,1-Dichloroethane	16	U
540-59-0	1,2-Dichloroethene (total)	16	U
67-66-3	Chloroform	16	U
107-06-2	1,2-Dichloroethane	16	U
78-93-3	2-Butanone	16	U
71-55-6	1,1,1-Trichloroethane	16	U
56-23-5	Carbon Tetrachloride	16	U
75-27-4	Bromodichloromethane	16	U
78-87-5	1,2-Dichloropropane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
79-01-6	Trichloroethene	16	U
124-48-1	Chlorodibromomethane	16	U
79-00-5	1,1,2-Trichloroethane	16	U
71-43-2	Benzene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
75-25-2	Bromoform	16	U
108-10-1	4-Methyl-2-pentanone	16	U
591-78-6	2-Hexanone	16	U
127-18-4	Tetrachloroethene	16	U
108-88-3	Toluene	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U
100-42-5	Styrene	16	U
1330-20-7	Xylenes (total)	16	U

TENTATIVELY IDENTIFIED COMPOUNDS

015WC7BRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-002 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4391

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: not dec. 38

Date Analyzed: 07/13/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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008WC8BRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-003 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4392

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: not dec. 41

Date Analyzed: 07/13/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg Q

74-87-3-----	Chloromethane	17	U
74-83-9-----	Bromomethane	17	U
75-01-4-----	Vinyl Chloride	17	U
75-00-3-----	Chloroethane	17	U
75-09-2-----	Methylene Chloride	12	JB
67-64-1-----	Acetone	56	B
75-15-0-----	Carbon Disulfide	17	U
75-35-4-----	1,1-Dichloroethene	17	U
75-34-3-----	1,1-Dichloroethane	17	U
540-59-0-----	1,2-Dichloroethene (total)	17	U
67-66-3-----	Chloroform	17	U
107-06-2-----	1,2-Dichloroethane	17	U
78-93-3-----	2-Butanone	17	U
71-55-6-----	1,1,1-Trichloroethane	17	U
56-23-5-----	Carbon Tetrachloride	17	U
75-27-4-----	Bromodichloromethane	17	U
78-87-5-----	1,2-Dichloropropane	17	U
10061-01-5-----	cis-1,3-Dichloropropene	17	U
79-01-6-----	Trichloroethene	17	U
124-48-1-----	Chlorodibromomethane	17	U
79-00-5-----	1,1,2-Trichloroethane	17	U
71-43-2-----	Benzene	17	U
10061-02-6-----	trans-1,3-Dichloropropene	17	U
75-25-2-----	Bromoform	17	U
108-10-1-----	4-Methyl-2-pentanone	17	U
591-78-6-----	2-Hexanone	17	U
127-18-4-----	Tetrachloroethene	17	U
108-88-3-----	Toluene	27	
79-34-5-----	1,1,2,2-Tetrachloroethane	17	U
108-90-7-----	Chlorobenzene	17	U
100-41-4-----	Ethylbenzene	17	U
100-42-5-----	Styrene	17	U
1330-20-7-----	Xylenes (total)	17	U

TENTATIVELY IDENTIFIED COMPOUNDS

008WC8BRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-003 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4392

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: not dec. 41

Date Analyzed: 07/13/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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001WC1BHRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-004 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4393

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: not dec. 18

Date Analyzed: 07/13/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	8	JB
67-64-1	Acetone	40	B
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Chlorodibromomethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-88-3	Toluene	54	
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylenes (total)	12	U

TENTATIVELY IDENTIFIED COMPOUNDS

001WC1BHRE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18290-004 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4393

Level: (low/med) LOW

Date Received: 07/07/98

% Moisture: not dec. 18

Date Analyzed: 07/13/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
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VBLKB197A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK178594

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BBLK4484

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/16/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/Kg	
74-87-3	Chloromethane	10		U
74-83-9	Bromomethane	10		U
75-01-4	Vinyl Chloride	10		U
75-00-3	Chloroethane	10		U
75-09-2	Methylene Chloride	1		J
67-64-1	Acetone	22		
75-15-0	Carbon Disulfide	10		U
75-35-4	1,1-Dichloroethene	10		U
75-34-3	1,1-Dichloroethane	10		U
540-59-0	1,2-Dichloroethene (total)	10		U
67-66-3	Chloroform	10		U
107-06-2	1,2-Dichloroethane	10		U
78-93-3	2-Butanone	10		U
71-55-6	1,1,1-Trichloroethane	10		U
56-23-5	Carbon Tetrachloride	10		U
75-27-4	Bromodichloromethane	10		U
78-87-5	1,2-Dichloropropane	10		U
10061-01-5	cis-1,3-Dichloropropene	10		U
79-01-6	Trichloroethene	10		U
124-48-1	Chlorodibromomethane	10		U
79-00-5	1,1,2-Trichloroethane	10		U
71-43-2	Benzene	10		U
10061-02-6	trans-1,3-Dichloropropene	10		U
75-25-2	Bromoform	10		U
108-10-1	4-Methyl-2-pentanone	10		U
591-78-6	2-Hexanone	10		U
127-18-4	Tetrachloroethene	10		U
108-88-3	Toluene	10		U
79-34-5	1,1,2,2-Tetrachloroethane	10		U
108-90-7	Chlorobenzene	10		U
100-41-4	Ethylbenzene	10		U
100-42-5	Styrene	10		U
1330-20-7	Xylenes (total)	10		U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VELKB197A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK178594

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BBLK4484

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/16/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 128-37-0	Butylated Hydroxytoluene	24.484	14	NJ
2.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

VLCSB197A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCLCS178594

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BLCS4485

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/16/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/Kg	
74-87-3	Chloromethane	10		U
74-83-9	Bromomethane	10		U
75-01-4	Vinyl Chloride	36		
75-00-3	Chloroethane	10		U
75-09-2	Methylene Chloride	1		JB
67-64-1	Acetone	29		B
75-15-0	Carbon Disulfide	10		U
75-35-4	1,1-Dichloroethene	67		
75-34-3	1,1-Dichloroethane	10		U
540-59-0	1,2-Dichloroethene (total)	10		U
67-66-3	Chloroform	51		
107-06-2	1,2-Dichloroethane	55		
78-93-3	2-Butanone	55		
71-55-6	1,1,1-Trichloroethane	10		U
56-23-5	Carbon Tetrachloride	59		
75-27-4	Bromodichloromethane	10		U
78-87-5	1,2-Dichloropropane	10		U
10061-01-5	cis-1,3-Dichloropropene	10		U
79-01-6	Trichloroethene	54		
124-48-1	Chlorodibromomethane	10		U
79-00-5	1,1,2-Trichloroethane	10		U
71-43-2	Benzene	57		
10061-02-6	trans-1,3-Dichloropropene	10		U
75-25-2	Bromoform	10		U
108-10-1	4-Methyl-2-pentanone	10		U
591-78-6	2-Hexanone	10		U
127-18-4	Tetrachloroethene	52		
108-88-3	Toluene	53		
79-34-5	1,1,2,2-Tetrachloroethane	10		U
108-90-7	Chlorobenzene	51		
100-41-4	Ethylbenzene	10		U
100-42-5	Styrene	10		U
1330-20-7	Xylenes (total)	10		U

TB001

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) WATER

Lab Sample ID: 18306-003

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: BSMP4491

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: not dec. _____

Date Analyzed: 07/16/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/L	
74-87-3	Chloromethane	10	U	
74-83-9	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	5	JB	
67-64-1	Acetone	53	B	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-3	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
124-48-1	Chlorodibromomethane	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
71-43-2	Benzene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
108-88-3	Toluene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Xylenes (total)	10	U	

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

TB001

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) WATER

Lab Sample ID: 18306-003

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: BSMP4491

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: not dec. _____

Date Analyzed: 07/16/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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7.				
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27.				
28.				
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30.				

TB002

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) WATER

Lab Sample ID: 18306-004

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: BSMP4492

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: not dec. _____

Date Analyzed: 07/16/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/L
			Q
74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	5	JB
67-64-1-----	Acetone	52	B
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	6	J
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Chlorodibromomethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
108-88-3-----	Toluene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylenes (total)	10	U

**VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

TB002

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) WATER

Lab Sample ID: 18306-004

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: BSMP4492

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: not dec. _____

Date Analyzed: 07/16/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
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28.				
29.				
30.				

SL003

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-002

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4498

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: not dec. 18

Date Analyzed: 07/16/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

Q

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	9	JB
67-64-1-----	Acetone	52	B
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	25	
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Chlorodibromomethane	12	U
79-00-5-----	1,1,2-Trichloroethane	2	J
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
108-88-3-----	Toluene	60	
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	4	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylenes (total)	27	

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SL003

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOII

Lab Sample ID: 18302-002

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4498

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: not dec. 18

Date Analyzed: 07/16/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	1.470	827	J
2. 108-87-2	Cyclohexane, methyl-	7.842	13	NJ
3. 61142-37-8	Cyclohexane, (1,2-dimethylbu	12.385	13	NJ
4. 1074-43-7	Benzene, 1-methyl-3-propyl-	22.534	16	NJ
5. 2958-76-1	Naphthalene, decahydro-2-met	23.422	23	NJ
6. 535-77-3	Benzene, 1-methyl-3-(1-methy	23.788	21	NJ
7. 29053-04-1	Cyclopentane, 1-methyl-3-(2-	24.066	20	NJ
8. 933-98-2	Benzene, 1-ethyl-2,3-dimethy	24.275	53	NJ
9. 6682-71-9	1H-Indene, 2,3-dihydro-4,7-d	24.658	43	NJ
10. 17057-82-8	1H-Indene, 2,3-dihydro-1,2-d	24.797	20	NJ
11.				
12.				
13.				
14.				
15.				
16.				
17.				
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30.				

SL005

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-005

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4501

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: not dec. 19

Date Analyzed: 07/16/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/Kg	
74-87-3	Chloromethane		2	J
74-83-9	Bromomethane		12	U
75-01-4	Vinyl Chloride		12	U
75-00-3	Chloroethane		12	U
75-09-2	Methylene Chloride		7	JB
67-64-1	Acetone		39	B
75-15-0	Carbon Disulfide		12	U
75-35-4	1,1-Dichloroethene		12	U
75-34-3	1,1-Dichloroethane		12	U
540-59-0	1,2-Dichloroethene (total)		12	U
67-66-3	Chloroform		12	U
107-06-2	1,2-Dichloroethane		12	U
78-93-3	2-Butanone		11	J
71-55-6	1,1,1-Trichloroethane		12	U
56-23-5	Carbon Tetrachloride		12	U
75-27-4	Bromodichloromethane		12	U
78-87-5	1,2-Dichloropropane		12	U
10061-01-5	cis-1,3-Dichloropropene		12	U
79-01-6	Trichloroethene		12	U
124-48-1	Chlorodibromomethane		12	U
79-00-5	1,1,2-Trichloroethane		12	U
71-43-2	Benzene		4	J
10061-02-6	trans-1,3-Dichloropropene		12	U
75-25-2	Bromoform		12	U
108-10-1	4-Methyl-2-pentanone		12	U
591-78-6	2-Hexanone		12	U
121-18-4	Tetrachloroethene		12	U
108-88-3	Toluene		16	U
79-34-5	1,1,2,2-Tetrachloroethane		12	U
108-90-7	Chlorobenzene		12	U
100-41-4	Ethylbenzene		2	J
100-42-5	Styrene		12	U
1330-20-7	Xylenes (total)		12	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SL005

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-005

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4501

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: not dec. 19

Date Analyzed: 07/16/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 13466-78-9	3-Carene	17.330	438	NJ
2. 4695-62-9	Bicyclo[2.2.1]heptan-2-one,	23.510	33	NJ
3. 112-40-3	Dodecane	23.963	32	NJ
4. 17301-23-4	Undecane, 2,6-dimethyl-	24.067	32	NJ
5. 79-92-5	Camphene	24.485	22	NJ
6. 62108-25-2	Decane, 2,6,7-trimethyl-	24.624	62	NJ
7. 629-50-5	Tridecane	24.920	97	NJ
8. 629-59-4	Tetradecane	25.442	26	NJ
9. 638-36-8	Hexadecane, 2,6,10,14-tetram	25.547	46	NJ
10. 629-55-4	Tetradecane	25.773	60	NJ
11.				
12.				
13.				
14.				
15.				
16.				
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SL016MS

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18306-001 MS

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4503

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: not dec. 36

Date Analyzed: 07/16/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3-----	Chloromethane	16	U
74-83-9-----	Bromomethane	16	U
75-01-4-----	Vinyl Chloride	63	
75-00-3-----	Chloroethane	16	U
75-09-2-----	Methylene Chloride	9	JB
67-64-1-----	Acetone	39	B
75-15-0-----	Carbon Disulfide	16	U
75-35-4-----	1,1-Dichloroethene	120	
75-34-3-----	1,1-Dichloroethane	16	U
540-59-0-----	1,2-Dichloroethene (total)	16	U
67-66-3-----	Chloroform	100	
107-06-2-----	1,2-Dichloroethane	110	
78-93-3-----	2-Butanone	55	
71-55-6-----	1,1,1-Trichloroethane	16	U
56-23-5-----	Carbon Tetrachloride	100	
75-27-4-----	Bromodichloromethane	16	U
78-87-5-----	1,2-Dichloropropane	16	U
10061-01-5-----	cis-1,3-Dichloropropene	16	U
79-01-6-----	Trichloroethene	81	
124-48-1-----	Chlorodibromomethane	16	U
79-00-5-----	1,1,2-Trichloroethane	16	U
71-43-2-----	Benzene	93	
10061-02-6-----	trans-1,3-Dichloropropene	16	U
75-25-2-----	Bromoform	16	U
108-10-1-----	4-Methyl-2-pentanone	16	U
591-78-6-----	2-Hexanone	16	U
127-18-4-----	Tetrachloroethene	84	
108-88-3-----	Toluene	1300	E
79-34-5-----	1,1,2,2-Tetrachloroethane	16	U
108-90-7-----	Chlorobenzene	83	
100-41-4-----	Ethylbenzene	16	U
100-42-5-----	Styrene	16	U
1330-20-7-----	Xylenes (total)	2	J

SL016MSD

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18306-001 MSD

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4504

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: not dec. 36

Date Analyzed: 07/16/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/Kg	
74-87-3	Chloromethane	16		U
74-83-9	Bromomethane	16		U
75-01-4	Vinyl Chloride	63		
75-00-3	Chloroethane	16		U
75-09-2	Methylene Chloride	8		JB
67-64-1	Acetone	57		B
75-15-0	Carbon Disulfide	16		U
75-35-4	1,1-Dichloroethene	110		
75-34-3	1,1-Dichloroethane	16		U
540-59-0	1,2-Dichloroethene (total)	16		U
67-66-3	Chloroform	95		
107-06-2	1,2-Dichloroethane	110		
78-93-3	2-Butanone	100		
71-55-6	1,1,1-Trichloroethane	16		U
56-23-5	Carbon Tetrachloride	94		
75-27-4	Bromodichloromethane	16		U
78-87-5	1,2-Dichloropropane	16		U
10061-01-5	cis-1,3-Dichloropropene	16		U
79-01-6	Trichloroethene	78		
124-48-1	Chlorodibromomethane	16		U
79-00-5	1,1,2-Trichloroethane	16		U
71-43-2	Benzene	87		
10061-02-6	trans-1,3-Dichloropropene	16		U
75-25-2	Bromoform	16		U
108-10-1	4-Methyl-2-pentanone	16		U
591-78-6	2-Hexanone	16		U
127-18-4	Tetrachloroethene	78		
108-88-3	Toluene	1000		E
79-34-5	1,1,2,2-Tetrachloroethane	16		U
108-90-7	Chlorobenzene	78		
100-41-4	Ethylbenzene	16		U
100-42-5	Styrene	16		U
1330-20-7	Xylenes (total)	2		J

VOLATILE ORGANICS ANALYSIS DATA SHEET

VELKB198A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK178618

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BELK4512

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/17/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	ug/Kg
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	20	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-39-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	7	J
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Chlorodibromomethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylenes (total)	10	U

DETAILED ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLKB198A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK178618

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BBLK4512

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/17/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCLCS178618

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BLCS4511

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/17/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	33	
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	4	JB
67-64-1-----	Acetone	37	B
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	62	
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	48	
107-06-2-----	1,2-Dichloroethane	52	
78-93-3-----	2-Butanone	87	B
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	55	
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	50	
124-48-1-----	Chlorodibromomethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	52	
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromocform	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	48	
108-88-3-----	Toluene	50	
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-90-7-----	Chlorobenzene	47	
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylenes (total)	1	J

SL002

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-001

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4520

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: not dec. 26

Date Analyzed: 07/17/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/Kg	
74-87-3	-----Chloromethane		14	U
74-83-9	-----Bromomethane		14	U
75-01-4	-----Vinyl Chloride		14	U
75-00-3	-----Chloroethane		14	U
75-09-2	-----Methylene Chloride		13	JB
67-64-1	-----Acetone		77	B
75-15-0	-----Carbon Disulfide		14	U
75-35-4	-----1,1-Dichloroethene		14	U
75-34-3	-----1,1-Dichloroethane		14	U
540-59-0	-----1,2-Dichloroethene (total)		14	U
67-66-3	-----Chloroform		14	U
107-06-2	-----1,2-Dichloroethane		14	U
78-93-3	-----2-Butanone		26	B
71-55-6	-----1,1,1-Trichloroethane		14	U
56-23-5	-----Carbon Tetrachloride		14	U
75-27-4	-----Bromodichloromethane		14	U
78-87-5	-----1,2-Dichloropropane		14	U
10061-01-5	-----cis-1,3-Dichloropropene		14	U
79-01-6	-----Trichloroethene		14	U
124-48-1	-----Chlorodibromomethane		14	U
79-00-5	-----1,1,2-Trichloroethane		14	U
71-43-2	-----Benzene		14	U
10061-02-6	-----trans-1,3-Dichloropropene		14	U
75-25-2	-----Bromoform		14	U
108-10-1	-----4-Methyl-2-pentanone		14	U
591-78-6	-----2-Hexanone		14	U
127-18-4	-----Tetrachloroethene		14	U
108-88-3	-----Toluene		6	J
79-34-5	-----1,1,2,2-Tetrachloroethane		14	U
108-90-7	-----Chlorobenzene		14	U
100-41-4	-----Ethylbenzene		14	U
100-42-5	-----Styrene		14	U
1330-20-7	-----Xylenes (total)		14	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SL002

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-001

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4520

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: not dec. 26

Date Analyzed: 07/17/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

SL003RE

Lab Name: QUANTERRA M.

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-002 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4521

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: not dec. 18

Date Analyzed: 07/17/98

Column: (pack/cap) CAP

Dilution factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg Q

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	16	B
67-64-1-----	Acetone	73	B
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Chlorodibromomethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
108-88-3-----	Toluene	8	U
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	2	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylenes (total)	11	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SL003RE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-002 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4521

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: not dec. 18

Date Analyzed: 07/17/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.167	15	J
2. 107-83-5	Pentane, 2-methyl-	3.247	17	NJ
3. 14296-81-2	Cyclohexane, 1,2,4-tris(meth	21.056	17	NJ
4.	Unknown	22.518	10	J
5. 99-87-6	Benzene, 1-methyl-4-(1-methy	22.657	10	NJ
6. 15232-85-6	Cyclohexene, 1-pentyl-	23.423	11	NJ
7. 934-74-7	Benzene, 1-ethyl-3,5-dimethy	24.276	18	NJ
8. 2050-24-0	Benzene, 1,3-diethyl-5-methy	24.642	10	NJ
9. 4218-48-8	Benzene, 1-ethyl-4-(1-methyl	24.938	35	NJ
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VOLATILE ORGANICS ANALYSIS DATA SHEET

SL004

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-003

Sample wt/vol: 1.0 (g/mL) G

Lab File ID: BSMP4522

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: not dec. 25

Date Analyzed: 07/17/98

Column: (pack/cap) CAP

Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3-----	Chloromethane	67	U
74-83-9-----	Bromomethane	67	U
75-01-4-----	Vinyl Chloride	67	U
75-00-3-----	Chloroethane	67	U
75-09-2-----	Methylene Chloride	62	JB
67-64-1-----	Acetone	280	B
75-15-0-----	Carbon Disulfide	67	U
75-35-4-----	1,1-Dichloroethene	67	U
75-34-3-----	1,1-Dichloroethane	67	U
540-59-0-----	1,2-Dichloroethene (total)	67	U
67-66-3-----	Chloroform	67	U
107-06-2-----	1,2-Dichloroethane	67	U
78-93-3-----	2-Butanone	61	JB
71-55-6-----	1,1,1-Trichloroethane	67	U
56-23-5-----	Carbon Tetrachloride	67	U
75-27-4-----	Bromodichloromethane	67	U
78-87-5-----	1,2-Dichloropropane	67	U
10061-01-5-----	cis-1,3-Dichloropropene	67	U
79-01-6-----	Trichloroethene	67	U
124-48-1-----	Chlorodibromomethane	67	U
79-00-5-----	1,1,2-Trichloroethane	67	U
71-43-2-----	Benzene	67	U
10061-02-6-----	trans-1,3-Dichloropropene	67	U
75-25-2-----	Bromoform	67	U
108-10-1-----	4-Methyl-2-pentanone	67	U
591-78-6-----	2-Hexanone	67	U
127-18-4-----	Tetrachloroethene	67	U
108-88-3-----	Toluene	34	J
79-34-5-----	1,1,2,2-Tetrachloroethane	67	U
108-90-7-----	Chlorobenzene	67	U
100-41-4-----	Ethylbenzene	67	U
100-42-5-----	Styrene	67	U
1330-20-7-----	Xylenes (total)	67	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SL004

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-003

Sample wt/vol: 1.0 (g/mL) G

Lab File ID: BSMP4522

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: not dec. 25

Date Analyzed: 07/17/98

Column: (pack/cap) CAP

Dilution Factor: 5.0

Number TICs found: 0

CONCENTRATION UNITS:
 (ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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SL007

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-004

Sample wt/vol: 1.0 (g/mL) G

Lab File ID: BSMP4523

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: not dec. 19

Date Analyzed: 07/17/98

Column: (pack/cap) CAP

Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3	Chloromethane	62	U
74-83-9	Bromomethane	62	U
75-01-4	Vinyl Chloride	62	U
75-00-3	Chloroethane	62	U
75-09-2	Methylene Chloride	52	JB
67-64-1	Acetone	210	B
75-15-0	Carbon Disulfide	62	U
75-35-4	1,1-Dichloroethene	62	U
75-34-3	1,1-Dichloroethane	62	U
540-59-0	1,2-Dichloroethene (total)	62	U
67-66-3	Chloroform	62	U
107-06-2	1,2-Dichloroethane	62	U
78-93-3	2-Butanone	62	U
71-55-6	1,1,1-Trichloroethane	62	U
56-23-5	Carbon Tetrachloride	62	U
75-27-4	Bromodichloromethane	62	U
78-87-5	1,2-Dichloropropane	62	U
10061-01-5	cis-1,3-Dichloropropene	62	U
79-01-6	Trichloroethene	62	U
124-48-1	Chlorodibromomethane	62	U
79-00-5	1,1,2-Trichloroethane	62	U
71-43-2	Benzene	62	U
10061-02-6	trans-1,3-Dichloropropene	62	U
75-25-2	Bromoform	62	U
108-10-1	4-Methyl-2-pentanone	62	U
591-78-6	2-Hexanone	62	U
127-18-4	Tetrachloroethene	62	U
108-88-3	Toluene	180	
79-34-5	1,1,2,2-Tetrachloroethane	62	U
108-90-7	Chlorobenzene	62	U
100-41-4	Ethylbenzene	62	U
100-42-5	Styrene	62	U
1330-20-7	Xylenes (total)	62	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SL007

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-004

Sample wt/vol: 1.0 (g/mL) G

Lab File ID: BSMP4523

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: not dec. 19

Date Analyzed: 07/17/98

Column: (pack/cap) CAP

Dilution Factor: 5.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	8.678	0	
2.				
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SL005RE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-005 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4524

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: not dec. 19

Date Analyzed: 07/17/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS:		Q
		(ug/L or ug/Kg)	ug/Kg	
74-87-3	Chloromethane	12		U
74-83-9	Bromomethane	12		U
75-01-4	Vinyl Chloride	12		U
75-00-3	Chloroethane	12		U
75-09-2	Methylene Chloride	14		B
67-64-1	Acetone	37		B
75-15-0	Carbon Disulfide	12		U
75-35-4	1,1-Dichloroethene	12		U
75-34-3	1,1-Dichloroethane	12		U
540-59-0	1,2-Dichloroethene (total)	12		U
67-66-3	Chloroform	12		U
107-06-2	1,2-Dichloroethane	12		U
78-93-3	2-Butanone	12		U
71-55-6	1,1,1-Trichloroethane	12		U
56-23-5	Carbon Tetrachloride	12		U
75-27-4	Bromodichloromethane	12		U
78-87-5	1,2-Dichloropropane	12		U
10061-01-5	cis-1,3-Dichloropropene	12		U
79-01-6	Trichloroethene	12		U
124-48-1	Chlorodibromomethane	12		U
79-00-5	1,1,2-Trichloroethane	12		U
71-43-2	Benzene	3		J
10061-02-6	trans-1,3-Dichloropropene	12		U
75-25-2	Bromoform	12		U
108-10-1	4-Methyl-2-pentanone	12		U
591-78-6	2-Hexanone	12		U
127-18-4	Tetrachloroethene	12		U
108-88-3	Toluene	13		U
79-34-5	1,1,2,2-Tetrachloroethane	12		U
108-90-7	Chlorobenzene	12		U
100-41-4	Ethylbenzene	2		J
100-42-5	Styrene	12		U
1330-20-7	Xylenes (total)	6		J

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SL005RE

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18302-005 RE

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4524

Level: (low/med) LOW

Date Received: 07/08/98

% Moisture: not dec. 19

Date Analyzed: 07/17/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 9

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 80-56-8	.alpha.-Pinene	17.365	649	NJ
2. 508-32-7	Tricyclo[2.2.1.02,6]heptane,	19.820	70	NJ
3. 112-40-3	Dodecane	23.963	69	NJ
4. 17301-23-4	Undecane, 2,6-dimethyl-	24.067	58	NJ
5. 26730-14-3	Tridecane, 7-methyl-	24.625	169	NJ
6. 629-50-5	Tridecane	24.920	208	NJ
7.	Unknown	25.443	49	J
8. 31295-56-4	Dodecane, 2,6,11-trimethyl-	25.547	60	NJ
9. 629-59-4	Tetradecane	25.773	60	NJ
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SL016

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18306-001

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4525

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: not dec. 36

Date Analyzed: 07/17/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3-----	Chloromethane	16	U
74-83-9-----	Bromomethane	16	U
75-01-4-----	Vinyl Chloride	16	U
75-00-3-----	Chloroethane	16	U
75-09-2-----	Methylene Chloride	20	B
67-64-1-----	Acetone	45	B
75-15-0-----	Carbon Disulfide	16	U
75-35-4-----	1,1-Dichloroethene	16	U
75-34-3-----	1,1-Dichloroethane	16	U
540-59-0-----	1,2-Dichloroethene (total)	16	U
67-66-3-----	Chloroform	16	U
107-06-2-----	1,2-Dichloroethane	16	U
78-93-3-----	2-Butanone	16	U
71-55-6-----	1,1,1-Trichloroethane	16	U
56-23-5-----	Carbon Tetrachloride	16	U
75-27-4-----	Bromodichloromethane	16	U
78-87-5-----	1,2-Dichloropropane	16	U
10061-01-5-----	cis-1,3-Dichloropropene	16	U
79-01-6-----	Trichloroethene	16	U
124-48-1-----	Chlorodibromomethane	16	U
79-00-5-----	1,1,2-Trichloroethane	16	U
71-43-2-----	Benzene	16	U
10061-02-6-----	trans-1,3-Dichloropropene	16	U
75-25-2-----	Bromoform	16	U
108-10-1-----	4-Methyl-2-pentanone	16	U
591-78-6-----	2-Hexanone	16	U
127-18-4-----	Tetrachloroethene	16	U
108-88-3-----	Toluene	120	
79-34-5-----	1,1,2,2-Tetrachloroethane	16	U
108-90-7-----	Chlorobenzene	16	U
100-41-4-----	Ethylbenzene	16	U
100-42-5-----	Styrene	16	U
1330-20-7-----	Xylenes (total)	16	U

**VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS**

SL016

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18306-001

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BSMP4525

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: not dec. 36

Date Analyzed: 07/17/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	3.578	30	J
2. 629-50-5	Tridecane	24.938	12	NJ
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VBLKE201A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK178938

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: EBLK3514

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/20/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg	Q
74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	10	U
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	20	U
67-64-1-----	Acetone	48	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	10	U
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	10	U
107-06-2-----	1,2-Dichloroethane	10	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	10	U
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	10	U
124-48-1-----	Chlorodibromomethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	10	U
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	10	U
108-88-3-----	Toluene	10	U
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-90-7-----	Chlorobenzene	10	U
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylenes (total)	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLKE201A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCBLK178938

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: EBLK3514

Level: (low/med) LOW

Date Received:

* Moisture: not dec. _____

Date Analyzed: 07/20/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.201	47	J
2.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

VLCSE201A

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: QCLCS178938

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: ELCS3519

Level: (low/med) LOW

Date Received:

% Moisture: not dec. _____

Date Analyzed: 07/20/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg Q

74-87-3-----	Chloromethane	10	U
74-83-9-----	Bromomethane	10	U
75-01-4-----	Vinyl Chloride	68	
75-00-3-----	Chloroethane	10	U
75-09-2-----	Methylene Chloride	20	B
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	10	U
75-35-4-----	1,1-Dichloroethene	97	
75-34-3-----	1,1-Dichloroethane	10	U
540-59-0-----	1,2-Dichloroethene (total)	10	U
67-66-3-----	Chloroform	66	
107-06-2-----	1,2-Dichloroethane	63	
78-93-3-----	2-Butanone	90	
71-55-6-----	1,1,1-Trichloroethane	10	U
56-23-5-----	Carbon Tetrachloride	83	
75-27-4-----	Bromodichloromethane	10	U
78-87-5-----	1,2-Dichloropropane	10	U
10061-01-5-----	cis-1,3-Dichloropropene	10	U
79-01-6-----	Trichloroethene	71	
124-48-1-----	Chlorodibromomethane	10	U
79-00-5-----	1,1,2-Trichloroethane	10	U
71-43-2-----	Benzene	76	
10061-02-6-----	trans-1,3-Dichloropropene	10	U
75-25-2-----	Bromoform	10	U
108-10-1-----	4-Methyl-2-pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	75	
108-88-3-----	Toluene	75	
79-34-5-----	1,1,2,2-Tetrachloroethane	10	U
108-90-7-----	Chlorobenzene	67	
100-41-4-----	Ethylbenzene	10	U
100-42-5-----	Styrene	10	U
1330-20-7-----	Xylenes (total)	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

SL006

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SCIL

Lab Sample ID: 18306-002

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: ESMP3520

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: not dec. 20

Date Analyzed: 07/20/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg Q

74-87-3-----	Chloromethane	12	U
74-83-9-----	Bromomethane	12	U
75-01-4-----	Vinyl Chloride	12	U
75-00-3-----	Chloroethane	12	U
75-09-2-----	Methylene Chloride	30	B
67-64-1-----	Acetone	75	B
75-15-0-----	Carbon Disulfide	12	U
75-35-4-----	1,1-Dichloroethene	12	U
75-34-3-----	1,1-Dichloroethane	12	U
540-59-0-----	1,2-Dichloroethene (total)	12	U
67-66-3-----	Chloroform	12	U
107-06-2-----	1,2-Dichloroethane	12	U
78-93-3-----	2-Butanone	12	U
71-55-6-----	1,1,1-Trichloroethane	12	U
56-23-5-----	Carbon Tetrachloride	12	U
75-27-4-----	Bromodichloromethane	12	U
78-87-5-----	1,2-Dichloropropane	12	U
10061-01-5-----	cis-1,3-Dichloropropene	12	U
79-01-6-----	Trichloroethene	12	U
124-48-1-----	Chlorodibromomethane	12	U
79-00-5-----	1,1,2-Trichloroethane	12	U
71-43-2-----	Benzene	12	U
10061-02-6-----	trans-1,3-Dichloropropene	12	U
75-25-2-----	Bromoform	12	U
108-10-1-----	4-Methyl-2-pentanone	12	U
591-78-6-----	2-Hexanone	12	U
127-18-4-----	Tetrachloroethene	12	U
108-88-3-----	Toluene	6	J
79-34-5-----	1,1,2,2-Tetrachloroethane	12	U
108-90-7-----	Chlorobenzene	12	U
100-41-4-----	Ethylbenzene	12	U
100-42-5-----	Styrene	12	U
1330-20-7-----	Xylenes (total)	12	U

TENTATIVELY IDENTIFIED COMPOUNDS

SL006

Lab Name: QUANTERRA MO

Contract: 798.02

Lab Code: ITMO

Case No.:

SAS No.:

SDG No.: 18306

Matrix: (soil/water) SOIL

Lab Sample ID: 18306-002

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: ESMP3520

Level: (low/med) LOW

Date Received: 07/09/98

% Moisture: not dec. 20

Date Analyzed: 07/20/98

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Unknown	2.182	70	JB
2.	Unknown	2.374	15	J
3. 1634-04-4	Propane, 2-methoxy-2-methyl-	4.061	39	NJ
4.				
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