

REVISED SUPPLEMENTAL REMEDIAL INVESTIGATION/ ALTERNATIVES ANALYSIS REPORT

for the

**GENEVA FOUNDRY SITE
City of Geneva, Ontario County, New York
ERP Site #B00019**

Prepared for:

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PROFESSIONAL ENGINEER CERTIFICATION

I certify that I am currently a New York State Registered Professional Engineer, that this report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the Department of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10), and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.¹


Signature

December 30, 2015

Date

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¹This document is a revision of a document previously prepared by O'Brien & Gere Engineers, Inc. and last submitted to the DEC on September 28, 2007. Field work was performed in 2005 and 2006 via work plans approved by the DEC. While the work is in substantial compliance with DER-10, it is noted that DER-10 was issued on May 3, 2010, several years after the previous version of this document.

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1.0 INTRODUCTION

The former Geneva Foundry site is located 43 Jackson Street, Geneva, New York. The environmental investigation and remedial work is being performed under the New York State Department of Environmental Conservation (DEC) Environmental Restoration Program (ERP). The site is listed as ERP Site No. B00019.

The Supplemental Remedial Investigation/Alternatives Analysis (SRI/AA) Report was originally prepared in September 2007 by O'Brien & Gere Engineers, Inc. and presented the results of some additional investigation work, as well as remedial options for both on-site and off-site areas. In 2015, the DEC collected additional soil samples from numerous residential properties. At the time of the preparation of this revised SRI/AA, the DEC was awaiting the results of this additional sampling. However, this revised SRI/AA has been prepared at the request of the DEC to include unit costs for two other alternatives for addressing near surface impacts on off-site properties. These additional alternatives include the following:

- Placement of a demarcation layer over impacted areas covered with 12 inches of clean fill and reseeded with grass cover.
- Excavation of 12 inches of soil in impacted areas, replacement of 12 inches of clean fill, and reseeded with grass cover.

Areas of residential properties to be remediated will be identified following review of the 2015 analytical results.

2.0 SITE HISTORY AND DESCRIPTION

The Geneva Foundry site is located on Jackson Street in Geneva, New York (see Figure 1) and is owned by the City of Geneva. The site contains two tax parcels. Tax records note the main parcel (104.8-1-34) as being south of Jackson Street and containing 2.01 acres. This parcel formerly

contained the main foundry building. The second parcel (104.8-1-50) is located north of Jackson Street and is noted as containing 0.63 acres. This parcel formerly contained a maintenance building.

The former steel-framed masonry foundry building was demolished by the City in 2005. A smaller masonry structure was located on the north side of Jackson Street. The property is described in the August 2000 *Site Investigation Report and Remedial Alternatives Report for Brownfields Investigation, Geneva Foundry Site, City of Geneva, New York* prepared by Passero Associates, P.C. and Larsen Engineers. The description identifies the foundry building size as having been approximately 80,000 square feet. The site is located in a mixed residential/commercial neighborhood consisting of railroad tracks to the west, a furniture and carpet store to the south, a residence and automotive garage to the east and Jackson Street residences to the north.

An undated Geneva Foundry Corporation brochure states that operations began in 1868 as the Catchpole Boiler, Foundry and Machine Company. The name was changed to the Geneva Foundry Corporation in 1921, when acquired by William J. Brennan, Sr. The original facilities were destroyed by fire in the early 1940's and were replaced with the recently demolished buildings.

This chronology is supported by a review of historical fire insurance maps. An 1884 map shows the area as being occupied by residences, a closed Methodist School and coal sheds in the western portion of the site. An 1890 map is similar, but shows a "Pattern & Experiment Shop" in the former school building. Other 1897, 1903, 1909 and 1915 maps show the "A. Catchpole Co. Machine Shop and Foundry" located behind the Jackson Street residences. The western portion of the property was occupied by the Ontario Coal Company. A 1925 map shows the Geneva Foundry Corporation, with the building having been expanded to Jackson Street. A 1968 map appears to show the building as being similar to what was recently demolished.

The area around the foundry property has been utilized for a variety of industrial and residential purposes since the early to mid-1800's. For much of this time, coal was the primary source of

fuel for heating purposes and coal ash has been encountered in many excavations near the project area. Railroad tracks adjoin the property to the south and west. Jackson Street and residential areas are located to the north, and a commercial/residential area is located to the east.

Historically, the foundry used cupola furnaces for the melt stage of the process. As described in the United States Environmental Protection Agency (EPA) *Compilation of Air Pollutant Factors: AP-42, Fifth Edition, Volume I: Stationary Point and Area Sources*, dated February 12, 2006, cupolas are the only furnace type that uses coke as a fuel. As stated in a 1988 Center for Metals Production Tech Application Newsletter, the Geneva Foundry replaced the cupolas with two medium-frequency 5,000-pound, 1,500-kilowatt hour coreless induction furnaces around 1984.

According to EPA AP-42, emissions from melting furnaces include particulates, carbon monoxide, organic compounds, sulfur dioxide, nitrogen oxides, metals, and small quantities of chloride and fluoride compounds. Particulates, chlorides and fluorides are generated from incomplete combustion of carbon additives, flux additions, dirt and scale. The highest concentrations of furnace emissions occur when the furnace doors are open during charging, backcharging, alloying, slag removal or similar operations. At these times, emissions escape to the furnace building and eventually to the outside air. Cupolas generally result in greater carbon monoxide and sulfur dioxide emissions due to incomplete combustion of coke. Emissions from induction furnaces are typically limited to particulates, with negligible amounts of hydrocarbons and carbon monoxide.

In June 1986, drums and spilled fluids were reported on the property by an adjacent neighbor. These materials were reportedly removed from the site. In 1987, the New York State Department of Health sampled residential gardens near the facility and reported that soil samples contained elevated levels of heavy metals. A November 1999 *Site Investigation Report and Remedial Alternatives Report* (1999 Report) prepared by Passero Associates, P.C. and Larsen Engineers, documented a site investigation that included the following:

- Passive Soil Gas Study.

- Test Pits.
- Sump Sampling.
- Surface Water and Sediment Investigation.
- Subsurface Soil Sampling.
- Groundwater Sampling.

This work also included the removal and off-site disposal of drums and other containers remaining at the site found to contain various materials. The 1999 Report concluded the following:

- Sludge from an interior sump contained volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs).
- Residential soils near the site contained elevated concentrations of metals.
- The passive soil gas study indicated a potential source of VOCs near the southeast corner of the main foundry building.

In 2005, the City demolished the foundry buildings, leaving concrete slabs and foundation walls.

During the week of January 9, 2006, post-demolition environmental sampling was performed at the site. This sampling was conducted in accordance with the January 6, 2006 revised post-demolition Field Sampling Plan (FSP) approved by the DEC.

In addition to the on-site investigation, an additional round of soil samples was collected from six nearby residential properties. These samples were collected in accordance with the January 6, 2006 work plan that was submitted to DEC, with additional efforts as described later in this report.

3.0 DESCRIPTION OF WORK COMPLETED

3.1 On-Site Investigation

The following soils borings were completed in accordance with the January 2006 FSP (refer to Figure 2). Where necessary, the concrete pad was broken and an approximate 2-foot deep core was installed using a Dutch auger. Each extracted core was visually examined and two soil samples were collected from each core: one from the near-surface soils and one from the bottom of the core. Refusal did not allow the collection of deeper soil samples at sample locations BH-23, BH-26, BH-30 and BH-33.

- Two soil borings (BH-20 and BH-21) were installed in the northern portion of the former warehouse building located on the parcel north of Jackson Street to evaluate if any subsurface impacts occurred from former operations. This area was not sampled in the past. In addition, a soil boring was installed east of the former building at the edge of the adjacent paved asphalt area (BH-36) and a composite surface sample was collected from a soil pile located north of the former building (SS-37).
- Two soil borings (BH-22 and BH-23) were installed immediately north of monitoring well MW-1. A groundwater sample previously collected from MW-1 contained concentrations of mercury above groundwater limits. It was proposed that MW-1 be resampled for mercury at the time of the proposed soil sampling to confirm the previous mercury result. While this well was damaged during demolition of the building (the casing was broken below the ground surface), a groundwater sample was collected from the remaining portion of the well on January 27, 2006. However, it is likely that this well has been impacted from surface runoff.
- Two soil borings (BH-24 and BH-25) were installed in the area of the filled pit located in the northwest portion of the main foundry building to assess whether residual impacts may exist in the subsurface soils in this area. Toluene and several SVOCs were detected

in the previous SB-12 soil boring that was installed immediately southwest of this location.

- Two soil borings (BH-26 and BH-27) were installed in the vicinity of the shaft/pit located west of the central area of the main building to assess whether materials from the sump may have impacted underlying soils. A sample of foundry sand from this pit contained several VOCs.
- Two soil borings (BH-28 and BH-29) were installed outside the southwest corner of the former Cleaning Room. A potential sump structure was noted in this area on a previous building drawing, but the area had apparently not been previously sampled.
- One soil boring (BH-30) was installed in the area of the former sump located south of the Cleaning Room to assess whether acetone and other VOCs detected in sludge from this structure in previous sampling have impacted underlying soils. A second boring (BH-31) was planned in this area, but the sump was found to be full of standing water and a subsurface soil sample was not feasible under these conditions.
- Two soil borings (BH-32 and BH-33) were installed in the area of the former machine shop to assess whether impacts may have occurred to underlying soils at this location.

In addition to the sampling locations identified in the FSP, the following samples were added at the initiation of the fieldwork:

- Sample BH-34 was located in a central area of the main parcel in an area not previously investigated.
- Sample BH-35 was located on the west edge of the main parcel adjacent to a former sump area and in the area historically used as a coal yard.
- Sample BH-36 was located near the west edge of the northern parcel in an area not previously sampled.

- Sample SS-37 consisted of a composite near-surface sample collected from a soil pile near the north boundary of the north parcel that had not been previously characterized.

Soil samples were submitted for laboratory analysis of the following parameters:

- VOCs via EPA Method 8260.
- SVOCs via EPA Method 8270.
- TAL RCRA metals.

Samples were stored in coolers with ice packs and delivered to Brittonfield Laboratory for analysis. Sampling equipment was decontaminated between sample locations to minimize the potential for sample cross-contamination. Decontamination procedures included the following steps:

- Loose dirt was removed from the sampling equipment.
- The sampling tool was wiped with a moistened disposable towel.
- Equipment was placed in a 5-gallon bucket filled approximately three-quarters full with a solution of potable water and Alconox, and scrubbed with a brush.
- Following the wash, the equipment was rinsed with distilled water.
- Wash and rinse waters were disposed of on the foundry property surface.

An equipment blank was collected each day for quality control purposes. Equipment blank samples were collected by pouring laboratory-provided distilled water over the decontaminated sampling equipment and collecting the water. These samples were stored and shipped with the other samples, and analyzed for the same parameters as the soil samples.

3.2 Residential Soil Investigation

The following tasks were performed concurrently with the on-site investigation:

- Additional soil samples were collected at six residential properties. The properties were selected as being representative of low, medium and high concentrations of lead, based on previous results, , and included the following:
 - Two yards with high concentrations.
 - Two yards with medium concentrations.
 - Two yards with low concentrations.
- At each address, six discrete samples were collected for analysis of lead. The sample locations were chosen by James H. Craft, DEC Geologist. In addition, Mr. Craft used a portable x-ray fluorescence (XRF) instrument to screen soil samples, including one deeper coring from each property.
- As with the previous residential soil sampling performed in 2005, soil samples were collected at a depth just below the root zone and placed in 4-ounce glass jar containers. Sampling procedures were in accordance with the previous residential soil sampling, and samples were labeled by sample location and placed in a cooler with ice packs. The preserved samples were delivered to Brittonfield Laboratory for analysis of total lead via USEPA Method 6010/7000.
- A sketch of each yard was prepared showing the sample locations, structures and other pertinent information, such as locations of gardens and play areas.

In 2015, the DEC collected additional soil samples from numerous residential properties. The results of this sampling are not available at this time. It is anticipated that these results will be considered in determining the details of the off-site remedial program.

4.0 STANDARDS, CRITERIA AND GUIDANCE (SCGs)

The following guidance or regulatory criteria are applicable for evaluation of the analytical results obtained from the remedial investigation.

- **Groundwater:** New York Codes, Rules and Regulations, Title 6 (6NYCRR) Part 703 Groundwater Quality Standards and DEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1, *Ambient Water Quality Standards and Guidance Values*, dated June 1998, and including 2008 revised standards as applicable.
- **Soil:** 6NYCRR Part 375-6, *Remedial Program Soil Cleanup Objectives (SCOs)*, specifically the SCOs for *Unrestricted Use*, *Residential* and *Residential Restricted Use*.
- **Site Investigation and Remediation:** DEC *Technical Guidance for Site Investigation and Remediation* (DER-10), effective June 18, 2010, and 6NYCRR Part 375 *Environmental Remediation Programs*.

5.0 NATURE AND EXTENT OF CONTAMINATION

5.1 On-Site Investigation

Copies of the analytical results are included in Attachment 1 and summarized in Tables 1 through 3. The results are also presented visually in Figures 3 and 4. These results are discussed in more detail for the following sample locations:

Former Storage Building Located North of Jackson Street:

Soil samples BH-20-S, BH-20-D, BH-21-S and BH-21-D were collected from beneath the central and northern areas of the concrete slab remaining from the former storage building that was located north of Jackson Street. Samples had not previously been collected in this area.

Analytical results indicated detections of VOCs that were well below the respective SCOs, as defined in 6NYCRR, Part 375-6.8. These VOCs included acetone and methylene chloride, which were also detected in the trip blank for the day of sampling and may be attributable to laboratory contamination.

Two SVOCs were detected in the near surface soil sample at BH-20 at concentrations less than the respective SCOs. These compounds were benzo[a]anthracene and chrysene. The compounds were also identified as being present in the deeper sample from this location, but at concentrations less than the method detection limits (MDLs). Similarly, metals were detected at concentrations less than SCOs.

No VOCs or SVOCs were detected above the MDLs in either the shallow or deep soil samples at BH-36, located off the eastern edge of the asphalt pavement immediately east of the former building. Concentrations of metals did not exceed SCOs.

No VOCs or SVOCs were detected above SCOs in a composite sample (SS-37) from stockpiled soils located north of the former building and south of State Street. Chromium was detected at a concentration of 95 milligrams per kilogram (mg/Kg), which exceeded the SCO of 36 mg/Kg. However, since the source of the dirt pile is not known, the chromium may have originated from an off-site source.

Area of Former Monitoring Well MW-1:

Soil samples BH-22-S, BH-22-D and BH-23-S were collected immediately north of the former monitoring well MW-1 that was damaged during the demolition of the buildings. A groundwater sample from MW-1 had previously contained mercury at a concentration greater than groundwater standards. The shallow soil sample at BH-22 contained mercury at 0.39 mg/Kg, which is less than the SCO of 0.81 mg/Kg, while the deeper sample at BH-22 contained mercury at 1.0 mg/Kg, slightly exceeding the SCO. Due to refusal, only a shallow soil sample could be collected at BH-23. This sample was found to contain mercury below the SCO, at a concentration of 0.11 mg/Kg.

VOCs and SVOCs were not detected at these locations above SCOs.

In accordance with the FSP, a groundwater sample was collected from MW-1 for analysis of mercury. However, the well had been damaged during demolition of the north parcel building. The steel outer casing was broken loose and the inner PVC casing was broken off approximately 1.5 feet below the ground surface, with the remaining PVC casing crimped at the break. The 1.5-inch diameter bailer that had been brought for sampling the well could not be inserted down the crimped portion of the riser. On January 27, 2006, O'Brien & Gere returned to the site with a smaller diameter bailer and a groundwater sample was collected at that time. The groundwater sample was submitted for analysis of mercury as both filtered and unfiltered samples. The unfiltered sample contained mercury at 0.00022 milligrams per liter (mg/L), which is less than the State groundwater standard for mercury of 0.0007 mg/L. The filtered sample had no detectable mercury (with a detection limit of 0.0002 mg/L).

Area of Filled Pit in Northwest Area of Former Main Building:

Soil samples BH-24-S, BH-24-D, BH-25-S and BH-25-D were collected in the area of the filled former pit located in the northwest portion of the former main building, south of Jackson Street. VOCs were not detected above SCOs at these locations, but a few SVOCs were detected above their respective SCOs (refer to Table 3).

Mercury was the only metal detected in these soil samples above the SCO. Mercury was detected at a concentration of 1.2 mg/Kg in the shallow sample at BH-25, marginally exceeding the SCO of 0.81 mg/Kg. Mercury was detected at a concentration of 0.52 mg/Kg in the deeper sample at BH-25, indicating the impacted soil was limited to within 2 feet of the ground surface.

Area of Shaft/Pit Located West of Central Portion of Main Building:

Soil samples BH-26-S, BH-27-S and BH-27-D were collected at the former shaft/pit located just west of the central area of the main building. No VOCs, SVOCs or metals were detected in these samples at concentrations greater than SCOs.

Former Cleaning Room:

Soil samples BH-28-S, BH-28-D, BH-29-S and BH-29-D were collected near the former Cleaning Room in the main building, by a former sump structure that had not been previously sampled. VOCs were not detected in these samples at concentrations greater than SCOs. The shallow soil sample collected from BH-28 did not contain SVOCs greater than the MDL, but also had elevated detection limits. It is not clear what may have resulted in the elevated concentration in the shallow sample at this location. The sample collected less than 2 feet deeper at BH-28 contained chrysene at an estimated concentration of 45 micrograms per kilogram ($\mu\text{g/Kg}$), which is less than the MDL and the chrysene SCO of 1,000 $\mu\text{g/Kg}$.

The shallow sample collected from BH-29 contained three SVOCs that marginally exceeded the MDLs but were less than their respective SCOs. The sample collected less than 2 feet deeper at BH-29 did not contain detectable concentrations of SVOCs. Metals were not detected at concentrations greater than SCOs.

Former Sump Located South of the Cleaning Room:

Soil sample BH-30-S was collected in the area of the former sump located south of the Cleaning Room. A deeper soil sample was not collected at BH-30 due to refusal. Acetone and other VOCs had previously been detected in samples of sludge from this sump and the recent sampling was to assess whether underlying soils had been impacted in this area. VOCs were not detected in this sample at concentrations greater than applicable SCOs. Benzo[b]fluoranthene was detected at an estimated concentration of 2,400 $\mu\text{g/Kg}$, exceeding the SCO of 1,000 $\mu\text{g/Kg}$. Analytical detection limits for SVOCs were also elevated in this sample.

Both chromium and lead were detected at concentrations greater than SCOs. The concentration of chromium was 70 mg/Kg, exceeding the SCO of 36 mg/Kg. Lead was detected at 590 mg/Kg, exceeding the SCO of 400 mg/Kg.

Former Machine Shop:

Soil samples BH-32-S, BH-32-D and BH-33-S were collected in the area of the former machine shop to assess potential impacts to the underlying soils at this location. VOCs and SVOCs were not detected at concentrations exceeding SCOs at location BH-32. Five SVOCs were detected in BH-33-S at concentrations exceeding SCOs (refer to Table 3).

Central Area of Main Building:

Sample location BH-34 was added prior to the initiation of the field sampling to assess conditions in the central portion of the main building. VOCs were not detected in either of the soil samples from this location at concentrations greater than SCOs. SVOCs were not detected in the shallow soil sample, although analytical detection limits were elevated. The detection limits were normal in the deeper sample and SVOCs were not detected at concentrations exceeding SCOs. Chromium was detected in the shallow soil sample at a concentration of 48 mg/Kg, marginally exceeding the SCO of 36 mg/Kg. The deeper soil sample contained chromium at 2.1 mg/Kg, which is well below the SCO.

A dark sandy layer was observed at this sampling location from a depth of 0 to 6 inches, with layers of reddish sand and light brown sand between 18 to 24 inches below grade. Based on field observations and the elevated phenol concentration found in the deeper soil sample, the light brown layer may consist of foundry sand with a phenolic binder.

East Edge of Main Building near Former Sump and Former Coal Yard:

Sample location BH-35 was added prior to the initiation of field sampling to assess conditions at the west edge of the main parcel adjacent to a former sump area and in an area that was historically used as a coal yard. No VOCs, SVOCs and metals were detected at concentrations greater than the MDLs in either soil sample from this location.

5.2 Residential Soil Investigation

Copies of the analytical results from the 2005 and 2006 residential soil investigations are included in Attachment 1 and summarized in Tables 4 and 5. Table 5 also includes the analytical results from previous sampling at the same properties. Approximate sample locations (with the analytical results) are included on Figure 5 – Lead Results – Site Plan.

The results of the 2006 sampling are generally consistent with previous investigations, with the six residential properties (three on Jackson Street, two on State Street and one on Exchange Street) being discussed in more detail below:

Jackson Street Properties:

- The 2006 analytical lead results from one property ranged from 340 to 1,400 mg/Kg, with a mean from both the 2005 and 2006 samples of 860 mg/Kg. As shown on Figure 5, the lowest concentrations from both the 2005 and the 2006 samples were in the front yard, which is immediately across Jackson Street from the former foundry, and the highest concentrations were in the backyard. The cause of the higher concentrations of lead is not apparent.
- The 2006 analytical results from a second property ranged from 250 to 990 mg/Kg, with a mean from both the 2005 and 2006 samples of 470 mg/Kg. As shown on Figure 5, there is no clear pattern in the analytical results from this property, such as one area having consistently higher results than another area.
- The 2006 analytical results from a third property ranged from 470 to 840 mg/Kg, with a mean from both the 2005 and 2006 samples of 673 mg/Kg. As shown on Figure 5, there is no clear pattern in the analytical results from this property, such as one area having consistently higher results than another area.

State Street Properties:

- Some of the 2006 samples scheduled for one property were collected on the adjacent property to the west, which is part of the north parcel of the Geneva Foundry site. The 2006 analytical results ranged from 110 to 420 mg/Kg, with a mean from both the 2005 and 2006 samples of 257 mg/Kg. Collectively, these results are the lowest of the six properties sampled in 2006. As shown on Figure 5, three of the four soil samples collected from the adjacent Geneva Foundry parcel contained the three lowest concentrations of lead in this area. The four soil samples collected at 47 State Street have lower lead concentrations than the other residential samples.
- A second property contained the highest concentration of lead from the 2005 sample event. The 2006 analytical results ranged from 290 to 710 mg/Kg. The highest concentration in the 2006 sample event is approximately one third of the highest concentration from 2005, which was collected near the southwest corner of the residence and may have been impacted by lead-based paint from the residence. The mean from both the 2005 and 2006 samples is 650 mg/Kg. Excluding the results of the sample that may be influenced by lead-based paint, the mean concentration was 440 mg/Kg.

Exchange Street Property:

- This property is located adjacent to the east boundary of the main parcel of the Geneva Foundry site. The single highest concentration of lead from the 2006 sample event was from a sample collected in the backyard of this property near the former foundry building. The 2006 analytical results ranged from 640 to 2,000 mg/Kg, with a mean from both the 2005 and 2006 samples of 988 mg/Kg, which is the highest mean concentration for the six properties. One soil sample was collected from the front yard. This sample had the lowest concentration of lead at 490 mg/Kg. As shown on Figure 5, there is no clear pattern in the analytical results from this property, such as one area having consistently higher results than another area.

6.0 COMPARISON WITH STANDARDS, CRITERIA AND GUIDANCE

6.1 On-Site

Exceedances of appropriate SCGs are discussed for specific sample locations in the previous section and highlighted in Tables 1 through 5. In general, concentrations of VOCs were not found to exceed SCOs in any of the soil samples. The following SVOCs were detected at concentrations exceeding SCOs in one or more soil samples:

- Benzo[a]anthracene
- benzo[a]pyrene
- Benzo[b]fluoranthene
- Benzo[k]fluoranthene
- Chrysene
- Dibenz[a,h]anthracene
- Indeno[1,2,3-cd]pyrene

These SVOCs were found in several of the samples across the site and are typically found in developed areas. These compounds may be associated with coal ash, asphalt or heavier fuel oils.

Of the metals analyzed, mercury was detected at concentrations exceeding the SCO of 0.81 mg/Kg in two of the 29 samples. Mercury was detected in the shallow sample at BH-25 at a concentration of 1.2 mg/Kg, exceeding the SCO of 0.81 mg/Kg. The soil sample collected less than 2 feet deeper at BH-25 contained mercury at a concentration of 0.52 mg/Kg. Lead was detected in the shallow soil sample collected at BH-30 at a concentration of 590 mg/Kg, exceeding the SCO of 400 mg/Kg. Chromium was detected exceeding the SCO of 36 mg/Kg in three samples (BH-30-S, BH-34-S and composite sample SS-37).

6.2 Residential Properties

A total of 56 of the 118 residential soil samples collected in 2005 and 2006 had lead concentrations exceeding the residential SCO of 400 mg/kg. Only one of the 118 samples had a concentration below the unrestricted use SCO of 63 mg/kg. Twenty-five of the 42 properties sampled had at least one sample with lead exceeding the restricted residential SCO.

A total of 42 of the 82 residential soil samples collected in 2005 and 2006 had arsenic concentrations exceeding the restricted residential SCO of 16 mg/kg and 53 of the samples exceeded the unrestricted use SCO of 13 mg/kg.

7.0 DATA USABILITY

Data validation was conducted by O'Brien & Gere and a Data Usability Summary Report (DUSR) is included in Attachment 2. Sample processing was generally compliant with appropriate protocols, and most sample analyte values/reporting limits are usable.

The following table summarizes the sample results that were rejected as a result of the data validation process performed on the data, based on method criteria, validation guidance and professional judgment.

Analysis Type (Impacted Analytes)	Sample Identification	Qualifier	Excursion
<i>Volatile Organic Compounds (VOCs)</i> (1,1,2,2-tetrachloroethene, isopropylbenzene, 1,2,3-trichloropropane, bromobenzene, n-propylbenzene, 2-chlorotoluene 4-chlorotoluene, 1,3,5-trimethylbenzene, tert-butylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, 1,3-dichlorobenzene, p-isopropyltoluene, 1,4-dichlorobenzene, n-butylbenzene, 1,2-dichlorobenzene, 1,2-dibromo-3-chloropropane, 1,2,4-trichlorobenzene, hexachlorobutadiene, naphthalene, 1,2,3-trichlorobenzene)	BH-25-S and BH-34-S	R	Major Internal Standard Recovery Excursion
<i>Semi-Volatile Organic Compounds (SVOCs)</i> (benzoic acid)	Equipment Blanks 1/10/06 and 1/11/06	R	Major LCS Recovery Excursion

8.0 CONTAMINANT FATE AND TRANSPORT

The Geneva Foundry site is located in an urban area served by municipal water and sewer systems. The use of groundwater for potable water has not been identified in the vicinity of the site. Ground surfaces are generally covered with buildings, pavement or lawns or other vegetative cover. Railroad tracks are located west and south of the foundry property, with residential and commercial areas located across the tracks as well to the north and east. As previously noted, parameters of concern are largely limited to several SVOCs and metals. As noted in the 1999 Report, groundwater flows toward the south/southwest. Groundwater on the Geneva Foundry property was not found to be impacted. Although damaged during the demolition activities, well MW-1 was resampled in January 2006, with both filtered and unfiltered samples being analyzed for mercury. The 2006 results showed mercury at 0.22 µg/L in the unfiltered sample, which is less than the State groundwater standard of 0.7 µg/L. The filtered sample had no detectable concentration of mercury. Therefore, mercury does not appear to be migrating in groundwater.

Topography in the area of the Geneva Foundry site is relatively level, but slopes southeast toward Seneca Lake. Precipitation generally either infiltrates the ground surface or flows overland to municipal storm sewers that service the area.

9.0 QUALITATIVE HUMAN AND FISH/WILDLIFE EXPOSURE ASSESSMENT

9.1 Qualitative Human Exposure Assessment

Since groundwater is not used for potable water in the vicinity of the site, the following potential human health exposure pathways have been identified:

- Dermal contact, such as construction workers, with impacted soils.
- Inhalation of impacted dust.
- Consumption of produce grown in impacted soils.

The DEC SCOs are adequate to address potential risks associated with dermal contact via construction workers. The DEC SCOs are based in part on acceptable human health cancer risks (10^{-5} for Class C carcinogens and 10^{-6} for Class A and B carcinogens). In addition, the DEC levels are based on acceptable human health levels as calculated from reference doses (RFDs) as published in the EPA Health Effects Assessment Summary Tables (HEASTs). The appropriate cleanup objective is based on the criteria which produces the most stringent cleanup level. Therefore, protection for human receptors is adequately addressed by cutting potential pathways to concentrations that exceed SCOs.

9.2 Qualitative Fish/Wildlife Exposure Assessment

Potential fish/wildlife exposure pathways include the following:

- Direct ingestion of impacted soil by invertebrates.
- Food chain exposure pathway.

There are no surface water bodies identified on the site, except for occasional pooling of precipitation on concrete surfaces. Since removal of the existing concrete slabs is proposed and the final site surface is to be graded to drain surface water, aquatic exposure to site contaminants are not expected.

10.0 SUMMARY AND CONCLUSIONS

10.1 Summary

There are currently no specific plans to redevelop the Geneva Foundry property. However, to improve the aesthetics of the property and allow some recreational use, the City plans to remove the remaining concrete slabs and foundations, regrade the property and plant grass that will be maintained by occasional mowing. The following summarizes the findings of the Supplemental Remedial Investigation:

- Groundwater does not appear to be impacted from the Geneva Foundry site.
- Five soil samples on the foundry site contained concentrations of metals exceeding SCO. The concentration of mercury exceeded the SCO in the shallow sample at BH-25, but was less than the SCO in the soil sample collected 2 feet lower. Only a shallow sample was collected at BH-30 due to refusal. This sample exceeded the SCOs for chromium and lead. The composite soil sample of the soil pile located on the north parcel (SS-37) exceeded the SCO for chromium.
- The additional following SVOCs were also detected at concentrations that exceeded their respective SCOs in one or more soil samples:
 - Benzo[a]anthracene
 - benzo[a]pyrene
 - Benzo[b]fluoranthene
 - Benzo[k]fluoranthene
 - Chrysene
 - Dibenz[a,h]anthracene
 - Indeno[1,2,3-cd]pyrene

These compounds are often associated with coal or wood ash, asphalt or heavier fuel oils.

- The highest arithmetic mean for lead concentrations at the residential properties was 988 mg/Kg at 234 Exchange Street. Lead concentrations in soil were generally lower in samples collected from the former foundry site compared to the surrounding residential properties. Twenty-five of the 41 residential properties sampled in 2005 and 2006 contained one or more samples that exceeded the restricted residential SCOs.

- A total of 42 of the 82 residential soil samples collected in 2005 and 2006 had arsenic concentrations exceeding the restricted residential SCO of 16 mg/kg and 53 of the samples exceeded the unrestricted use SCO of 13 mg/kg.

10.2 Conclusions

Based on the findings presented in this report, the following remedial actions are recommended:

- The concrete slabs and foundations should be removed to allow future development of the property.
- The floor elevation is several feet higher than the surrounding grade along the eastern edge of the main building. If soil is to be removed for off-site disposal, representative soil samples should be collected and analyzed for SVOCs and RCRA metals prior to arranging for appropriate disposal.

11.0 ALTERNATIVE ANALYSIS

11.1 Identification of On-Site Alternatives

In order to address recommended remedial actions, the following alternatives have been considered:

Alternative 1 - No Action:

Since the remaining concrete slabs and foundations need to be removed to complete the demolition process, the *No Action* alternative would include removal of these structures, regrading the exposed soils and establishment of a vegetative cover. Institutional/Engineering Controls (IC/ECs), such as deed restrictions, would be a necessary component of this alternative.

Alternative 2 - Remediation to Restricted Use for Industrial SCOs:

This alternative would involve the excavation and off-site disposal of impacted soils in the vicinity of BH-24, BH-25 and BH-33, all of which marginally exceeded the SCO of 1,100 µg/Kg for benzo[a]pyrene. A deed restriction would be necessary for industrial use only of the property.

Alternative 3 - Remediation to Restricted Use for Residential SCOs:

This alternative would include the excavation and off-site disposal of subsurface soils in the vicinity of the borings BH-22, BH-24, BH-25, BH-30 and BH-33 following the removal of the concrete slab. Soil that is visually identified as being contaminated in these areas would be removed, and confirmation samples collected from the excavation bottom and sides for laboratory analysis of SVOCs via EPA Method 8270. If the concentrations in the confirmation samples are less than SCOs, remediation of these areas will be deemed complete. In addition, soil piles located north of the former storage building on the north parcel would be removed for off-site disposal. A composite sample from this soil (BH-27) exceeded SCOs for chromium and mercury. One composite soil sample would be collected from the surface of the cleared area for analysis of chromium and mercury. If the concentrations in the confirmation sample are less than the SCOs, remediation of these areas will be deemed complete. IC/ECs for the foundry property, such as deed restrictions, would be a necessary component of this alternative. The site would then be regraded and covered with clean fill, and vegetative cover would be planted.

Alternative 4 - Remediation to Unrestricted SCOs:

This alternative would include the excavation and off-site disposal of on-site soils that exceed SCOs for unrestricted use. This alternative would allow the site to be used for any purpose after remediation is complete, with no IC/ECs. Fourteen of the 17 boring locations had at least one sample that exceeded an SCO of at least one SVOC or metal, as well as the composite sample from the soil piles on the north parcel. While the full vertical and horizontal extent of these areas has not been delineated, the evaluation of this alternative assumes that approximately one half of

the Geneva Foundry property would need to be excavated to a depth of 2 feet. No deed restrictions would be necessary under this alternative.

11.2 Analysis

The identified alternatives for the former Geneva Foundry property have been evaluated with the eight remedy selection factors (refer to Table 6).

Alternative 1, the *No Action* alternative, is the least costly option since no action other than grading and establishing a vegetative cover is involved. However, this option would leave in place areas with exceedances of SCOs for several SVOCs and metals. This option would be readily implementable and would improve the appearance of the site. However, future use of the property by the community would not be feasible.

Alternative 2 would remove site contaminants that exceeded the SCOs for restricted use for industrial purposes. As with Alternative 1, a vegetative cover would be established. This option provides improved protection of public health and the environment, but would restrict the potential reuse of the property to industrial uses. While previously used for industrial purposes, the property is located in an area of residential and commercial uses, with access from a narrow, dead end residential street. Therefore, the 2.1-acre property may not be attractive for future industrial use. At an estimated cost of \$130,078, this option is more expensive than the No Action alternative. However, it is significantly less than the Unrestricted alternative. Since some impacted materials would remain, IC/ECs would be incorporated into the remedy.

Alternative 3 involves the remediation of the property to the SCOs associated with restricted use for residential purposes. Following removal of site contaminants, the areas would be backfilled and graded. This alternative would allow residential uses, subject to IC/ECs, with the restrictions noted in 6NYCRR Part 375-1.8. As previously noted, residential use is a more probable future use of the property, due to its location on a dead end residential street. The estimated cost to implement Alternative 3 is \$242,697.

Alternative 4, the Unrestricted remedy, will require the removal of an average depth of approximately 4 feet of material from fourteen areas across the site and placement of clean fill. Since complete compliance with SCGs is expected, IC/ECs would not be required. The estimated cost for this alternative is \$1,071,406. This option is more than eight times the cost of Alternative 2 and would not provide a significant improvement to the protection of human health or the environment. Implementability would also be more difficult and disruptive to the community, due to increased truck traffic and construction activities.

11.3 Analysis of Alternatives for Residential Properties

Another round of near surface soil samples was collected in late 2015. Results of the 2015 residential soil sampling program will be presented under separate cover. Therefore, the residential alternatives are not being represented as remedial options at this time. Due to the small size of most of the residential properties, alternatives for addressing residential soils impacted by lead and arsenic have been limited to the following:

Alternative 1: No action.

Alternative 2: Placement of a demarcation layer below a 1-foot layer of imported clean fill in areas where surface soils exceed residential SCOs. The remediated area will be revegetated with grass.

Alternative 3: Excavation of 1 foot of soil for off-site disposal, followed by placement of a 1-foot layer of imported clean fill in areas where surface soils exceed restricted residential SCOs. The remediated area will be revegetated with grass.

Alternative 4: Excavation of 0.5 foot of soil for off-site disposal, followed by placement of a 1-foot layer of imported clean fill in areas where surface soils exceed restricted residential SCOs. The remediated area will be revegetated with grass.

An alternative to remediate to unrestricted use SCOs is not considered feasible, since virtually all samples exceeded the unrestricted use SCO for lead. Remediation to the residential SCO is considered to be adequately protective.

Since areas to be remediated are in the process of being further defined, the full alternatives cannot be defined at this time and have been partially evaluated via a comparison of unit costs. For evaluation purposes, each alternative assumed a remedial unit of 1,000 square feet, with the designated depth being remediated. The estimated unit costs for the three options are \$13,186 per 1,000-square foot unit for Alternative 2, \$21,466 per 1,000-square foot unit for Alternative 3 and \$18,136 per 1,000-square foot unit for Alternative 4.

11.4 Recommended Alternative

On-Site Remediation:

Based on the previous analysis of alternatives, Alternative 3, the excavation and off-site disposal of selected areas of the former Geneva Foundry property to SCOs for restricted residential use, is the recommended alternative. This option provides for a significant reduction in the volume of impacted soil and would allow re-use of the site for low maintenance recreational uses until other redevelopment options become available.

Off-Site Remediation:

The properties to be remediated and the alternative selection will be determined in consultation with the DEC following receipt of the 2015 data.

FIGURES



REF.: USGS - GENEVA SOUTH (NY) QUAD., 2013, 7.5 MIN. SCALE: 1"=2000'

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PROJECT:

DWG. TITLE:

CLIENT:

LOCATION:

GENEVA FOUNDRY SITE

SITE LOCATION MAP

CITY OF GENEVA

CITY OF GENEVA, ONTARIO COUNTY, NEW YORK

Note: No alteration permitted herein except as provided under Section 7209 Subdivision 2 of the New York State Education Law.

PROJECT No.: 2015003(SRIA)

FILE NAME: **FIGURE 1**

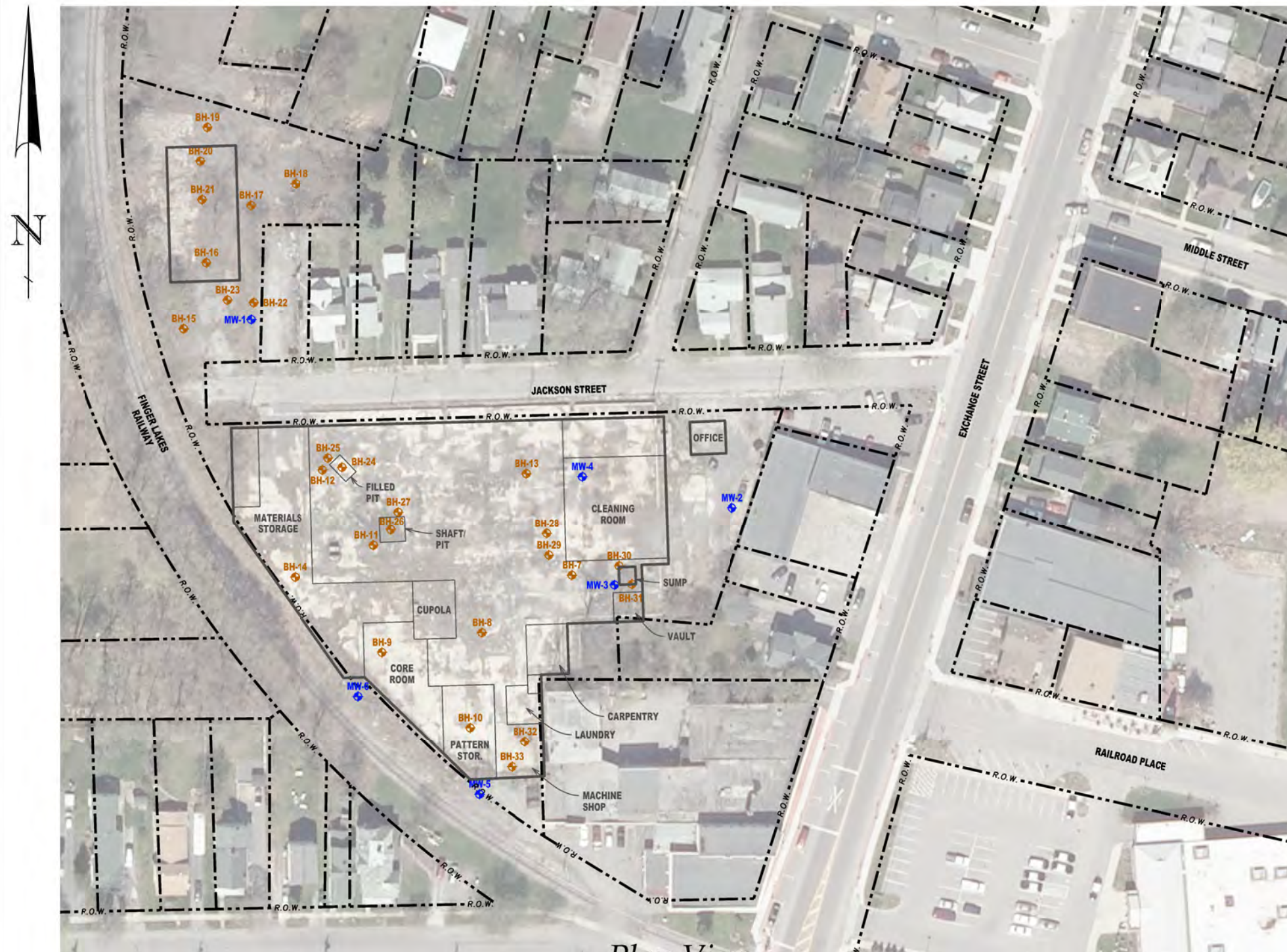
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DATE: **DEC 2015**

ENG'D BY: **DKM**

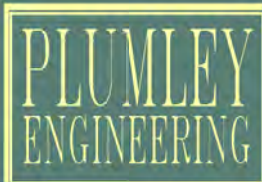
DRAWN BY: **JMD**

CHECKED BY: **DRV**



- R.O.W. --- Right of Way
- Property Line
- MW-1 Monitoring Well (Installed by Others)
- BH-15 Soil Boring (Performed by Others)

Plan View



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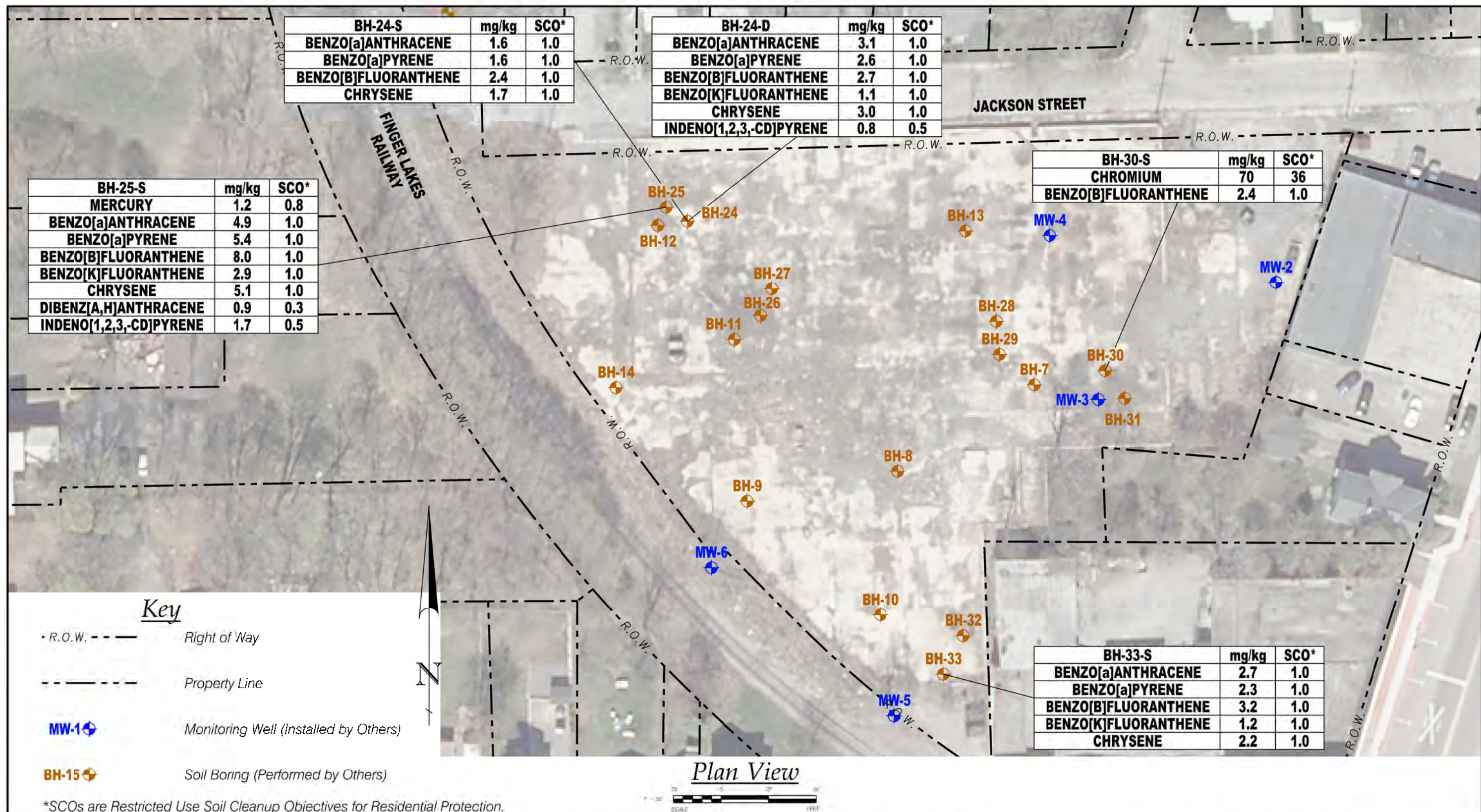
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PROJECT: **GENEVA FOUNDRY SITE**
 DWG. TITLE: **SAMPLE LOCATIONS - SITE PLAN**
 CLIENT: **CITY OF GENEVA**
 LOCATION: **CITY OF GENEVA, ONTARIO COUNTY, NEW YORK**
 Note: No alteration permitted hereon except as provided under Section 7209 Subdivision 2 of the New York State Education Law.

PROJECT No.: 2015003
 FILE NAME: FIGURE2(SRIAA)
 SCALE: AS NOTED
 DATE: DEC. 2015
 ENGD BY: DKM
 DRAWN BY: JMD
 CHECKED BY: DRV

SHEET NO.: **FIGURE 2**
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BH-24-S	mg/kg	SCO*
BENZO[a]ANTHRACENE	1.6	1.0
BENZO[a]PYRENE	1.6	1.0
BENZO[b]FLUORANTHENE	2.4	1.0
CHRYSENE	1.7	1.0

BH-24-D	mg/kg	SCO*
BENZO[a]ANTHRACENE	3.1	1.0
BENZO[a]PYRENE	2.6	1.0
BENZO[b]FLUORANTHENE	2.7	1.0
BENZO[k]FLUORANTHENE	1.1	1.0
CHRYSENE	3.0	1.0
INDENO[1,2,3-CD]PYRENE	0.8	0.5

BH-25-S	mg/kg	SCO*
MERCURY	1.2	0.8
BENZO[a]ANTHRACENE	4.9	1.0
BENZO[a]PYRENE	5.4	1.0
BENZO[b]FLUORANTHENE	8.0	1.0
BENZO[k]FLUORANTHENE	2.9	1.0
CHRYSENE	5.1	1.0
DIBENZ[A,H]ANTHRACENE	0.9	0.3
INDENO[1,2,3-CD]PYRENE	1.7	0.5

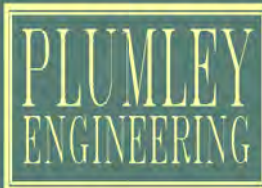
BH-30-S	mg/kg	SCO*
CHROMIUM	70	36
BENZO[b]FLUORANTHENE	2.4	1.0

BH-33-S	mg/kg	SCO*
BENZO[a]ANTHRACENE	2.7	1.0
BENZO[a]PYRENE	2.3	1.0
BENZO[b]FLUORANTHENE	3.2	1.0
BENZO[k]FLUORANTHENE	1.2	1.0
CHRYSENE	2.2	1.0

- Key**
- R.O.W. - - - - - Right of Way
 - - - - - Property Line
 - MW-1 Monitoring Well (Installed by Others)
 - BH-15 Soil Boring (Performed by Others)

*SCOs are Restricted Use Soil Cleanup Objectives for Residential Protection.

Plan View



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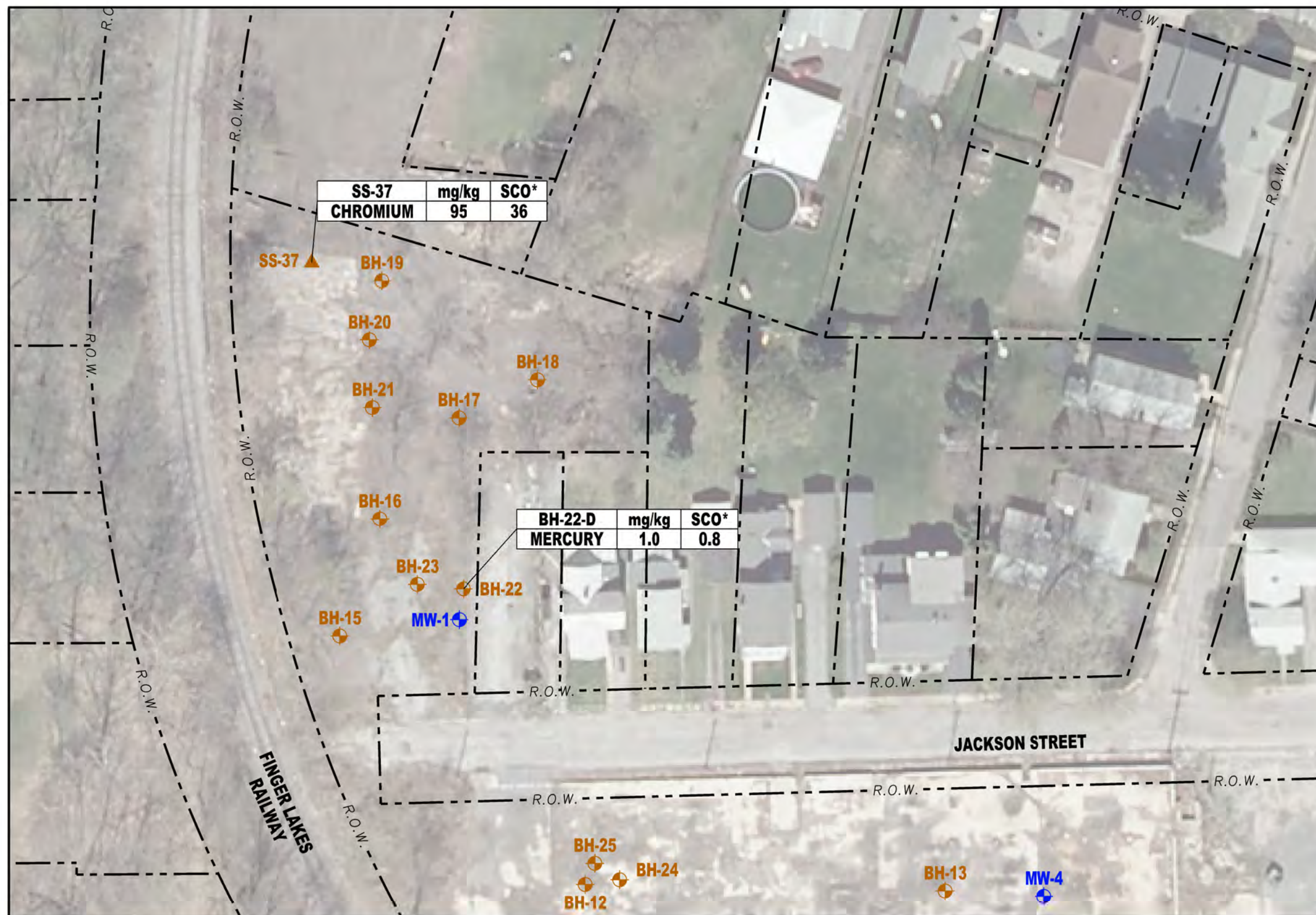
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PROJECT: **GENEVA FOUNDRY SITE**
DWG. TITLE: **EXCEEDANCE OF SCO's - MAIN SITE**
CLIENT: **CITY OF GENEVA**
LOCATION: **CITY OF GENEVA, ONTARIO COUNTY, NEW YORK**
Note: No alteration permitted hereon except as provided under Section 7209 Subdivision 2 of the New York State Education Law.

PROJECT No.: 2015003
FILE NAME.: FIGURE3(SRIA4)
SCALE: AS NOTED
DATE: DEC. 2015
ENGD BY: DKM
DRAWN BY: JMD
CHECKED BY: DRV

SHEET NO.: **FIGURE 3**
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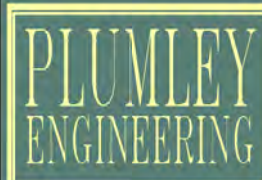
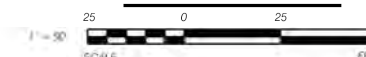


Key

- R.O.W. --- Right of Way
- Property Line
- MW-1 Monitoring Well (Installed by Others)
- BH-15 Soil Boring (Performed by Others)
- SS-37 Surface Soil Sample (Collected by Others)

*SCOs are Restricted Use Soil Cleanup Objectives for Residential Protection.

Plan View



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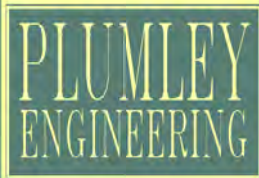
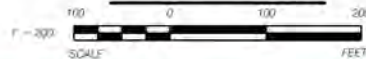
PROJECT: **GENEVA FOUNDRY SITE**
 DWG. TITLE: **EXCEEDANCE OF SCO's - NORTH PARCEL**
 CLIENT: **CITY OF GENEVA**
 LOCATION: **CITY OF GENEVA, ONTARIO COUNTY, NEW YORK**
 Note: No alteration permitted hereon except as provided under Section 7209 Subdivision 2 of the New York State Education Law.

PROJECT No.: 2015003
 FILE NAME: FIGURE4(SRIA4)
 SCALE: AS NOTED
 DATE: DEC. 2015
 ENGD BY: DKM
 DRAWN BY: JMD
 CHECKED BY: DRV

SHEET NO.: **FIGURE 4**
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Plan View



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PROJECT:

GENEVA FOUNDRY SITE

DWG. TITLE:

LEAD RESULTS - SITE PLAN

CLIENT:

CITY OF GENEVA

LOCATION:

CITY OF GENEVA, ONTARIO COUNTY, NEW YORK

Note: No alteration permitted hereon except as provided under Section 7209 Subdivision 2 of the New York State Education Law.

PROJECT No.: 2015003
FILE NAME.: EV01P(SRIAA)
SCALE: AS NOTED
DATE: JAN. 2015
ENGD BY: DKM
DRAWN BY: JMD
CHECKED BY: DRV

SHEET NO.:

FIGURE 5

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TABLES

GENEVA FOUNDRY SITE
City of Geneva, Ontario County, New York
ERP SITE #B00019

TABLE 1 - SUMMARY OF SOIL ANALYTICAL RESULTS (VOCs) - JANUARY 2006

COMPOUND	Restricted Use Soil Cleanup Objective ¹ (µg/kg)	20-S	20-D	21-S	21-D	22-S	22-D	23-S	24-S	24-D	25-S	25-D	26-S	27-S	27-D	28-S	28-D	29-S	29-D	30-S	32-S	32-D
1,2,4-Trimethylbenzene	47,000	1.4 J	<2.9	<2.9	<2.9	<2.9	<2.9	<6.7	<3.1	<3.5	<3.1	<3.1	<2.9	<3.3	<3.2	<2.9	<3.1	<2.9	<3.1	<3.2	<3.1	<2.9
1,3,5-Trimethylbenzene	47,000	0.76 J	<2.9	<2.9	<2.9	<2.9	<2.9	<6.7	<3.1	<3.5	<3.1	<3.1	<2.9	<3.3	<3.2	<2.9	<3.1	<2.9	<3.1	<3.2	<3.1	<2.9
2-Butanone	100,000	2.0 J	1.8 J	<12	<12	<12	<12	<27	<12	<14	<12	<12	<11	<13	<13	<11	<12	<11	<13	<13	<12	<12
Acetone	100,000	10 J	4.4 J	3.0 J	2.5 J	2.1 J	2.0 J	5.5 J	2.1 J	2.3 J	3.3 J	3.5 J	1.4 J	2.3 J	2.1 J	3.0 J	2.4 J	2.6 J	1.8 J	2.9 J	1.6 J	1.6 J
Carbon disulfide	NL	5.6	2.2 J	<2.9	0.66 J	<2.9	<2.9	<6.7	1.3 J	<3.5	<3.1	<3.1	0.73 J	<3.3	<3.2	<2.9	<3.1	<2.9	<3.1	1.9 J	<3.1	<2.9
Methylene chloride	51,000	1.4 J	1.4 J	0.95 J	0.72 J	0.68 J	<5.8	1.4 J	1.1 J	<7.0	1.5 J	0.80 J	0.62 J	<6.6	0.79 J	0.81 J	<6.2	<5.7	<6.3	5.1 J	1.4 J	4.5 J
Naphthalene	100,000	<5.7	<5.8	<5.8	<5.9	<5.9	<5.8	8.1 J	0.65 J	<7.0	<6.2	<6.2	<5.7	<6.6	<6.3	<5.7	<6.2	<5.7	<6.3	0.80 J	<6.2	<5.9
Tetrachloroethene	5,500	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<6.7	<3.1	<3.5	<3.1	<3.1	<2.9	<3.3	<3.2	0.57 J	<3.1	<2.9	<3.1	<3.2	4.7	21
Toluene	100,000	1.4 J	0.93 J	<2.9	<2.9	<2.9	<2.9	<6.7	<3.1	<3.5	<3.1	<3.1	0.61 J	<3.3	<3.2	<2.9	<3.1	<2.9	<3.1	1.9 J	<3.1	<2.9
Trichlorofluoromethane	NL	<5.7	<5.8	<5.8	<5.9	<5.9	<5.8	<13	<6.2	<7.0	<6.2	<6.2	<5.7	<6.6	<6.3	1.2 J	<6.2	<5.7	<6.3	<6.3	<6.2	<5.9
Xylenes (total)	100,000	2.7 J	0.98 J	<5.8	<5.9	<5.9	<5.8	<13	<6.2	<7.0	<6.2	<6.2	<5.7	<6.6	<6.3	<5.7	<6.2	<5.7	<6.3	<6.3	<6.2	<5.9

COMPOUND	Restricted Use Soil Cleanup Objective ¹ (µg/kg)	34-S	34-D	35-S	35-D	36-S	36-D	37	1/10/06 Equip.	1/11/06 Equip.	Trip Blank
1,2,4-Trimethylbenzene	47,000	<3.1	1.4 J	<3.1	<3.2	<2.6	<2.9	<3.0	<2.5	<2.5	<2.5
1,3,5-Trimethylbenzene	47,000	<3.1	4.0	<3.1	<3.2	<2.6	<2.9	<3.0	<2.5	<2.5	<2.5
2-Butanone	100,000	<12	<11	<12	<13	<10	<10	<12	<10	<10	<10
Acetone	100,000	2.7 J	1.3 J	1.9 J	20 J	1.6 J	2.4 J	2.9 J	1.8 J	1.8 J	1.8 J
Carbon disulfide	NL	<3.1	<2.7	<3.1	<3.2	<2.6	<2.9	<3.0	<2.5	<2.5	<2.5
Methylene chloride	51,000	1.2 J	8.0	<6.1	<6.3	1.1 J	0.91 J	<6.0	0.61 J	0.62 J	<5.0
Naphthalene	100,000	<6.1	1.3 J	<6.1	<6.3	<5.2	<5.7	<6.0	<5.0	<5.0	<5.0
Tetrachloroethene	5,500	<3.1	<2.7	<3.1	<3.2	<2.6	<2.9	<3.0	<2.5	<2.5	<2.5
Toluene	100,000	0.76 J	<2.7	<3.1	<3.2	<2.6	<2.9	<3.0	<2.5	<2.5	<2.5
Trichlorofluoromethane	NL	<6.1	<5.4	<6.1	<6.3	<5.2	<5.7	<6.0	<5.0	<5.0	<5.0
Xylenes (total)	100,000	<6.1	<5.4	<6.1	<6.3	<5.2	<5.7	<6.0	<5.0	<5.0	<5.0

Notes:

¹New York Codes, Rules and Regulations, Title 6 (6 NYCRR), Part 375-6.8, *Restricted Use Soil Cleanup Objectives for Residential Protection of Public Health*.

NL None Listed

µg/kg micrograms per kilogram, equivalent to parts per billion (ppb)

J Estimated Value

GENEVA FOUNDRY SITE
City of Geneva, Ontario County, New York
ERP SITE #B00019

TABLE 2 - SUMMARY OF SOIL ANALYTICAL RESULTS (SVOCs) - JANUARY 2006

COMPOUND	Restricted Use Soil Cleanup Objective ¹ (µg/kg)	20-S	20-D	21-S	21-D	22-S	22-D	23-S	24-S	24-D	25-S	25-D	26-S	27-S	27-D	28-S	28-D	29-S	29-D
2-Methylnaphthalene	NL	1,100	190 J	<380	<390	220 J	86 J	1,100 J	350 J	<460	450	99 J	<380	73 J	<420	<38,000	<410	47 J	<410
4-Chloro-3-methylphenol	NL	<380	<380	<380	<390	<390	<380	<1,800	<410	<460	<410	<410	<380	<440	<420	<38,000	<410	<380	<410
4-Methyphenol	NL	<380	<380	<380	<390	<390	<380	<1,800	<410	<460	63 J	65 J	<380	<440	<420	<38,000	<410	<380	<410
Acenaphthene	100,000	<380	<380	<380	<390	<390	<380	<1,800	120 J	100 J	91 J	<410	<380	<440	<420	<38,000	<410	<380	<410
Acenaphthylene	100,000	<380	<380	<380	<390	60 J	<380	<1,800	220 J	280 J	1,000	100 J	<380	<440	<420	<38,000	<410	77 J	<410
Anthracene	100,000	64 J	<380	<380	66 J	88 J	92 J	<1,800	540	960	930	270 J	<380	<440	<420	<38,000	<410	130 J	<410
Benzo[a]anthracene	1,000	390	120 J	61 J	270 J	420	350 J	320 J	1,600	3,100	4,900	650	44 J	100 J	83 J	<38,000	<410	480	<410
Benzo[a]pyrene	1,000	400	120 J	74 J	280 J	480	460	320 J	1,600	2,600	5,400	590	39 J	110 J	110 J	<38,000	<410	470	<410
Benzo[b]fluoranthene	1,000	700	190 J	120 J	430	850	690	690 J	2,400	2,700	8,000	810	62 J	190 J	120 J	<38,000	<410	730	<410
Benzo[g,h,i]perylene	100,000	220 J	73 J	49 J	15 J	270 J	260 J	230 J	820	1,100	2,700	270 J	<380	70 J	<420	<38,000	<410	230 J	<410
Benzo[k]fluoranthene	1,000	200 J	63 J	<380	170 J	270 J	240 J	180 J	920	1,100	2,900	300 J	<380	61 J	43 J	<38,000	<410	280 J	<410
bis(2-Ethylhexyl)phthalate	NL	100 J	71 J	43 J	53 J	160 J	140 J	<1,800	260 J	100 J	250 J	<410	120 J	72 J	<420	<38,000	<410	180 J	<410
Chrysene	1,000	650	150 J	81 J	350 J	540	420	540 J	1,700	3,000	5,100	630	47 J	120 J	76 J	<38,000	45 J	560	<410
Di-n-butyl phthalate	NL	76 J	88 J	56 J	60 J	58 J	<380	<1,800	<410	56 J	51 J	<410	<380	52 J	<420	<38,000	<410	110 J	<410
Dibenz[a,h]anthracene	330	72 J	<380	<380	49 J	75 J	69 J	<1,800	270 J	280 J	970	77 J	<380	<440	<420	<38,000	<410	81 J	<410
Dibenzofuran	NL	300 J	56 J	<380	<390	76 J	45 J	<1,800	270 J	<460	310 J	81 J	<380	<440	<420	<38,000	<410	49 J	<410
Fluoranthene	100,000	760	210 J	120 J	570	690	550	400 J	2,900	5,700	6,100	1,500	72 J	150 J	57 J	<38,000	<410	1,200	<410
Fluorene	100,000	<380	<380	<380	<390	<390	42 J	<1,800	220 J	160 J	190 J	69 J	<380	<440	<420	<38,000	<410	53 J	<410
Indeno[1,2,3-cd]pyrene	500	140 J	60 J	40 J	110 J	150 J	170 J	<1,800	490	780	1,700	200 J	<380	<440	<420	<38,000	<410	160 J	<410
Naphthalene	100,000	590	120 J	<380	<390	180 J	84 J	320 J	330 J	<460	600	160 J	<380	84 J	<420	<38,000	<410	43 J	<410
Phenanthrene	100,000	1,200	190 J	50 J	370 J	480	400	900 J	2,300	3,300	3,000	1,000	54 J	130 J	<420	<38,000	<410	820	<410
Phenol	100,000	<380	<380	<380	<390	40 J	<380	<1,800	55 J	<460	100 J	<410	<380	<440	<420	<38,000	<410	<380	<410
Pyrene	100,000	750	180 J	100 J	470	680	520	560 J	3,200	6,000	5,700	1,200	66 J	180 J	63 J	<38,000	<410	1,100	<410

GENEVA FOUNDRY SITE
City of Geneva, Ontario County, New York
ERP SITE #B00019

TABLE 2 - SUMMARY OF SOIL ANALYTICAL RESULTS (SVOCs) - JANUARY 2006

COMPOUND	Restricted Use Soil Cleanup Objective ¹ (µg/kg)	30-S	32-S	32-D	33-S	34-S	34-D	35-S	35-D	36-S	36-D	37	1/10 EB	1/11 EB
2-Methylnaphthalene	NL	<21,000	<410	<390	180 J	<20,000	760	<400	<420	<1,700	<370	400	<11	<11
4-Chloro-3-methylphenol	NL	<21,000	<410	<390	<390	<20,000	<360	<400	<420	<1,700	<370	120 J	<11	<11
4-Methylphenol	NL	<21,000	<410	<390	<390	<20,000	590	<400	<420	<1,700	<370	<390	<11	<11
Acenaphthene	100,000	<21,000	<410	<390	400 J	<20,000	<360	<400	<420	<1,700	<370	<390	<11	<11
Acenaphthylene	100,000	<21,000	<410	<390	150 J	<20,000	<360	<400	<420	<1,700	<370	<390	<11	<11
Anthracene	100,000	<21,000	<410	<390	1,100	<20,000	<360	<400	<420	<1,700	<370	<390	<11	<11
Benzo[a]anthracene	1,000	<21,000	75 J	71 J	2,700	<20,000	45 J	68 J	<420	<1,700	<370	130 J	<11	<11
Benzo[a]pyrene	1,000	<21,000	83 J	73 J	2,300	<20,000	62 J	55 J	<420	<1,700	<370	150 J	<11	<11
Benzo[b]fluoranthene	1,000	2,400 J	140 J	120 J	3,200	<20,000	94 J	86 J	<420	<1,700	<370	280 J	<11	<11
Benzo[g,h,i]perylene	100,000	<21,000	48 J	<390	790	<20,000	65 J	<400	<420	<1,700	<370	75 J	<11	<11
Benzo[k]fluoranthene	1,000	<21,000	58 J	<390	1,200	<20,000	<360	<400	<420	<1,700	<370	93 J	<11	<11
Bis(2-Ethylhexyl)phthalate	NL	<21,000	53 J	<390	76 J	<20,000	190 J	<400	69 J	<1,700	<370	160 J	<11	<11
Chrysene	1,000	<21,000	120 J	79 J	2,200	<20,000	75 J	63 J	<420	<1,700	<370	210 J	<11	<11
Di-n-butyl phthalate	NL	<21,000	<410	<390	57 J	<20,000	370	<400	<420	<1,700	38 J	280 J	<11	<11
Dibenz[a,h]anthracene	330	<21,000	<410	<390	290 J	<20,000	<360	<400	<420	<1,700	<370	<390	<11	<11
Dibenzofuran	NL	<21,000	<410	<390	270 J	<20,000	73 J	<400	<420	<1,700	<370	48 J	<11	<11
Fluoranthene	100,000	3,500 J	170 J	95 J	5,400	<20,000	83 J	130 J	<420	<1,700	<370	320 J	<11	<11
Fluorene	100,000	<21,000	<410	<390	440	<20,000	<360	<400	<420	<1,700	<370	<390	<11	<11
Indeno[1,2,3-cd]pyrene	500	<21,000	<410	<390	440	<20,000	<360	<400	<420	<1,700	<370	50 J	<11	<11
Naphthalene	100,000	<21,000	<410	<390	280 J	<20,000	2,700	<400	<420	<1,700	<370	1,500	<11	<11
Phenanthrene	100,000	3,900 J	100 J	49 J	3,300	<20,000	480	110 J	<420	<1,700	<370	310 J	<11	<11
Phenol	100,000	6,400 J	<410	<390	<390	<20,000	47,000	<400	<420	<1,700	<370	860	<11	<11
Pyrene	100,000	3,700 J	200 J	90 J	5,100	<20,000	140 J	100 J	<420	<1,700	<370	280 J	<11	<11

Notes:

¹New York Codes, Rules and Regulations, Title 6 (6 NYCRR), Part 375-6.8, *Restricted Use Soil Cleanup Objectives for Residential Protection of Public Health* .

NL None Listed

µg/kg micrograms per kilogram, equivalent to parts per billion (ppb)

J Estimated Value

Concentrations exceeding soil cleanup objectives denoted in **BOLD** .

GENEVA FOUNDRY SITE
City of Geneva, Ontario County, New York
ERP SITE #B00019

TABLE 3 - SUMMARY OF SOIL ANALYTICAL RESULTS (METALS) - JANUARY 2006

COMPOUND	Restricted Use Soil Cleanup Objective ¹ (mg/kg)	20-S	20-D	21-S	21-D	22-S	22-D	23-S	24-S	24-D	25-S	25-D	26-S	27-S	27-D	28-S	28-D
Aluminum	NL	4,900	8,200	6,400	4,900	5,100	5,100	2,400	9,300	19,000	4,800	6,500	6,800	5,300	12,000	5,500	10,000
Antimony	NL	0.74 J	0.91 J	<6.9	0.49 J	1.0 J	0.38 J	0.73 J	0.74 J	<8.4	1.2 J	<7.5	0.60 J	0.30 J	<7.6	3.2 J	0.29 J
Arsenic	16	9.3	6.4	2.8	7.4	9.6	8.9	6.6	10	5.5	10	6.1	5.2	3.5	6.5	7.5	
Barium	350	63	63	220	110	85	160	4.6	140	210	110	100	49	40	99	130	74
Beryllium	14	0.39 J	0.60 J	0.32 J	0.32 J	0.35 J	0.44 J	0.29 J	0.69 J	1.3 J	0.44 J	0.57 J	0.37 J	0.28 J	0.65 J	0.29 J	.050 J
Cadmium	2.5	0.055 J	0.030 J	1.0 J	<1.2	1.3	0.24 J	0.34 J	0.99 J	0.52 J	1.4	0.19 J	0.30 J	0.24 J	0.17 J	0.67 J	0.25 J
Calcium	NL	97,000	40,000	200,000	130,000	63,000	38,000	130,000	12,000	5,000	35,000	12,000	25,000	22,000	5,600	35,000	10,000
Chromium	36	10	12	8.6	9.4	20	11	8.1	18	24	22	9.3	12	11	20	30	15
Cobalt	NL	5.2 J	5.0 J	3.3 J	3.4 J	4.6 J	5.1 J	3.0 J	6.9	12	5.1 J	6.6	3.8 J	2.6 J	8.9	4.4 J	6.8
Copper	270	25	18	6.0	12	53	25	25	38	24	91	21	14	13	25	53	62
Iron	NL	39,000	42,000	8,200	18,000	29,000	14,000	9,700	22,000	24,000	33,000	13,000	38,000	14,000	23,000	35,000	19,000
Lead	400	69	28	21	15	320	150	160	290	27	370	58	25	53	74	120	98
Magnesium	NL	17,000	8,200	61,000	19,000	19,000	9,200	6,100	3,100	4,100	7,300	3,100	3,600	3,700	4,100	8,000	3,200
Manganese	2,000	500	1,200	300	280	560	330	310	470	1,400	430	550	810	240	510	560	670
Nickel	140	15	12	12	10	19	13	12	17	27	17	14	9.7	8.6	18	26	14
Potassium	NL	1,300	1,300	2,200	1,600	1,100	940	920	1,700	5,000	990	1,600	950	800	1,900	810	1,100
Selenium	36	1.1	0.77 J	<0.58	0.41 J	1.2	0.68	0.73	1.8	0.96	2.3	3.2	1.1	0.48 J	1.2	1.1	0.63
Silver	36	<1.1	0.11 J	<1.2	<1.2	0.43 J	0.54 J	0.12 J	0.15 J	<1.4	0.22 J	0.34 J	<1.1	<1.3	<1.3	0.23 J	<1.2
Sodium	NL	480	390	250	170	77 J	77 J	96 J	190	100 J	220	74 J	160	150	83 J	140	80 J
Thallium	NL	0.51 J	1.4 J	0.68 J	0.31 J	<1.2	<1.2	<1.1	0.47 J	1.8	0.36 J	0.30 J	0.69 J	<1.3	1.2 J	0.40 J	0.68 J
Vanadium	NL	18	23	10	15	14	16	14	21	34	16	15	21	13	27	25	24
Zinc	2,200	31	35	91	39	290	100	100	190	73	520	57	51	85	97	160	110
Mercury	0.81	0.43	0.086 J	0.11 J	0.060 J	0.39	1.0	0.11	0.46	0.12 J	1.2	0.52	0.039 J	0.057 J	0.39	0.16	0.29

GENEVA FOUNDRY SITE
City of Geneva, Ontario County, New York
ERP SITE #B00019

TABLE 3 - SUMMARY OF SOIL ANALYTICAL RESULTS (METALS) - JANUARY 2006

COMPOUND	Restricted Use Soil Cleanup Objective ¹ (mg/kg)	29-S	29-D	30-S	32-S	32-D	33-S	34-S	34-D	35-S	35-D	36-S	36-D	37	1/10 EB (mg/L)	1/11 EB (mg/L)
Aluminum	NL	5,000	12,000	4,900	12,000	6,100	6,500	3,500	680	17,000	19,000	2,300	5,300	2,200	0.036 J	0.034 J
Antimony	NL	<6.8	<7.5	3.3 J	0.89 J	0.25 J	3.4 J	0.34 J	<6.5	0.23 J	<7.6	<6.2	0.53 J	1.8 J	<0.06	<0.06
Arsenic	16	3.4	5.0	13	11	5.9	10	5.5	0.78	6.8	6.4	3.8	4.2	6.1	<0.005	<0.005
Barium	350	39	86	260	110	64	77	120	5.8 J	110	130	6.0 J	48	31 J	0.00043 J	<0.01
Beryllium	14	0.24 J	0.71 J	0.28 J	0.59 J	0.36 J	0.33 J	0.27 J	0.052 J	0.96 J	0.93 J	0.29 J	0.44 J	0.18 J	<0.01	<0.01
Cadmium	2.5	0.029 J	0.13 J	2.6 J	0.32 J	0.25 J	0.43 J	1.5	0.049 J	0.071 J	0.21 J	<1.0	0.093 J	1.1 J	0.00030 J	<0.01
Calcium	NL	36,000	11,000	47,000	35,000	6,900	48,000	6,600	480	59,000	4,300	280,000	23,000	23,000	0.045 J	0.026 J
Chromium	36	9.4	17	70	23	9.3	18	48	2.1	23	25	5.1	19	95	<0.01	<0.01
Cobalt	NL	2.3 J	9.7	6.2 J	8.4	4.1 J	3.8 J	3.0 J	0.50 J	14	11	9.0	3.8 J	6.3 J	<0.05	<0.05
Copper	270	14	16	150	61	43	41	64	2.8	27	21	9.3	40	95	<0.01	<0.01
Iron	NL	14,000	22,000	67,000	59,000	18,000	48,000	35,000	4,400	29,000	30,000	6,200	29,000	63,000	<0.05	<0.05
Lead	400	25	33	590	150	40	170	110	3.3	16	53	3.2	14	200	<0.005	<0.005
Magnesium	NL	9,100	5,100	6,300	6,600	2,700	5,900	1,800	290	9,500	5,400	14,000	2,400	4,700	<1.0	<1.0
Manganese	2,000	310	810	550	580	260	460	380	41	500	540	460	870	550	<0.05	<0.05
Nickel	140	7.8	16	50	22	8.7	12	40	1.7 J	37	28	21	12	78	0.0013 J	<0.05
Potassium	NL	830	1,200	850 J	1,800	820	1,200	420 J	94 J	2,900	2,000	1,500 J	670	430 J	<5.0	<5.0
Selenium	36	<0.57	0.83	<3.2	2.3	0.58 J	1.7	0.97	<0.54	0.88	0.90	<0.52	0.54 J	<3.0	<0.005	<0.005
Silver	36	<1.1	0.18 J	0.71 J	0.12 J	0.20 J	0.15 J	0.31 J	<1.1	<1.2	<1.3	<1.0	0.12 J	<6.0	0.0015 J	<0.01
Sodium	NL	90 J	140	220 J	150	100 J	120	260	65 J	65 J	39 J	160	150	51 J	0.025 J	0.0059 J
Thallium	NL	<1.1	1.0 J	<6.3	1.2	0.67 J	0.49 J	0.70 J	<1.1	0.26 J	2.0	<5.2	0.92 J	2.2 J	<0.01	<0.01
Vanadium	NL	14	27	28 J	38	18	18	9.0	1.8 J	31	34	8.0	18	7.6 J	<0.05	<0.05
Zinc	2,200	45	59	610	1,200	89	240	300	12	68	62	27	27	140	<0.01	<0.01
Mercury	0.81	0.042 J	0.24	0.59	0.16	0.093 J	0.15	0.12 J	0.018 J	0.037 J	0.060 J	0.018 J	0.075 J	0.14	<0.0002	<0.0002

Notes:

¹New York Codes, Rules and Regulations, Title 6 (6 NYCRR), Part 375-6.8, *Restricted Use Soil Cleanup Objectives for Residential Protection of Public Health* .

NL None Listed

mg/kg milligrams per kilogram, equivalent to parts per million (ppm)

J Estimated Value

Concentrations exceeding soil cleanup objectives denoted in **BOLD** .

GENEVA FOUNDRY SITE
City of Geneva, Ontario County, New York
ERP SITE #B00019

TABLE 4 - SUMMARY OF 2005 RESIDENTIAL SOIL SAMPLING

SAMPLE NUMBER	Arsenic (As)	Lead (Pb)	Zinc (Zn)	PREVIOUS RESULTS
NYSDEC SCO¹	16	400	2,200	
8 Jackson Street –1	43	564	280	
8 Jackson Street –2	41.4	746	747	
12 Jackson Street –1	23.2	507	304	
12 Jackson Street –2	20.1	255	158	
16 Jackson Street –1	21.4	1,940	2,330	
16 Jackson Street –2	9.8	381	182	
28/30 Jackson Street –1	11	265	257	
28/30 Jackson Street –2	9.4	273	178	
34 Jackson Street –1	13.7	343	345	As: 10.2-26.9 Pb: 265-588 Zn: 279-628
34 Jackson Street –2	81.1	639	417	
40 Jackson Street –1	16.9	681	953	As: 23.2 Pb: 471 Zn: 723
40 Jackson Street –2	13.4	624	633	
26 Lewis Street –1	53	340	210	
26 Lewis Street –2	14	380	340	
28 Lewis Street –1	23	570	270	
34 Lewis Street –1	12	310	420	
34 Lewis Street – 2	7.4	78	94	
38 Lewis Street – 1	21	450	560	
38 Lewis Street –2	63	520	230	
50 Lewis Street –1	41	350	180	
50 Lewis Street –2	61	450	210	
90 Center Street – 1	27.3	573	398	As: 25.6 Pb: 760 Zn: 840
90 Center Street – 2	33.2	507	579	
130 Exchange Street –1	64.3	348	114	
130 Exchange Street – 2	51	275	132	
160 Exchange Street –1	19.7	142	128	
160 Exchange Street –2	9.3	158	286	
166 Exchange Street –1	14	360	410	
166 Exchange Street –2	5.2	85	120	
195 Exchange Street –1	6.8	193	214	As: 22.2 Pb: 646 Zn: 679
195 Exchange Street –2	8.3	130	105	
201/203 Exchange Street –1	13.2	347	449	
201/203 Exchange Street –2	6.8	353	234	
234 Exchange Street –1	20	830	820	As: 17-38.6 Pb: 667-1, 210 Zn: 631-949
234 Exchange Street –2	59	490	310	
14 Middle Street –1	8.7	380	1,500	
14 Middle Street –2	6.7	170	210	
16 Middle Street –1	8.6	300	540	
16 Middle Street –2	6.2	170	200	
18 Middle Street –1	11	830	910	
18 Middle Street –2	3	29	57	
17 Genesee Park Place – 1	90	560	210	
17 Genesee Park Place –2	17	310	290	

GENEVA FOUNDRY SITE
City of Geneva, Ontario County, New York
ERP SITE #B00019

TABLE 4 - SUMMARY OF 2005 RESIDENTIAL SOIL SAMPLING

SAMPLE NUMBER	Arsenic (As)	Lead (Pb)	Zinc (Zn)	PREVIOUS RESULTS
25 Genesee Park Place –1	150	350	87	
25 Genesee Park Place –2	14	220	160	
73 Genesee Street –1	8.9	261	250	
73 Genesee Street –2	27	630	310	
77 Genesee Street –1	34	500	340	
77 Genesee Street –2	15	180	130	
81 Genesee Street –1	38	410	200	
81 Genesee Street –2	16	170	170	
87/89 Genesee Street –1	38	440	180	
87/89 Genesee Street –2	8.1	110	140	
91 Genesee Street –1	110	630	180	
91 Genesee Street – 2	13	330	180	
9 State Street – 1	30.9	342	266	
11 State Street – 1	25.4	379	357	
11 State Street – 2	7.3	76.1	94.3	
21 State Street – 1	17	374	508	As: 15.4-15.9, Pb: 376-491, Zn: 719-741
21 State Street – 2	49.2	435	379	
23 State Street – 1	34	435	375	
23 State Street – 2	25.6	234	199	
29 State Street – 1	39.2	447	414	
29 State Street – 2	11.8	122	154	
31 State Street – 1	14.6	562	388	
31 State Street – 2	14.8	407	173	
35 State Street – 1	11.9	220	221	
35 State Street – 2	66.7	427	199	
41 State Street – 1	14.9	225	203	
41 State Street – 2	74.6	561	317	
47 State Street – 1	11.9	233	284	
47 State Street – 2	11.4	266	216	
49 State Street – 1	7.9	106	90.8	
49 State Street – 2	6.1	213	121	
50 State Street – 1	5.7	26.7	73	
50 State Street – 2	30.1	227	384	
67 State Street – 1	61.1	2,120	963	
67 State Street – 2	53.8	262	115	
75 State Street – 1	92	560	130	
75 State Street – 2	14	300	280	
81 State Street – 1	28.6	429	325	
81 State Street – 2	24.3	249	138	

Notes:

¹New York Codes, Rules and Regulations, Title 6 (6 NYCRR), Part 375-6.8, *Soil Cleanup Objectives for Residential Use*.
Results are measured in milligrams per kilogram (mg/kg), equivalent to parts per million (ppm).
Concentrations exceeding soil cleanup objectives denoted in **BOLD**.

GENEVA FOUNDRY SITE
City of Geneva, Ontario County, New York
ERP SITE #B00019

TABLE 5 - SUMMARY OF 2006 RESIDENTIAL SOIL SAMPLING

SAMPLE NUMBER	Lead (Pb)	2005 Results	COMMENTS¹
NYSDEC SCO¹	400		
16 Jackson-3	340	1,940/381	Average of 2005/2006 Results: 860
16 Jackson-4	370		
16 Jackson-5	1,400		
16 Jackson-6	970		
16 Jackson-7	660		
16 Jackson-8	820		
30 Jackson-3	720	265/273	Average of 2005/2006 results: 470
30 Jackson-4	330		
30 Jackson-5	990		
30 Jackson-6	550		
30 Jackson-7	250		
30 Jackson-8	380		
40 Jackson-3	470	681/624	Previous Result: 471 Average of 2005/2006 Results: 673
40 Jackson-4	790		
40 Jackson-5	730		
40 Jackson-6	620		
40 Jackson-7	630		
40 Jackson-8	840		
47 State-3	360	233/266	Average of 2005/2006 Results: 257
47 State-4	420		
47 State-5	110		
47 State-6	140		
47 State-7	320		
47 State-8	210		
67 State-3	420	2,120/262	Average of 2005/2006 Results: 650
67 State-4	300		
67 State-5	630		
67 State-6	710		
67 State-7	290		
67 State-8	470		
234 Exchange-3	1,300	830/490	Previous Results: 667-1, 210 Average of 2005/2006 Results: 988
234 Exchange-4	2,000		
234 Exchange-5	760		
234 Exchange-6	880		
234 Exchange-7	640		
234 Exchange-8	1,000		
Average	633		
Average ± Two Standard	1,392		

Notes:

¹6NYCRR, Part 375-6.8, *Soil Cleanup Objectives for Residential Use*.

Results are measured in milligrams per kilogram (mg/kg), equivalent to parts per million (ppm).

Concentrations exceeding soil cleanup objectives denoted in **BOLD**.

GENEVA FOUNDRY SITE
City of Geneva, Ontario County, New York
ERP SITE #B00019

TABLE 6 - ANALYSIS OF ON-SITE ALTERNATIVES

Criteria	Alternative 1	Alternative 2	Alternative 3	Alternative 4
Description of Alternative	No Action <ul style="list-style-type: none">Removal of slabs and foundationsRegradeIC/ECsNo remediation of residual contaminants	Remediation to Restricted Use for Industrial SCOs <ul style="list-style-type: none">Removal of slabs and foundationsExcavation & off-site disposal of selected areasPlacement of clean fillIC/ECs	Remediation to Restricted Use for Residential SCOs <ul style="list-style-type: none">Removal of slabs and foundationsExcavation & off-site disposal of selected areasPlacement of clean fill	Remediation to Unrestricted SCOs <ul style="list-style-type: none">Removal of slabs and foundationsExcavation & off-site disposal of selected areasPlacement of clean fillIC/ECs
1. Protection of Public Health and Environment	Access agreements would reduce but not eliminate the potential for direct human contact exposure. Burrowing vertebrates and invertebrates would also be exposed.	Removal of selected source areas and soil cover across the site would minimize the potential for direct human and ecological contact exposure. However, due to the higher SCOs, the potential for exposure would be greater than for Alternatives 3 and 4.	The potential for exposure would be less than for Alternatives 1 and 2, but greater than for Alternative 4.	Removal of soils exceeding SCOs would eliminate the potential for direct human and ecological contact exposure.
2. Compliance with SCGs	Compliance would not be achieved.	Compliance with the Industrial SCOs would be achieved.	Compliance with the residential SCOs would be achieved.	Compliance with the strictest SCOs would be met.
3. Long-term Effectiveness and Permanence	Impacted soils would remain but contaminant migration would be minimal.	Impacted soils would remain, with reduced potential for migration.	Further remediation would be provided as compared to Alternative 2, but less than Alternative 4.	Remediation would be the most effective of the alternatives.
4. Reduction of Toxicity, Mobility or Volume with Treatment	No reduction.	Substantial reduction through removal of significantly impacted soils.	Further reduction in toxicity and volume as compared to Alternatives 1 and 2.	This alternative would provide the greatest reduction in toxicity and volumes of the alternatives.
5. Short-term Effectiveness	Dust control measures and personal protection equipment would be necessary during construction.	Dust control measures and personal protection equipment would be necessary during construction. Remediation would be completed in the short-term with off-site disposal of	Dust control measures and personal protection equipment would be necessary during construction. Remediation would be completed in the short-term with off-site disposal of	Dust control measures and personal protection equipment would be necessary during construction. Remediation would be completed in the short-
6. Implementability	Easily implementable.	Easily implementable.	Easily implementable.	Implementation would be more difficult due to greater need to delineate the extent of excavations, as well as increased site activities over a longer time period.
7. Cost	\$20,320	\$130,078	\$242,697	\$1,071,406
8. Community Acceptance	Community participation is ongoing	Community participation is ongoing	Community participation is ongoing	Community participation is ongoing

Note: Costs were taken from 2007 report and adjusted assuming 3% annual inflation.

ATTACHMENTS

ATTACHMENT 1

ANALYTICAL RESULTS



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 5 g

%Moisture: 12.7

TestCode: 8260S TAGML

Lab ID: 0601049-001A

Client Sample ID: BH-20-S

Collection Date: 01/11/06 7:55

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8212.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 12:40
1,1,1-Trichloroethane	ND		2.9	0.11	µg/Kg-dry	1	01/16/06 12:40
1,1,2,2-Tetrachloroethane	ND		2.9	0.18	µg/Kg-dry	1	01/16/06 12:40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.9	0.11	µg/Kg-dry	1	01/16/06 12:40
1,1,2-Trichloroethane	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 12:40
1,1-Dichloroethane	ND		2.9	0.11	µg/Kg-dry	1	01/16/06 12:40
1,1-Dichloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/16/06 12:40
1,1-Dichloropropene	ND		2.9	0.11	µg/Kg-dry	1	01/16/06 12:40
1,2,3-Trichlorobenzene	ND		5.7	0.57	µg/Kg-dry	1	01/16/06 12:40
1,2,3-Trichloropropane	ND		2.9	0.19	µg/Kg-dry	1	01/16/06 12:40
1,2,4-Trichlorobenzene	ND		5.7	0.39	µg/Kg-dry	1	01/16/06 12:40
1,2,4-Trimethylbenzene	1.4 J		2.9	0.13	µg/Kg-dry	1	01/16/06 12:40
1,2-Dibromo-3-chloropropane	ND		5.7	0.46	µg/Kg-dry	1	01/16/06 12:40
1,2-Dibromoethane	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 12:40
1,2-Dichlorobenzene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 12:40
1,2-Dichloroethane	ND		2.9	0.11	µg/Kg-dry	1	01/16/06 12:40
1,2-Dichloropropane	ND		2.9	0.09	µg/Kg-dry	1	01/16/06 12:40
1,3,5-Trimethylbenzene	0.76 J		2.9	0.10	µg/Kg-dry	1	01/16/06 12:40
1,3-Dichlorobenzene	ND		2.9	0.11	µg/Kg-dry	1	01/16/06 12:40
1,3-Dichloropropane	ND		2.9	0.09	µg/Kg-dry	1	01/16/06 12:40
1,4-Dichlorobenzene	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 12:40
2,2-Dichloropropane	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 12:40
2-Butanone	2.0 J		11	0.16	µg/Kg-dry	1	01/16/06 12:40
2-Chlorotoluene	ND		2.9	0.08	µg/Kg-dry	1	01/16/06 12:40
2-Hexanone	ND		5.7	0.25	µg/Kg-dry	1	01/16/06 12:40
4-Chlorotoluene	ND		2.9	0.18	µg/Kg-dry	1	01/16/06 12:40
4-Methyl-2-pentanone	ND		5.7	0.28	µg/Kg-dry	1	01/16/06 12:40
Acetone	10 J		11	0.45	µg/Kg-dry	1	01/16/06 12:40
Benzene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 12:40
Bromobenzene	ND		2.9	0.17	µg/Kg-dry	1	01/16/06 12:40
Bromochloromethane	ND		2.9	0.18	µg/Kg-dry	1	01/16/06 12:40
Bromodichloromethane	ND		2.9	0.09	µg/Kg-dry	1	01/16/06 12:40
Bromoform	ND		2.9	0.07	µg/Kg-dry	1	01/16/06 12:40
Bromomethane	ND		5.7	0.34	µg/Kg-dry	1	01/16/06 12:40

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 5 g

%Moisture: 12.7

TestCode: 8260S TAGML

Lab ID: 0601049-001A

Client Sample ID: BH-20-S

Collection Date: 01/11/06 7:55

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8212.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	5.6	2.9		0.07	µg/Kg-dry	1	01/16/06 12:40
Carbon tetrachloride	ND	2.9		0.13	µg/Kg-dry	1	01/16/06 12:40
Chlorobenzene	ND	2.9		0.10	µg/Kg-dry	1	01/16/06 12:40
Chloroethane	ND	5.7		0.33	µg/Kg-dry	1	01/16/06 12:40
Chloroform	ND	2.9		0.05	µg/Kg-dry	1	01/16/06 12:40
Chloromethane	ND	5.7		0.44	µg/Kg-dry	1	01/16/06 12:40
cis-1,2-Dichloroethene	ND	2.9		0.13	µg/Kg-dry	1	01/16/06 12:40
cis-1,3-Dichloropropene	ND	2.9		0.10	µg/Kg-dry	1	01/16/06 12:40
Dibromochloromethane	ND	2.9		0.15	µg/Kg-dry	1	01/16/06 12:40
Dibromomethane	ND	2.9		0.13	µg/Kg-dry	1	01/16/06 12:40
Dichlorodifluoromethane	ND	5.7		0.09	µg/Kg-dry	1	01/16/06 12:40
Ethylbenzene	ND	2.9		0.11	µg/Kg-dry	1	01/16/06 12:40
Hexachlorobutadiene	ND	5.7		0.45	µg/Kg-dry	1	01/16/06 12:40
Isopropylbenzene	ND	2.9		0.09	µg/Kg-dry	1	01/16/06 12:40
Methyl tert-butyl ether	ND	2.9		0.08	µg/Kg-dry	1	01/16/06 12:40
Methylene chloride	1.4 J	5.7		0.46	µg/Kg-dry	1	01/16/06 12:40
n-Butylbenzene	ND	2.9		0.14	µg/Kg-dry	1	01/16/06 12:40
n-Propylbenzene	ND	2.9		0.10	µg/Kg-dry	1	01/16/06 12:40
Naphthalene	ND	5.7		0.42	µg/Kg-dry	1	01/16/06 12:40
p-Isopropyltoluene	ND	2.9		0.10	µg/Kg-dry	1	01/16/06 12:40
sec-Butylbenzene	ND	2.9		0.15	µg/Kg-dry	1	01/16/06 12:40
Styrene	ND	2.9		0.11	µg/Kg-dry	1	01/16/06 12:40
tert-Butylbenzene	ND	2.9		0.15	µg/Kg-dry	1	01/16/06 12:40
Tetrachloroethene	ND	2.9		0.16	µg/Kg-dry	1	01/16/06 12:40
Toluene	1.4 J	2.9		0.14	µg/Kg-dry	1	01/16/06 12:40
trans-1,2-Dichloroethene	ND	2.9		0.11	µg/Kg-dry	1	01/16/06 12:40
trans-1,3-Dichloropropene	ND	2.9		0.10	µg/Kg-dry	1	01/16/06 12:40
Trichloroethene	ND	2.9		0.13	µg/Kg-dry	1	01/16/06 12:40
Trichlorofluoromethane	ND	5.7		0.09	µg/Kg-dry	1	01/16/06 12:40
Vinyl chloride	ND	5.7		0.09	µg/Kg-dry	1	01/16/06 12:40
Xylenes (total)	2.7 J	5.7		0.21	µg/Kg-dry	1	01/16/06 12:40
Surr: 1,2-Dichloroethane-d4	89.6	71-128		0.15	%REC	1	01/16/06 12:40
Surr: 4-Bromofluorobenzene	53.3 S	59-125		0.10	%REC	1	01/16/06 12:40
Surr: Dibromofluoromethane	96.6	40-156		0.21	%REC	1	01/16/06 12:40
Surr: Toluene-d8	82.2	75-125		0.14	%REC	1	01/16/06 12:40

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 5 g

%Moisture: 12.7

TestCode: 8260S TAGML

Lab ID: 0601049-001A

Client Sample ID: BH-20-S

Collection Date: 01/11/06 7:55

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8259.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 15:23
1,1,1-Trichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 15:23
1,1,2,2-Tetrachloroethane	ND	2.9	0.18	µg/Kg-dry	1		01/18/06 15:23
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 15:23
1,1,2-Trichloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 15:23
1,1-Dichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 15:23
1,1-Dichloroethene	ND	2.9	0.16	µg/Kg-dry	1		01/18/06 15:23
1,1-Dichloropropene	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 15:23
1,2,3-Trichlorobenzene	ND	5.7	0.57	µg/Kg-dry	1		01/18/06 15:23
1,2,3-Trichloropropane	ND	2.9	0.19	µg/Kg-dry	1		01/18/06 15:23
1,2,4-Trichlorobenzene	ND	5.7	0.39	µg/Kg-dry	1		01/18/06 15:23
1,2,4-Trimethylbenzene	0.77 J	2.9	0.13	µg/Kg-dry	1		01/18/06 15:23
1,2-Dibromo-3-chloropropane	ND	5.7	0.46	µg/Kg-dry	1		01/18/06 15:23
1,2-Dibromoethane	ND	2.9	0.10	µg/Kg-dry	1		01/18/06 15:23
1,2-Dichlorobenzene	ND	2.9	0.10	µg/Kg-dry	1		01/18/06 15:23
1,2-Dichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 15:23
1,2-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/18/06 15:23
1,3,5-Trimethylbenzene	ND	2.9	0.10	µg/Kg-dry	1		01/18/06 15:23
1,3-Dichlorobenzene	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 15:23
1,3-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/18/06 15:23
1,4-Dichlorobenzene	ND	2.9	0.15	µg/Kg-dry	1		01/18/06 15:23
2,2-Dichloropropane	ND	2.9	0.10	µg/Kg-dry	1		01/18/06 15:23
2-Butanone	2.1 J	11	0.16	µg/Kg-dry	1		01/18/06 15:23
2-Chlorotoluene	ND	2.9	0.08	µg/Kg-dry	1		01/18/06 15:23
2-Hexanone	ND	5.7	0.25	µg/Kg-dry	1		01/18/06 15:23
4-Chlorotoluene	ND	2.9	0.18	µg/Kg-dry	1		01/18/06 15:23
4-Methyl-2-pentanone	ND	5.7	0.28	µg/Kg-dry	1		01/18/06 15:23
Acetone	10 J	11	0.45	µg/Kg-dry	1		01/18/06 15:23
Benzene	ND	2.9	0.10	µg/Kg-dry	1		01/18/06 15:23
Bromobenzene	ND	2.9	0.17	µg/Kg-dry	1		01/18/06 15:23
Bromochloromethane	ND	2.9	0.18	µg/Kg-dry	1		01/18/06 15:23
Bromodichloromethane	ND	2.9	0.09	µg/Kg-dry	1		01/18/06 15:23
Bromoform	ND	2.9	0.07	µg/Kg-dry	1		01/18/06 15:23
Bromomethane	ND	5.7	0.34	µg/Kg-dry	1		01/18/08 15:23

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

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W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 5 g

%Moisture: 12.7

TestCode: 8260S TAGML

Lab ID: 0601049-001A

Client Sample ID: BH-20-S

Collection Date: 01/11/06 7:55

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8259.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	3.0		2.9	0.07	µg/Kg-dry	1	01/18/06 15:23
Carbon tetrachloride	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 15:23
Chlorobenzene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 15:23
Chloroethane	ND		5.7	0.33	µg/Kg-dry	1	01/18/06 15:23
Chloroform	ND		2.9	0.05	µg/Kg-dry	1	01/18/06 15:23
Chloromethane	ND		5.7	0.44	µg/Kg-dry	1	01/18/06 15:23
cis-1,2-Dichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 15:23
cis-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 15:23
Dibromochloromethane	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 15:23
Dibromomethane	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 15:23
Dichlorodifluoromethane	ND		5.7	0.09	µg/Kg-dry	1	01/18/06 15:23
Ethylbenzene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 15:23
Hexachlorobutadiene	ND		5.7	0.45	µg/Kg-dry	1	01/18/06 15:23
Isopropylbenzene	ND		2.9	0.09	µg/Kg-dry	1	01/18/06 15:23
Methyl tert-butyl ether	ND		2.9	0.08	µg/Kg-dry	1	01/18/06 15:23
Methylene chloride	1.4 J		5.7	0.46	µg/Kg-dry	1	01/18/06 15:23
n-Butylbenzene	ND		2.9	0.14	µg/Kg-dry	1	01/18/06 15:23
n-Propylbenzene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 15:23
Naphthalene	ND		5.7	0.42	µg/Kg-dry	1	01/18/06 15:23
p-Isopropyltoluene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 15:23
sec-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 15:23
Styrene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 15:23
tert-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 15:23
Tetrachloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/18/06 15:23
Toluene	1.1 J		2.9	0.14	µg/Kg-dry	1	01/18/06 15:23
trans-1,2-Dichloroethene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 15:23
trans-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 15:23
Trichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 15:23
Trichlorofluoromethane	ND		5.7	0.09	µg/Kg-dry	1	01/18/06 15:23
Vinyl chloride	ND		5.7	0.09	µg/Kg-dry	1	01/18/06 15:23
Xylenes (total)	1.4 J		5.7	0.21	µg/Kg-dry	1	01/18/06 15:23
Surr: 1,2-Dichloroethane-d4	87.0		71-128	0.15	%REC	1	01/18/06 15:23
Surr: 4-Bromofluorobenzene	60.6		59-125	0.10	%REC	1	01/18/06 15:23
Surr: Dibromofluoromethane	87.6		40-156	0.21	%REC	1	01/18/06 15:23
Surr: Toluene-d8	84.1		75-125	0.14	%REC	1	01/18/06 15:23

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 4.98 g

%Moisture: 13.2

TestCode: 8260S TAGML

Lab ID: 0601049-002A

Client Sample ID: BH-20-D

Collection Date: 01/11/06 8:05

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8213.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 13:15
1,1,1-Trichloroethane	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 13:15
1,1,2,2-Tetrachloroethane	ND		2.9	0.18	µg/Kg-dry	1	01/16/06 13:15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 13:15
1,1,2-Trichloroethane	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 13:15
1,1-Dichloroethane	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 13:15
1,1-Dichloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/16/06 13:15
1,1-Dichloropropene	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 13:15
1,2,3-Trichlorobenzene	ND		5.8	0.58	µg/Kg-dry	1	01/16/06 13:15
1,2,3-Trichloropropane	ND		2.9	0.20	µg/Kg-dry	1	01/16/06 13:15
1,2,4-Trichlorobenzene	ND		5.8	0.39	µg/Kg-dry	1	01/16/06 13:15
1,2,4-Trimethylbenzene	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 13:15
1,2-Dibromo-3-chloropropane	ND		5.8	0.46	µg/Kg-dry	1	01/16/06 13:15
1,2-Dibromoethane	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 13:15
1,2-Dichlorobenzene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 13:15
1,2-Dichloroethane	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 13:15
1,2-Dichloropropane	ND		2.9	0.09	µg/Kg-dry	1	01/16/06 13:15
1,3,5-Trimethylbenzene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 13:15
1,3-Dichlorobenzene	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 13:15
1,3-Dichloropropane	ND		2.9	0.09	µg/Kg-dry	1	01/16/06 13:15
1,4-Dichlorobenzene	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 13:15
2,2-Dichloropropane	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 13:15
2-Butanone	1.8 J		12	0.16	µg/Kg-dry	1	01/16/06 13:15
2-Chlorotoluene	ND		2.9	0.08	µg/Kg-dry	1	01/16/06 13:15
2-Hexanone	ND		5.8	0.25	µg/Kg-dry	1	01/16/06 13:15
4-Chlorotoluene	ND		2.9	0.18	µg/Kg-dry	1	01/16/06 13:15
4-Methyl-2-pentanone	ND		5.8	0.28	µg/Kg-dry	1	01/16/06 13:15
Acetone	4.4 J		12	0.45	µg/Kg-dry	1	01/16/06 13:15
Benzene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 13:15
Bromobenzene	ND		2.9	0.17	µg/Kg-dry	1	01/16/06 13:15
Bromochloromethane	ND		2.9	0.18	µg/Kg-dry	1	01/16/06 13:15
Bromodichloromethane	ND		2.9	0.09	µg/Kg-dry	1	01/16/06 13:15
Bromofom	ND		2.9	0.07	µg/Kg-dry	1	01/16/06 13:15
Bromomethane	ND		5.8	0.35	µg/Kg-dry	1	01/16/06 13:15

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 4.98 g

%Moisture: 13.2

TestCode: 8260S TAGML

Lab ID: 0601049-002A

Client Sample ID: BH-20-D

Collection Date: 01/11/06 8:05

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8213.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	2.2	J	2.9	0.07	µg/Kg-dry	1	01/16/06 13:15
Carbon tetrachloride	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 13:15
Chlorobenzene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 13:15
Chloroethane	ND		5.8	0.33	µg/Kg-dry	1	01/16/06 13:15
Chloroform	ND		2.9	0.05	µg/Kg-dry	1	01/16/06 13:15
Chloromethane	ND		5.8	0.44	µg/Kg-dry	1	01/16/06 13:15
cis-1,2-Dichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 13:15
cis-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 13:15
Dibromochloromethane	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 13:15
Dibromomethane	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 13:15
Dichlorodifluoromethane	ND		5.8	0.09	µg/Kg-dry	1	01/16/06 13:15
Ethylbenzene	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 13:15
Hexachlorobutadiene	ND		5.8	0.45	µg/Kg-dry	1	01/16/06 13:15
Isopropylbenzene	ND		2.9	0.09	µg/Kg-dry	1	01/16/06 13:15
Methyl tert-butyl ether	ND		2.9	0.08	µg/Kg-dry	1	01/16/06 13:15
Methylene chloride	1.4	J	5.8	0.46	µg/Kg-dry	1	01/16/06 13:15
n-Butylbenzene	ND		2.9	0.14	µg/Kg-dry	1	01/16/06 13:15
n-Propylbenzene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 13:15
Naphthalene	ND		5.8	0.43	µg/Kg-dry	1	01/16/06 13:15
p-Isopropyltoluene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 13:15
sec-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 13:15
Styrene	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 13:15
tert-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 13:15
Tetrachloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/16/06 13:15
Toluene	0.93	J	2.9	0.14	µg/Kg-dry	1	01/16/06 13:15
trans-1,2-Dichloroethene	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 13:15
trans-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 13:15
Trichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 13:15
Trichlorofluoromethane	ND		5.8	0.09	µg/Kg-dry	1	01/16/06 13:15
Vinyl chloride	ND		5.8	0.09	µg/Kg-dry	1	01/16/06 13:15
Xylenes (total)	0.98	J	5.8	0.21	µg/Kg-dry	1	01/16/06 13:15
Surr: 1,2-Dichloroethane-d4	87.5		71-128	0.15	%REC	1	01/16/06 13:15
Surr: 4-Bromofluorobenzene	62.7		59-125	0.10	%REC	1	01/16/06 13:15
Surr: Dibromofluoromethane	101		40-156	0.21	%REC	1	01/16/06 13:15
Surr: Toluene-d8	89.9		75-125	0.14	%REC	1	01/16/06 13:15

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 4.99 g

%Moisture: 13.2

TestCode: 8260S TAGML

Lab ID: 0601049-002A

Client Sample ID: BH-20-D

Collection Date: 01/11/06 8:05

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8260.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 15:58
1,1,1-Trichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 15:58
1,1,2,2-Tetrachloroethane	ND	2.9	0.18	µg/Kg-dry	1		01/18/06 15:58
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 15:58
1,1,2-Trichloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 15:58
1,1-Dichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 15:58
1,1-Dichloroethene	ND	2.9	0.16	µg/Kg-dry	1		01/18/06 15:58
1,1-Dichloropropene	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 15:58
1,2,3-Trichlorobenzene	ND	5.8	0.58	µg/Kg-dry	1		01/18/06 15:58
1,2,3-Trichloropropane	ND	2.9	0.20	µg/Kg-dry	1		01/18/06 15:58
1,2,4-Trichlorobenzene	ND	5.8	0.39	µg/Kg-dry	1		01/18/06 15:58
1,2,4-Trimethylbenzene	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 15:58
1,2-Dibromo-3-chloropropane	ND	5.8	0.46	µg/Kg-dry	1		01/18/06 15:58
1,2-Dibromoethane	ND	2.9	0.10	µg/Kg-dry	1		01/18/06 15:58
1,2-Dichlorobenzene	ND	2.9	0.10	µg/Kg-dry	1		01/18/06 15:58
1,2-Dichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 15:58
1,2-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/18/06 15:58
1,3,5-Trimethylbenzene	ND	2.9	0.10	µg/Kg-dry	1		01/18/06 15:58
1,3-Dichlorobenzene	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 15:58
1,3-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/18/06 15:58
1,4-Dichlorobenzene	ND	2.9	0.15	µg/Kg-dry	1		01/18/06 15:58
2,2-Dichloropropane	ND	2.9	0.10	µg/Kg-dry	1		01/18/06 15:58
2-Butanone	ND	12	0.16	µg/Kg-dry	1		01/18/06 15:58
2-Chlorotoluene	ND	2.9	0.08	µg/Kg-dry	1		01/18/06 15:58
2-Hexanone	ND	5.8	0.25	µg/Kg-dry	1		01/18/06 15:58
4-Chlorotoluene	ND	2.9	0.18	µg/Kg-dry	1		01/18/06 15:58
4-Methyl-2-pentanone	ND	5.8	0.28	µg/Kg-dry	1		01/18/06 15:58
Acetone	2.9 J	12	0.45	µg/Kg-dry	1		01/18/06 15:58
Benzene	ND	2.9	0.10	µg/Kg-dry	1		01/18/06 15:58
Bromobenzene	ND	2.9	0.17	µg/Kg-dry	1		01/18/06 15:58
Bromochloromethane	ND	2.9	0.18	µg/Kg-dry	1		01/18/06 15:58
Bromodichloromethane	ND	2.9	0.09	µg/Kg-dry	1		01/18/06 15:58
Bromoform	ND	2.9	0.07	µg/Kg-dry	1		01/18/06 15:58
Bromomethane	ND	5.8	0.35	µg/Kg-dry	1		01/18/06 15:58

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 4.99 g

%Moisture: 13.2

TestCode: 8260S TAGML

Lab ID: 0601049-002A

Client Sample ID: BH-20-D

Collection Date: 01/11/06 8:05

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8260.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	1.1	J	2.9	0.07	µg/Kg-dry	1	01/18/06 15:58
Carbon tetrachloride	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 15:58
Chlorobenzene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 15:58
Chloroethane	ND		5.8	0.33	µg/Kg-dry	1	01/18/06 15:58
Chloroform	ND		2.9	0.05	µg/Kg-dry	1	01/18/06 15:58
Chloromethane	ND		5.8	0.44	µg/Kg-dry	1	01/18/06 15:58
cis-1,2-Dichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 15:58
cis-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 15:58
Dibromochloromethane	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 15:58
Dibromomethane	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 15:58
Dichlorodifluoromethane	ND		5.8	0.09	µg/Kg-dry	1	01/18/06 15:58
Ethylbenzene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 15:58
Hexachlorobutadiene	ND		5.8	0.45	µg/Kg-dry	1	01/18/06 15:58
Isopropylbenzene	ND		2.9	0.09	µg/Kg-dry	1	01/18/06 15:58
Methyl tert-butyl ether	ND		2.9	0.08	µg/Kg-dry	1	01/18/06 15:58
Methylene chloride	1.2	J	5.8	0.48	µg/Kg-dry	1	01/18/06 15:58
n-Butylbenzene	ND		2.9	0.14	µg/Kg-dry	1	01/18/06 15:58
n-Propylbenzene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 15:58
Naphthalene	ND		5.8	0.43	µg/Kg-dry	1	01/18/06 15:58
p-Isopropyltoluene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 15:58
sec-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 15:58
Styrene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 15:58
tert-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 15:58
Tetrachloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/18/06 15:58
Toluene	0.62	J	2.9	0.14	µg/Kg-dry	1	01/18/06 15:58
trans-1,2-Dichloroethene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 15:58
trans-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 15:58
Trichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 15:58
Trichlorofluoromethane	ND		5.8	0.09	µg/Kg-dry	1	01/18/06 15:58
Vinyl chloride	ND		5.8	0.09	µg/Kg-dry	1	01/18/06 15:58
Xylenes (total)	0.74	J	5.8	0.21	µg/Kg-dry	1	01/18/06 15:58
Surr: 1,2-Dichloroethane-d4	88.1		71-128	0.15	%REC	1	01/18/06 15:58
Surr: 4-Bromofluorobenzene	62.0		59-125	0.10	%REC	1	01/18/06 15:58
Surr: Dibromofluoromethane	99.4		40-156	0.21	%REC	1	01/18/06 15:58
Surr: Toluene-d8	89.0		75-125	0.14	%REC	1	01/18/06 15:58

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 4.98 g

ColumnID: Rtx-VMS

%Moisture: 13.5

Revision: 01/20/06 9:58:21 A

TestCode: 8260S TAGML

Lab ID: 0601049-003A

Client Sample ID: BH-21-S

Collection Date: 01/10/06 15:15

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8214.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/16/06 13:50
1,1,1-Trichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 13:50
1,1,2,2-Tetrachloroethane	ND	2.9	0.18	µg/Kg-dry	1		01/16/06 13:50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 13:50
1,1,2-Trichloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/16/06 13:50
1,1-Dichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 13:50
1,1-Dichloroethene	ND	2.9	0.16	µg/Kg-dry	1		01/16/06 13:50
1,1-Dichloropropene	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 13:50
1,2,3-Trichlorobenzene	ND	5.8	0.58	µg/Kg-dry	1		01/16/06 13:50
1,2,3-Trichloropropane	ND	2.9	0.20	µg/Kg-dry	1		01/16/06 13:50
1,2,4-Trichlorobenzene	ND	5.8	0.39	µg/Kg-dry	1		01/16/06 13:50
1,2,4-Trimethylbenzene	ND	2.9	0.13	µg/Kg-dry	1		01/16/06 13:50
1,2-Dibromo-3-chloropropane	ND	5.8	0.46	µg/Kg-dry	1		01/16/06 13:50
1,2-Dibromoethane	ND	2.9	0.10	µg/Kg-dry	1		01/16/06 13:50
1,2-Dichlorobenzene	ND	2.9	0.10	µg/Kg-dry	1		01/16/06 13:50
1,2-Dichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 13:50
1,2-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/16/06 13:50
1,3,5-Trimethylbenzene	ND	2.9	0.10	µg/Kg-dry	1		01/16/06 13:50
1,3-Dichlorobenzene	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 13:50
1,3-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/16/06 13:50
1,4-Dichlorobenzene	ND	2.9	0.15	µg/Kg-dry	1		01/16/06 13:50
2,2-Dichloropropane	ND	2.9	0.10	µg/Kg-dry	1		01/16/06 13:50
2-Butanone	ND	12	0.16	µg/Kg-dry	1		01/16/06 13:50
2-Chlorotoluene	ND	2.9	0.08	µg/Kg-dry	1		01/16/06 13:50
2-Hexanone	ND	5.8	0.25	µg/Kg-dry	1		01/16/06 13:50
4-Chlorotoluene	ND	2.9	0.18	µg/Kg-dry	1		01/16/06 13:50
4-Methyl-2-pentanone	ND	5.8	0.28	µg/Kg-dry	1		01/16/06 13:50
Acetone	3.0 J	12	0.45	µg/Kg-dry	1		01/16/06 13:50
Benzene	ND	2.9	0.10	µg/Kg-dry	1		01/16/06 13:50
Bromobenzene	ND	2.9	0.17	µg/Kg-dry	1		01/16/06 13:50
Bromochloromethane	ND	2.9	0.18	µg/Kg-dry	1		01/16/06 13:50
Bromodichloromethane	ND	2.9	0.09	µg/Kg-dry	1		01/16/06 13:50
Bromoform	ND	2.9	0.07	µg/Kg-dry	1		01/16/06 13:50
Bromomethane	ND	5.8	0.35	µg/Kg-dry	1		01/16/06 13:50

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 4.98 g

%Moisture: 13.5

TestCode: 8260S TAGML

Lab ID: 0601049-003A

Client Sample ID: BH-21-S

Collection Date: 01/10/06 15:15

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8214.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		2.9	0.07	µg/Kg-dry	1	01/16/06 13:50
Carbon tetrachloride	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 13:50
Chlorobenzene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 13:50
Chloroethane	ND		5.8	0.34	µg/Kg-dry	1	01/16/06 13:50
Chloroform	ND		2.9	0.05	µg/Kg-dry	1	01/16/06 13:50
Chloromethane	ND		5.8	0.44	µg/Kg-dry	1	01/16/06 13:50
cis-1,2-Dichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 13:50
cis-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 13:50
Dibromochloromethane	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 13:50
Dibromomethane	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 13:50
Dichlorodifluoromethane	ND		5.8	0.09	µg/Kg-dry	1	01/16/06 13:50
Ethylbenzene	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 13:50
Hexachlorobutadiene	ND		5.8	0.45	µg/Kg-dry	1	01/16/06 13:50
Isopropylbenzene	ND		2.9	0.09	µg/Kg-dry	1	01/16/06 13:50
Methyl tert-butyl ether	ND		2.9	0.08	µg/Kg-dry	1	01/16/06 13:50
Methylene chloride	0.95 J		5.8	0.46	µg/Kg-dry	1	01/16/06 13:50
n-Butylbenzene	ND		2.9	0.14	µg/Kg-dry	1	01/16/06 13:50
n-Propylbenzene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 13:50
Naphthalene	ND		5.8	0.43	µg/Kg-dry	1	01/16/06 13:50
p-Isopropyltoluene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 13:50
sec-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 13:50
Styrene	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 13:50
tert-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 13:50
Tetrachloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/16/06 13:50
Toluene	ND		2.9	0.14	µg/Kg-dry	1	01/16/06 13:50
trans-1,2-Dichloroethene	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 13:50
trans-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 13:50
Trichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 13:50
Trichlorofluoromethane	ND		5.8	0.09	µg/Kg-dry	1	01/16/06 13:50
Vinyl chloride	ND		5.8	0.09	µg/Kg-dry	1	01/16/06 13:50
Xylenes (total)	ND		5.8	0.21	µg/Kg-dry	1	01/16/06 13:50
Surr. 1,2-Dichloroethane-d4	86.9		71-128	0.15	%REC	1	01/16/06 13:50
Surr. 4-Bromofluorobenzene	58.0 S		59-125	0.10	%REC	1	01/16/06 13:50
Surr. Dibromofluoromethane	101		40-156	0.21	%REC	1	01/16/06 13:50
Surr. Toluene-d8	84.9		75-125	0.14	%REC	1	01/16/06 13:50

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 4.98 g

%Moisture: 13.5

TestCode: 8260S TAGML

Lab ID: 0601049-003A

Client Sample ID: BH-21-S

Collection Date: 01/10/06 15:15

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8261.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 16:33
1,1,1-Trichloroethane	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 16:33
1,1,2,2-Tetrachloroethane	ND		2.9	0.18	µg/Kg-dry	1	01/18/06 16:33
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 16:33
1,1,2-Trichloroethane	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 16:33
1,1-Dichloroethane	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 16:33
1,1-Dichloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/18/06 16:33
1,1-Dichloropropene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 16:33
1,2,3-Trichlorobenzene	ND		5.8	0.58	µg/Kg-dry	1	01/18/06 16:33
1,2,3-Trichloropropane	ND		2.9	0.20	µg/Kg-dry	1	01/18/06 16:33
1,2,4-Trichlorobenzene	ND		5.8	0.39	µg/Kg-dry	1	01/18/06 16:33
1,2,4-Trimethylbenzene	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 16:33
1,2-Dibromo-3-chloropropane	ND		5.8	0.46	µg/Kg-dry	1	01/18/06 16:33
1,2-Dibromoethane	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 16:33
1,2-Dichlorobenzene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 16:33
1,2-Dichloroethane	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 16:33
1,2-Dichloropropane	ND		2.9	0.09	µg/Kg-dry	1	01/18/06 16:33
1,3,5-Trimethylbenzene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 16:33
1,3-Dichlorobenzene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 16:33
1,3-Dichloropropane	ND		2.9	0.09	µg/Kg-dry	1	01/18/06 16:33
1,4-Dichlorobenzene	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 16:33
2,2-Dichloropropane	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 16:33
2-Butanone	ND		12	0.16	µg/Kg-dry	1	01/18/06 16:33
2-Chlorotoluene	ND		2.9	0.08	µg/Kg-dry	1	01/18/06 16:33
2-Hexanone	ND		5.8	0.25	µg/Kg-dry	1	01/18/06 16:33
4-Chlorotoluene	ND		2.9	0.18	µg/Kg-dry	1	01/18/06 16:33
4-Methyl-2-pentanone	ND		5.8	0.28	µg/Kg-dry	1	01/18/06 16:33
Acetone	2.0 J		12	0.45	µg/Kg-dry	1	01/18/06 16:33
Benzene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 16:33
Bromobenzene	ND		2.9	0.17	µg/Kg-dry	1	01/18/06 16:33
Bromochloromethane	ND		2.9	0.18	µg/Kg-dry	1	01/18/06 16:33
Bromodichloromethane	ND		2.9	0.09	µg/Kg-dry	1	01/18/06 16:33
Bromoform	ND		2.9	0.07	µg/Kg-dry	1	01/18/06 16:33
Bromomethane	ND		5.8	0.35	µg/Kg-dry	1	01/18/06 16:33

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 4.98 g

ColumnID: Rtx-VMS

%Moisture: 13.5

Revision: 01/19/06 2:30:18 P

TestCode: 8260S TAGML

Lab ID: 0601049-003A

Client Sample ID: BH-21-S

Collection Date: 01/10/06 15:15

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8261.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		2.9	0.07	µg/Kg-dry	1	01/18/06 16:33
Carbon tetrachloride	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 16:33
Chlorobenzene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 16:33
Chloroethane	ND		5.8	0.34	µg/Kg-dry	1	01/18/06 16:33
Chloroform	ND		2.9	0.05	µg/Kg-dry	1	01/18/06 16:33
Chloromethane	ND		5.8	0.44	µg/Kg-dry	1	01/18/06 16:33
cis-1,2-Dichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 16:33
cis-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 16:33
Dibromochloromethane	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 16:33
Dibromomethane	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 16:33
Dichlorodifluoromethane	ND		5.8	0.09	µg/Kg-dry	1	01/18/06 16:33
Ethylbenzene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 16:33
Hexachlorobutadiene	ND		5.8	0.45	µg/Kg-dry	1	01/18/06 16:33
Isopropylbenzene	ND		2.9	0.09	µg/Kg-dry	1	01/18/06 16:33
Methyl tert-butyl ether	ND		2.9	0.06	µg/Kg-dry	1	01/18/06 16:33
Methylene chloride	1.3 J		5.8	0.46	µg/Kg-dry	1	01/18/06 16:33
n-Butylbenzene	ND		2.9	0.14	µg/Kg-dry	1	01/18/06 16:33
n-Propylbenzene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 16:33
Naphthalene	ND		5.8	0.43	µg/Kg-dry	1	01/18/06 16:33
p-Isopropyltoluene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 16:33
sec-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 16:33
Styrene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 16:33
tert-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 16:33
Tetrachloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/18/06 16:33
Toluene	ND		2.9	0.14	µg/Kg-dry	1	01/18/06 16:33
trans-1,2-Dichloroethene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 16:33
trans-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 16:33
Trichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 16:33
Trichlorofluoromethane	ND		5.8	0.09	µg/Kg-dry	1	01/18/06 16:33
Vinyl chloride	ND		5.8	0.09	µg/Kg-dry	1	01/18/06 16:33
Xylenes (total)	ND		5.8	0.21	µg/Kg-dry	1	01/18/06 16:33
Surr: 1,2-Dichloroethane-d4	88.6		71-128	0.15	%REC	1	01/18/06 16:33
Surr: 4-Bromofluorobenzene	52.8 S		59-125	0.10	%REC	1	01/18/06 16:33
Surr: Dibromofluoromethane	102		40-156	0.21	%REC	1	01/18/06 16:33
Surr: Toluene-d8	82.2		75-125	0.14	%REC	1	01/18/06 16:33

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 4.98 g

%Moisture: 15.0

TestCode: 8260S TAGML

Lab ID: 0601049-004A

Client Sample ID: BH-21-D

Collection Date: 01/10/06 15:25

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8215.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/16/06 14:25
1,1,1-Trichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 14:25
1,1,2,2-Tetrachloroethane	ND	2.9	0.19	µg/Kg-dry	1		01/16/06 14:25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 14:25
1,1,2-Trichloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/16/06 14:25
1,1-Dichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 14:25
1,1-Dichloroethene	ND	2.9	0.16	µg/Kg-dry	1		01/16/06 14:25
1,1-Dichloropropene	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 14:25
1,2,3-Trichlorobenzene	ND	5.9	0.59	µg/Kg-dry	1		01/16/06 14:25
1,2,3-Trichloropropane	ND	2.9	0.20	µg/Kg-dry	1		01/16/06 14:25
1,2,4-Trichlorobenzene	ND	5.9	0.40	µg/Kg-dry	1		01/16/06 14:25
1,2,4-Trimethylbenzene	ND	2.9	0.13	µg/Kg-dry	1		01/16/06 14:25
1,2-Dibromo-3-chloropropane	ND	5.9	0.47	µg/Kg-dry	1		01/16/06 14:25
1,2-Dibromoethane	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 14:25
1,2-Dichlorobenzene	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 14:25
1,2-Dichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 14:25
1,2-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/16/06 14:25
1,3,5-Trimethylbenzene	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 14:25
1,3-Dichlorobenzene	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 14:25
1,3-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/16/06 14:25
1,4-Dichlorobenzene	ND	2.9	0.15	µg/Kg-dry	1		01/16/06 14:25
2,2-Dichloropropane	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 14:25
2-Butanone	ND	12	0.16	µg/Kg-dry	1		01/16/06 14:25
2-Chlorotoluene	ND	2.9	0.08	µg/Kg-dry	1		01/16/06 14:25
2-Hexanone	ND	5.9	0.26	µg/Kg-dry	1		01/16/06 14:25
4-Chlorotoluene	ND	2.9	0.19	µg/Kg-dry	1		01/16/06 14:25
4-Methyl-2-pentanone	ND	5.9	0.28	µg/Kg-dry	1		01/16/06 14:25
Acetone	2.5 J	12	0.46	µg/Kg-dry	1		01/16/06 14:25
Benzene	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 14:25
Bromobenzene	ND	2.9	0.18	µg/Kg-dry	1		01/16/06 14:25
Bromochloromethane	ND	2.9	0.19	µg/Kg-dry	1		01/16/06 14:25
Bromodichloromethane	ND	2.9	0.09	µg/Kg-dry	1		01/16/06 14:25
Bromofom	ND	2.9	0.07	µg/Kg-dry	1		01/16/06 14:25
Bromomethane	ND	5.9	0.35	µg/Kg-dry	1		01/16/06 14:25

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 4.98 g

%Moisture: 15.0

TestCode: 8260S TAGML

Lab ID: 0601049-004A

Client Sample ID: BH-21-D

Collection Date: 01/10/06 15:25

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8215.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	0.66	J	2.9	0.07	µg/Kg-dry	1	01/16/06 14:25
Carbon tetrachloride	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 14:25
Chlorobenzene	ND		2.9	0.11	µg/Kg-dry	1	01/16/06 14:25
Chloroethane	ND		5.9	0.34	µg/Kg-dry	1	01/16/06 14:25
Chloroform	ND		2.9	0.05	µg/Kg-dry	1	01/16/06 14:25
Chloromethane	ND		5.9	0.45	µg/Kg-dry	1	01/16/06 14:25
cis-1,2-Dichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 14:25
cis-1,3-Dichloropropene	ND		2.9	0.11	µg/Kg-dry	1	01/16/06 14:25
Dibromochloromethane	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 14:25
Dibromomethane	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 14:25
Dichlorodifluoromethane	ND		5.9	0.09	µg/Kg-dry	1	01/16/06 14:25
Ethylbenzene	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 14:25
Hexachlorobutadiene	ND		5.9	0.46	µg/Kg-dry	1	01/16/06 14:25
Isopropylbenzene	ND		2.9	0.09	µg/Kg-dry	1	01/16/06 14:25
Methyl tert-butyl ether	ND		2.9	0.08	µg/Kg-dry	1	01/16/06 14:25
Methylene chloride	0.72	J	5.9	0.47	µg/Kg-dry	1	01/16/06 14:25
n-Butylbenzene	ND		2.9	0.14	µg/Kg-dry	1	01/16/06 14:25
n-Propylbenzene	ND		2.9	0.11	µg/Kg-dry	1	01/16/06 14:25
Naphthalene	ND		5.9	0.44	µg/Kg-dry	1	01/16/06 14:25
p-Isopropyltoluene	ND		2.9	0.11	µg/Kg-dry	1	01/16/06 14:25
sec-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 14:25
Styrene	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 14:25
tert-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 14:25
Tetrachloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/16/06 14:25
Toluene	ND		2.9	0.14	µg/Kg-dry	1	01/16/06 14:25
trans-1,2-Dichloroethene	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 14:25
trans-1,3-Dichloropropene	ND		2.9	0.11	µg/Kg-dry	1	01/16/06 14:25
Trichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 14:25
Trichlorofluoromethane	ND		5.9	0.09	µg/Kg-dry	1	01/16/06 14:25
Vinyl chloride	ND		5.9	0.09	µg/Kg-dry	1	01/16/06 14:25
Xylenes (total)	ND		5.9	0.21	µg/Kg-dry	1	01/16/06 14:25
Surr: 1,2-Dichloroethane-d4	88.6		71-128	0.15	%REC	1	01/16/06 14:25
Surr: 4-Bromofluorobenzene	62.5		59-125	0.11	%REC	1	01/16/06 14:25
Surr: Dibromofluoromethane	102		40-156	0.21	%REC	1	01/16/06 14:25
Surr: Toluene-d8	89.3		75-125	0.14	%REC	1	01/16/06 14:25

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 4.99 g

%Moisture: 15.0

TestCode: 8260S TAGML

Lab ID: 0601049-004A

Client Sample ID: BH-21-D

Collection Date: 01/10/06 15:25

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8262.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 17:08
1,1,1-Trichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 17:08
1,1,2,2-Tetrachloroethane	ND	2.9	0.19	µg/Kg-dry	1		01/18/06 17:08
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 17:08
1,1,2-Trichloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 17:08
1,1-Dichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 17:08
1,1-Dichloroethene	ND	2.9	0.16	µg/Kg-dry	1		01/18/06 17:08
1,1-Dichloropropene	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 17:08
1,2,3-Trichlorobenzene	ND	5.9	0.59	µg/Kg-dry	1		01/18/06 17:08
1,2,3-Trichloropropane	ND	2.9	0.20	µg/Kg-dry	1		01/18/06 17:08
1,2,4-Trichlorobenzene	ND	5.9	0.40	µg/Kg-dry	1		01/18/06 17:08
1,2,4-Trimethylbenzene	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 17:08
1,2-Dibromo-3-chloropropane	ND	5.9	0.47	µg/Kg-dry	1		01/18/06 17:08
1,2-Dibromoethane	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 17:08
1,2-Dichlorobenzene	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 17:08
1,2-Dichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 17:08
1,2-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/18/06 17:08
1,3,5-Trimethylbenzene	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 17:08
1,3-Dichlorobenzene	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 17:08
1,3-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/18/06 17:08
1,4-Dichlorobenzene	ND	2.9	0.15	µg/Kg-dry	1		01/18/06 17:08
2,2-Dichloropropane	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 17:08
2-Butanone	ND	12	0.16	µg/Kg-dry	1		01/18/06 17:08
2-Chlorotoluene	ND	2.9	0.08	µg/Kg-dry	1		01/18/06 17:08
2-Hexanone	ND	5.9	0.26	µg/Kg-dry	1		01/18/06 17:08
4-Chlorotoluene	ND	2.9	0.19	µg/Kg-dry	1		01/18/06 17:08
4-Methyl-2-pentanone	ND	5.9	0.28	µg/Kg-dry	1		01/18/06 17:08
Acetone	1.5 J	12	0.46	µg/Kg-dry	1		01/18/06 17:08
Benzene	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 17:08
Bromobenzene	ND	2.9	0.18	µg/Kg-dry	1		01/18/06 17:08
Bromochloromethane	ND	2.9	0.19	µg/Kg-dry	1		01/18/06 17:08
Bromodichloromethane	ND	2.9	0.09	µg/Kg-dry	1		01/18/06 17:08
Bromoform	ND	2.9	0.07	µg/Kg-dry	1		01/18/06 17:08
Bromomethane	ND	5.9	0.35	µg/Kg-dry	1		01/18/06 17:08

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 4.99 g

%Moisture: 15.0

TestCode: 8260S TAGML

Lab ID: 0601049-004A

Client Sample ID: BH-21-D

Collection Date: 01/10/06 15:25

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8262.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	0.84	J	2.9	0.07	µg/Kg-dry	1	01/18/06 17:08
Carbon tetrachloride	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 17:08
Chlorobenzene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 17:08
Chloroethane	ND		5.9	0.34	µg/Kg-dry	1	01/18/06 17:08
Chloroform	ND		2.9	0.05	µg/Kg-dry	1	01/18/06 17:08
Chloromethane	ND		5.9	0.45	µg/Kg-dry	1	01/18/06 17:08
cis-1,2-Dichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 17:08
cis-1,3-Dichloropropene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 17:08
Dibromochloromethane	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 17:08
Dibromomethane	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 17:08
Dichlorodifluoromethane	ND		5.9	0.09	µg/Kg-dry	1	01/18/06 17:08
Ethylbenzene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 17:08
Hexachlorobutadiene	ND		5.9	0.46	µg/Kg-dry	1	01/18/06 17:08
Isopropylbenzene	ND		2.9	0.09	µg/Kg-dry	1	01/18/06 17:08
Methyl tert-butyl ether	ND		2.9	0.08	µg/Kg-dry	1	01/18/06 17:08
Methylene chloride	0.78	J	5.9	0.47	µg/Kg-dry	1	01/18/06 17:08
n-Butylbenzene	ND		2.9	0.14	µg/Kg-dry	1	01/18/06 17:08
n-Propylbenzene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 17:08
Naphthalene	ND		5.9	0.44	µg/Kg-dry	1	01/18/06 17:08
p-Isopropyltoluene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 17:08
sec-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 17:08
Styrene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 17:08
tert-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 17:08
Tetrachloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/18/06 17:08
Toluene	ND		2.9	0.14	µg/Kg-dry	1	01/18/06 17:08
trans-1,2-Dichloroethene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 17:08
trans-1,3-Dichloropropene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 17:08
Trichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 17:08
Trichlorofluoromethane	ND		5.9	0.09	µg/Kg-dry	1	01/18/06 17:08
Vinyl chloride	ND		5.9	0.09	µg/Kg-dry	1	01/18/06 17:08
Xylenes (total)	ND		5.9	0.21	µg/Kg-dry	1	01/18/06 17:08
Surr. 1,2-Dichloroethane-d4	89.1		71-128	0.15	%REC	1	01/18/06 17:08
Surr. 4-Bromofluorobenzene	57.8	S	59-125	0.11	%REC	1	01/18/06 17:08
Surr. Dibromofluoromethane	101		40-156	0.21	%REC	1	01/18/06 17:08
Surr. Toluene-d8	86.2		75-125	0.14	%REC	1	01/18/06 17:08

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 5 g

%Moisture: 14.8

TestCode: 8260S TAGML

Lab ID: 0601049-005A

Client Sample ID: BH-22-S

Collection Date: 01/10/06 13:00

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8216.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/16/06 15:00
1,1,1-Trichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 15:00
1,1,2,2-Tetrachloroethane	ND	2.9	0.19	µg/Kg-dry	1		01/16/06 15:00
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 15:00
1,1,2-Trichloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/16/06 15:00
1,1-Dichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 15:00
1,1-Dichloroethene	ND	2.9	0.16	µg/Kg-dry	1		01/16/06 15:00
1,1-Dichloropropene	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 15:00
1,2,3-Trichlorobenzene	ND	5.9	0.59	µg/Kg-dry	1		01/16/06 15:00
1,2,3-Trichloropropane	ND	2.9	0.20	µg/Kg-dry	1		01/16/06 15:00
1,2,4-Trichlorobenzene	ND	5.9	0.40	µg/Kg-dry	1		01/16/06 15:00
1,2,4-Trimethylbenzene	ND	2.9	0.13	µg/Kg-dry	1		01/16/06 15:00
1,2-Dibromo-3-chloropropane	ND	5.9	0.47	µg/Kg-dry	1		01/16/06 15:00
1,2-Dibromoethane	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 15:00
1,2-Dichlorobenzene	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 15:00
1,2-Dichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 15:00
1,2-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/16/06 15:00
1,3,5-Trimethylbenzene	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 15:00
1,3-Dichlorobenzene	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 15:00
1,3-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/16/06 15:00
1,4-Dichlorobenzene	ND	2.9	0.15	µg/Kg-dry	1		01/16/06 15:00
2,2-Dichloropropane	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 15:00
2-Butanone	ND	12	0.16	µg/Kg-dry	1		01/16/06 15:00
2-Chlorotoluene	ND	2.9	0.08	µg/Kg-dry	1		01/16/06 15:00
2-Hexanone	ND	5.9	0.26	µg/Kg-dry	1		01/16/06 15:00
4-Chlorotoluene	ND	2.9	0.19	µg/Kg-dry	1		01/16/06 15:00
4-Methyl-2-pentanone	ND	5.9	0.28	µg/Kg-dry	1		01/16/06 15:00
Acetone	2.1 J	12	0.46	µg/Kg-dry	1		01/16/06 15:00
Benzene	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 15:00
Bromobenzene	ND	2.9	0.18	µg/Kg-dry	1		01/16/06 15:00
Bromochloromethane	ND	2.9	0.19	µg/Kg-dry	1		01/16/06 15:00
Bromodichloromethane	ND	2.9	0.09	µg/Kg-dry	1		01/16/06 15:00
Bromoform	ND	2.9	0.07	µg/Kg-dry	1		01/16/06 15:00
Bromomethane	ND	5.9	0.35	µg/Kg-dry	1		01/16/06 15:00

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 5 g

%Moisture: 14.8

TestCode: 8260S TAGML

Lab ID: 0601049-005A

Client Sample ID: BH-22-S

Collection Date: 01/10/06 13:00

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8216.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	2.9	0.07	µg/Kg-dry	1		01/16/06 15:00
Carbon tetrachloride	ND	2.9	0.13	µg/Kg-dry	1		01/16/06 15:00
Chlorobenzene	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 15:00
Chloroethane	ND	5.9	0.34	µg/Kg-dry	1		01/16/06 15:00
Chloroform	ND	2.9	0.05	µg/Kg-dry	1		01/16/06 15:00
Chloromethane	ND	5.9	0.45	µg/Kg-dry	1		01/16/06 15:00
cis-1,2-Dichloroethene	ND	2.9	0.13	µg/Kg-dry	1		01/16/06 15:00
cis-1,3-Dichloropropene	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 15:00
Dibromochloromethane	ND	2.9	0.15	µg/Kg-dry	1		01/16/06 15:00
Dibromomethane	ND	2.9	0.13	µg/Kg-dry	1		01/16/06 15:00
Dichlorodifluoromethane	ND	5.9	0.09	µg/Kg-dry	1		01/16/06 15:00
Ethylbenzene	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 15:00
Hexachlorobutadiene	ND	5.9	0.46	µg/Kg-dry	1		01/16/06 15:00
Isopropylbenzene	ND	2.9	0.09	µg/Kg-dry	1		01/16/06 15:00
Methyl tert-butyl ether	ND	2.9	0.08	µg/Kg-dry	1		01/16/06 15:00
Methylene chloride	0.68 J	5.9	0.47	µg/Kg-dry	1		01/16/06 15:00
n-Butylbenzene	ND	2.9	0.14	µg/Kg-dry	1		01/16/06 15:00
n-Propylbenzene	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 15:00
Naphthalene	ND	5.9	0.43	µg/Kg-dry	1		01/16/06 15:00
p-Isopropyltoluene	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 15:00
sec-Butylbenzene	ND	2.9	0.15	µg/Kg-dry	1		01/16/06 15:00
Styrene	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 15:00
tert-Butylbenzene	ND	2.9	0.15	µg/Kg-dry	1		01/16/06 15:00
Tetrachloroethene	ND	2.9	0.16	µg/Kg-dry	1		01/16/06 15:00
Toluene	ND	2.9	0.14	µg/Kg-dry	1		01/16/06 15:00
trans-1,2-Dichloroethene	ND	2.9	0.12	µg/Kg-dry	1		01/16/06 15:00
trans-1,3-Dichloropropene	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 15:00
Trichloroethene	ND	2.9	0.13	µg/Kg-dry	1		01/16/06 15:00
Trichlorofluoromethane	ND	5.9	0.09	µg/Kg-dry	1		01/16/06 15:00
Vinyl chloride	ND	5.9	0.09	µg/Kg-dry	1		01/16/06 15:00
Xylenes (total)	ND	5.9	0.21	µg/Kg-dry	1		01/16/06 15:00
Surr: 1,2-Dichloroethane-d4	86.1	71-128	0.15	%REC	1		01/16/06 15:00
Surr: 4-Bromofluorobenzene	57.9 S	59-125	0.11	%REC	1		01/16/06 15:00
Surr: Dibromofluoromethane	104	40-156	0.21	%REC	1		01/16/06 15:00
Surr: Toluene-d8	84.8	75-125	0.14	%REC	1		01/16/06 15:00

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 4.99 g

%Moisture: 14.8

TestCode: 8260S TAGML

Lab ID: 0601049-005A

Client Sample ID: BH-22-S

Collection Date: 01/10/06 13:00

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8263.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.9	0.13		µg/Kg-dry	1	01/18/06 17:43
1,1,1-Trichloroethane	ND	2.9	0.12		µg/Kg-dry	1	01/18/06 17:43
1,1,2,2-Tetrachloroethane	ND	2.9	0.19		µg/Kg-dry	1	01/18/06 17:43
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.9	0.12		µg/Kg-dry	1	01/18/06 17:43
1,1,2-Trichloroethane	ND	2.9	0.13		µg/Kg-dry	1	01/18/06 17:43
1,1-Dichloroethane	ND	2.9	0.12		µg/Kg-dry	1	01/18/06 17:43
1,1-Dichloroethene	ND	2.9	0.16		µg/Kg-dry	1	01/18/06 17:43
1,1-Dichloropropene	ND	2.9	0.12		µg/Kg-dry	1	01/18/06 17:43
1,2,3-Trichlorobenzene	ND	5.9	0.59		µg/Kg-dry	1	01/18/06 17:43
1,2,3-Trichloropropane	ND	2.9	0.20		µg/Kg-dry	1	01/18/06 17:43
1,2,4-Trichlorobenzene	ND	5.9	0.40		µg/Kg-dry	1	01/18/06 17:43
1,2,4-Trimethylbenzene	ND	2.9	0.13		µg/Kg-dry	1	01/18/06 17:43
1,2-Dibromo-3-chloropropane	ND	5.9	0.47		µg/Kg-dry	1	01/18/06 17:43
1,2-Dibromoethane	ND	2.9	0.11		µg/Kg-dry	1	01/18/06 17:43
1,2-Dichlorobenzene	ND	2.9	0.11		µg/Kg-dry	1	01/18/06 17:43
1,2-Dichloroethane	ND	2.9	0.12		µg/Kg-dry	1	01/18/06 17:43
1,2-Dichloropropane	ND	2.9	0.09		µg/Kg-dry	1	01/18/06 17:43
1,3,5-Trimethylbenzene	ND	2.9	0.11		µg/Kg-dry	1	01/18/06 17:43
1,3-Dichlorobenzene	ND	2.9	0.12		µg/Kg-dry	1	01/18/06 17:43
1,3-Dichloropropane	ND	2.9	0.09		µg/Kg-dry	1	01/18/06 17:43
1,4-Dichlorobenzene	ND	2.9	0.15		µg/Kg-dry	1	01/18/06 17:43
2,2-Dichloropropane	ND	2.9	0.11		µg/Kg-dry	1	01/18/06 17:43
2-Butanone	ND	12	0.16		µg/Kg-dry	1	01/18/06 17:43
2-Chlorotoluene	ND	2.9	0.08		µg/Kg-dry	1	01/18/06 17:43
2-Hexanone	ND	5.9	0.26		µg/Kg-dry	1	01/18/06 17:43
4-Chlorotoluene	ND	2.9	0.19		µg/Kg-dry	1	01/18/06 17:43
4-Methyl-2-pentanone	ND	5.9	0.28		µg/Kg-dry	1	01/18/06 17:43
Acetone	1.7 J	12	0.46		µg/Kg-dry	1	01/18/06 17:43
Benzene	ND	2.9	0.11		µg/Kg-dry	1	01/18/06 17:43
Bromobenzene	ND	2.9	0.18		µg/Kg-dry	1	01/18/06 17:43
Bromochloromethane	ND	2.9	0.19		µg/Kg-dry	1	01/18/06 17:43
Bromodichloromethane	ND	2.9	0.09		µg/Kg-dry	1	01/18/06 17:43
Bromoform	ND	2.9	0.07		µg/Kg-dry	1	01/18/06 17:43
Bromomethane	ND	5.9	0.35		µg/Kg-dry	1	01/18/06 17:43

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 4.99 g

%Moisture: 14.8

TestCode: 8260S TAGML

Lab ID: 0601049-005A

Client Sample ID: BH-22-S

Collection Date: 01/10/06 13:00

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8263.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		2.9	0.07	µg/Kg-dry	1	01/18/06 17:43
Carbon tetrachloride	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 17:43
Chlorobenzene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 17:43
Chloroethane	ND		5.9	0.34	µg/Kg-dry	1	01/18/06 17:43
Chloroform	ND		2.9	0.05	µg/Kg-dry	1	01/18/06 17:43
Chloromethane	ND		5.9	0.45	µg/Kg-dry	1	01/18/06 17:43
cis-1,2-Dichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 17:43
cis-1,3-Dichloropropene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 17:43
Dibromochloromethane	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 17:43
Dibromomethane	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 17:43
Dichlorodifluoromethane	ND		5.9	0.09	µg/Kg-dry	1	01/18/06 17:43
Ethylbenzene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 17:43
Hexachlorobutadiene	ND		5.9	0.46	µg/Kg-dry	1	01/18/06 17:43
Isopropylbenzene	ND		2.9	0.09	µg/Kg-dry	1	01/18/06 17:43
Methyl tert-butyl ether	ND		2.9	0.06	µg/Kg-dry	1	01/18/06 17:43
Methylene chloride	0.86 J		5.9	0.47	µg/Kg-dry	1	01/18/06 17:43
n-Butylbenzene	ND		2.9	0.14	µg/Kg-dry	1	01/18/06 17:43
n-Propylbenzene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 17:43
Naphthalene	ND		5.9	0.43	µg/Kg-dry	1	01/18/06 17:43
p-Isopropyltoluene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 17:43
sec-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 17:43
Styrene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 17:43
tert-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 17:43
Tetrachloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/18/06 17:43
Toluene	ND		2.9	0.14	µg/Kg-dry	1	01/18/06 17:43
trans-1,2-Dichloroethene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 17:43
trans-1,3-Dichloropropene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 17:43
Trichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 17:43
Trichlorofluoromethane	ND		5.9	0.09	µg/Kg-dry	1	01/18/06 17:43
Vinyl chloride	ND		5.9	0.09	µg/Kg-dry	1	01/18/06 17:43
Xylenes (total)	ND		5.9	0.21	µg/Kg-dry	1	01/18/06 17:43
Sum: 1,2-Dichloroethane-d4	88.2		71-128	0.15	%REC	1	01/18/06 17:43
Sum: 4-Bromofluorobenzene	51.8 S		59-125	0.11	%REC	1	01/18/06 17:43
Sum: Dibromofluoromethane	103		40-156	0.21	%REC	1	01/18/06 17:43
Sum: Toluene-d8	82.8		75-125	0.14	%REC	1	01/18/06 17:43

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 14.3

Revision: 01/20/06 9:58:21 A

TestCode: 8260S TAGML

Lab ID: 0601049-006A

Client Sample ID: BH-22-D

Collection Date: 01/10/06 13:20

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8217.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 15:35
1,1,1-Trichloroethane	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 15:35
1,1,2,2-Tetrachloroethane	ND		2.9	0.19	µg/Kg-dry	1	01/16/06 15:35
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 15:35
1,1,2-Trichloroethane	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 15:35
1,1-Dichloroethane	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 15:35
1,1-Dichloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/16/06 15:35
1,1-Dichloropropane	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 15:35
1,2,3-Trichlorobenzene	ND		5.8	0.58	µg/Kg-dry	1	01/16/06 15:35
1,2,3-Trichloropropane	ND		2.9	0.20	µg/Kg-dry	1	01/16/06 15:35
1,2,4-Trichlorobenzene	ND		5.8	0.40	µg/Kg-dry	1	01/16/06 15:35
1,2,4-Trimethylbenzene	ND		2.9	0.13	µg/Kg-dry	1	01/16/08 15:35
1,2-Dibromo-3-chloropropane	ND		5.8	0.47	µg/Kg-dry	1	01/16/08 15:35
1,2-Dibromoethane	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 15:35
1,2-Dichlorobenzene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 15:35
1,2-Dichloroethane	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 15:35
1,2-Dichloropropane	ND		2.9	0.09	µg/Kg-dry	1	01/16/06 15:35
1,3,5-Trimethylbenzene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 15:35
1,3-Dichlorobenzene	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 15:35
1,3-Dichloropropane	ND		2.9	0.09	µg/Kg-dry	1	01/16/08 15:35
1,4-Dichlorobenzene	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 15:35
2,2-Dichloropropane	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 15:35
2-Butanone	ND		12	0.16	µg/Kg-dry	1	01/16/06 15:35
2-Chlorotoluene	ND		2.9	0.06	µg/Kg-dry	1	01/16/06 15:35
2-Hexanone	ND		5.8	0.26	µg/Kg-dry	1	01/16/06 15:35
4-Chlorotoluene	ND		2.9	0.19	µg/Kg-dry	1	01/16/06 15:35
4-Methyl-2-pentanone	ND		5.8	0.28	µg/Kg-dry	1	01/16/06 15:35
Acetone	2.0 J		12	0.45	µg/Kg-dry	1	01/16/06 15:35
Benzene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 15:35
Bromobenzene	ND		2.9	0.17	µg/Kg-dry	1	01/16/06 15:35
Bromochloromethane	ND		2.9	0.19	µg/Kg-dry	1	01/16/06 15:35
Bromodichloromethane	ND		2.9	0.09	µg/Kg-dry	1	01/16/06 15:35
Bromoform	ND		2.9	0.07	µg/Kg-dry	1	01/16/06 15:35
Bromomethane	ND		5.8	0.35	µg/Kg-dry	1	01/16/06 15:35

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range
H Holding times for preparation or analysis exceeded J Analyte detected below the PQL
ND Not Detected at the Practical Quantitation Limit (PQL) P Prim./Conf. column %D or RPD exceeds limit
S Spike Recovery outside accepted recovery limits

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 5 g

%Moisture: 14.3

TestCode: 8260S TAGML

Lab ID: 0601049-006A

Client Sample ID: BH-22-D

Collection Date: 01/10/06 13:20

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8217.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		2.9	0.07	µg/Kg-dry	1	01/16/06 15:35
Carbon tetrachloride	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 15:35
Chlorobenzene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 15:35
Chloroethane	ND		5.8	0.34	µg/Kg-dry	1	01/16/06 15:35
Chloroform	ND		2.9	0.05	µg/Kg-dry	1	01/16/06 15:35
Chloromethane	ND		5.8	0.44	µg/Kg-dry	1	01/16/06 15:35
cis-1,2-Dichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 15:35
cis-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 15:35
Dibromochloromethane	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 15:35
Dibromomethane	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 15:35
Dichlorodifluoromethane	ND		5.8	0.09	µg/Kg-dry	1	01/16/06 15:35
Ethylbenzene	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 15:35
Hexachlorobutadiene	ND		5.8	0.45	µg/Kg-dry	1	01/16/06 15:35
Isopropylbenzene	ND		2.9	0.09	µg/Kg-dry	1	01/16/06 15:35
Methyl tert-butyl ether	ND		2.9	0.08	µg/Kg-dry	1	01/16/06 15:35
Methylene chloride	ND		5.8	0.47	µg/Kg-dry	1	01/16/06 15:35
n-Butylbenzene	ND		2.9	0.14	µg/Kg-dry	1	01/16/06 15:35
n-Propylbenzene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 15:35
Naphthalene	ND		5.8	0.43	µg/Kg-dry	1	01/16/06 15:35
p-Isopropyltoluene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 15:35
sec-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 15:35
Styrene	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 15:35
tert-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 15:35
Tetrachloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/16/06 15:35
Toluene	ND		2.9	0.14	µg/Kg-dry	1	01/16/06 15:35
trans-1,2-Dichloroethene	ND		2.9	0.12	µg/Kg-dry	1	01/16/06 15:35
trans-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 15:35
Trichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 15:35
Trichlorofluoromethane	ND		5.8	0.09	µg/Kg-dry	1	01/16/06 15:35
Vinyl chloride	ND		5.8	0.09	µg/Kg-dry	1	01/16/06 15:35
Xylenes (total)	ND		5.8	0.21	µg/Kg-dry	1	01/16/06 15:35
Surr: 1,2-Dichloroethane-d4	87.8		71-128	0.15	%REC	1	01/16/06 15:35
Surr: 4-Bromofluorobenzene	56.0	S	59-125	0.10	%REC	1	01/16/06 15:35
Surr: Dibromofluoromethane	104		40-156	0.21	%REC	1	01/16/06 15:35
Surr: Toluene-d8	86.3		75-125	0.14	%REC	1	01/16/06 15:35

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 5 g

%Moisture: 14.3

TestCode: 8260S TAGML

Lab ID: 0601049-006A

Client Sample ID: BH-22-D

Collection Date: 01/10/06 13:20

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8264.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 18:18
1,1,1-Trichloroethane	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 18:18
1,1,2,2-Tetrachloroethane	ND		2.9	0.19	µg/Kg-dry	1	01/18/06 18:18
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 18:18
1,1,2-Trichloroethane	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 18:18
1,1-Dichloroethane	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 18:18
1,1-Dichloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/18/06 18:18
1,1-Dichloropropane	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 18:18
1,2,3-Trichlorobenzene	ND		5.8	0.58	µg/Kg-dry	1	01/18/06 18:18
1,2,3-Trichloropropane	ND		2.9	0.20	µg/Kg-dry	1	01/18/06 18:18
1,2,4-Trichlorobenzene	ND		5.8	0.40	µg/Kg-dry	1	01/18/06 18:18
1,2,4-Trimethylbenzene	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 18:18
1,2-Dibromo-3-chloropropane	ND		5.8	0.47	µg/Kg-dry	1	01/18/06 18:18
1,2-Dibromoethane	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 18:18
1,2-Dichlorobenzene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 18:18
1,2-Dichloroethane	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 18:18
1,2-Dichloropropane	ND		2.9	0.09	µg/Kg-dry	1	01/18/06 18:18
1,3,5-Trimethylbenzene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 18:18
1,3-Dichlorobenzene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 18:18
1,3-Dichloropropane	ND		2.9	0.09	µg/Kg-dry	1	01/18/06 18:18
1,4-Dichlorobenzene	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 18:18
2,2-Dichloropropane	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 18:18
2-Butanone	ND		12	0.16	µg/Kg-dry	1	01/18/06 18:18
2-Chlorotoluene	ND		2.9	0.08	µg/Kg-dry	1	01/18/06 18:18
2-Hexanone	ND		5.8	0.28	µg/Kg-dry	1	01/18/06 18:18
4-Chlorotoluene	ND		2.9	0.19	µg/Kg-dry	1	01/18/06 18:18
4-Methyl-2-pentanone	ND		5.8	0.28	µg/Kg-dry	1	01/18/06 18:18
Acetone	1.3 J		12	0.45	µg/Kg-dry	1	01/18/06 18:18
Benzene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 18:18
Bromobenzene	ND		2.9	0.17	µg/Kg-dry	1	01/18/06 18:18
Bromochloromethane	ND		2.9	0.19	µg/Kg-dry	1	01/18/06 18:18
Bromodichloromethane	ND		2.9	0.09	µg/Kg-dry	1	01/18/06 18:18
Bromofom	ND		2.9	0.07	µg/Kg-dry	1	01/18/06 18:18
Bromomethane	ND		5.8	0.35	µg/Kg-dry	1	01/18/06 18:18

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 5 g

%Moisture: 14.3

TestCode: 8260S TAGML

Lab ID: 0601049-006A

Client Sample ID: BH-22-D

Collection Date: 01/10/06 13:20

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8264.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		2.9	0.07	µg/Kg-dry	1	01/18/06 18:18
Carbon tetrachloride	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 18:18
Chlorobenzene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 18:18
Chloroethane	ND		5.8	0.34	µg/Kg-dry	1	01/18/06 18:18
Chloroform	ND		2.9	0.05	µg/Kg-dry	1	01/18/06 18:18
Chloromethane	ND		5.8	0.44	µg/Kg-dry	1	01/18/06 18:18
cis-1,2-Dichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 18:18
cis-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 18:18
Dibromochloromethane	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 18:18
Dibromomethane	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 18:18
Dichlorodifluoromethane	ND		5.8	0.09	µg/Kg-dry	1	01/18/06 18:18
Ethylbenzene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 18:18
Hexachlorobutadiene	ND		5.8	0.45	µg/Kg-dry	1	01/18/06 18:18
Isopropylbenzene	ND		2.9	0.09	µg/Kg-dry	1	01/18/06 18:18
Methyl tert-butyl ether	ND		2.9	0.08	µg/Kg-dry	1	01/18/06 18:18
Methylene chloride	0.70 J		5.8	0.47	µg/Kg-dry	1	01/18/06 18:18
n-Butylbenzene	ND		2.9	0.14	µg/Kg-dry	1	01/18/06 18:18
n-Propylbenzene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 18:18
Naphthalene	ND		5.8	0.43	µg/Kg-dry	1	01/18/06 18:18
p-Isopropyltoluene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 18:18
sec-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 18:18
Styrene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 18:18
tert-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 18:18
Tetrachloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/18/06 18:18
Toluene	ND		2.9	0.14	µg/Kg-dry	1	01/18/06 18:18
trans-1,2-Dichloroethene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 18:18
trans-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/18/06 18:18
Trichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 18:18
Trichlorofluoromethane	ND		5.8	0.09	µg/Kg-dry	1	01/18/06 18:18
Vinyl chloride	ND		5.8	0.09	µg/Kg-dry	1	01/18/06 18:18
Xylenes (total)	ND		5.8	0.21	µg/Kg-dry	1	01/18/06 18:18
Sum: 1,2-Dichloroethane-d4	88.7		71-128	0.15	%REC	1	01/18/06 18:18
Sum: 4-Bromofluorobenzene	53.7 S		59-125	0.10	%REC	1	01/18/06 18:18
Sum: Dibromofluoromethane	103		40-156	0.21	%REC	1	01/18/06 18:18
Sum: Toluene-d8	83.0		75-125	0.14	%REC	1	01/18/06 18:18

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 2 g

%Moisture: 6.2

TestCode: 8260S TAGML

Lab ID: 0601049-007A

Client Sample ID: BH-23-S

Collection Date: 01/10/06 14:00

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8225.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	6.7	0.29	µg/Kg-dry	2.5	01/16/06 20:14	
1,1,1-Trichloroethane	ND	6.7	0.27	µg/Kg-dry	2.5	01/16/06 20:14	
1,1,2,2-Tetrachloroethane	ND	6.7	0.43	µg/Kg-dry	2.5	01/16/06 20:14	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	6.7	0.27	µg/Kg-dry	2.5	01/16/06 20:14	
1,1,2-Trichloroethane	ND	6.7	0.29	µg/Kg-dry	2.5	01/16/06 20:14	
1,1-Dichloroethane	ND	6.7	0.27	µg/Kg-dry	2.5	01/16/06 20:14	
1,1-Dichloroethene	ND	6.7	0.37	µg/Kg-dry	2.5	01/16/06 20:14	
1,1-Dichloropropene	ND	6.7	0.27	µg/Kg-dry	2.5	01/16/06 20:14	
1,2,3-Trichlorobenzene	ND	13	1.3	µg/Kg-dry	2.5	01/16/06 20:14	
1,2,3-Trichloropropane	ND	6.7	0.45	µg/Kg-dry	2.5	01/16/06 20:14	
1,2,4-Trichlorobenzene	ND	13	0.91	µg/Kg-dry	2.5	01/16/06 20:14	
1,2,4-Trimethylbenzene	ND	6.7	0.29	µg/Kg-dry	2.5	01/16/06 20:14	
1,2-Dibromo-3-chloropropane	ND	13	1.1	µg/Kg-dry	2.5	01/16/06 20:14	
1,2-Dibromoethane	ND	6.7	0.24	µg/Kg-dry	2.5	01/16/06 20:14	
1,2-Dichlorobenzene	ND	6.7	0.24	µg/Kg-dry	2.5	01/16/06 20:14	
1,2-Dichloroethane	ND	6.7	0.27	µg/Kg-dry	2.5	01/16/06 20:14	
1,2-Dichloropropane	ND	6.7	0.21	µg/Kg-dry	2.5	01/16/06 20:14	
1,3,5-Trimethylbenzene	ND	6.7	0.24	µg/Kg-dry	2.5	01/16/06 20:14	
1,3-Dichlorobenzene	ND	6.7	0.27	µg/Kg-dry	2.5	01/16/06 20:14	
1,3-Dichloropropane	ND	6.7	0.21	µg/Kg-dry	2.5	01/16/06 20:14	
1,4-Dichlorobenzene	ND	6.7	0.35	µg/Kg-dry	2.5	01/16/06 20:14	
2,2-Dichloropropane	ND	6.7	0.24	µg/Kg-dry	2.5	01/16/06 20:14	
2-Butanone	ND	27	0.37	µg/Kg-dry	2.5	01/16/06 20:14	
2-Chlorotoluene	ND	6.7	0.19	µg/Kg-dry	2.5	01/16/06 20:14	
2-Hexanone	ND	13	0.59	µg/Kg-dry	2.5	01/16/06 20:14	
4-Chlorotoluene	ND	6.7	0.43	µg/Kg-dry	2.5	01/16/06 20:14	
4-Methyl-2-pentanone	ND	13	0.64	µg/Kg-dry	2.5	01/16/06 20:14	
Acetone	5.5 J	27	1.0	µg/Kg-dry	2.5	01/16/06 20:14	
Benzene	ND	6.7	0.24	µg/Kg-dry	2.5	01/16/06 20:14	
Bromobenzene	ND	6.7	0.40	µg/Kg-dry	2.5	01/16/06 20:14	
Bromochloromethane	ND	6.7	0.43	µg/Kg-dry	2.5	01/16/06 20:14	
Bromodichloromethane	ND	6.7	0.21	µg/Kg-dry	2.5	01/16/06 20:14	
Bromoform	ND	6.7	0.16	µg/Kg-dry	2.5	01/16/06 20:14	
Bromomethane	ND	13	0.80	µg/Kg-dry	2.5	01/16/06 20:14	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 2 g

%Moisture: 6.2

TestCode: 8260S TAGML

Lab ID: 0601049-007A

Client Sample ID: BH-23-S

Collection Date: 01/10/06 14:00

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8225.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		6.7	0.16	µg/Kg-dry	2.5	01/16/06 20:14
Carbon tetrachloride	ND		6.7	0.29	µg/Kg-dry	2.5	01/16/06 20:14
Chlorobenzene	ND		6.7	0.24	µg/Kg-dry	2.5	01/16/06 20:14
Chloroethane	ND		13	0.77	µg/Kg-dry	2.5	01/16/06 20:14
Chloroform	ND		6.7	0.11	µg/Kg-dry	2.5	01/16/06 20:14
Chloromethane	ND		13	1.0	µg/Kg-dry	2.5	01/16/06 20:14
cis-1,2-Dichloroethene	ND		6.7	0.29	µg/Kg-dry	2.5	01/16/06 20:14
cis-1,3-Dichloropropene	ND		6.7	0.24	µg/Kg-dry	2.5	01/16/06 20:14
Dibromochloromethane	ND		6.7	0.35	µg/Kg-dry	2.5	01/16/06 20:14
Dibromomethane	ND		6.7	0.29	µg/Kg-dry	2.5	01/16/06 20:14
Dichlorodifluoromethane	ND		13	0.21	µg/Kg-dry	2.5	01/16/06 20:14
Ethylbenzene	ND		6.7	0.27	µg/Kg-dry	2.5	01/16/06 20:14
Hexachlorobutadiene	ND		13	1.0	µg/Kg-dry	2.5	01/16/06 20:14
Isopropylbenzene	ND		6.7	0.21	µg/Kg-dry	2.5	01/16/06 20:14
Methyl tert-butyl ether	ND		6.7	0.19	µg/Kg-dry	2.5	01/16/06 20:14
Methylene chloride	1.4 J		13	1.1	µg/Kg-dry	2.5	01/16/06 20:14
n-Butylbenzene	ND		6.7	0.32	µg/Kg-dry	2.5	01/16/06 20:14
n-Propylbenzene	ND		6.7	0.24	µg/Kg-dry	2.5	01/16/06 20:14
Naphthalene	8.1 J		13	0.99	µg/Kg-dry	2.5	01/16/06 20:14
p-Isopropyltoluene	ND		6.7	0.24	µg/Kg-dry	2.5	01/16/06 20:14
sec-Butylbenzene	ND		6.7	0.35	µg/Kg-dry	2.5	01/16/06 20:14
Styrene	ND		8.7	0.27	µg/Kg-dry	2.5	01/16/06 20:14
tert-Butylbenzene	ND		6.7	0.35	µg/Kg-dry	2.5	01/16/06 20:14
Tetrachloroethene	ND		6.7	0.37	µg/Kg-dry	2.5	01/16/06 20:14
Toluene	ND		6.7	0.32	µg/Kg-dry	2.5	01/16/06 20:14
trans-1,2-Dichloroethene	ND		6.7	0.27	µg/Kg-dry	2.5	01/16/06 20:14
trans-1,3-Dichloropropene	ND		6.7	0.24	µg/Kg-dry	2.5	01/16/06 20:14
Trichloroethene	ND		6.7	0.29	µg/Kg-dry	2.5	01/16/06 20:14
Trichlorofluoromethane	ND		13	0.21	µg/Kg-dry	2.5	01/16/06 20:14
Vinyl chloride	ND		13	0.21	µg/Kg-dry	2.5	01/16/06 20:14
Xylenes (total)	ND		13	0.48	µg/Kg-dry	2.5	01/16/06 20:14
Surr. 1,2-Dichloroethane-d4	92.0		71-128	0.35	%REC	2.5	01/16/06 20:14
Surr. 4-Bromofluorobenzene	57.2 S		59-125	0.24	%REC	2.5	01/16/06 20:14
Surr. Dibromofluoromethane	107		40-156	0.48	%REC	2.5	01/16/06 20:14
Surr. Toluene-d8	88.1		75-125	0.32	%REC	2.5	01/16/06 20:14

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 2.04 g

%Moisture: 6.2

TestCode: 8260S TAGML

Lab ID: 0601049-007A

Client Sample ID: BH-23-S

Collection Date: 01/10/06 14:00

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8265.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND		6.5	0.29	µg/Kg-dry	2.45	01/18/06 18:53
1,1,1-Trichloroethane	ND		6.5	0.26	µg/Kg-dry	2.45	01/18/06 18:53
1,1,2,2-Tetrachloroethane	ND		6.5	0.42	µg/Kg-dry	2.45	01/18/06 18:53
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		6.5	0.26	µg/Kg-dry	2.45	01/18/06 18:53
1,1,2-Trichloroethane	ND		6.5	0.29	µg/Kg-dry	2.45	01/18/06 18:53
1,1-Dichloroethane	ND		6.5	0.26	µg/Kg-dry	2.45	01/18/06 18:53
1,1-Dichloroethene	ND		6.5	0.37	µg/Kg-dry	2.45	01/18/06 18:53
1,1-Dichloropropene	ND		6.5	0.26	µg/Kg-dry	2.45	01/18/06 18:53
1,2,3-Trichlorobenzene	ND		13	1.3	µg/Kg-dry	2.45	01/18/06 18:53
1,2,3-Trichloropropane	ND		6.5	0.44	µg/Kg-dry	2.45	01/18/06 18:53
1,2,4-Trichlorobenzene	ND		13	0.89	µg/Kg-dry	2.45	01/18/06 18:53
1,2,4-Trimethylbenzene	2.1 J		6.5	0.29	µg/Kg-dry	2.45	01/18/06 18:53
1,2-Dibromo-3-chloropropane	ND		13	1.0	µg/Kg-dry	2.45	01/18/06 18:53
1,2-Dibromoethane	ND		6.5	0.24	µg/Kg-dry	2.45	01/18/06 18:53
1,2-Dichlorobenzene	ND		6.5	0.24	µg/Kg-dry	2.45	01/18/06 18:53
1,2-Dichloroethane	ND		6.5	0.26	µg/Kg-dry	2.45	01/18/06 18:53
1,2-Dichloropropane	ND		6.5	0.21	µg/Kg-dry	2.45	01/18/06 18:53
1,3,5-Trimethylbenzene	ND		6.5	0.24	µg/Kg-dry	2.45	01/18/06 18:53
1,3-Dichlorobenzene	ND		6.5	0.26	µg/Kg-dry	2.45	01/18/06 18:53
1,3-Dichloropropane	ND		6.5	0.21	µg/Kg-dry	2.45	01/18/06 18:53
1,4-Dichlorobenzene	ND		6.5	0.34	µg/Kg-dry	2.45	01/18/06 18:53
2,2-Dichloropropane	ND		6.5	0.24	µg/Kg-dry	2.45	01/18/06 18:53
2-Butanone	ND		26	0.37	µg/Kg-dry	2.45	01/18/06 18:53
2-Chlorotoluene	ND		6.5	0.18	µg/Kg-dry	2.45	01/18/06 18:53
2-Hexanone	ND		13	0.57	µg/Kg-dry	2.45	01/18/06 18:53
4-Chlorotoluene	ND		6.5	0.42	µg/Kg-dry	2.45	01/18/06 18:53
4-Methyl-2-pentanone	ND		13	0.63	µg/Kg-dry	2.45	01/18/06 18:53
Acetone	2.8 J		26	1.0	µg/Kg-dry	2.45	01/18/06 18:53
Benzene	ND		6.5	0.24	µg/Kg-dry	2.45	01/18/06 18:53
Bromobenzene	ND		6.5	0.39	µg/Kg-dry	2.45	01/18/06 18:53
Bromochloromethane	ND		6.5	0.42	µg/Kg-dry	2.45	01/18/06 18:53
Bromodichloromethane	ND		6.5	0.21	µg/Kg-dry	2.45	01/18/06 18:53
Bromoform	ND		6.5	0.16	µg/Kg-dry	2.45	01/18/06 18:53
Bromomethane	ND		13	0.78	µg/Kg-dry	2.45	01/18/06 18:53

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 2.04 g

%Moisture: 6.2

TestCode: 8260S TAGML

Lab ID: 0601049-007A

Client Sample ID: BH-23-S

Collection Date: 01/10/06 14:00

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8265.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		6.5	0.16	µg/Kg-dry	2.45	01/18/06 18:53
Carbon tetrachloride	ND		6.5	0.29	µg/Kg-dry	2.45	01/18/06 18:53
Chlorobenzene	ND		6.5	0.24	µg/Kg-dry	2.45	01/18/06 18:53
Chloroethane	ND		13	0.76	µg/Kg-dry	2.45	01/18/06 18:53
Chloroform	ND		6.5	0.10	µg/Kg-dry	2.45	01/18/06 18:53
Chloromethane	ND		13	0.99	µg/Kg-dry	2.45	01/18/06 18:53
cis-1,2-Dichloroethene	ND		6.5	0.29	µg/Kg-dry	2.45	01/18/06 18:53
cis-1,3-Dichloropropene	ND		6.5	0.24	µg/Kg-dry	2.45	01/18/06 18:53
Dibromochloromethane	ND		6.5	0.34	µg/Kg-dry	2.45	01/18/06 18:53
Dibromomethane	ND		6.5	0.29	µg/Kg-dry	2.45	01/18/06 18:53
Dichlorodifluoromethane	ND		13	0.21	µg/Kg-dry	2.45	01/18/06 18:53
Ethylbenzene	ND		6.5	0.26	µg/Kg-dry	2.45	01/18/06 18:53
Hexachlorobutadiene	ND		13	1.0	µg/Kg-dry	2.45	01/18/06 18:53
Isopropylbenzene	ND		6.5	0.21	µg/Kg-dry	2.45	01/18/06 18:53
Methyl tert-butyl ether	ND		6.5	0.18	µg/Kg-dry	2.45	01/18/06 18:53
Methylene chloride	2.0 J		13	1.0	µg/Kg-dry	2.45	01/18/06 18:53
n-Butylbenzene	ND		6.5	0.31	µg/Kg-dry	2.45	01/18/06 18:53
n-Propylbenzene	ND		6.5	0.24	µg/Kg-dry	2.45	01/18/06 18:53
Naphthalene	5.7 J		13	0.97	µg/Kg-dry	2.45	01/18/06 18:53
p-Isopropyltoluene	ND		6.5	0.24	µg/Kg-dry	2.45	01/18/06 18:53
sec-Butylbenzene	ND		6.5	0.34	µg/Kg-dry	2.45	01/18/06 18:53
Styrene	ND		6.5	0.26	µg/Kg-dry	2.45	01/18/06 18:53
tert-Butylbenzene	ND		6.5	0.34	µg/Kg-dry	2.45	01/18/06 18:53
Tetrachloroethene	ND		6.5	0.37	µg/Kg-dry	2.45	01/18/06 18:53
Toluene	ND		6.5	0.31	µg/Kg-dry	2.45	01/18/06 18:53
trans-1,2-Dichloroethene	ND		6.5	0.26	µg/Kg-dry	2.45	01/18/06 18:53
trans-1,3-Dichloropropene	ND		6.5	0.24	µg/Kg-dry	2.45	01/18/06 18:53
Trichloroethene	ND		6.5	0.29	µg/Kg-dry	2.45	01/18/06 18:53
Trichlorofluoromethane	ND		13	0.21	µg/Kg-dry	2.45	01/18/06 18:53
Vinyl chloride	ND		13	0.21	µg/Kg-dry	2.45	01/18/06 18:53
Xylenes (total)	ND		13	0.47	µg/Kg-dry	2.45	01/18/06 18:53
Surr: 1,2-Dichloroethane-d4	87.3		71-128	0.34	%REC	2.45	01/18/06 18:53
Surr: 4-Bromofluorobenzene	58.7 S		59-125	0.24	%REC	2.45	01/18/06 18:53
Surr: Dibromofluoromethane	103		40-156	0.47	%REC	2.45	01/18/06 18:53
Surr: Toluene-d8	86.5		75-125	0.31	%REC	2.45	01/18/06 18:53

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 4.99 g

%Moisture: 19.7

TestCode: 8260S TAGML

Lab ID: 0601049-008A

Client Sample ID: BH-24-S

Collection Date: 01/11/06 9:40

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8218.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/16/06 16:10
1,1,1-Trichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/16/06 16:10
1,1,2,2-Tetrachloroethane	ND	3.1	0.20	µg/Kg-dry	1		01/16/06 16:10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.1	0.12	µg/Kg-dry	1		01/16/06 16:10
1,1,2-Trichloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/16/06 16:10
1,1-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/16/06 16:10
1,1-Dichloroethene	ND	3.1	0.17	µg/Kg-dry	1		01/16/06 16:10
1,1-Dichloropropene	ND	3.1	0.12	µg/Kg-dry	1		01/16/06 16:10
1,2,3-Trichlorobenzene	ND	6.2	0.62	µg/Kg-dry	1		01/16/06 16:10
1,2,3-Trichloropropane	ND	3.1	0.21	µg/Kg-dry	1		01/16/06 16:10
1,2,4-Trichlorobenzene	ND	6.2	0.42	µg/Kg-dry	1		01/16/06 16:10
1,2,4-Trimethylbenzene	ND	3.1	0.14	µg/Kg-dry	1		01/16/06 16:10
1,2-Dibromo-3-chloropropane	ND	6.2	0.50	µg/Kg-dry	1		01/16/06 16:10
1,2-Dibromoethane	ND	3.1	0.11	µg/Kg-dry	1		01/16/06 16:10
1,2-Dichlorobenzene	ND	3.1	0.11	µg/Kg-dry	1		01/16/06 16:10
1,2-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/16/06 16:10
1,2-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/16/06 16:10
1,3,5-Trimethylbenzene	ND	3.1	0.11	µg/Kg-dry	1		01/16/06 16:10
1,3-Dichlorobenzene	ND	3.1	0.12	µg/Kg-dry	1		01/16/06 16:10
1,3-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/16/06 16:10
1,4-Dichlorobenzene	ND	3.1	0.16	µg/Kg-dry	1		01/16/06 16:10
2,2-Dichloropropane	ND	3.1	0.11	µg/Kg-dry	1		01/16/06 16:10
2-Butanone	ND	12	0.17	µg/Kg-dry	1		01/16/06 16:10
2-Chlorotoluene	ND	3.1	0.09	µg/Kg-dry	1		01/16/06 16:10
2-Hexanone	ND	6.2	0.27	µg/Kg-dry	1		01/16/06 16:10
4-Chlorotoluene	ND	3.1	0.20	µg/Kg-dry	1		01/16/06 16:10
4-Methyl-2-pentanone	ND	6.2	0.30	µg/Kg-dry	1		01/16/06 16:10
Acetone	2.1 J	12	0.49	µg/Kg-dry	1		01/16/06 16:10
Benzene	ND	3.1	0.11	µg/Kg-dry	1		01/16/06 16:10
Bromobenzene	ND	3.1	0.19	µg/Kg-dry	1		01/16/06 16:10
Bromochloromethane	ND	3.1	0.20	µg/Kg-dry	1		01/16/06 16:10
Bromodichloromethane	ND	3.1	0.10	µg/Kg-dry	1		01/16/06 16:10
Bromoform	ND	3.1	0.07	µg/Kg-dry	1		01/16/06 16:10
Bromomethane	ND	6.2	0.37	µg/Kg-dry	1		01/16/06 16:10

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %d or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 4.99 g

%Moisture: 19.7

TestCode: 8260S TAGML

Lab ID: 0601049-008A

Client Sample ID: BH-24-S

Collection Date: 01/11/06 9:40

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8218.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	1.3	J	3.1	0.07	µg/Kg-dry	1	01/16/06 16:10
Carbon tetrachloride	ND		3.1	0.14	µg/Kg-dry	1	01/16/06 16:10
Chlorobenzene	ND		3.1	0.11	µg/Kg-dry	1	01/16/06 16:10
Chloroethane	ND		6.2	0.36	µg/Kg-dry	1	01/16/06 16:10
Chloroform	ND		3.1	0.05	µg/Kg-dry	1	01/16/06 16:10
Chloromethane	ND		6.2	0.47	µg/Kg-dry	1	01/16/06 16:10
cis-1,2-Dichloroethene	ND		3.1	0.14	µg/Kg-dry	1	01/16/06 16:10
cis-1,3-Dichloropropene	ND		3.1	0.11	µg/Kg-dry	1	01/16/06 16:10
Dibromochloromethane	ND		3.1	0.16	µg/Kg-dry	1	01/16/06 16:10
Dibromomethane	ND		3.1	0.14	µg/Kg-dry	1	01/16/06 16:10
Dichlorodifluoromethane	ND		6.2	0.10	µg/Kg-dry	1	01/16/06 16:10
Ethylbenzene	ND		3.1	0.12	µg/Kg-dry	1	01/16/06 16:10
Hexachlorobutadiene	ND		6.2	0.49	µg/Kg-dry	1	01/16/06 16:10
Isopropylbenzene	ND		3.1	0.10	µg/Kg-dry	1	01/16/06 16:10
Methyl tert-butyl ether	ND		3.1	0.09	µg/Kg-dry	1	01/16/06 16:10
Methylene chloride	1.1	J	6.2	0.50	µg/Kg-dry	1	01/16/06 16:10
n-Butylbenzene	ND		3.1	0.15	µg/Kg-dry	1	01/16/06 16:10
n-Propylbenzene	ND		3.1	0.11	µg/Kg-dry	1	01/16/06 16:10
Naphthalene	0.65	J	6.2	0.46	µg/Kg-dry	1	01/16/06 16:10
p-Isopropyltoluene	ND		3.1	0.11	µg/Kg-dry	1	01/16/06 16:10
sec-Butylbenzene	ND		3.1	0.16	µg/Kg-dry	1	01/16/06 16:10
Styrene	ND		3.1	0.12	µg/Kg-dry	1	01/16/06 16:10
tert-Butylbenzene	ND		3.1	0.16	µg/Kg-dry	1	01/16/06 16:10
Tetrachloroethene	ND		3.1	0.17	µg/Kg-dry	1	01/16/06 16:10
Toluene	ND		3.1	0.15	µg/Kg-dry	1	01/16/06 16:10
trans-1,2-Dichloroethene	ND		3.1	0.12	µg/Kg-dry	1	01/16/06 16:10
trans-1,3-Dichloropropene	ND		3.1	0.11	µg/Kg-dry	1	01/16/06 16:10
Trichloroethene	ND		3.1	0.14	µg/Kg-dry	1	01/16/06 16:10
Trichlorofluoromethane	ND		6.2	0.10	µg/Kg-dry	1	01/16/06 16:10
Vinyl chloride	ND		6.2	0.10	µg/Kg-dry	1	01/16/06 16:10
Xylenes (total)	ND		6.2	0.22	µg/Kg-dry	1	01/16/06 16:10
Surr: 1,2-Dichloroethane-d4	92.2		71-128	0.16	%REC	1	01/16/06 16:10
Surr: 4-Bromofluorobenzene	55.9	S	59-125	0.11	%REC	1	01/16/06 16:10
Surr: Dibromofluoromethane	107		40-156	0.22	%REC	1	01/16/06 16:10
Surr: Toluene-d8	84.8		75-125	0.15	%REC	1	01/16/06 16:10

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 4.99 g

%Moisture: 19.7

TestCode: 8260S TAGML

Lab ID: 0601049-008A

Client Sample ID: BH-24-S

Collection Date: 01/11/06 9:40

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8266.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/18/06 19:28
1,1,1-Trichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/18/06 19:28
1,1,2,2-Tetrachloroethane	ND	3.1	0.20	µg/Kg-dry	1		01/18/06 19:28
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.1	0.12	µg/Kg-dry	1		01/18/06 19:28
1,1,2-Trichloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/18/06 19:28
1,1-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/18/06 19:28
1,1-Dichloroethene	ND	3.1	0.17	µg/Kg-dry	1		01/18/06 19:28
1,1-Dichloropropene	ND	3.1	0.12	µg/Kg-dry	1		01/18/06 19:28
1,2,3-Trichlorobenzene	ND	6.2	0.62	µg/Kg-dry	1		01/18/06 19:28
1,2,3-Trichloropropane	ND	3.1	0.21	µg/Kg-dry	1		01/18/06 19:28
1,2,4-Trichlorobenzene	ND	6.2	0.42	µg/Kg-dry	1		01/18/06 19:28
1,2,4-Trimethylbenzene	ND	3.1	0.14	µg/Kg-dry	1		01/18/06 19:28
1,2-Dibromo-3-chloropropane	ND	6.2	0.50	µg/Kg-dry	1		01/18/06 19:28
1,2-Dibromoethane	ND	3.1	0.11	µg/Kg-dry	1		01/18/06 19:28
1,2-Dichlorobenzene	ND	3.1	0.11	µg/Kg-dry	1		01/18/06 19:28
1,2-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/18/06 19:28
1,2-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/18/06 19:28
1,3,5-Trimethylbenzene	ND	3.1	0.11	µg/Kg-dry	1		01/18/06 19:28
1,3-Dichlorobenzene	ND	3.1	0.12	µg/Kg-dry	1		01/18/06 19:28
1,3-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/18/06 19:28
1,4-Dichlorobenzene	ND	3.1	0.16	µg/Kg-dry	1		01/18/06 19:28
2,2-Dichloropropane	ND	3.1	0.11	µg/Kg-dry	1		01/18/06 19:28
2-Butanone	ND	12	0.17	µg/Kg-dry	1		01/18/06 19:28
2-Chlorotoluene	ND	3.1	0.09	µg/Kg-dry	1		01/18/06 19:28
2-Hexanone	ND	6.2	0.27	µg/Kg-dry	1		01/18/06 19:28
4-Chlorotoluene	ND	3.1	0.20	µg/Kg-dry	1		01/18/06 19:28
4-Methyl-2-pentanone	ND	6.2	0.30	µg/Kg-dry	1		01/18/06 19:28
Acetone	1.5 J	12	0.49	µg/Kg-dry	1		01/18/06 19:28
Benzene	ND	3.1	0.11	µg/Kg-dry	1		01/18/06 19:28
Bromobenzene	ND	3.1	0.19	µg/Kg-dry	1		01/18/06 19:28
Bromochloromethane	ND	3.1	0.20	µg/Kg-dry	1		01/18/06 19:28
Bromodichloromethane	ND	3.1	0.10	µg/Kg-dry	1		01/18/06 19:28
Bromoform	ND	3.1	0.07	µg/Kg-dry	1		01/18/06 19:28
Bromomethane	ND	6.2	0.37	µg/Kg-dry	1		01/18/06 19:28

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 4.99 g

%Moisture: 19.7

TestCode: 8260S TAGML

Lab ID: 0601049-008A

Client Sample ID: BH-24-S

Collection Date: 01/11/06 9:40

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8266.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	1.3	J	3.1	0.07	µg/Kg-dry	1	01/18/06 19:28
Carbon tetrachloride	ND		3.1	0.14	µg/Kg-dry	1	01/18/06 19:28
Chlorobenzene	ND		3.1	0.11	µg/Kg-dry	1	01/18/06 19:28
Chloroethane	ND		6.2	0.36	µg/Kg-dry	1	01/18/06 19:28
Chloroform	ND		3.1	0.05	µg/Kg-dry	1	01/18/06 19:28
Chloromethane	ND		6.2	0.47	µg/Kg-dry	1	01/18/06 19:28
cis-1,2-Dichloroethene	ND		3.1	0.14	µg/Kg-dry	1	01/18/06 19:28
cis-1,3-Dichloropropene	ND		3.1	0.11	µg/Kg-dry	1	01/18/06 19:28
Dibromochloromethane	ND		3.1	0.16	µg/Kg-dry	1	01/18/06 19:28
Dibromomethane	ND		3.1	0.14	µg/Kg-dry	1	01/18/06 19:28
Dichlorodifluoromethane	ND		6.2	0.10	µg/Kg-dry	1	01/18/06 19:28
Ethylbenzene	ND		3.1	0.12	µg/Kg-dry	1	01/18/06 19:28
Hexachlorobutadiene	ND		6.2	0.49	µg/Kg-dry	1	01/18/06 19:28
Isopropylbenzene	ND		3.1	0.10	µg/Kg-dry	1	01/18/06 19:28
Methyl tert-butyl ether	ND		3.1	0.09	µg/Kg-dry	1	01/18/06 19:28
Methylene chloride	1.7	J	6.2	0.50	µg/Kg-dry	1	01/18/06 19:28
n-Butylbenzene	ND		3.1	0.15	µg/Kg-dry	1	01/18/06 19:28
n-Propylbenzene	ND		3.1	0.11	µg/Kg-dry	1	01/18/06 19:28
Naphthalene	ND		6.2	0.46	µg/Kg-dry	1	01/18/06 19:28
p-Isopropyltoluene	ND		3.1	0.11	µg/Kg-dry	1	01/18/06 19:28
sec-Butylbenzene	ND		3.1	0.16	µg/Kg-dry	1	01/18/06 19:28
Styrene	ND		3.1	0.12	µg/Kg-dry	1	01/18/06 19:28
tert-Butylbenzene	ND		3.1	0.16	µg/Kg-dry	1	01/18/06 19:28
Tetrachloroethene	ND		3.1	0.17	µg/Kg-dry	1	01/18/06 19:28
Toluene	ND		3.1	0.15	µg/Kg-dry	1	01/16/06 19:28
trans-1,2-Dichloroethene	ND		3.1	0.12	µg/Kg-dry	1	01/18/06 19:28
trans-1,3-Dichloropropene	ND		3.1	0.11	µg/Kg-dry	1	01/18/06 19:28
Trichloroethene	ND		3.1	0.14	µg/Kg-dry	1	01/18/06 19:28
Trichlorofluoromethane	ND		6.2	0.10	µg/Kg-dry	1	01/18/06 19:28
Vinyl chloride	ND		6.2	0.10	µg/Kg-dry	1	01/18/06 19:28
Xylenes (total)	ND		6.2	0.22	µg/Kg-dry	1	01/18/06 19:28
Surr: 1,2-Dichloroethane-d4	90.9		71-126	0.16	%REC	1	01/18/06 19:28
Surr: 4-Bromofluorobenzene	54.8	S	59-125	0.11	%REC	1	01/18/06 19:28
Surr: Dibromofluoromethane	107		40-156	0.22	%REC	1	01/18/06 19:28
Surr: Toluene-d8	83.1		75-125	0.15	%REC	1	01/18/06 19:28

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 5 g

%Moisture: 28.5

TestCode: 8260S TAGML

Lab ID: 0601049-009A

Client Sample ID: BH-24-D

Collection Date: 01/11/06 9:50

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: I-SAMP-J8219.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.5	0.15	µg/Kg-dry	1		01/16/06 16:45
1,1,1-Trichloroethane	ND	3.5	0.14	µg/Kg-dry	1		01/16/06 16:45
1,1,2,2-Tetrachloroethane	ND	3.5	0.22	µg/Kg-dry	1		01/16/06 16:45
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.5	0.14	µg/Kg-dry	1		01/16/06 16:45
1,1,2-Trichloroethane	ND	3.5	0.15	µg/Kg-dry	1		01/16/06 16:45
1,1-Dichloroethane	ND	3.5	0.14	µg/Kg-dry	1		01/16/06 16:45
1,1-Dichloroethene	ND	3.5	0.20	µg/Kg-dry	1		01/16/06 16:45
1,1-Dichloropropene	ND	3.5	0.14	µg/Kg-dry	1		01/16/06 16:45
1,2,3-Trichlorobenzene	ND	7.0	0.70	µg/Kg-dry	1		01/16/06 16:45
1,2,3-Trichloropropane	ND	3.5	0.24	µg/Kg-dry	1		01/16/06 16:45
1,2,4-Trichlorobenzene	ND	7.0	0.48	µg/Kg-dry	1		01/16/06 16:45
1,2,4-Trimethylbenzene	ND	3.5	0.15	µg/Kg-dry	1		01/16/06 16:45
1,2-Dibromo-3-chloropropane	ND	7.0	0.56	µg/Kg-dry	1		01/16/06 16:45
1,2-Dibromoethane	ND	3.5	0.13	µg/Kg-dry	1		01/16/06 16:45
1,2-Dichlorobenzene	ND	3.5	0.13	µg/Kg-dry	1		01/16/06 16:45
1,2-Dichloroethane	ND	3.5	0.14	µg/Kg-dry	1		01/16/06 16:45
1,2-Dichloropropane	ND	3.5	0.11	µg/Kg-dry	1		01/16/06 16:45
1,3,5-Trimethylbenzene	ND	3.5	0.13	µg/Kg-dry	1		01/16/06 16:45
1,3-Dichlorobenzene	ND	3.5	0.14	µg/Kg-dry	1		01/16/06 16:45
1,3-Dichloropropane	ND	3.5	0.11	µg/Kg-dry	1		01/16/06 16:45
1,4-Dichlorobenzene	ND	3.5	0.18	µg/Kg-dry	1		01/16/06 16:45
2,2-Dichloropropane	ND	3.5	0.13	µg/Kg-dry	1		01/16/06 16:45
2-Butanone	ND	14	0.20	µg/Kg-dry	1		01/16/06 16:45
2-Chlorotoluene	ND	3.5	0.10	µg/Kg-dry	1		01/16/06 16:45
2-Hexanone	ND	7.0	0.31	µg/Kg-dry	1		01/16/06 16:45
4-Chlorotoluene	ND	3.5	0.22	µg/Kg-dry	1		01/16/06 16:45
4-Methyl-2-pentanone	ND	7.0	0.34	µg/Kg-dry	1		01/16/06 16:45
Acetone	2.3 J	14	0.55	µg/Kg-dry	1		01/16/06 16:45
Benzene	ND	3.5	0.13	µg/Kg-dry	1		01/16/06 16:45
Bromobenzene	ND	3.5	0.21	µg/Kg-dry	1		01/16/06 16:45
Bromochloromethane	ND	3.5	0.22	µg/Kg-dry	1		01/16/06 16:45
Bromodichloromethane	ND	3.5	0.11	µg/Kg-dry	1		01/16/06 16:45
Bromoform	ND	3.5	0.08	µg/Kg-dry	1		01/16/06 16:45
Bromomethane	ND	7.0	0.42	µg/Kg-dry	1		01/16/06 16:45

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 5 g

%Moisture: 28.5

TestCode: 8260S TAGML

Lab ID: 0601049-009A

Client Sample ID: BH-24-D

Collection Date: 01/11/06 9:50

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8219.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	3.5	0.08	µg/Kg-dry	1		01/16/06 16:45
Carbon tetrachloride	ND	3.5	0.15	µg/Kg-dry	1		01/16/06 16:45
Chlorobenzene	ND	3.5	0.13	µg/Kg-dry	1		01/16/06 16:45
Chloroethane	ND	7.0	0.41	µg/Kg-dry	1		01/16/06 16:45
Chloroform	ND	3.5	0.06	µg/Kg-dry	1		01/16/06 16:45
Chloromethane	ND	7.0	0.53	µg/Kg-dry	1		01/16/06 16:45
cis-1,2-Dichloroethene	ND	3.5	0.15	µg/Kg-dry	1		01/16/06 16:45
cis-1,3-Dichloropropene	ND	3.5	0.13	µg/Kg-dry	1		01/16/06 16:45
Dibromochloromethane	ND	3.5	0.18	µg/Kg-dry	1		01/16/06 16:45
Dibromomethane	ND	3.5	0.15	µg/Kg-dry	1		01/16/06 16:45
Dichlorodifluoromethane	ND	7.0	0.11	µg/Kg-dry	1		01/16/06 16:45
Ethylbenzene	ND	3.5	0.14	µg/Kg-dry	1		01/16/06 16:45
Hexachlorobutadiene	ND	7.0	0.55	µg/Kg-dry	1		01/16/06 16:45
Isopropylbenzene	ND	3.5	0.11	µg/Kg-dry	1		01/16/06 16:45
Methyl tert-butyl ether	ND	3.5	0.10	µg/Kg-dry	1		01/16/06 16:45
Methylene chloride	ND	7.0	0.56	µg/Kg-dry	1		01/16/06 16:45
n-Butylbenzene	ND	3.5	0.17	µg/Kg-dry	1		01/16/06 16:45
n-Propylbenzene	ND	3.5	0.13	µg/Kg-dry	1		01/16/06 16:45
Naphthalene	ND	7.0	0.52	µg/Kg-dry	1		01/16/06 16:45
p-Isopropyltoluene	ND	3.5	0.13	µg/Kg-dry	1		01/16/06 16:45
sec-Butylbenzene	ND	3.5	0.18	µg/Kg-dry	1		01/16/06 16:45
Styrene	ND	3.5	0.14	µg/Kg-dry	1		01/16/06 16:45
tert-Butylbenzene	ND	3.5	0.18	µg/Kg-dry	1		01/16/06 16:45
Tetrachloroethene	ND	3.5	0.20	µg/Kg-dry	1		01/16/06 16:45
Toluene	ND	3.5	0.17	µg/Kg-dry	1		01/16/06 16:45
trans-1,2-Dichloroethene	ND	3.5	0.14	µg/Kg-dry	1		01/16/06 16:45
trans-1,3-Dichloropropene	ND	3.5	0.13	µg/Kg-dry	1		01/16/06 16:45
Trichloroethene	ND	3.5	0.15	µg/Kg-dry	1		01/16/06 16:45
Trichlorofluoromethane	ND	7.0	0.11	µg/Kg-dry	1		01/16/06 16:45
Vinyl chloride	ND	7.0	0.11	µg/Kg-dry	1		01/16/06 16:45
Xylenes (total)	ND	7.0	0.25	µg/Kg-dry	1		01/16/06 16:45
Surr. 1,2-Dichloroethane-d4	88.5	71-128	0.18	%REC	1		01/16/06 16:45
Surr. 4-Bromofluorobenzene	62.3	59-125	0.13	%REC	1		01/16/06 16:45
Surr. Dibromofluoromethane	102	40-156	0.25	%REC	1		01/16/06 16:45
Surr. Toluene-d8	89.4	75-125	0.17	%REC	1		01/16/06 16:45

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 5 g

%Moisture: 28.5

TestCode: 8260S TAGML

Lab ID: 0601049-009A

Client Sample ID: BH-24-D

Collection Date: 01/11/06 9:50

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8267.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND		3.5	0.15	µg/Kg-dry	1	01/18/06 20:02
1,1,1-Trichloroethane	ND		3.5	0.14	µg/Kg-dry	1	01/18/06 20:02
1,1,2,2-Tetrachloroethane	ND		3.5	0.22	µg/Kg-dry	1	01/18/06 20:02
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.5	0.14	µg/Kg-dry	1	01/18/06 20:02
1,1,2-Trichloroethane	ND		3.5	0.15	µg/Kg-dry	1	01/18/06 20:02
1,1-Dichloroethane	ND		3.5	0.14	µg/Kg-dry	1	01/18/06 20:02
1,1-Dichloroethene	ND		3.5	0.20	µg/Kg-dry	1	01/18/06 20:02
1,1-Dichloropropene	ND		3.5	0.14	µg/Kg-dry	1	01/18/06 20:02
1,2,3-Trichlorobenzene	ND		7.0	0.70	µg/Kg-dry	1	01/18/06 20:02
1,2,3-Trichloropropane	ND		3.5	0.24	µg/Kg-dry	1	01/18/06 20:02
1,2,4-Trichlorobenzene	ND		7.0	0.48	µg/Kg-dry	1	01/18/06 20:02
1,2,4-Trimethylbenzene	ND		3.5	0.15	µg/Kg-dry	1	01/18/06 20:02
1,2-Dibromo-3-chloropropane	ND		7.0	0.56	µg/Kg-dry	1	01/18/06 20:02
1,2-Dibromoethane	ND		3.5	0.13	µg/Kg-dry	1	01/18/06 20:02
1,2-Dichlorobenzene	ND		3.5	0.13	µg/Kg-dry	1	01/18/06 20:02
1,2-Dichloroethane	ND		3.5	0.14	µg/Kg-dry	1	01/18/06 20:02
1,2-Dichloropropane	ND		3.5	0.11	µg/Kg-dry	1	01/18/06 20:02
1,3,5-Trimethylbenzene	ND		3.5	0.13	µg/Kg-dry	1	01/18/06 20:02
1,3-Dichlorobenzene	ND		3.5	0.14	µg/Kg-dry	1	01/18/06 20:02
1,3-Dichloropropane	ND		3.5	0.11	µg/Kg-dry	1	01/18/06 20:02
1,4-Dichlorobenzene	ND		3.5	0.18	µg/Kg-dry	1	01/18/06 20:02
2,2-Dichloropropane	ND		3.5	0.13	µg/Kg-dry	1	01/18/06 20:02
2-Butanone	ND		14	0.20	µg/Kg-dry	1	01/18/06 20:02
2-Chlorotoluene	ND		3.5	0.10	µg/Kg-dry	1	01/18/06 20:02
2-Hexanone	ND		7.0	0.31	µg/Kg-dry	1	01/18/06 20:02
4-Chlorotoluene	ND		3.5	0.22	µg/Kg-dry	1	01/18/06 20:02
4-Methyl-2-pentanone	ND		7.0	0.34	µg/Kg-dry	1	01/18/06 20:02
Acetone	1.7 J		14	0.55	µg/Kg-dry	1	01/18/06 20:02
Benzene	ND		3.5	0.13	µg/Kg-dry	1	01/18/06 20:02
Bromobenzene	ND		3.5	0.21	µg/Kg-dry	1	01/18/06 20:02
Bromochloromethane	ND		3.5	0.22	µg/Kg-dry	1	01/18/06 20:02
Bromodichloromethane	ND		3.5	0.11	µg/Kg-dry	1	01/18/06 20:02
Bromoform	ND		3.5	0.08	µg/Kg-dry	1	01/18/06 20:02
Bromomethane	ND		7.0	0.42	µg/Kg-dry	1	01/18/06 20:02

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 5 g

%Moisture: 28.5

TestCode: 8260S TAGML

Lab ID: 0601049-009A

Client Sample ID: BH-24-D

Collection Date: 01/11/06 9:50

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-RA-J8267.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	3.5	0.08	µg/Kg-dry	1		01/18/06 20:02
Carbon tetrachloride	ND	3.5	0.15	µg/Kg-dry	1		01/18/06 20:02
Chlorobenzene	ND	3.5	0.13	µg/Kg-dry	1		01/18/06 20:02
Chloroethane	ND	7.0	0.41	µg/Kg-dry	1		01/18/06 20:02
Chloroform	ND	3.5	0.06	µg/Kg-dry	1		01/18/06 20:02
Chloromethane	ND	7.0	0.53	µg/Kg-dry	1		01/18/06 20:02
cis-1,2-Dichloroethene	ND	3.5	0.15	µg/Kg-dry	1		01/18/06 20:02
cis-1,3-Dichloropropene	ND	3.5	0.13	µg/Kg-dry	1		01/18/06 20:02
Dibromochloromethane	ND	3.5	0.18	µg/Kg-dry	1		01/18/06 20:02
Dibromomethane	ND	3.5	0.15	µg/Kg-dry	1		01/18/06 20:02
Dichlorodifluoromethane	ND	7.0	0.11	µg/Kg-dry	1		01/18/06 20:02
Ethylbenzene	ND	3.5	0.14	µg/Kg-dry	1		01/18/06 20:02
Hexachlorobutadiene	ND	7.0	0.55	µg/Kg-dry	1		01/18/06 20:02
Isopropylbenzene	ND	3.5	0.11	µg/Kg-dry	1		01/18/06 20:02
Methyl tert-butyl ether	ND	3.5	0.10	µg/Kg-dry	1		01/18/06 20:02
Methylene chloride	1.7 J	7.0	0.56	µg/Kg-dry	1		01/18/06 20:02
n-Butylbenzene	ND	3.5	0.17	µg/Kg-dry	1		01/18/06 20:02
n-Propylbenzene	ND	3.5	0.13	µg/Kg-dry	1		01/18/06 20:02
Naphthalene	ND	7.0	0.52	µg/Kg-dry	1		01/18/06 20:02
p-Isopropyltoluene	ND	3.5	0.13	µg/Kg-dry	1		01/18/06 20:02
sec-Butylbenzene	ND	3.5	0.18	µg/Kg-dry	1		01/18/06 20:02
Styrene	ND	3.5	0.14	µg/Kg-dry	1		01/18/06 20:02
tert-Butylbenzene	ND	3.5	0.18	µg/Kg-dry	1		01/18/06 20:02
Tetrachloroethene	ND	3.5	0.20	µg/Kg-dry	1		01/18/06 20:02
Toluene	ND	3.5	0.17	µg/Kg-dry	1		01/18/06 20:02
trans-1,2-Dichloroethene	ND	3.5	0.14	µg/Kg-dry	1		01/18/06 20:02
trans-1,3-Dichloropropene	ND	3.5	0.13	µg/Kg-dry	1		01/18/06 20:02
Trichloroethene	ND	3.5	0.15	µg/Kg-dry	1		01/18/06 20:02
Trichlorofluoromethane	ND	7.0	0.11	µg/Kg-dry	1		01/18/06 20:02
Vinyl chloride	ND	7.0	0.11	µg/Kg-dry	1		01/18/06 20:02
Xylenes (total)	ND	7.0	0.25	µg/Kg-dry	1		01/18/06 20:02
Surr. 1,2-Dichloroethane-d4	88.5	71-128	0.18	%REC	1		01/18/06 20:02
Surr. 4-Bromofluorobenzene	59.1	59-125	0.13	%REC	1		01/18/06 20:02
Surr. Dibromofluoromethane	103	40-156	0.25	%REC	1		01/18/06 20:02
Surr. Toluene-d8	85.9	75-125	0.17	%REC	1		01/18/06 20:02

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 4.99 g

%Moisture: 19.1

TestCode: 8260S TAGML

Lab ID: 0601049-010A

Client Sample ID: BH-25-S

Collection Date: 01/11/06 12:10

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8220.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/16/06 17:20
1,1,1-Trichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/16/06 17:20
1,1,2,2-Tetrachloroethane	ND	3.1	0.20	µg/Kg-dry	1		01/16/06 17:20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.1	0.12	µg/Kg-dry	1		01/16/06 17:20
1,1,2-Trichloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/16/06 17:20
1,1-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/16/06 17:20
1,1-Dichloroethene	ND	3.1	0.17	µg/Kg-dry	1		01/16/06 17:20
1,1-Dichloropropene	ND	3.1	0.12	µg/Kg-dry	1		01/16/06 17:20
1,2,3-Trichlorobenzene	ND	6.2	0.62	µg/Kg-dry	1		01/16/06 17:20
1,2,3-Trichloropropane	ND	3.1	0.21	µg/Kg-dry	1		01/16/06 17:20
1,2,4-Trichlorobenzene	ND	6.2	0.42	µg/Kg-dry	1		01/16/06 17:20
1,2,4-Trimethylbenzene	ND	3.1	0.14	µg/Kg-dry	1		01/16/06 17:20
1,2-Dibromo-3-chloropropane	ND	6.2	0.49	µg/Kg-dry	1		01/16/06 17:20
1,2-Dibromoethane	ND	3.1	0.11	µg/Kg-dry	1		01/16/06 17:20
1,2-Dichlorobenzene	ND	3.1	0.11	µg/Kg-dry	1		01/16/06 17:20
1,2-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/16/06 17:20
1,2-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/16/06 17:20
1,3,5-Trimethylbenzene	ND	3.1	0.11	µg/Kg-dry	1		01/16/06 17:20
1,3-Dichlorobenzene	ND	3.1	0.12	µg/Kg-dry	1		01/16/06 17:20
1,3-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/16/06 17:20
1,4-Dichlorobenzene	ND	3.1	0.16	µg/Kg-dry	1		01/16/06 17:20
2,2-Dichloropropane	ND	3.1	0.11	µg/Kg-dry	1		01/16/06 17:20
2-Butanone	ND	12	0.17	µg/Kg-dry	1		01/16/06 17:20
2-Chlorotoluene	ND	3.1	0.09	µg/Kg-dry	1		01/16/06 17:20
2-Hexanone	ND	6.2	0.27	µg/Kg-dry	1		01/16/06 17:20
4-Chlorotoluene	ND	3.1	0.20	µg/Kg-dry	1		01/16/06 17:20
4-Methyl-2-pentanone	ND	6.2	0.30	µg/Kg-dry	1		01/16/06 17:20
Acetone	3.3 J	12	0.46	µg/Kg-dry	1		01/16/06 17:20
Benzene	ND	3.1	0.11	µg/Kg-dry	1		01/16/06 17:20
Bromobenzene	ND	3.1	0.19	µg/Kg-dry	1		01/16/06 17:20
Bromochloromethane	ND	3.1	0.20	µg/Kg-dry	1		01/16/06 17:20
Bromodichloromethane	ND	3.1	0.10	µg/Kg-dry	1		01/16/06 17:20
Bromoform	ND	3.1	0.07	µg/Kg-dry	1		01/16/06 17:20
Bromomethane	ND	6.2	0.37	µg/Kg-dry	1		01/16/06 17:20

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 4.99 g

%Moisture: 19.1

TestCode: 8260S TAGML

Lab ID: 0601049-010A

Client Sample ID: BH-25-S

Collection Date: 01/11/06 12:10

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8220.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	3.1	0.07	µg/Kg-dry	1		01/16/06 17:20
Carbon tetrachloride	ND	3.1	0.14	µg/Kg-dry	1		01/16/06 17:20
Chlorobenzene	ND	3.1	0.11	µg/Kg-dry	1		01/16/06 17:20
Chloroethane	ND	6.2	0.36	µg/Kg-dry	1		01/16/06 17:20
Chloroform	ND	3.1	0.05	µg/Kg-dry	1		01/16/06 17:20
Chloromethane	ND	6.2	0.47	µg/Kg-dry	1		01/16/06 17:20
cis-1,2-Dichloroethene	ND	3.1	0.14	µg/Kg-dry	1		01/16/06 17:20
cis-1,3-Dichloropropene	ND	3.1	0.11	µg/Kg-dry	1		01/16/06 17:20
Dibromochloromethane	ND	3.1	0.16	µg/Kg-dry	1		01/16/06 17:20
Dibromomethane	ND	3.1	0.14	µg/Kg-dry	1		01/16/06 17:20
Dichlorodifluoromethane	ND	6.2	0.10	µg/Kg-dry	1		01/16/06 17:20
Ethylbenzene	ND	3.1	0.12	µg/Kg-dry	1		01/16/06 17:20
Hexachlorobutadiene	ND	6.2	0.48	µg/Kg-dry	1		01/16/06 17:20
Isopropylbenzene	ND	3.1	0.10	µg/Kg-dry	1		01/16/06 17:20
Methyl tert-butyl ether	ND	3.1	0.09	µg/Kg-dry	1		01/16/06 17:20
Methylene chloride	1.5 J	6.2	0.49	µg/Kg-dry	1		01/16/06 17:20
n-Butylbenzene	ND	3.1	0.15	µg/Kg-dry	1		01/16/06 17:20
n-Propylbenzene	ND	3.1	0.11	µg/Kg-dry	1		01/16/06 17:20
Naphthalene	ND	6.2	0.46	µg/Kg-dry	1		01/16/06 17:20
p-Isopropyltoluene	ND	3.1	0.11	µg/Kg-dry	1		01/16/06 17:20
sec-Butylbenzene	ND	3.1	0.16	µg/Kg-dry	1		01/16/06 17:20
Styrene	ND	3.1	0.12	µg/Kg-dry	1		01/16/06 17:20
tert-Butylbenzene	ND	3.1	0.16	µg/Kg-dry	1		01/16/06 17:20
Tetrachloroethene	ND	3.1	0.17	µg/Kg-dry	1		01/16/06 17:20
Toluene	ND	3.1	0.15	µg/Kg-dry	1		01/16/06 17:20
trans-1,2-Dichloroethene	ND	3.1	0.12	µg/Kg-dry	1		01/16/06 17:20
trans-1,3-Dichloropropene	ND	3.1	0.11	µg/Kg-dry	1		01/16/06 17:20
Trichloroethene	ND	3.1	0.14	µg/Kg-dry	1		01/16/06 17:20
Trichlorofluoromethane	ND	6.2	0.10	µg/Kg-dry	1		01/16/06 17:20
Vinyl chloride	ND	6.2	0.10	µg/Kg-dry	1		01/16/06 17:20
Xylenes (total)	ND	6.2	0.22	µg/Kg-dry	1		01/16/06 17:20
Surr: 1,2-Dichloroethane-d4	91.6	71-128	0.16	%REC	1		01/16/06 17:20
Surr: 4-Bromofluorobenzene	48.7 S	59-125	0.11	%REC	1		01/16/06 17:20
Surr: Dibromofluoromethane	116	40-156	0.22	%REC	1		01/16/06 17:20
Surr: Toluene-d8	69.4 S	75-125	0.15	%REC	1		01/16/06 17:20

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:03 A

Sample Size: 4.99 g

%Moisture: 19.1

TestCode: 8260S TAGML

Lab ID: 0601049-010A

Client Sample ID: BH-25-S

Collection Date: 01/11/06 12:10

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4263

FileID: 1-RA-J8274.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/19/06 13:31
1,1,1-Trichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/19/06 13:31
1,1,2,2-Tetrachloroethane	ND	3.1	0.20	µg/Kg-dry	1		01/19/06 13:31
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.1	0.12	µg/Kg-dry	1		01/19/06 13:31
1,1,2-Trichloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/19/06 13:31
1,1-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/19/06 13:31
1,1-Dichloroethene	ND	3.1	0.17	µg/Kg-dry	1		01/19/06 13:31
1,1-Dichloropropene	ND	3.1	0.12	µg/Kg-dry	1		01/19/06 13:31
1,2,3-Trichlorobenzene	ND	6.2	0.62	µg/Kg-dry	1		01/19/06 13:31
1,2,3-Trichloropropane	ND	3.1	0.21	µg/Kg-dry	1		01/19/06 13:31
1,2,4-Trichlorobenzene	ND	6.2	0.42	µg/Kg-dry	1		01/19/06 13:31
1,2,4-Trimethylbenzene	ND	3.1	0.14	µg/Kg-dry	1		01/19/06 13:31
1,2-Dibromo-3-chloropropane	ND	6.2	0.49	µg/Kg-dry	1		01/19/06 13:31
1,2-Dibromoethane	ND	3.1	0.11	µg/Kg-dry	1		01/19/06 13:31
1,2-Dichlorobenzene	ND	3.1	0.11	µg/Kg-dry	1		01/19/06 13:31
1,2-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/19/06 13:31
1,2-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/19/06 13:31
1,3,5-Trimethylbenzene	ND	3.1	0.11	µg/Kg-dry	1		01/19/06 13:31
1,3-Dichlorobenzene	ND	3.1	0.12	µg/Kg-dry	1		01/19/06 13:31
1,3-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/19/06 13:31
1,4-Dichlorobenzene	ND	3.1	0.16	µg/Kg-dry	1		01/19/06 13:31
2,2-Dichloropropane	ND	3.1	0.11	µg/Kg-dry	1		01/19/06 13:31
2-Butanone	ND	12	0.17	µg/Kg-dry	1		01/19/06 13:31
2-Chlorotoluene	ND	3.1	0.09	µg/Kg-dry	1		01/19/06 13:31
2-Hexanone	ND	6.2	0.27	µg/Kg-dry	1		01/19/06 13:31
4-Chlorotoluene	ND	3.1	0.20	µg/Kg-dry	1		01/19/06 13:31
4-Methyl-2-pentanone	ND	6.2	0.30	µg/Kg-dry	1		01/19/06 13:31
Acetone	3.0 J	12	0.48	µg/Kg-dry	1		01/19/06 13:31
Benzene	ND	3.1	0.11	µg/Kg-dry	1		01/19/06 13:31
Bromobenzene	ND	3.1	0.19	µg/Kg-dry	1		01/19/06 13:31
Bromochloromethane	ND	3.1	0.20	µg/Kg-dry	1		01/19/06 13:31
Bromodichloromethane	ND	3.1	0.10	µg/Kg-dry	1		01/19/06 13:31
Bromoform	ND	3.1	0.07	µg/Kg-dry	1		01/19/06 13:31
Bromomethane	ND	6.2	0.37	µg/Kg-dry	1		01/19/06 13:31

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 4.99 g

ColumnID: Rtx-VMS

%Moisture: 19.1

Revision: 01/20/06 9:58:03 A

TestCode: 8260S TAGML

Lab ID: 0601049-010A

Client Sample ID: BH-25-S

Collection Date: 01/11/06 12:10

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4263

FileID: 1-RA-J8274.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	3.1	0.07	µg/Kg-dry	1		01/19/06 13:31
Carbon tetrachloride	ND	3.1	0.14	µg/Kg-dry	1		01/19/06 13:31
Chlorobenzene	ND	3.1	0.11	µg/Kg-dry	1		01/19/06 13:31
Chloroethane	ND	6.2	0.36	µg/Kg-dry	1		01/19/06 13:31
Chloroform	ND	3.1	0.05	µg/Kg-dry	1		01/19/06 13:31
Chloromethane	ND	6.2	0.47	µg/Kg-dry	1		01/19/06 13:31
cis-1,2-Dichloroethene	ND	3.1	0.14	µg/Kg-dry	1		01/19/06 13:31
cis-1,3-Dichloropropene	ND	3.1	0.11	µg/Kg-dry	1		01/19/06 13:31
Dibromochloromethane	ND	3.1	0.16	µg/Kg-dry	1		01/19/06 13:31
Dibromomethane	ND	3.1	0.14	µg/Kg-dry	1		01/19/06 13:31
Dichlorodifluoromethane	ND	6.2	0.10	µg/Kg-dry	1		01/19/06 13:31
Ethylbenzene	ND	3.1	0.12	µg/Kg-dry	1		01/19/06 13:31
Hexachlorobutadiene	ND	6.2	0.48	µg/Kg-dry	1		01/19/06 13:31
Isopropylbenzene	ND	3.1	0.10	µg/Kg-dry	1		01/19/06 13:31
Methyl tert-butyl ether	ND	3.1	0.09	µg/Kg-dry	1		01/19/06 13:31
Methylene chloride	3.3 J	6.2	0.49	µg/Kg-dry	1		01/19/06 13:31
n-Butylbenzene	ND	3.1	0.15	µg/Kg-dry	1		01/19/06 13:31
n-Propylbenzene	ND	3.1	0.11	µg/Kg-dry	1		01/19/06 13:31
Naphthalene	0.73 J	6.2	0.46	µg/Kg-dry	1		01/19/06 13:31
p-Isopropyltoluene	ND	3.1	0.11	µg/Kg-dry	1		01/19/06 13:31
sec-Butylbenzene	ND	3.1	0.16	µg/Kg-dry	1		01/19/06 13:31
Styrene	ND	3.1	0.12	µg/Kg-dry	1		01/19/06 13:31
tert-Butylbenzene	ND	3.1	0.16	µg/Kg-dry	1		01/19/06 13:31
Tetrachloroethene	ND	3.1	0.17	µg/Kg-dry	1		01/19/06 13:31
Toluene	ND	3.1	0.15	µg/Kg-dry	1		01/19/06 13:31
trans-1,2-Dichloroethene	ND	3.1	0.12	µg/Kg-dry	1		01/19/06 13:31
trans-1,3-Dichloropropene	ND	3.1	0.11	µg/Kg-dry	1		01/19/06 13:31
Trichloroethene	ND	3.1	0.14	µg/Kg-dry	1		01/19/06 13:31
Trichlorofluoromethane	ND	6.2	0.10	µg/Kg-dry	1		01/19/06 13:31
Vinyl chloride	ND	6.2	0.10	µg/Kg-dry	1		01/19/06 13:31
Xylenes (total)	ND	6.2	0.22	µg/Kg-dry	1		01/19/06 13:31
Surr: 1,2-Dichloroethane-d4	90.4	71-128	0.16	%REC	1		01/19/06 13:31
Surr: 4-Bromofluorobenzene	49.2 S	59-125	0.11	%REC	1		01/19/06 13:31
Surr: Dibromofluoromethane	118	40-156	0.22	%REC	1		01/19/06 13:31
Surr: Toluene-d8	65.4 S	75-125	0.15	%REC	1		01/19/06 13:31

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 19.8

Revision: 01/20/06 9:58:21 A

TestCode: 8260S TAGML

Lab ID: 0601049-011A

Client Sample ID: BH-25-D

Collection Date: 01/11/06 12:20

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8221.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.1	0.14	µg/Kg-dry	1	01/16/06 17:55	
1,1,1-Trichloroethane	ND	3.1	0.12	µg/Kg-dry	1	01/16/06 17:55	
1,1,2,2-Tetrachloroethane	ND	3.1	0.20	µg/Kg-dry	1	01/16/06 17:55	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.1	0.12	µg/Kg-dry	1	01/16/06 17:55	
1,1,2-Trichloroethane	ND	3.1	0.14	µg/Kg-dry	1	01/16/06 17:55	
1,1-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1	01/16/06 17:55	
1,1-Dichloroethene	ND	3.1	0.17	µg/Kg-dry	1	01/16/06 17:55	
1,1-Dichloropropene	ND	3.1	0.12	µg/Kg-dry	1	01/16/06 17:55	
1,2,3-Trichlorobenzene	ND	6.2	0.62	µg/Kg-dry	1	01/16/06 17:55	
1,2,3-Trichloropropane	ND	3.1	0.21	µg/Kg-dry	1	01/16/06 17:55	
1,2,4-Trichlorobenzene	ND	6.2	0.42	µg/Kg-dry	1	01/16/06 17:55	
1,2,4-Trimethylbenzene	ND	3.1	0.14	µg/Kg-dry	1	01/16/06 17:55	
1,2-Dibromo-3-chloropropane	ND	6.2	0.50	µg/Kg-dry	1	01/16/06 17:55	
1,2-Dibromoethane	ND	3.1	0.11	µg/Kg-dry	1	01/16/06 17:55	
1,2-Dichlorobenzene	ND	3.1	0.11	µg/Kg-dry	1	01/16/06 17:55	
1,2-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1	01/16/06 17:55	
1,2-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1	01/16/06 17:55	
1,3,5-Trimethylbenzene	ND	3.1	0.11	µg/Kg-dry	1	01/16/06 17:55	
1,3-Dichlorobenzene	ND	3.1	0.12	µg/Kg-dry	1	01/16/06 17:55	
1,3-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1	01/16/06 17:55	
1,4-Dichlorobenzene	ND	3.1	0.16	µg/Kg-dry	1	01/16/06 17:55	
2,2-Dichloropropane	ND	3.1	0.11	µg/Kg-dry	1	01/16/06 17:55	
2-Butanone	ND	12	0.17	µg/Kg-dry	1	01/16/06 17:55	
2-Chlorotoluene	ND	3.1	0.09	µg/Kg-dry	1	01/16/06 17:55	
2-Hexanone	ND	6.2	0.27	µg/Kg-dry	1	01/16/06 17:55	
4-Chlorotoluene	ND	3.1	0.20	µg/Kg-dry	1	01/16/06 17:55	
4-Methyl-2-pentanone	ND	6.2	0.30	µg/Kg-dry	1	01/16/06 17:55	
Acetone	3.5 J	12	0.49	µg/Kg-dry	1	01/16/06 17:55	
Benzene	ND	3.1	0.11	µg/Kg-dry	1	01/16/06 17:55	
Bromobenzene	ND	3.1	0.19	µg/Kg-dry	1	01/16/06 17:55	
Bromochloromethane	ND	3.1	0.20	µg/Kg-dry	1	01/16/06 17:55	
Bromodichloromethane	ND	3.1	0.10	µg/Kg-dry	1	01/16/06 17:55	
Bromoform	ND	3.1	0.07	µg/Kg-dry	1	01/16/06 17:55	
Bromomethane	ND	6.2	0.37	µg/Kg-dry	1	01/16/06 17:55	

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03.10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 5 g

%Moisture: 19.8

TestCode: 8260S TAGML

Lab ID: 0601049-011A

Client Sample ID: BH-25-D

Collection Date: 01/11/06 12:20

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8221.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		3.1	0.07	µg/Kg-dry	1	01/16/06 17:55
Carbon tetrachloride	ND		3.1	0.14	µg/Kg-dry	1	01/16/06 17:55
Chlorobenzene	ND		3.1	0.11	µg/Kg-dry	1	01/16/06 17:55
Chloroethane	ND		6.2	0.36	µg/Kg-dry	1	01/16/06 17:55
Chloroform	ND		3.1	0.05	µg/Kg-dry	1	01/16/06 17:55
Chloromethane	ND		6.2	0.47	µg/Kg-dry	1	01/16/06 17:55
cis-1,2-Dichloroethene	ND		3.1	0.14	µg/Kg-dry	1	01/16/06 17:55
cis-1,3-Dichloropropene	ND		3.1	0.11	µg/Kg-dry	1	01/16/06 17:55
Dibromochloromethane	ND		3.1	0.16	µg/Kg-dry	1	01/16/06 17:55
Dibromomethane	ND		3.1	0.14	µg/Kg-dry	1	01/16/06 17:55
Dichlorodifluoromethane	ND		6.2	0.10	µg/Kg-dry	1	01/16/06 17:55
Ethylbenzene	ND		3.1	0.12	µg/Kg-dry	1	01/16/06 17:55
Hexachlorobutadiene	ND		6.2	0.49	µg/Kg-dry	1	01/16/06 17:55
Isopropylbenzene	ND		3.1	0.10	µg/Kg-dry	1	01/16/06 17:55
Methyl tert-butyl ether	ND		3.1	0.09	µg/Kg-dry	1	01/16/06 17:55
Methylene chloride	0.80 J		6.2	0.50	µg/Kg-dry	1	01/16/06 17:55
n-Butylbenzene	ND		3.1	0.15	µg/Kg-dry	1	01/16/06 17:55
n-Propylbenzene	ND		3.1	0.11	µg/Kg-dry	1	01/16/06 17:55
Naphthalene	ND		6.2	0.46	µg/Kg-dry	1	01/16/06 17:55
p-Isopropyltoluene	ND		3.1	0.11	µg/Kg-dry	1	01/16/06 17:55
sec-Butylbenzene	ND		3.1	0.16	µg/Kg-dry	1	01/16/06 17:55
Styrene	ND		3.1	0.12	µg/Kg-dry	1	01/16/06 17:55
tert-Butylbenzene	ND		3.1	0.16	µg/Kg-dry	1	01/16/06 17:55
Tetrachloroethene	ND		3.1	0.17	µg/Kg-dry	1	01/16/06 17:55
Toluene	ND		3.1	0.15	µg/Kg-dry	1	01/16/06 17:55
trans-1,2-Dichloroethene	ND		3.1	0.12	µg/Kg-dry	1	01/16/06 17:55
trans-1,3-Dichloropropene	ND		3.1	0.11	µg/Kg-dry	1	01/16/06 17:55
Trichloroethene	ND		3.1	0.14	µg/Kg-dry	1	01/16/06 17:55
Trichlorofluoromethane	ND		6.2	0.10	µg/Kg-dry	1	01/16/06 17:55
Vinyl chloride	ND		6.2	0.10	µg/Kg-dry	1	01/16/06 17:55
Xylenes (total)	ND		6.2	0.22	µg/Kg-dry	1	01/16/06 17:55
Surr: 1,2-Dichloroethane-d4	87.2		71-128	0.16	%REC	1	01/16/06 17:55
Surr: 4-Bromofluorobenzene	71.3		59-125	0.11	%REC	1	01/16/06 17:55
Surr: Dibromofluoromethane	103		40-156	0.22	%REC	1	01/16/06 17:55
Surr: Toluene-d8	87.6		75-125	0.15	%REC	1	01/16/06 17:55

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 4.98 g

ColumnID: Rtx-VMS

%Moisture: 12.7

Revision: 01/20/06 9:58:21 A

TestCode: 8260S TAGML

Lab ID: 0601049-012A

Client Sample ID: BH-26-S

Collection Date: 01/11/06 12:35

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8222.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/16/06 18:30
1,1,1-Trichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 18:30
1,1,2,2-Tetrachloroethane	ND	2.9	0.18	µg/Kg-dry	1		01/16/06 18:30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 18:30
1,1,2-Trichloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/16/06 18:30
1,1-Dichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 18:30
1,1-Dichloroethene	ND	2.9	0.16	µg/Kg-dry	1		01/16/06 18:30
1,1-Dichloropropene	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 18:30
1,2,3-Trichlorobenzene	ND	5.7	0.57	µg/Kg-dry	1		01/16/06 18:30
1,2,3-Trichloropropane	ND	2.9	0.19	µg/Kg-dry	1		01/16/06 18:30
1,2,4-Trichlorobenzene	ND	5.7	0.39	µg/Kg-dry	1		01/16/06 18:30
1,2,4-Trimethylbenzene	ND	2.9	0.13	µg/Kg-dry	1		01/16/06 18:30
1,2-Dibromo-3-chloropropane	ND	5.7	0.46	µg/Kg-dry	1		01/16/06 18:30
1,2-Dibromoethane	ND	2.9	0.10	µg/Kg-dry	1		01/16/06 18:30
1,2-Dichlorobenzene	ND	2.9	0.10	µg/Kg-dry	1		01/16/06 18:30
1,2-Dichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 18:30
1,2-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/16/06 18:30
1,3,5-Trimethylbenzene	ND	2.9	0.10	µg/Kg-dry	1		01/16/06 18:30
1,3-Dichlorobenzene	ND	2.9	0.11	µg/Kg-dry	1		01/16/06 18:30
1,3-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/16/06 18:30
1,4-Dichlorobenzene	ND	2.9	0.15	µg/Kg-dry	1		01/16/06 18:30
2,2-Dichloropropane	ND	2.9	0.10	µg/Kg-dry	1		01/16/06 18:30
2-Butanone	ND	11	0.16	µg/Kg-dry	1		01/16/06 18:30
2-Chlorotoluene	ND	2.9	0.08	µg/Kg-dry	1		01/16/06 18:30
2-Hexanone	ND	5.7	0.25	µg/Kg-dry	1		01/16/06 18:30
4-Chlorotoluene	ND	2.9	0.18	µg/Kg-dry	1		01/16/06 18:30
4-Methyl-2-pentanone	ND	5.7	0.27	µg/Kg-dry	1		01/16/06 18:30
Acetone	1.4 J	11	0.45	µg/Kg-dry	1		01/16/06 18:30
Benzene	ND	2.9	0.10	µg/Kg-dry	1		01/16/06 18:30
Bromobenzene	ND	2.9	0.17	µg/Kg-dry	1		01/16/06 18:30
Bromochloromethane	ND	2.9	0.18	µg/Kg-dry	1		01/16/06 18:30
Bromodichloromethane	ND	2.9	0.09	µg/Kg-dry	1		01/16/06 18:30
Bromofom	ND	2.9	0.07	µg/Kg-dry	1		01/16/06 18:30
Bromomethane	ND	5.7	0.34	µg/Kg-dry	1		01/16/06 18:30

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim/Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



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StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

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W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 4.98 g

%Moisture: 12.7

TestCode: 8260S TAGML

Lab ID: 0601049-012A

Client Sample ID: BH-26-S

Collection Date: 01/11/06 12:35

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8222.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	0.73	J	2.9	0.07	µg/Kg-dry	1	01/16/06 18:30
Carbon tetrachloride	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 18:30
Chlorobenzene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 18:30
Chloroethane	ND		5.7	0.33	µg/Kg-dry	1	01/16/06 18:30
Chloroform	ND		2.9	0.05	µg/Kg-dry	1	01/16/06 18:30
Chloromethane	ND		5.7	0.44	µg/Kg-dry	1	01/16/06 18:30
cis-1,2-Dichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 18:30
cis-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 18:30
Dibromochloromethane	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 18:30
Dibromomethane	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 18:30
Dichlorodifluoromethane	ND		5.7	0.09	µg/Kg-dry	1	01/16/06 18:30
Ethylbenzene	ND		2.9	0.11	µg/Kg-dry	1	01/16/06 18:30
Hexachlorobutadiene	ND		5.7	0.45	µg/Kg-dry	1	01/16/06 18:30
Isopropylbenzene	ND		2.9	0.09	µg/Kg-dry	1	01/16/06 18:30
Methyl tert-butyl ether	ND		2.9	0.08	µg/Kg-dry	1	01/16/06 18:30
Methylene chloride	0.62	J	5.7	0.46	µg/Kg-dry	1	01/16/06 18:30
n-Butylbenzene	ND		2.9	0.14	µg/Kg-dry	1	01/16/06 18:30
n-Propylbenzene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 18:30
Naphthalene	ND		5.7	0.42	µg/Kg-dry	1	01/16/06 18:30
p-Isopropyltoluene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 18:30
sec-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 18:30
Styrene	ND		2.9	0.11	µg/Kg-dry	1	01/16/06 18:30
tert-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/16/06 18:30
Tetrachloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/16/06 18:30
Toluene	0.61	J	2.9	0.14	µg/Kg-dry	1	01/16/06 18:30
trans-1,2-Dichloroethene	ND		2.9	0.11	µg/Kg-dry	1	01/16/06 18:30
trans-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/16/06 18:30
Trichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/16/06 18:30
Trichlorofluoromethane	ND		5.7	0.09	µg/Kg-dry	1	01/16/06 18:30
Vinyl chloride	ND		5.7	0.09	µg/Kg-dry	1	01/16/06 18:30
Xylenes (total)	ND		5.7	0.21	µg/Kg-dry	1	01/16/06 18:30
Sum: 1,2-Dichloroethane-d4	67.1		71-128	0.15	%REC	1	01/16/06 18:30
Sum: 4-Bromofluorobenzene	70.6		59-125	0.10	%REC	1	01/16/06 18:30
Sum: Dibromofluoromethane	98.4		40-156	0.21	%REC	1	01/16/06 18:30
Sum: Toluene-d8	94.2		75-125	0.14	%REC	1	01/16/06 18:30

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 4.99 g

%Moisture: 24.3

TestCode: 8260S TAGML

Lab ID: 0601049-013A

Client Sample ID: BH-27-S

Collection Date: 01/11/06 13:40

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8223.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.3	0.15	µg/Kg-dry	1		01/16/06 19:05
1,1,1-Trichloroethane	ND	3.3	0.13	µg/Kg-dry	1		01/16/06 19:05
1,1,2,2-Tetrachloroethane	ND	3.3	0.21	µg/Kg-dry	1		01/16/06 19:05
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.3	0.13	µg/Kg-dry	1		01/16/06 19:05
1,1,2-Trichloroethane	ND	3.3	0.15	µg/Kg-dry	1		01/16/06 19:05
1,1-Dichloroethane	ND	3.3	0.13	µg/Kg-dry	1		01/16/06 19:05
1,1-Dichloroethene	ND	3.3	0.19	µg/Kg-dry	1		01/16/06 19:05
1,1-Dichloropropene	ND	3.3	0.13	µg/Kg-dry	1		01/16/06 19:05
1,2,3-Trichlorobenzene	ND	6.6	0.66	µg/Kg-dry	1		01/16/06 19:05
1,2,3-Trichloropropane	ND	3.3	0.22	µg/Kg-dry	1		01/16/06 19:05
1,2,4-Trichlorobenzene	ND	6.6	0.45	µg/Kg-dry	1		01/16/06 19:05
1,2,4-Trimethylbenzene	ND	3.3	0.15	µg/Kg-dry	1		01/16/06 19:05
1,2-Dibromo-3-chloropropane	ND	6.6	0.53	µg/Kg-dry	1		01/16/06 19:05
1,2-Dibromoethane	ND	3.3	0.12	µg/Kg-dry	1		01/16/06 19:05
1,2-Dichlorobenzene	ND	3.3	0.12	µg/Kg-dry	1		01/16/06 19:05
1,2-Dichloroethane	ND	3.3	0.13	µg/Kg-dry	1		01/16/06 19:05
1,2-Dichloropropane	ND	3.3	0.11	µg/Kg-dry	1		01/16/06 19:05
1,3,5-Trimethylbenzene	ND	3.3	0.12	µg/Kg-dry	1		01/16/06 19:05
1,3-Dichlorobenzene	ND	3.3	0.13	µg/Kg-dry	1		01/16/06 19:05
1,3-Dichloropropane	ND	3.3	0.11	µg/Kg-dry	1		01/16/06 19:05
1,4-Dichlorobenzene	ND	3.3	0.17	µg/Kg-dry	1		01/16/06 19:05
2,2-Dichloropropane	ND	3.3	0.12	µg/Kg-dry	1		01/16/06 19:05
2-Butanone	ND	13	0.19	µg/Kg-dry	1		01/16/06 19:05
2-Chlorotoluene	ND	3.3	0.09	µg/Kg-dry	1		01/16/06 19:05
2-Hexanone	ND	6.6	0.29	µg/Kg-dry	1		01/16/06 19:05
4-Chlorotoluene	ND	3.3	0.21	µg/Kg-dry	1		01/16/06 19:05
4-Methyl-2-pentanone	ND	6.6	0.32	µg/Kg-dry	1		01/16/06 19:05
Acetone	2.3 J	13	0.52	µg/Kg-dry	1		01/16/06 19:05
Benzene	ND	3.3	0.12	µg/Kg-dry	1		01/16/06 19:05
Bromobenzene	ND	3.3	0.20	µg/Kg-dry	1		01/16/06 19:05
Bromochloromethane	ND	3.3	0.21	µg/Kg-dry	1		01/16/06 19:05
Bromodichloromethane	ND	3.3	0.11	µg/Kg-dry	1		01/16/06 19:05
Bromoform	ND	3.3	0.08	µg/Kg-dry	1		01/16/06 19:05
Bromomethane	ND	6.6	0.40	µg/Kg-dry	1		01/16/06 19:05

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 4.99 g

%Moisture: 24.3

TestCode: 8260S TAGML

Lab ID: 0601049-013A

Client Sample ID: BH-27-S

Collection Date: 01/11/06 13:40

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8223.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	3.3	0.08	µg/Kg-dry	1		01/16/06 19:05
Carbon tetrachloride	ND	3.3	0.15	µg/Kg-dry	1		01/16/06 19:05
Chlorobenzene	ND	3.3	0.12	µg/Kg-dry	1		01/16/06 19:05
Chloroethane	ND	6.6	0.38	µg/Kg-dry	1		01/16/06 19:05
Chloroform	ND	3.3	0.05	µg/Kg-dry	1		01/16/06 19:05
Chloromethane	ND	6.6	0.50	µg/Kg-dry	1		01/16/06 19:05
cis-1,2-Dichloroethene	ND	3.3	0.15	µg/Kg-dry	1		01/16/06 19:05
cis-1,3-Dichloropropene	ND	3.3	0.12	µg/Kg-dry	1		01/16/06 19:05
Dibromochloromethane	ND	3.3	0.17	µg/Kg-dry	1		01/16/06 19:05
Dibromomethane	ND	3.3	0.15	µg/Kg-dry	1		01/16/06 19:05
Dichlorodifluoromethane	ND	6.6	0.11	µg/Kg-dry	1		01/16/06 19:05
Ethylbenzene	ND	3.3	0.13	µg/Kg-dry	1		01/16/06 19:05
Hexachlorobutadiene	ND	6.6	0.52	µg/Kg-dry	1		01/16/06 19:05
Isopropylbenzene	ND	3.3	0.11	µg/Kg-dry	1		01/16/06 19:05
Methyl tert-butyl ether	ND	3.3	0.09	µg/Kg-dry	1		01/16/06 19:05
Methylene chloride	ND	6.6	0.53	µg/Kg-dry	1		01/16/06 19:05
n-Butylbenzene	ND	3.3	0.16	µg/Kg-dry	1		01/16/06 19:05
n-Propylbenzene	ND	3.3	0.12	µg/Kg-dry	1		01/16/06 19:05
Naphthalene	ND	6.6	0.49	µg/Kg-dry	1		01/16/06 19:05
p-Isopropyltoluene	ND	3.3	0.12	µg/Kg-dry	1		01/16/06 19:05
sec-Butylbenzene	ND	3.3	0.17	µg/Kg-dry	1		01/16/06 19:05
Styrene	ND	3.3	0.13	µg/Kg-dry	1		01/16/06 19:05
tert-Butylbenzene	ND	3.3	0.17	µg/Kg-dry	1		01/16/06 19:05
Tetrachloroethene	ND	3.3	0.19	µg/Kg-dry	1		01/16/06 19:05
Toluene	ND	3.3	0.16	µg/Kg-dry	1		01/16/06 19:05
trans-1,2-Dichloroethene	ND	3.3	0.13	µg/Kg-dry	1		01/16/06 19:05
trans-1,3-Dichloropropene	ND	3.3	0.12	µg/Kg-dry	1		01/16/06 19:05
Trichloroethene	ND	3.3	0.15	µg/Kg-dry	1		01/16/06 19:05
Trichlorofluoromethane	ND	6.6	0.11	µg/Kg-dry	1		01/16/06 19:05
Vinyl chloride	ND	6.6	0.11	µg/Kg-dry	1		01/16/06 19:05
Xylenes (total)	ND	6.6	0.24	µg/Kg-dry	1		01/16/06 19:05
Surr. 1,2-Dichloroethane-d4	87.7	71-128	0.17	%REC	1		01/16/06 19:05
Surr. 4-Bromofluorobenzene	67.2	59-125	0.12	%REC	1		01/16/06 19:05
Surr. Dibromofluoromethane	101	40-158	0.24	%REC	1		01/16/06 19:05
Surr. Toluene-d8	89.9	75-125	0.16	%REC	1		01/16/06 19:05

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

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Sample Size: 4.98 g

%Moisture: 20.7

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Client Sample ID: BH-27-D

Collection Date: 01/11/06 13:55

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8224.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.2	0.14	µg/Kg-dry	1		01/16/06 19:40
1,1,1-Trichloroethane	ND	3.2	0.13	µg/Kg-dry	1		01/16/06 19:40
1,1,2,2-Tetrachloroethane	ND	3.2	0.20	µg/Kg-dry	1		01/16/06 19:40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.2	0.13	µg/Kg-dry	1		01/16/06 19:40
1,1,2-Trichloroethane	ND	3.2	0.14	µg/Kg-dry	1		01/16/06 19:40
1,1-Dichloroethane	ND	3.2	0.13	µg/Kg-dry	1		01/16/06 19:40
1,1-Dichloroethene	ND	3.2	0.18	µg/Kg-dry	1		01/16/06 19:40
1,1-Dichloropropene	ND	3.2	0.13	µg/Kg-dry	1		01/16/06 19:40
1,2,3-Trichlorobenzene	ND	6.3	0.63	µg/Kg-dry	1		01/16/06 19:40
1,2,3-Trichloropropane	ND	3.2	0.21	µg/Kg-dry	1		01/16/06 19:40
1,2,4-Trichlorobenzene	ND	6.3	0.43	µg/Kg-dry	1		01/16/06 19:40
1,2,4-Trimethylbenzene	ND	3.2	0.14	µg/Kg-dry	1		01/16/06 19:40
1,2-Dibromo-3-chloropropane	ND	6.3	0.50	µg/Kg-dry	1		01/16/06 19:40
1,2-Dibromoethane	ND	3.2	0.11	µg/Kg-dry	1		01/16/06 19:40
1,2-Dichlorobenzene	ND	3.2	0.11	µg/Kg-dry	1		01/16/06 19:40
1,2-Dichloroethane	ND	3.2	0.13	µg/Kg-dry	1		01/16/06 19:40
1,2-Dichloropropane	ND	3.2	0.10	µg/Kg-dry	1		01/16/06 19:40
1,3,5-Trimethylbenzene	ND	3.2	0.11	µg/Kg-dry	1		01/16/06 19:40
1,3-Dichlorobenzene	ND	3.2	0.13	µg/Kg-dry	1		01/16/06 19:40
1,3-Dichloropropane	ND	3.2	0.10	µg/Kg-dry	1		01/16/06 19:40
1,4-Dichlorobenzene	ND	3.2	0.16	µg/Kg-dry	1		01/16/06 19:40
2,2-Dichloropropane	ND	3.2	0.11	µg/Kg-dry	1		01/16/06 19:40
2-Butanone	ND	13	0.18	µg/Kg-dry	1		01/16/06 19:40
2-Chlorotoluene	ND	3.2	0.09	µg/Kg-dry	1		01/16/06 19:40
2-Hexanone	ND	6.3	0.28	µg/Kg-dry	1		01/16/06 19:40
4-Chlorotoluene	ND	3.2	0.20	µg/Kg-dry	1		01/16/06 19:40
4-Methyl-2-pentanone	ND	6.3	0.30	µg/Kg-dry	1		01/16/06 19:40
Acetone	2.1 J	13	0.49	µg/Kg-dry	1		01/16/06 19:40
Benzene	ND	3.2	0.11	µg/Kg-dry	1		01/16/06 19:40
Bromobenzene	ND	3.2	0.19	µg/Kg-dry	1		01/16/06 19:40
Bromochloromethane	ND	3.2	0.20	µg/Kg-dry	1		01/16/06 19:40
Bromodichloromethane	ND	3.2	0.10	µg/Kg-dry	1		01/16/06 19:40
Bromoform	ND	3.2	0.08	µg/Kg-dry	1		01/16/06 19:40
Bromomethane	ND	6.3	0.38	µg/Kg-dry	1		01/16/06 19:40

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:21 A

Sample Size: 4.98 g

%Moisture: 20.7

TestCode: 8260S TAGML

Lab ID: 0601049-014A

Client Sample ID: BH-27-D

Collection Date: 01/11/06 13:55

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4188

FileID: 1-SAMP-J8224.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	3.2	0.08	µg/Kg-dry	1		01/16/06 19:40
Carbon tetrachloride	ND	3.2	0.14	µg/Kg-dry	1		01/16/06 19:40
Chlorobenzene	ND	3.2	0.11	µg/Kg-dry	1		01/16/06 19:40
Chloroethane	ND	6.3	0.37	µg/Kg-dry	1		01/16/06 19:40
Chloroform	ND	3.2	0.05	µg/Kg-dry	1		01/16/06 19:40
Chloromethane	ND	6.3	0.48	µg/Kg-dry	1		01/16/06 19:40
cis-1,2-Dichloroethene	ND	3.2	0.14	µg/Kg-dry	1		01/16/06 19:40
cis-1,3-Dichloropropene	ND	3.2	0.11	µg/Kg-dry	1		01/16/06 19:40
Dibromochloromethane	ND	3.2	0.16	µg/Kg-dry	1		01/16/06 19:40
Dibromomethane	ND	3.2	0.14	µg/Kg-dry	1		01/16/06 19:40
Dichlorodifluoromethane	ND	6.3	0.10	µg/Kg-dry	1		01/16/06 19:40
Ethylbenzene	ND	3.2	0.13	µg/Kg-dry	1		01/16/06 19:40
Hexachlorobutadiene	ND	6.3	0.49	µg/Kg-dry	1		01/16/06 19:40
Isopropylbenzene	ND	3.2	0.10	µg/Kg-dry	1		01/16/06 19:40
Methyl tert-butyl ether	ND	3.2	0.09	µg/Kg-dry	1		01/16/06 19:40
Methylene chloride	0.79 J	6.3	0.50	µg/Kg-dry	1		01/16/06 19:40
n-Butylbenzene	ND	3.2	0.15	µg/Kg-dry	1		01/16/06 19:40
n-Propylbenzene	ND	3.2	0.11	µg/Kg-dry	1		01/16/06 19:40
Naphthalene	ND	6.3	0.47	µg/Kg-dry	1		01/16/06 19:40
p-Isopropyltoluene	ND	3.2	0.11	µg/Kg-dry	1		01/16/06 19:40
sec-Butylbenzene	ND	3.2	0.16	µg/Kg-dry	1		01/16/06 19:40
Styrene	ND	3.2	0.13	µg/Kg-dry	1		01/16/06 19:40
tert-Butylbenzene	ND	3.2	0.16	µg/Kg-dry	1		01/16/06 19:40
Tetrachloroethene	ND	3.2	0.18	µg/Kg-dry	1		01/16/06 19:40
Toluene	ND	3.2	0.15	µg/Kg-dry	1		01/16/06 19:40
trans-1,2-Dichloroethene	ND	3.2	0.13	µg/Kg-dry	1		01/16/06 19:40
trans-1,3-Dichloropropene	ND	3.2	0.11	µg/Kg-dry	1		01/16/06 19:40
Trichloroethene	ND	3.2	0.14	µg/Kg-dry	1		01/16/06 19:40
Trichlorofluoromethane	ND	6.3	0.10	µg/Kg-dry	1		01/16/06 19:40
Vinyl chloride	ND	6.3	0.10	µg/Kg-dry	1		01/16/06 19:40
Xylenes (total)	ND	6.3	0.23	µg/Kg-dry	1		01/16/06 19:40
Surr: 1,2-Dichloroethane-d4	85.6	71-128	0.16	%REC	1		01/16/06 19:40
Surr: 4-Bromofluorobenzene	75.4	59-125	0.11	%REC	1		01/16/06 19:40
Surr: Dibromofluoromethane	96.6	40-156	0.23	%REC	1		01/16/06 19:40
Surr: Toluene-d8	93.3	75-125	0.15	%REC	1		01/16/06 19:40

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 10:08:39 A

Sample Size: 5.01 g

%Moisture: 12.3

TestCode: 8260S TAGML

Lab ID: 0601049-015A

Client Sample ID: BH-28-S

Collection Date: 01/11/06 15:10

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8233.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/17/06 12:28
1,1,1-Trichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 12:28
1,1,2,2-Tetrachloroethane	ND	2.9	0.18	µg/Kg-dry	1		01/17/06 12:28
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 12:28
1,1,2-Trichloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/17/06 12:28
1,1-Dichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 12:28
1,1-Dichloroethene	ND	2.9	0.16	µg/Kg-dry	1		01/17/06 12:28
1,1-Dichloropropene	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 12:28
1,2,3-Trichlorobenzene	ND	5.7	0.57	µg/Kg-dry	1		01/17/06 12:28
1,2,3-Trichloropropane	ND	2.9	0.19	µg/Kg-dry	1		01/17/06 12:28
1,2,4-Trichlorobenzene	ND	5.7	0.39	µg/Kg-dry	1		01/17/06 12:28
1,2,4-Trimethylbenzene	ND	2.9	0.13	µg/Kg-dry	1		01/17/06 12:28
1,2-Dibromo-3-chloropropane	ND	5.7	0.46	µg/Kg-dry	1		01/17/06 12:28
1,2-Dibromoethane	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 12:28
1,2-Dichlorobenzene	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 12:28
1,2-Dichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 12:28
1,2-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/17/06 12:28
1,3,5-Trimethylbenzene	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 12:28
1,3-Dichlorobenzene	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 12:28
1,3-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/17/06 12:28
1,4-Dichlorobenzene	ND	2.9	0.15	µg/Kg-dry	1		01/17/06 12:28
2,2-Dichloropropane	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 12:28
2-Butanone	ND	11	0.16	µg/Kg-dry	1		01/17/06 12:28
2-Chlorotoluene	ND	2.9	0.08	µg/Kg-dry	1		01/17/06 12:28
2-Hexanone	ND	5.7	0.25	µg/Kg-dry	1		01/17/06 12:28
4-Chlorotoluene	ND	2.9	0.18	µg/Kg-dry	1		01/17/06 12:28
4-Methyl-2-pentanone	ND	5.7	0.27	µg/Kg-dry	1		01/17/06 12:28
Acetone	3.0 J	11	0.44	µg/Kg-dry	1		01/17/06 12:28
Benzene	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 12:28
Bromobenzene	ND	2.9	0.17	µg/Kg-dry	1		01/17/06 12:28
Bromochloromethane	ND	2.9	0.18	µg/Kg-dry	1		01/17/06 12:28
Bromodichloromethane	ND	2.9	0.09	µg/Kg-dry	1		01/17/06 12:28
Bromoform	ND	2.9	0.07	µg/Kg-dry	1		01/17/06 12:28
Bromomethane	ND	5.7	0.34	µg/Kg-dry	1		01/17/06 12:28

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 10:08:39 A

Sample Size: 5.01 g

%Moisture: 12.3

TestCode: 8260S TAGML

Lab ID: 0601049-015A

Client Sample ID: BH-28-S

Collection Date: 01/11/06 15:10

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8233.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		2.9	0.07	µg/Kg-dry	1	01/17/06 12:28
Carbon tetrachloride	ND		2.9	0.13	µg/Kg-dry	1	01/17/06 12:28
Chlorobenzene	ND		2.9	0.10	µg/Kg-dry	1	01/17/06 12:28
Chloroethane	ND		5.7	0.33	µg/Kg-dry	1	01/17/06 12:28
Chloroform	ND		2.9	0.05	µg/Kg-dry	1	01/17/06 12:28
Chloromethane	ND		5.7	0.43	µg/Kg-dry	1	01/17/06 12:28
cis-1,2-Dichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/17/06 12:28
cis-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/17/06 12:28
Dibromochloromethane	ND		2.9	0.15	µg/Kg-dry	1	01/17/06 12:28
Dibromomethane	ND		2.9	0.13	µg/Kg-dry	1	01/17/06 12:28
Dichlorodifluoromethane	ND		5.7	0.09	µg/Kg-dry	1	01/17/06 12:28
Ethylbenzene	ND		2.9	0.11	µg/Kg-dry	1	01/17/06 12:28
Hexachlorobutadiene	ND		5.7	0.44	µg/Kg-dry	1	01/17/06 12:28
Isopropylbenzene	ND		2.9	0.09	µg/Kg-dry	1	01/17/06 12:28
Methyl tert-butyl ether	ND		2.9	0.08	µg/Kg-dry	1	01/17/06 12:28
Methylene chloride	0.81 J		5.7	0.46	µg/Kg-dry	1	01/17/06 12:28
n-Butylbenzene	ND		2.9	0.14	µg/Kg-dry	1	01/17/06 12:28
n-Propylbenzene	ND		2.9	0.10	µg/Kg-dry	1	01/17/06 12:28
Naphthalene	ND		5.7	0.42	µg/Kg-dry	1	01/17/06 12:28
p-Isopropyltoluene	ND		2.9	0.10	µg/Kg-dry	1	01/17/06 12:28
sec-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/17/06 12:28
Styrene	ND		2.9	0.11	µg/Kg-dry	1	01/17/06 12:28
tert-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/17/06 12:28
Tetrachloroethene	0.57 J		2.9	0.16	µg/Kg-dry	1	01/17/06 12:28
Toluene	ND		2.9	0.14	µg/Kg-dry	1	01/17/06 12:28
trans-1,2-Dichloroethene	ND		2.9	0.11	µg/Kg-dry	1	01/17/06 12:28
trans-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/17/06 12:28
Trichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/17/06 12:28
Trichlorofluoromethane	1.2 J		5.7	0.09	µg/Kg-dry	1	01/17/06 12:28
Vinyl chloride	ND		5.7	0.09	µg/Kg-dry	1	01/17/06 12:28
Xylenes (total)	ND		5.7	0.21	µg/Kg-dry	1	01/17/06 12:28
Surr. 1,2-Dichloroethane-d4	91.7		71-128	0.15	%REC	1	01/17/06 12:28
Surr. 4-Bromofluorobenzene	57.1 S		59-125	0.10	%REC	1	01/17/06 12:28
Surr. Dibromofluoromethane	107		40-156	0.21	%REC	1	01/17/06 12:28
Surr. Toluene-d8	76.7		75-125	0.14	%REC	1	01/17/06 12:28

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:03 A

Sample Size: 4.99 g

%Moisture: 12.3

TestCode: 8260S TAGML

Lab ID: 0601049-015A

Client Sample ID: BH-28-S

Collection Date: 01/11/06 15:10

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4263

FileID: 1-RA-J8275.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/19/06 14:06
1,1,1-Trichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/19/06 14:06
1,1,2,2-Tetrachloroethane	ND	2.9	0.18	µg/Kg-dry	1		01/19/06 14:06
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.9	0.11	µg/Kg-dry	1		01/19/06 14:06
1,1,2-Trichloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/19/06 14:06
1,1-Dichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/19/06 14:06
1,1-Dichloroethene	ND	2.9	0.16	µg/Kg-dry	1		01/19/06 14:06
1,1-Dichloropropene	ND	2.9	0.11	µg/Kg-dry	1		01/19/06 14:06
1,2,3-Trichlorobenzene	ND	5.7	0.57	µg/Kg-dry	1		01/19/06 14:06
1,2,3-Trichloropropane	ND	2.9	0.19	µg/Kg-dry	1		01/19/06 14:06
1,2,4-Trichlorobenzene	ND	5.7	0.39	µg/Kg-dry	1		01/19/06 14:06
1,2,4-Trimethylbenzene	ND	2.9	0.13	µg/Kg-dry	1		01/19/06 14:06
1,2-Dibromo-3-chloropropane	ND	5.7	0.46	µg/Kg-dry	1		01/19/06 14:06
1,2-Dibromoethane	ND	2.9	0.10	µg/Kg-dry	1		01/19/06 14:06
1,2-Dichlorobenzene	ND	2.9	0.10	µg/Kg-dry	1		01/19/06 14:06
1,2-Dichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/19/06 14:06
1,2-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/19/06 14:06
1,3,5-Trimethylbenzene	ND	2.9	0.10	µg/Kg-dry	1		01/19/06 14:06
1,3-Dichlorobenzene	ND	2.9	0.11	µg/Kg-dry	1		01/19/06 14:06
1,3-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/19/06 14:06
1,4-Dichlorobenzene	ND	2.9	0.15	µg/Kg-dry	1		01/19/06 14:06
2,2-Dichloropropane	ND	2.9	0.10	µg/Kg-dry	1		01/19/06 14:06
2-Butanone	ND	11	0.16	µg/Kg-dry	1		01/19/06 14:06
2-Chlorotoluene	ND	2.9	0.08	µg/Kg-dry	1		01/19/06 14:06
2-Hexanone	ND	5.7	0.25	µg/Kg-dry	1		01/19/06 14:06
4-Chlorotoluene	ND	2.9	0.18	µg/Kg-dry	1		01/19/06 14:06
4-Methyl-2-pentanone	ND	5.7	0.27	µg/Kg-dry	1		01/19/06 14:06
Acetone	2.4 J	11	0.44	µg/Kg-dry	1		01/19/06 14:06
Benzene	ND	2.9	0.10	µg/Kg-dry	1		01/19/06 14:06
Bromobenzene	ND	2.9	0.17	µg/Kg-dry	1		01/19/06 14:06
Bromochloromethane	ND	2.9	0.18	µg/Kg-dry	1		01/19/06 14:06
Bromodichloromethane	ND	2.9	0.09	µg/Kg-dry	1		01/19/06 14:06
Bromoform	ND	2.9	0.07	µg/Kg-dry	1		01/19/06 14:06
Bromomethane	ND	5.7	0.34	µg/Kg-dry	1		01/19/06 14:06

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:03 A

Sample Size: 4.99 g

%Moisture: 12.3

TestCode: 8260S TAGML

Lab ID: 0601049-015A

Client Sample ID: BH-28-S

Collection Date: 01/11/06 15:10

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4263

FileID: 1-RA-J8275.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	2.9	0.07	µg/Kg-dry	1		01/19/06 14:06
Carbon tetrachloride	ND	2.9	0.13	µg/Kg-dry	1		01/19/06 14:06
Chlorobenzene	ND	2.9	0.10	µg/Kg-dry	1		01/19/06 14:06
Chloroethane	ND	5.7	0.33	µg/Kg-dry	1		01/19/06 14:06
Chloroform	ND	2.9	0.05	µg/Kg-dry	1		01/19/06 14:06
Chloromethane	ND	5.7	0.43	µg/Kg-dry	1		01/19/06 14:06
cis-1,2-Dichloroethene	ND	2.9	0.13	µg/Kg-dry	1		01/19/06 14:06
cis-1,3-Dichloropropene	ND	2.9	0.10	µg/Kg-dry	1		01/19/06 14:06
Dibromochloromethane	ND	2.9	0.15	µg/Kg-dry	1		01/19/06 14:06
Dibromomethane	ND	2.9	0.13	µg/Kg-dry	1		01/19/06 14:06
Dichlorodifluoromethane	ND	5.7	0.09	µg/Kg-dry	1		01/19/06 14:06
Ethylbenzene	ND	2.9	0.11	µg/Kg-dry	1		01/19/06 14:06
Hexachlorobutadiene	ND	5.7	0.44	µg/Kg-dry	1		01/19/06 14:06
Isopropylbenzene	ND	2.9	0.09	µg/Kg-dry	1		01/19/06 14:06
Methyl tert-butyl ether	ND	2.9	0.08	µg/Kg-dry	1		01/19/06 14:06
Methylene chloride	2.6 J	5.7	0.46	µg/Kg-dry	1		01/19/06 14:06
n-Butylbenzene	ND	2.9	0.14	µg/Kg-dry	1		01/19/06 14:06
n-Propylbenzene	ND	2.9	0.10	µg/Kg-dry	1		01/19/06 14:06
Naphthalene	ND	5.7	0.42	µg/Kg-dry	1		01/19/06 14:06
p-Isopropyltoluene	ND	2.9	0.10	µg/Kg-dry	1		01/19/06 14:06
sec-Butylbenzene	ND	2.9	0.15	µg/Kg-dry	1		01/19/06 14:06
Styrene	ND	2.9	0.11	µg/Kg-dry	1		01/19/06 14:06
tert-Butylbenzene	ND	2.9	0.15	µg/Kg-dry	1		01/19/06 14:06
Tetrachloroethene	0.62 J	2.9	0.16	µg/Kg-dry	1		01/19/06 14:06
Toluene	ND	2.9	0.14	µg/Kg-dry	1		01/19/06 14:06
trans-1,2-Dichloroethene	ND	2.9	0.11	µg/Kg-dry	1		01/19/06 14:06
trans-1,3-Dichloropropene	ND	2.9	0.10	µg/Kg-dry	1		01/19/06 14:06
Trichloroethene	ND	2.9	0.13	µg/Kg-dry	1		01/19/06 14:06
Trichlorofluoromethane	1.1 J	5.7	0.09	µg/Kg-dry	1		01/19/06 14:06
Vinyl chloride	ND	5.7	0.09	µg/Kg-dry	1		01/19/06 14:06
Xylenes (total)	ND	5.7	0.21	µg/Kg-dry	1		01/19/06 14:06
Surr: 1,2-Dichloroethane-d4	93.6	71-128	0.15	%REC	1		01/19/06 14:06
Surr: 4-Bromofluorobenzene	54.6 S	59-125	0.10	%REC	1		01/19/06 14:06
Surr: Dibromofluoromethane	109	40-156	0.21	%REC	1		01/19/06 14:06
Surr: Toluene-d8	75.0 S	75-125	0.14	%REC	1		01/19/06 14:06

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 10:08:39 A

Sample Size: 4.98 g

%Moisture: 19.6

TestCode: 8260S TAGML

Lab ID: 0601049-016A

Client Sample ID: BH-28-D

Collection Date: 01/11/06 15:20

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8234.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 13:03
1,1,1-Trichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 13:03
1,1,2,2-Tetrachloroethane	ND	3.1	0.20	µg/Kg-dry	1		01/17/06 13:03
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 13:03
1,1,2-Trichloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 13:03
1,1-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 13:03
1,1-Dichloroethene	ND	3.1	0.17	µg/Kg-dry	1		01/17/06 13:03
1,1-Dichloropropene	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 13:03
1,2,3-Trichlorobenzene	ND	6.2	0.62	µg/Kg-dry	1		01/17/06 13:03
1,2,3-Trichloropropane	ND	3.1	0.21	µg/Kg-dry	1		01/17/06 13:03
1,2,4-Trichlorobenzene	ND	6.2	0.42	µg/Kg-dry	1		01/17/06 13:03
1,2,4-Trimethylbenzene	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 13:03
1,2-Dibromo-3-chloropropane	ND	6.2	0.50	µg/Kg-dry	1		01/17/06 13:03
1,2-Dibromoethane	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 13:03
1,2-Dichlorobenzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 13:03
1,2-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 13:03
1,2-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/17/06 13:03
1,3,5-Trimethylbenzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 13:03
1,3-Dichlorobenzene	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 13:03
1,3-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/17/06 13:03
1,4-Dichlorobenzene	ND	3.1	0.16	µg/Kg-dry	1		01/17/06 13:03
2,2-Dichloropropane	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 13:03
2-Butanone	ND	12	0.17	µg/Kg-dry	1		01/17/06 13:03
2-Chlorotoluene	ND	3.1	0.09	µg/Kg-dry	1		01/17/06 13:03
2-Hexanone	ND	6.2	0.27	µg/Kg-dry	1		01/17/06 13:03
4-Chlorotoluene	ND	3.1	0.20	µg/Kg-dry	1		01/17/06 13:03
4-Methyl-2-pentanone	ND	6.2	0.30	µg/Kg-dry	1		01/17/06 13:03
Acetone	2.4 J	12	0.49	µg/Kg-dry	1		01/17/06 13:03
Benzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 13:03
Bromobenzene	ND	3.1	0.19	µg/Kg-dry	1		01/17/06 13:03
Bromochloromethane	ND	3.1	0.20	µg/Kg-dry	1		01/17/06 13:03
Bromodichloromethane	ND	3.1	0.10	µg/Kg-dry	1		01/17/06 13:03
Bromoform	ND	3.1	0.07	µg/Kg-dry	1		01/17/06 13:03
Bromomethane	ND	6.2	0.37	µg/Kg-dry	1		01/17/06 13:03

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 4.98 g

ColumnID: Rtx-VMS

%Moisture: 19.6

Revision: 01/20/06 10:08:39 A

TestCode: 8260S TAGML

Lab ID: 0601049-016A

Client Sample ID: BH-28-D

Collection Date: 01/11/06 15:20

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8234.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	3.1	0.07	µg/Kg-dry	1		01/17/06 13:03
Carbon tetrachloride	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 13:03
Chlorobenzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 13:03
Chloroethane	ND	6.2	0.36	µg/Kg-dry	1		01/17/06 13:03
Chloroform	ND	3.1	0.05	µg/Kg-dry	1		01/17/06 13:03
Chloromethane	ND	6.2	0.47	µg/Kg-dry	1		01/17/06 13:03
cis-1,2-Dichloroethene	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 13:03
cis-1,3-Dichloropropene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 13:03
Dibromochloromethane	ND	3.1	0.16	µg/Kg-dry	1		01/17/06 13:03
Dibromomethane	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 13:03
Dichlorodifluoromethane	ND	6.2	0.10	µg/Kg-dry	1		01/17/06 13:03
Ethylbenzene	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 13:03
Hexachlorobutadiene	ND	6.2	0.49	µg/Kg-dry	1		01/17/06 13:03
Isopropylbenzene	ND	3.1	0.10	µg/Kg-dry	1		01/17/06 13:03
Methyl tert-butyl ether	ND	3.1	0.09	µg/Kg-dry	1		01/17/06 13:03
Methylene chloride	ND	6.2	0.50	µg/Kg-dry	1		01/17/06 13:03
n-Butylbenzene	ND	3.1	0.15	µg/Kg-dry	1		01/17/06 13:03
n-Propylbenzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 13:03
Naphthalene	ND	6.2	0.46	µg/Kg-dry	1		01/17/06 13:03
p-Isopropyltoluene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 13:03
sec-Butylbenzene	ND	3.1	0.16	µg/Kg-dry	1		01/17/06 13:03
Styrene	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 13:03
tert-Butylbenzene	ND	3.1	0.16	µg/Kg-dry	1		01/17/06 13:03
Tetrachloroethene	ND	3.1	0.17	µg/Kg-dry	1		01/17/06 13:03
Toluene	ND	3.1	0.15	µg/Kg-dry	1		01/17/06 13:03
trans-1,2-Dichloroethene	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 13:03
trans-1,3-Dichloropropene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 13:03
Trichloroethene	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 13:03
Trichlorofluoromethane	ND	6.2	0.10	µg/Kg-dry	1		01/17/06 13:03
Vinyl chloride	ND	6.2	0.10	µg/Kg-dry	1		01/17/06 13:03
Xylenes (total)	ND	6.2	0.22	µg/Kg-dry	1		01/17/06 13:03
Surr: 1,2-Dichloroethane-d4	84.7	71-128	0.16	%REC	1		01/17/06 13:03
Surr: 4-Bromofluorobenzene	74.9	59-125	0.11	%REC	1		01/17/06 13:03
Surr: Dibromofluoromethane	99.9	40-156	0.22	%REC	1		01/17/06 13:03
Surr: Toluene-d8	93.0	75-125	0.15	%REC	1		01/17/06 13:03

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 10:08:39 A

Sample Size: 5 g

%Moisture: 12.3

TestCode: 8260S TAGML

Lab ID: 0601049-017A

Client Sample ID: BH-29-S

Collection Date: 01/11/06 16:05

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8235.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/17/06 13:38
1,1,1-Trichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 13:38
1,1,2,2-Tetrachloroethane	ND	2.9	0.18	µg/Kg-dry	1		01/17/06 13:38
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 13:38
1,1,2-Trichloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/17/06 13:38
1,1-Dichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 13:38
1,1-Dichloroethene	ND	2.9	0.16	µg/Kg-dry	1		01/17/06 13:38
1,1-Dichloropropene	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 13:38
1,2,3-Trichlorobenzene	ND	5.7	0.57	µg/Kg-dry	1		01/17/06 13:38
1,2,3-Trichloropropane	ND	2.9	0.19	µg/Kg-dry	1		01/17/06 13:38
1,2,4-Trichlorobenzene	ND	5.7	0.39	µg/Kg-dry	1		01/17/06 13:38
1,2,4-Trimethylbenzene	ND	2.9	0.13	µg/Kg-dry	1		01/17/06 13:38
1,2-Dibromo-3-chloropropane	ND	5.7	0.46	µg/Kg-dry	1		01/17/06 13:38
1,2-Dibromoethane	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 13:38
1,2-Dichlorobenzene	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 13:38
1,2-Dichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 13:38
1,2-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/17/06 13:38
1,3,5-Trimethylbenzene	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 13:38
1,3-Dichlorobenzene	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 13:38
1,3-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/17/06 13:38
1,4-Dichlorobenzene	ND	2.9	0.15	µg/Kg-dry	1		01/17/06 13:38
2,2-Dichloropropane	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 13:38
2-Butanone	ND	11	0.16	µg/Kg-dry	1		01/17/06 13:38
2-Chlorotoluene	ND	2.9	0.08	µg/Kg-dry	1		01/17/06 13:38
2-Hexanone	ND	5.7	0.25	µg/Kg-dry	1		01/17/06 13:38
4-Chlorotoluene	ND	2.9	0.18	µg/Kg-dry	1		01/17/06 13:38
4-Methyl-2-pentanone	ND	5.7	0.27	µg/Kg-dry	1		01/17/06 13:38
Acetone	2.6 J	11	0.44	µg/Kg-dry	1		01/17/06 13:38
Benzene	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 13:38
Bromobenzene	ND	2.9	0.17	µg/Kg-dry	1		01/17/06 13:38
Bromochloromethane	ND	2.9	0.18	µg/Kg-dry	1		01/17/06 13:38
Bromodichloromethane	ND	2.9	0.09	µg/Kg-dry	1		01/17/06 13:38
Bromoform	ND	2.9	0.07	µg/Kg-dry	1		01/17/06 13:38
Bromomethane	ND	5.7	0.34	µg/Kg-dry	1		01/17/06 13:38

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 5 g

ColumnID: Rtx-VMS

%Moisture: 12.3

Revision: 01/20/06 10:08:39 A

TestCode: 8260S TAGML

Lab ID: 0601049-017A

Client Sample ID: BH-29-S

Collection Date: 01/11/06 16:05

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8235.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	2.9	0.07	µg/Kg-dry	1		01/17/06 13:38
Carbon tetrachloride	ND	2.9	0.13	µg/Kg-dry	1		01/17/06 13:38
Chlorobenzene	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 13:38
Chloroethane	ND	5.7	0.33	µg/Kg-dry	1		01/17/06 13:38
Chloroform	ND	2.9	0.05	µg/Kg-dry	1		01/17/06 13:38
Chloromethane	ND	5.7	0.43	µg/Kg-dry	1		01/17/06 13:38
cis-1,2-Dichloroethene	ND	2.9	0.13	µg/Kg-dry	1		01/17/06 13:38
cis-1,3-Dichloropropene	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 13:38
Dibromochloromethane	ND	2.9	0.15	µg/Kg-dry	1		01/17/06 13:38
Dibromomethane	ND	2.9	0.13	µg/Kg-dry	1		01/17/06 13:38
Dichlorodifluoromethane	ND	5.7	0.09	µg/Kg-dry	1		01/17/06 13:38
Ethylbenzene	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 13:38
Hexachlorobutadiene	ND	5.7	0.44	µg/Kg-dry	1		01/17/06 13:38
Isopropylbenzene	ND	2.9	0.09	µg/Kg-dry	1		01/17/06 13:38
Methyl tert-butyl ether	ND	2.9	0.08	µg/Kg-dry	1		01/17/06 13:38
Methylene chloride	ND	5.7	0.46	µg/Kg-dry	1		01/17/06 13:38
n-Butylbenzene	ND	2.9	0.14	µg/Kg-dry	1		01/17/06 13:38
n-Propylbenzene	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 13:38
Naphthalene	ND	5.7	0.42	µg/Kg-dry	1		01/17/06 13:38
p-Isopropyltoluene	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 13:38
sec-Butylbenzene	ND	2.9	0.15	µg/Kg-dry	1		01/17/06 13:38
Styrene	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 13:38
tert-Butylbenzene	ND	2.9	0.15	µg/Kg-dry	1		01/17/06 13:38
Tetrachloroethene	ND	2.9	0.16	µg/Kg-dry	1		01/17/06 13:38
Toluene	ND	2.9	0.14	µg/Kg-dry	1		01/17/06 13:38
trans-1,2-Dichloroethene	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 13:38
trans-1,3-Dichloropropene	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 13:38
Trichloroethene	ND	2.9	0.13	µg/Kg-dry	1		01/17/06 13:38
Trichlorofluoromethane	ND	5.7	0.09	µg/Kg-dry	1		01/17/06 13:38
Vinyl chloride	ND	5.7	0.09	µg/Kg-dry	1		01/17/06 13:38
Xylenes (total)	ND	5.7	0.21	µg/Kg-dry	1		01/17/06 13:38
Surr: 1,2-Dichloroethane-d4	86.6	71-128	0.15	%REC	1		01/17/06 13:38
Surr: 4-Bromofluorobenzene	71.3	59-125	0.10	%REC	1		01/17/06 13:38
Surr: Dibromofluoromethane	97.1	40-156	0.21	%REC	1		01/17/06 13:38
Surr: Toluene-d8	91.5	75-125	0.14	%REC	1		01/17/06 13:38

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Lab ID: 0601049-018A

Client Sample ID: BH-29-D

Collection Date: 01/11/06 16:20

Date Received: 01/12/06 7:50

Inst. ID: MS03 10

Sample Size: 4.99 g

PrepDate:

ColumnID: Rtx-VMS

%Moisture: 20.4

BatchNo:

R4228

Revision: 01/20/06 10:08:39 A

TestCode: 8260S TAGML

FileID:

1-SAMP-J8236.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 14:13
1,1,1-Trichloroethane	ND	3.1	0.13	µg/Kg-dry	1		01/17/06 14:13
1,1,2,2-Tetrachloroethane	ND	3.1	0.20	µg/Kg-dry	1		01/17/06 14:13
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.1	0.13	µg/Kg-dry	1		01/17/06 14:13
1,1,2-Trichloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 14:13
1,1-Dichloroethane	ND	3.1	0.13	µg/Kg-dry	1		01/17/06 14:13
1,1-Dichloroethene	ND	3.1	0.18	µg/Kg-dry	1		01/17/06 14:13
1,1-Dichloropropene	ND	3.1	0.13	µg/Kg-dry	1		01/17/06 14:13
1,2,3-Trichlorobenzene	ND	6.3	0.63	µg/Kg-dry	1		01/17/06 14:13
1,2,3-Trichloropropane	ND	3.1	0.21	µg/Kg-dry	1		01/17/06 14:13
1,2,4-Trichlorobenzene	ND	6.3	0.43	µg/Kg-dry	1		01/17/06 14:13
1,2,4-Trimethylbenzene	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 14:13
1,2-Dibromo-3-chloropropane	ND	6.3	0.50	µg/Kg-dry	1		01/17/06 14:13
1,2-Dibromoethane	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 14:13
1,2-Dichlorobenzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 14:13
1,2-Dichloroethane	ND	3.1	0.13	µg/Kg-dry	1		01/17/06 14:13
1,2-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/17/06 14:13
1,3,5-Trimethylbenzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 14:13
1,3-Dichlorobenzene	ND	3.1	0.13	µg/Kg-dry	1		01/17/06 14:13
1,3-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/17/06 14:13
1,4-Dichlorobenzene	ND	3.1	0.16	µg/Kg-dry	1		01/17/06 14:13
2,2-Dichloropropane	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 14:13
2-Butanone	ND	13	0.18	µg/Kg-dry	1		01/17/06 14:13
2-Chlorotoluene	ND	3.1	0.09	µg/Kg-dry	1		01/17/06 14:13
2-Hexanone	ND	6.3	0.28	µg/Kg-dry	1		01/17/06 14:13
4-Chlorotoluene	ND	3.1	0.20	µg/Kg-dry	1		01/17/06 14:13
4-Methyl-2-pentanone	ND	6.3	0.30	µg/Kg-dry	1		01/17/06 14:13
Acetone	1.8 J	13	0.49	µg/Kg-dry	1		01/17/06 14:13
Benzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 14:13
Bromobenzene	ND	3.1	0.19	µg/Kg-dry	1		01/17/06 14:13
Bromochloromethane	ND	3.1	0.20	µg/Kg-dry	1		01/17/06 14:13
Bromodichloromethane	ND	3.1	0.10	µg/Kg-dry	1		01/17/06 14:13
Bromoform	ND	3.1	0.08	µg/Kg-dry	1		01/17/06 14:13
Bromomethane	ND	6.3	0.38	µg/Kg-dry	1		01/17/06 14:13

Qualifiers:

B Analyte detected in the associated Method Blank

E Value exceeds the instrument calibration range

H Holding times for preparation or analysis exceeded

J Analyte detected below the PQL

ND Not Detected at the Practical Quantitation Limit (PQL)

P Prim./Conf. column %D or RPD exceeds limit

S Spike Recovery outside accepted recovery limits

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 4.99 g

ColumnID: Rtx-VMS

%Moisture: 20.4

Revision: 01/20/06 10:08:39 A

TestCode: 8260S TAGML

Lab ID: 0601049-018A

Client Sample ID: BH-29-D

Collection Date: 01/11/06 16:20

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8236.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	3.1	0.08	µg/Kg-dry	1		01/17/06 14:13
Carbon tetrachloride	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 14:13
Chlorobenzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 14:13
Chloroethane	ND	6.3	0.36	µg/Kg-dry	1		01/17/06 14:13
Chloroform	ND	3.1	0.05	µg/Kg-dry	1		01/17/06 14:13
Chloromethane	ND	6.3	0.48	µg/Kg-dry	1		01/17/06 14:13
cis-1,2-Dichloroethene	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 14:13
cis-1,3-Dichloropropene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 14:13
Dibromochloromethane	ND	3.1	0.16	µg/Kg-dry	1		01/17/06 14:13
Dibromomethane	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 14:13
Dichlorodifluoromethane	ND	6.3	0.10	µg/Kg-dry	1		01/17/06 14:13
Ethylbenzene	ND	3.1	0.13	µg/Kg-dry	1		01/17/06 14:13
Hexachlorobutadiene	ND	6.3	0.49	µg/Kg-dry	1		01/17/06 14:13
Isopropylbenzene	ND	3.1	0.10	µg/Kg-dry	1		01/17/06 14:13
Methyl tert-butyl ether	ND	3.1	0.09	µg/Kg-dry	1		01/17/06 14:13
Methylene chloride	ND	6.3	0.50	µg/Kg-dry	1		01/17/06 14:13
n-Butylbenzene	ND	3.1	0.15	µg/Kg-dry	1		01/17/06 14:13
n-Propylbenzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 14:13
Naphthalene	ND	6.3	0.46	µg/Kg-dry	1		01/17/06 14:13
p-Isopropyltoluene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 14:13
sec-Butylbenzene	ND	3.1	0.16	µg/Kg-dry	1		01/17/06 14:13
Styrene	ND	3.1	0.13	µg/Kg-dry	1		01/17/06 14:13
tert-Butylbenzene	ND	3.1	0.16	µg/Kg-dry	1		01/17/06 14:13
Tetrachloroethene	ND	3.1	0.18	µg/Kg-dry	1		01/17/06 14:13
Toluene	ND	3.1	0.15	µg/Kg-dry	1		01/17/06 14:13
trans-1,2-Dichloroethene	ND	3.1	0.13	µg/Kg-dry	1		01/17/06 14:13
trans-1,3-Dichloropropene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 14:13
Trichloroethene	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 14:13
Trichlorofluoromethane	ND	6.3	0.10	µg/Kg-dry	1		01/17/06 14:13
Vinyl chloride	ND	6.3	0.10	µg/Kg-dry	1		01/17/06 14:13
Xylenes (total)	ND	6.3	0.23	µg/Kg-dry	1		01/17/06 14:13
Surr. 1,2-Dichloroethane-d4	86.1	71-126	0.16	%REC	1		01/17/06 14:13
Surr. 4-Bromofluorobenzene	71.9	59-125	0.11	%REC	1		01/17/06 14:13
Surr. Dibromofluoromethane	101	40-156	0.23	%REC	1		01/17/06 14:13
Surr. Toluene-d8	91.6	75-125	0.15	%REC	1		01/17/06 14:13

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 10:08:39 A

Sample Size: 5.02 g

%Moisture: 18.6

TestCode: 8260S TAGML

Lab ID: 0601049-019A

Client Sample ID: BH-34-S

Collection Date: 01/11/06 14:30

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8237.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 14:48
1,1,1-Trichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 14:48
1,1,2,2-Tetrachloroethane	ND	3.1	0.20	µg/Kg-dry	1		01/17/06 14:48
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 14:48
1,1,2-Trichloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 14:48
1,1-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 14:48
1,1-Dichloroethene	ND	3.1	0.17	µg/Kg-dry	1		01/17/06 14:48
1,1-Dichloropropene	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 14:48
1,2,3-Trichlorobenzene	ND	6.1	0.61	µg/Kg-dry	1		01/17/06 14:48
1,2,3-Trichloropropane	ND	3.1	0.21	µg/Kg-dry	1		01/17/06 14:48
1,2,4-Trichlorobenzene	ND	6.1	0.42	µg/Kg-dry	1		01/17/06 14:48
1,2,4-Trimethylbenzene	ND	3.1	0.14	µg/Kg-dry	1		01/17/06 14:48
1,2-Dibromo-3-chloropropane	ND	6.1	0.49	µg/Kg-dry	1		01/17/06 14:48
1,2-Dibromoethane	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 14:48
1,2-Dichlorobenzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 14:48
1,2-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 14:48
1,2-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/17/06 14:48
1,3,5-Trimethylbenzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 14:48
1,3-Dichlorobenzene	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 14:48
1,3-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/17/06 14:48
1,4-Dichlorobenzene	ND	3.1	0.16	µg/Kg-dry	1		01/17/06 14:48
2,2-Dichloropropane	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 14:48
2-Butanone	ND	12	0.17	µg/Kg-dry	1		01/17/06 14:48
2-Chlorotoluene	ND	3.1	0.09	µg/Kg-dry	1		01/17/06 14:48
2-Hexanone	ND	6.1	0.27	µg/Kg-dry	1		01/17/06 14:48
4-Chlorotoluene	ND	3.1	0.20	µg/Kg-dry	1		01/17/06 14:48
4-Methyl-2-pentanone	ND	6.1	0.29	µg/Kg-dry	1		01/17/06 14:48
Acetone	2.7 J	12	0.46	µg/Kg-dry	1		01/17/06 14:48
Benzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 14:48
Bromobenzene	ND	3.1	0.18	µg/Kg-dry	1		01/17/06 14:48
Bromochloromethane	ND	3.1	0.20	µg/Kg-dry	1		01/17/06 14:48
Bromodichloromethane	ND	3.1	0.10	µg/Kg-dry	1		01/17/06 14:48
Bromoform	ND	3.1	0.07	µg/Kg-dry	1		01/17/06 14:48
Bromomethane	ND	6.1	0.37	µg/Kg-dry	1		01/17/06 14:48

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 5.02 g

ColumnID: Rtx-VMS

%Moisture: 18.6

Revision: 01/20/06 10:08:39 A

TestCode: 8260S TAGML

Lab ID: 0601049-019A

Client Sample ID: BH-34-S

Collection Date: 01/11/06 14:30

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8237.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		3.1	0.07	µg/Kg-dry	1	01/17/06 14:48
Carbon tetrachloride	ND		3.1	0.14	µg/Kg-dry	1	01/17/06 14:48
Chlorobenzene	ND		3.1	0.11	µg/Kg-dry	1	01/17/06 14:48
Chloroethane	ND		6.1	0.36	µg/Kg-dry	1	01/17/06 14:48
Chloroform	ND		3.1	0.05	µg/Kg-dry	1	01/17/06 14:48
Chloromethane	ND		6.1	0.47	µg/Kg-dry	1	01/17/06 14:48
cis-1,2-Dichloroethene	ND		3.1	0.14	µg/Kg-dry	1	01/17/06 14:48
cis-1,3-Dichloropropene	ND		3.1	0.11	µg/Kg-dry	1	01/17/06 14:48
Dibromochloromethane	ND		3.1	0.16	µg/Kg-dry	1	01/17/06 14:48
Dibromomethane	ND		3.1	0.14	µg/Kg-dry	1	01/17/06 14:48
Dichlorodifluoromethane	ND		6.1	0.10	µg/Kg-dry	1	01/17/06 14:48
Ethylbenzene	ND		3.1	0.12	µg/Kg-dry	1	01/17/06 14:48
Hexachlorobutadiene	ND		6.1	0.48	µg/Kg-dry	1	01/17/06 14:48
Isopropylbenzene	ND		3.1	0.10	µg/Kg-dry	1	01/17/06 14:48
Methyl tert-butyl ether	ND		3.1	0.09	µg/Kg-dry	1	01/17/06 14:48
Methylene chloride	1.2 J		6.1	0.49	µg/Kg-dry	1	01/17/06 14:48
n-Butylbenzene	ND		3.1	0.15	µg/Kg-dry	1	01/17/06 14:48
n-Propylbenzene	ND		3.1	0.11	µg/Kg-dry	1	01/17/06 14:48
Naphthalene	ND		6.1	0.45	µg/Kg-dry	1	01/17/06 14:48
p-Isopropyltoluene	ND		3.1	0.11	µg/Kg-dry	1	01/17/06 14:48
sec-Butylbenzene	ND		3.1	0.16	µg/Kg-dry	1	01/17/06 14:48
Styrene	ND		3.1	0.12	µg/Kg-dry	1	01/17/06 14:48
tert-Butylbenzene	ND		3.1	0.16	µg/Kg-dry	1	01/17/06 14:48
Tetrachloroethene	ND		3.1	0.17	µg/Kg-dry	1	01/17/06 14:48
Toluene	0.76 J		3.1	0.15	µg/Kg-dry	1	01/17/06 14:48
trans-1,2-Dichloroethene	ND		3.1	0.12	µg/Kg-dry	1	01/17/06 14:48
trans-1,3-Dichloropropene	ND		3.1	0.11	µg/Kg-dry	1	01/17/06 14:48
Trichloroethene	ND		3.1	0.14	µg/Kg-dry	1	01/17/06 14:48
Trichlorofluoromethane	ND		6.1	0.10	µg/Kg-dry	1	01/17/06 14:48
Vinyl chloride	ND		6.1	0.10	µg/Kg-dry	1	01/17/06 14:48
Xylenes (total)	ND		6.1	0.22	µg/Kg-dry	1	01/17/06 14:48
Surr: 1,2-Dichloroethane-d4	91.2		71-128	0.16	%REC	1	01/17/06 14:48
Surr: 4-Bromofluorobenzene	51.6 S		59-125	0.11	%REC	1	01/17/06 14:48
Surr: Dibromofluoromethane	111		40-156	0.22	%REC	1	01/17/06 14:48
Surr: Toluene-d8	78.6		75-125	0.15	%REC	1	01/17/06 14:48

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:03 A

Sample Size: 4.99 g

%Moisture: 18.6

TestCode: 8260S TAGML

Lab ID: 0601049-019A

Client Sample ID: BH-34-S

Collection Date: 01/11/06 14:30

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4263

FileID: 1-RA-J8276.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/19/06 14:41
1,1,1-Trichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/19/06 14:41
1,1,2,2-Tetrachloroethane	ND	3.1	0.20	µg/Kg-dry	1		01/19/06 14:41
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.1	0.12	µg/Kg-dry	1		01/19/06 14:41
1,1,2-Trichloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/19/06 14:41
1,1-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/19/06 14:41
1,1-Dichloroethene	ND	3.1	0.17	µg/Kg-dry	1		01/19/06 14:41
1,1-Dichloropropene	ND	3.1	0.12	µg/Kg-dry	1		01/19/06 14:41
1,2,3-Trichlorobenzene	ND	6.1	0.61	µg/Kg-dry	1		01/19/06 14:41
1,2,3-Trichloropropane	ND	3.1	0.21	µg/Kg-dry	1		01/19/06 14:41
1,2,4-Trichlorobenzene	ND	6.1	0.42	µg/Kg-dry	1		01/19/06 14:41
1,2,4-Trimethylbenzene	ND	3.1	0.14	µg/Kg-dry	1		01/19/06 14:41
1,2-Dibromo-3-chloropropane	ND	6.1	0.49	µg/Kg-dry	1		01/19/06 14:41
1,2-Dibromoethane	ND	3.1	0.11	µg/Kg-dry	1		01/19/06 14:41
1,2-Dichlorobenzene	ND	3.1	0.11	µg/Kg-dry	1		01/19/06 14:41
1,2-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/19/06 14:41
1,2-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/19/06 14:41
1,3,5-Trimethylbenzene	ND	3.1	0.11	µg/Kg-dry	1		01/19/06 14:41
1,3-Dichlorobenzene	ND	3.1	0.12	µg/Kg-dry	1		01/19/06 14:41
1,3-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/19/06 14:41
1,4-Dichlorobenzene	ND	3.1	0.16	µg/Kg-dry	1		01/19/06 14:41
2,2-Dichloropropane	ND	3.1	0.11	µg/Kg-dry	1		01/19/06 14:41
2-Butanone	ND	12	0.17	µg/Kg-dry	1		01/19/06 14:41
2-Chlorotoluene	ND	3.1	0.09	µg/Kg-dry	1		01/19/06 14:41
2-Hexanone	ND	6.1	0.27	µg/Kg-dry	1		01/19/06 14:41
4-Chlorotoluene	ND	3.1	0.20	µg/Kg-dry	1		01/19/06 14:41
4-Methyl-2-pentanone	ND	6.1	0.29	µg/Kg-dry	1		01/19/06 14:41
Acetone	2.2 J	12	0.48	µg/Kg-dry	1		01/19/06 14:41
Benzene	ND	3.1	0.11	µg/Kg-dry	1		01/19/06 14:41
Bromobenzene	ND	3.1	0.16	µg/Kg-dry	1		01/19/06 14:41
Bromochloromethane	ND	3.1	0.20	µg/Kg-dry	1		01/19/06 14:41
Bromodichloromethane	ND	3.1	0.10	µg/Kg-dry	1		01/19/06 14:41
Bromoform	ND	3.1	0.07	µg/Kg-dry	1		01/19/06 14:41
Bromomethane	ND	6.1	0.37	µg/Kg-dry	1		01/19/06 14:41

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:03 A

Sample Size: 4.99 g

%Moisture: 18.6

TestCode: 8260S TAGML

Lab ID: 0601049-019A

Client Sample ID: BH-34-S

Collection Date: 01/11/06 14:30

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4263

FileID: 1-RA-J8276.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		3.1	0.07	µg/Kg-dry	1	01/19/06 14:41
Carbon tetrachloride	ND		3.1	0.14	µg/Kg-dry	1	01/19/06 14:41
Chlorobenzene	ND		3.1	0.11	µg/Kg-dry	1	01/19/06 14:41
Chloroethane	ND		6.1	0.36	µg/Kg-dry	1	01/19/06 14:41
Chloroform	ND		3.1	0.05	µg/Kg-dry	1	01/19/06 14:41
Chloromethane	ND		6.1	0.47	µg/Kg-dry	1	01/19/06 14:41
cis-1,2-Dichloroethene	ND		3.1	0.14	µg/Kg-dry	1	01/19/06 14:41
cis-1,3-Dichloropropene	ND		3.1	0.11	µg/Kg-dry	1	01/19/06 14:41
Dibromochloromethane	ND		3.1	0.16	µg/Kg-dry	1	01/19/06 14:41
Dibromomethane	ND		3.1	0.14	µg/Kg-dry	1	01/19/06 14:41
Dichlorodifluoromethane	ND		6.1	0.10	µg/Kg-dry	1	01/19/06 14:41
Ethylbenzene	ND		3.1	0.12	µg/Kg-dry	1	01/19/06 14:41
Hexachlorobutadiene	ND		6.1	0.48	µg/Kg-dry	1	01/19/06 14:41
Isopropylbenzene	ND		3.1	0.10	µg/Kg-dry	1	01/19/06 14:41
Methyl tert-butyl ether	ND		3.1	0.09	µg/Kg-dry	1	01/19/06 14:41
Methylene chloride	2.5 J		6.1	0.49	µg/Kg-dry	1	01/19/06 14:41
n-Butylbenzene	ND		3.1	0.15	µg/Kg-dry	1	01/19/06 14:41
n-Propylbenzene	ND		3.1	0.11	µg/Kg-dry	1	01/19/06 14:41
Naphthalene	ND		6.1	0.45	µg/Kg-dry	1	01/19/06 14:41
p-Isopropyltoluene	ND		3.1	0.11	µg/Kg-dry	1	01/19/06 14:41
sec-Butylbenzene	ND		3.1	0.16	µg/Kg-dry	1	01/19/06 14:41
Styrene	ND		3.1	0.12	µg/Kg-dry	1	01/19/06 14:41
tert-Butylbenzene	ND		3.1	0.16	µg/Kg-dry	1	01/19/06 14:41
Tetrachloroethene	ND		3.1	0.17	µg/Kg-dry	1	01/19/06 14:41
Toluene	0.66 J		3.1	0.15	µg/Kg-dry	1	01/19/06 14:41
trans-1,2-Dichloroethene	ND		3.1	0.12	µg/Kg-dry	1	01/19/06 14:41
trans-1,3-Dichloropropene	ND		3.1	0.11	µg/Kg-dry	1	01/19/06 14:41
Trichloroethene	ND		3.1	0.14	µg/Kg-dry	1	01/19/06 14:41
Trichlorofluoromethane	ND		6.1	0.10	µg/Kg-dry	1	01/19/06 14:41
Vinyl chloride	ND		6.1	0.10	µg/Kg-dry	1	01/19/06 14:41
Xylenes (total)	ND		6.1	0.22	µg/Kg-dry	1	01/19/06 14:41
Sum: 1,2-Dichloroethane-d4	69.3		71-128	0.16	%REC	1	01/19/06 14:41
Sum: 4-Bromofluorobenzene	50.9 S		59-125	0.11	%REC	1	01/19/06 14:41
Sum: Dibromofluoromethane	110		40-156	0.22	%REC	1	01/19/06 14:41
Sum: Toluene-d8	79.9		75-125	0.15	%REC	1	01/19/06 14:41

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:10

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 4.99 g

%Moisture: 8.0

TestCode: 8260S TAGML

Lab ID: 0601049-020A

Client Sample ID: BH-34-D

Collection Date: 01/11/06 14:40

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-SAMP-J8254.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.7	0.12	µg/Kg-dry	1		01/18/06 12:28
1,1,1-Trichloroethane	ND	2.7	0.11	µg/Kg-dry	1		01/18/06 12:28
1,1,2,2-Tetrachloroethane	ND	2.7	0.17	µg/Kg-dry	1		01/18/06 12:28
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.7	0.11	µg/Kg-dry	1		01/18/06 12:28
1,1,2-Trichloroethane	ND	2.7	0.12	µg/Kg-dry	1		01/18/06 12:28
1,1-Dichloroethane	ND	2.7	0.11	µg/Kg-dry	1		01/18/06 12:28
1,1-Dichloroethene	ND	2.7	0.15	µg/Kg-dry	1		01/18/06 12:28
1,1-Dichloropropene	ND	2.7	0.11	µg/Kg-dry	1		01/18/06 12:28
1,2,3-Trichlorobenzene	ND	5.4	0.54	µg/Kg-dry	1		01/18/06 12:28
1,2,3-Trichloropropane	ND	2.7	0.18	µg/Kg-dry	1		01/18/06 12:28
1,2,4-Trichlorobenzene	ND	5.4	0.37	µg/Kg-dry	1		01/18/06 12:28
1,2,4-Trimethylbenzene	1.4 J	2.7	0.12	µg/Kg-dry	1		01/18/06 12:28
1,2-Dibromo-3-chloropropane	ND	5.4	0.43	µg/Kg-dry	1		01/18/06 12:28
1,2-Dibromoethane	ND	2.7	0.10	µg/Kg-dry	1		01/18/06 12:28
1,2-Dichlorobenzene	ND	2.7	0.10	µg/Kg-dry	1		01/18/06 12:28
1,2-Dichloroethane	ND	2.7	0.11	µg/Kg-dry	1		01/18/06 12:28
1,2-Dichloropropane	ND	2.7	0.09	µg/Kg-dry	1		01/18/06 12:28
1,3,5-Trimethylbenzene	4.0	2.7	0.10	µg/Kg-dry	1		01/18/06 12:28
1,3-Dichlorobenzene	ND	2.7	0.11	µg/Kg-dry	1		01/18/06 12:28
1,3-Dichloropropane	ND	2.7	0.09	µg/Kg-dry	1		01/18/06 12:28
1,4-Dichlorobenzene	ND	2.7	0.14	µg/Kg-dry	1		01/18/06 12:28
2,2-Dichloropropane	ND	2.7	0.10	µg/Kg-dry	1		01/18/06 12:28
2-Butanone	ND	11	0.15	µg/Kg-dry	1		01/18/06 12:28
2-Chlorotoluene	ND	2.7	0.08	µg/Kg-dry	1		01/18/06 12:28
2-Hexanone	ND	5.4	0.24	µg/Kg-dry	1		01/18/06 12:28
4-Chlorotoluene	ND	2.7	0.17	µg/Kg-dry	1		01/18/06 12:28
4-Methyl-2-pentanone	ND	5.4	0.26	µg/Kg-dry	1		01/18/06 12:28
Acetone	1.3 J	11	0.42	µg/Kg-dry	1		01/18/06 12:28
Benzene	ND	2.7	0.10	µg/Kg-dry	1		01/18/06 12:28
Bromobenzene	ND	2.7	0.16	µg/Kg-dry	1		01/18/06 12:28
Bromochloromethane	ND	2.7	0.17	µg/Kg-dry	1		01/18/06 12:28
Bromodichloromethane	ND	2.7	0.09	µg/Kg-dry	1		01/18/06 12:28
Bromoform	ND	2.7	0.07	µg/Kg-dry	1		01/18/06 12:28
Bromomethane	ND	5.4	0.33	µg/Kg-dry	1		01/18/06 12:28

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 4.99 g

%Moisture: 8.0

TestCode: 8260S TAGML

Lab ID: 0601049-020A

Client Sample ID: BH-34-D

Collection Date: 01/11/06 14:40

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4249

FileID: 1-SAMP-J8254.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	2.7	0.07	µg/Kg-dry	1		01/18/06 12:28
Carbon tetrachloride	ND	2.7	0.12	µg/Kg-dry	1		01/18/06 12:28
Chlorobenzene	ND	2.7	0.10	µg/Kg-dry	1		01/18/06 12:28
Chloroethane	ND	5.4	0.32	µg/Kg-dry	1		01/18/06 12:28
Chloroform	ND	2.7	0.04	µg/Kg-dry	1		01/18/06 12:28
Chloromethane	ND	5.4	0.41	µg/Kg-dry	1		01/18/06 12:28
cis-1,2-Dichloroethene	ND	2.7	0.12	µg/Kg-dry	1		01/18/06 12:28
cis-1,3-Dichloropropene	ND	2.7	0.10	µg/Kg-dry	1		01/18/06 12:28
Dibromochloromethane	ND	2.7	0.14	µg/Kg-dry	1		01/18/06 12:28
Dibromomethane	ND	2.7	0.12	µg/Kg-dry	1		01/18/06 12:28
Dichlorodifluoromethane	ND	5.4	0.09	µg/Kg-dry	1		01/18/06 12:28
Ethylbenzene	ND	2.7	0.11	µg/Kg-dry	1		01/18/06 12:28
Hexachlorobutadiene	ND	5.4	0.42	µg/Kg-dry	1		01/18/06 12:28
Isopropylbenzene	ND	2.7	0.09	µg/Kg-dry	1		01/18/06 12:28
Methyl tert-butyl ether	ND	2.7	0.08	µg/Kg-dry	1		01/18/06 12:28
Methylene chloride	8.0	5.4	0.43	µg/Kg-dry	1		01/18/06 12:28
n-Butylbenzene	ND	2.7	0.13	µg/Kg-dry	1		01/18/06 12:28
n-Propylbenzene	ND	2.7	0.10	µg/Kg-dry	1		01/18/06 12:28
Naphthalene	1.3 J	5.4	0.40	µg/Kg-dry	1		01/18/06 12:28
p-Isopropyltoluene	ND	2.7	0.10	µg/Kg-dry	1		01/18/06 12:28
sec-Butylbenzene	ND	2.7	0.14	µg/Kg-dry	1		01/18/06 12:28
Styrene	ND	2.7	0.11	µg/Kg-dry	1		01/18/06 12:28
tert-Butylbenzene	ND	2.7	0.14	µg/Kg-dry	1		01/18/06 12:28
Tetrachloroethene	ND	2.7	0.15	µg/Kg-dry	1		01/18/06 12:28
Toluene	ND	2.7	0.13	µg/Kg-dry	1		01/18/06 12:28
trans-1,2-Dichloroethene	ND	2.7	0.11	µg/Kg-dry	1		01/18/06 12:28
trans-1,3-Dichloropropene	ND	2.7	0.10	µg/Kg-dry	1		01/18/06 12:28
Trichloroethene	ND	2.7	0.12	µg/Kg-dry	1		01/18/06 12:28
Trichlorofluoromethane	ND	5.4	0.09	µg/Kg-dry	1		01/18/06 12:28
Vinyl chloride	ND	5.4	0.09	µg/Kg-dry	1		01/18/06 12:28
Xylenes (total)	ND	5.4	0.20	µg/Kg-dry	1		01/18/06 12:28
Surr: 1,2-Dichloroethane-d4	86.7	71-128	0.14	%REC	1		01/18/06 12:28
Surr: 4-Bromofluorobenzene	61.2	59-125	0.10	%REC	1		01/18/06 12:28
Surr: Dibromofluoromethane	100	40-156	0.20	%REC	1		01/18/06 12:28
Surr: Toluene-d8	87.3	75-125	0.13	%REC	1		01/18/06 12:28

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:11

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:03 A

Sample Size: 5 g

%Moisture: 8.0

TestCode: 8260S TAGML

Lab ID: 0601049-020A

Client Sample ID: BH-34-D

Collection Date: 01/11/06 14:40

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4263

FileID: 1-RA-J8277.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.7	0.12	µg/Kg-dry	1		01/19/06 15:16
1,1,1-Trichloroethane	ND	2.7	0.11	µg/Kg-dry	1		01/19/06 15:16
1,1,2,2-Tetrachloroethane	ND	2.7	0.17	µg/Kg-dry	1		01/19/06 15:16
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.7	0.11	µg/Kg-dry	1		01/19/06 15:16
1,1,2-Trichloroethane	ND	2.7	0.12	µg/Kg-dry	1		01/19/06 15:16
1,1-Dichloroethane	ND	2.7	0.11	µg/Kg-dry	1		01/19/06 15:16
1,1-Dichloroethene	ND	2.7	0.15	µg/Kg-dry	1		01/19/06 15:16
1,1-Dichloropropene	ND	2.7	0.11	µg/Kg-dry	1		01/19/06 15:16
1,2,3-Trichlorobenzene	ND	5.4	0.54	µg/Kg-dry	1		01/19/06 15:16
1,2,3-Trichloropropane	ND	2.7	0.18	µg/Kg-dry	1		01/19/06 15:16
1,2,4-Trichlorobenzene	ND	5.4	0.37	µg/Kg-dry	1		01/19/06 15:16
1,2,4-Trimethylbenzene	1.3 J	2.7	0.12	µg/Kg-dry	1		01/19/06 15:16
1,2-Dibromo-3-chloropropane	ND	5.4	0.43	µg/Kg-dry	1		01/19/06 15:16
1,2-Dibromoethane	ND	2.7	0.10	µg/Kg-dry	1		01/19/06 15:16
1,2-Dichlorobenzene	ND	2.7	0.10	µg/Kg-dry	1		01/19/06 15:16
1,2-Dichloroethane	ND	2.7	0.11	µg/Kg-dry	1		01/19/06 15:16
1,2-Dichloropropane	ND	2.7	0.09	µg/Kg-dry	1		01/19/06 15:16
1,3,5-Trimethylbenzene	3.7	2.7	0.10	µg/Kg-dry	1		01/19/06 15:16
1,3-Dichlorobenzene	ND	2.7	0.11	µg/Kg-dry	1		01/19/06 15:18
1,3-Dichloropropane	ND	2.7	0.09	µg/Kg-dry	1		01/19/06 15:16
1,4-Dichlorobenzene	ND	2.7	0.14	µg/Kg-dry	1		01/19/06 15:16
2,2-Dichloropropane	ND	2.7	0.10	µg/Kg-dry	1		01/19/06 15:16
2-Butanone	ND	11	0.15	µg/Kg-dry	1		01/19/06 15:16
2-Chlorotoluene	ND	2.7	0.08	µg/Kg-dry	1		01/19/06 15:16
2-Hexanone	ND	5.4	0.24	µg/Kg-dry	1		01/19/06 15:16
4-Chlorotoluene	ND	2.7	0.17	µg/Kg-dry	1		01/19/06 15:16
4-Methyl-2-pentanone	ND	5.4	0.26	µg/Kg-dry	1		01/19/06 15:16
Acetone	1.5 J	11	0.42	µg/Kg-dry	1		01/19/06 15:16
Benzene	ND	2.7	0.10	µg/Kg-dry	1		01/19/06 15:16
Bromobenzene	ND	2.7	0.16	µg/Kg-dry	1		01/19/06 15:16
Bromochloromethane	ND	2.7	0.17	µg/Kg-dry	1		01/19/06 15:16
Bromodichloromethane	ND	2.7	0.09	µg/Kg-dry	1		01/19/06 15:16
Bromoform	ND	2.7	0.07	µg/Kg-dry	1		01/19/06 15:16
Bromomethane	ND	5.4	0.33	µg/Kg-dry	1		01/19/06 15:16

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:11

Project Supervisor: Thomas A. Alexander



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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:03 A

Sample Size: 5 g

%Moisture: 8.0

TestCode: 8260S TAGML

Lab ID: 0601049-020A

Client Sample ID: BH-34-D

Collection Date: 01/11/06 14:40

Date Received: 01/12/06 7:50

PrepDate:

BatchNo: R4263

FileID: 1-RA-J8277.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		2.7	0.07	µg/Kg-dry	1	01/19/06 15:16
Carbon tetrachloride	ND		2.7	0.12	µg/Kg-dry	1	01/19/06 15:16
Chlorobenzene	ND		2.7	0.10	µg/Kg-dry	1	01/19/06 15:16
Chloroethane	ND		5.4	0.32	µg/Kg-dry	1	01/19/06 15:16
Chloroform	ND		2.7	0.04	µg/Kg-dry	1	01/19/06 15:16
Chloromethane	ND		5.4	0.41	µg/Kg-dry	1	01/19/06 15:16
cis-1,2-Dichloroethene	ND		2.7	0.12	µg/Kg-dry	1	01/19/06 15:16
cis-1,3-Dichloropropene	ND		2.7	0.10	µg/Kg-dry	1	01/19/06 15:16
Dibromochloromethane	ND		2.7	0.14	µg/Kg-dry	1	01/19/06 15:16
Dibromomethane	ND		2.7	0.12	µg/Kg-dry	1	01/19/06 15:16
Dichlorodifluoromethane	ND		5.4	0.09	µg/Kg-dry	1	01/19/06 15:16
Ethylbenzene	ND		2.7	0.11	µg/Kg-dry	1	01/19/06 15:16
Hexachlorobutadiene	ND		5.4	0.42	µg/Kg-dry	1	01/19/06 15:16
Isopropylbenzene	ND		2.7	0.09	µg/Kg-dry	1	01/19/06 15:16
Methyl tert-butyl ether	ND		2.7	0.08	µg/Kg-dry	1	01/19/06 15:16
Methylene chloride	2.2 J		5.4	0.43	µg/Kg-dry	1	01/19/06 15:16
n-Butylbenzene	ND		2.7	0.13	µg/Kg-dry	1	01/19/06 15:16
n-Propylbenzene	ND		2.7	0.10	µg/Kg-dry	1	01/19/06 15:16
Naphthalene	1.3 J		5.4	0.40	µg/Kg-dry	1	01/19/06 15:16
p-Isopropyltoluene	ND		2.7	0.10	µg/Kg-dry	1	01/19/06 15:16
sec-Butylbenzene	ND		2.7	0.14	µg/Kg-dry	1	01/19/06 15:16
Styrene	ND		2.7	0.11	µg/Kg-dry	1	01/19/06 15:16
tert-Butylbenzene	ND		2.7	0.14	µg/Kg-dry	1	01/19/06 15:16
Tetrachloroethene	ND		2.7	0.15	µg/Kg-dry	1	01/19/06 15:16
Toluene	ND		2.7	0.13	µg/Kg-dry	1	01/19/06 15:16
trans-1,2-Dichloroethene	ND		2.7	0.11	µg/Kg-dry	1	01/19/06 15:16
trans-1,3-Dichloropropene	ND		2.7	0.10	µg/Kg-dry	1	01/19/06 15:16
Trichloroethene	ND		2.7	0.12	µg/Kg-dry	1	01/19/06 15:16
Trichlorofluoromethane	ND		5.4	0.09	µg/Kg-dry	1	01/19/06 15:16
Vinyl chloride	ND		5.4	0.09	µg/Kg-dry	1	01/19/06 15:16
Xylenes (total)	ND		5.4	0.20	µg/Kg-dry	1	01/19/06 15:16
Surr: 1,2-Dichloroethane-d4	87.6		71-128	0.14	%REC	1	01/19/06 15:16
Surr: 4-Bromofluorobenzene	63.0		59-125	0.10	%REC	1	01/19/06 15:16
Surr: Dibromofluoromethane	101		40-156	0.20	%REC	1	01/19/06 15:16
Surr: Toluene-d8	88.5		75-125	0.13	%REC	1	01/19/06 15:16

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 4.98 g

ColumnID: Rtx-VMS

%Moisture: 16.0

Revision: 01/20/06 10:08:39 A

TestCode: 8260S TAGML

Lab ID: 0601050-001A

Client Sample ID: BH-37

Collection Date: 01/11/06 8:30

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4228

FileID: I-SAMP-J8239.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.0	0.13	µg/Kg-dry	1		01/17/06 15:58
1,1,1-Trichloroethane	ND	3.0	0.12	µg/Kg-dry	1		01/17/06 15:58
1,1,2,2-Tetrachloroethane	ND	3.0	0.19	µg/Kg-dry	1		01/17/06 15:58
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.0	0.12	µg/Kg-dry	1		01/17/06 15:58
1,1,2-Trichloroethane	ND	3.0	0.13	µg/Kg-dry	1		01/17/06 15:58
1,1-Dichloroethane	ND	3.0	0.12	µg/Kg-dry	1		01/17/06 15:58
1,1-Dichloroethene	ND	3.0	0.17	µg/Kg-dry	1		01/17/06 15:58
1,1-Dichloropropene	ND	3.0	0.12	µg/Kg-dry	1		01/17/06 15:58
1,2,3-Trichlorobenzene	ND	6.0	0.60	µg/Kg-dry	1		01/17/06 15:58
1,2,3-Trichloropropane	ND	3.0	0.20	µg/Kg-dry	1		01/17/06 15:58
1,2,4-Trichlorobenzene	ND	6.0	0.40	µg/Kg-dry	1		01/17/06 15:58
1,2,4-Trimethylbenzene	ND	3.0	0.13	µg/Kg-dry	1		01/17/06 15:58
1,2-Dibromo-3-chloropropane	ND	6.0	0.48	µg/Kg-dry	1		01/17/06 15:58
1,2-Dibromoethane	ND	3.0	0.11	µg/Kg-dry	1		01/17/06 15:58
1,2-Dichlorobenzene	ND	3.0	0.11	µg/Kg-dry	1		01/17/06 15:58
1,2-Dichloroethane	ND	3.0	0.12	µg/Kg-dry	1		01/17/06 15:58
1,2-Dichloropropane	ND	3.0	0.10	µg/Kg-dry	1		01/17/06 15:58
1,3,5-Trimethylbenzene	ND	3.0	0.11	µg/Kg-dry	1		01/17/06 15:58
1,3-Dichlorobenzene	ND	3.0	0.12	µg/Kg-dry	1		01/17/06 15:58
1,3-Dichloropropane	ND	3.0	0.10	µg/Kg-dry	1		01/17/06 15:58
1,4-Dichlorobenzene	ND	3.0	0.15	µg/Kg-dry	1		01/17/06 15:58
2,2-Dichloropropane	ND	3.0	0.11	µg/Kg-dry	1		01/17/06 15:58
2-Butanone	ND	12	0.17	µg/Kg-dry	1		01/17/06 15:58
2-Chlorotoluene	ND	3.0	0.08	µg/Kg-dry	1		01/17/06 15:58
2-Hexanone	ND	6.0	0.26	µg/Kg-dry	1		01/17/06 15:58
4-Chlorotoluene	ND	3.0	0.19	µg/Kg-dry	1		01/17/06 15:58
4-Methyl-2-pentanone	ND	6.0	0.29	µg/Kg-dry	1		01/17/06 15:58
Acetone	2.9 J	12	0.46	µg/Kg-dry	1		01/17/06 15:58
Benzene	ND	3.0	0.11	µg/Kg-dry	1		01/17/06 15:58
Bromobenzene	ND	3.0	0.18	µg/Kg-dry	1		01/17/06 15:58
Bromochloromethane	ND	3.0	0.19	µg/Kg-dry	1		01/17/06 15:58
Bromodichloromethane	ND	3.0	0.10	µg/Kg-dry	1		01/17/06 15:58
Bromoform	ND	3.0	0.07	µg/Kg-dry	1		01/17/06 15:58
Bromomethane	ND	6.0	0.36	µg/Kg-dry	1		01/17/06 15:58

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:16

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 10:08:39 A

Sample Size: 4.98 g

%Moisture: 16.0

TestCode: 8260S TAGML

Lab ID: 0601050-001A

Client Sample ID: BH-37

Collection Date: 01/11/06 8:30

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8239.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	3.0	0.07	µg/Kg-dry	1		01/17/06 15:58
Carbon tetrachloride	ND	3.0	0.13	µg/Kg-dry	1		01/17/06 15:58
Chlorobenzene	ND	3.0	0.11	µg/Kg-dry	1		01/17/06 15:58
Chloroethane	ND	6.0	0.35	µg/Kg-dry	1		01/17/06 15:58
Chloroform	ND	3.0	0.05	µg/Kg-dry	1		01/17/06 15:58
Chloromethane	ND	6.0	0.45	µg/Kg-dry	1		01/17/06 15:58
cis-1,2-Dichloroethene	ND	3.0	0.13	µg/Kg-dry	1		01/17/06 15:58
cis-1,3-Dichloropropene	ND	3.0	0.11	µg/Kg-dry	1		01/17/06 15:58
Dibromochloromethane	ND	3.0	0.15	µg/Kg-dry	1		01/17/06 15:58
Dibromomethane	ND	3.0	0.13	µg/Kg-dry	1		01/17/06 15:58
Dichlorodifluoromethane	ND	6.0	0.10	µg/Kg-dry	1		01/17/06 15:58
Ethylbenzene	ND	3.0	0.12	µg/Kg-dry	1		01/17/06 15:58
Hexachlorobutadiene	ND	6.0	0.46	µg/Kg-dry	1		01/17/06 15:58
Isopropylbenzene	ND	3.0	0.10	µg/Kg-dry	1		01/17/06 15:58
Methyl tert-butyl ether	ND	3.0	0.08	µg/Kg-dry	1		01/17/06 15:58
Methylene chloride	ND	6.0	0.48	µg/Kg-dry	1		01/17/06 15:58
n-Butylbenzene	ND	3.0	0.14	µg/Kg-dry	1		01/17/06 15:58
n-Propylbenzene	ND	3.0	0.11	µg/Kg-dry	1		01/17/06 15:58
Naphthalene	ND	6.0	0.44	µg/Kg-dry	1		01/17/06 15:58
p-Isopropyltoluene	ND	3.0	0.11	µg/Kg-dry	1		01/17/06 15:58
sec-Butylbenzene	ND	3.0	0.15	µg/Kg-dry	1		01/17/06 15:58
Styrene	ND	3.0	0.12	µg/Kg-dry	1		01/17/06 15:58
tert-Butylbenzene	ND	3.0	0.15	µg/Kg-dry	1		01/17/06 15:58
Tetrachloroethene	ND	3.0	0.17	µg/Kg-dry	1		01/17/06 15:58
Toluene	ND	3.0	0.14	µg/Kg-dry	1		01/17/06 15:58
trans-1,2-Dichloroethene	ND	3.0	0.12	µg/Kg-dry	1		01/17/06 15:58
trans-1,3-Dichloropropene	ND	3.0	0.11	µg/Kg-dry	1		01/17/06 15:58
Trichloroethene	ND	3.0	0.13	µg/Kg-dry	1		01/17/06 15:58
Trichlorofluoromethane	ND	6.0	0.10	µg/Kg-dry	1		01/17/06 15:58
Vinyl chloride	ND	6.0	0.10	µg/Kg-dry	1		01/17/06 15:58
Xylenes (total)	ND	6.0	0.21	µg/Kg-dry	1		01/17/06 15:58
Surr: 1,2-Dichloroethane-d4	88.6	71-128	0.15	%REC	1		01/17/06 15:58
Surr: 4-Bromofluorobenzene	60.5	59-125	0.11	%REC	1		01/17/06 15:58
Surr: Dibromofluoromethane	104	40-156	0.21	%REC	1		01/17/06 15:58
Surr: Toluene-d8	88.3	75-125	0.14	%REC	1		01/17/06 15:58

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:16

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:03 A

Sample Size: 5 g

%Moisture: 16.0

TestCode: 8260S TAGML

Lab ID: 0601050-001A

Client Sample ID: BH-37

Collection Date: 01/11/06 8:30

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4263

FileID: 1-RA-J8278.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND		3.0	0.13	µg/Kg-dry	1	01/19/06 15:51
1,1,1-Trichloroethane	ND		3.0	0.12	µg/Kg-dry	1	01/19/06 15:51
1,1,2,2-Tetrachloroethane	ND		3.0	0.19	µg/Kg-dry	1	01/19/06 15:51
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0	0.12	µg/Kg-dry	1	01/19/06 15:51
1,1,2-Trichloroethane	ND		3.0	0.13	µg/Kg-dry	1	01/19/06 15:51
1,1-Dichloroethane	ND		3.0	0.12	µg/Kg-dry	1	01/19/06 15:51
1,1-Dichloroethene	ND		3.0	0.17	µg/Kg-dry	1	01/19/06 15:51
1,1-Dichloropropene	ND		3.0	0.12	µg/Kg-dry	1	01/19/06 15:51
1,2,3-Trichlorobenzene	ND		6.0	0.60	µg/Kg-dry	1	01/19/06 15:51
1,2,3-Trichloropropane	ND		3.0	0.20	µg/Kg-dry	1	01/19/06 15:51
1,2,4-Trichlorobenzene	ND		6.0	0.40	µg/Kg-dry	1	01/19/06 15:51
1,2,4-Trimethylbenzene	ND		3.0	0.13	µg/Kg-dry	1	01/19/06 15:51
1,2-Dibromo-3-chloropropane	ND		6.0	0.48	µg/Kg-dry	1	01/19/06 15:51
1,2-Dibromoethane	ND		3.0	0.11	µg/Kg-dry	1	01/19/06 15:51
1,2-Dichlorobenzene	ND		3.0	0.11	µg/Kg-dry	1	01/19/06 15:51
1,2-Dichloroethane	ND		3.0	0.12	µg/Kg-dry	1	01/19/06 15:51
1,2-Dichloropropane	ND		3.0	0.10	µg/Kg-dry	1	01/19/06 15:51
1,3,5-Trimethylbenzene	ND		3.0	0.11	µg/Kg-dry	1	01/19/06 15:51
1,3-Dichlorobenzene	ND		3.0	0.12	µg/Kg-dry	1	01/19/06 15:51
1,3-Dichloropropane	ND		3.0	0.10	µg/Kg-dry	1	01/19/06 15:51
1,4-Dichlorobenzene	ND		3.0	0.15	µg/Kg-dry	1	01/19/06 15:51
2,2-Dichloropropane	ND		3.0	0.11	µg/Kg-dry	1	01/19/06 15:51
2-Butanone	ND		12	0.17	µg/Kg-dry	1	01/19/06 15:51
2-Chlorotoluene	ND		3.0	0.08	µg/Kg-dry	1	01/19/06 15:51
2-Hexanone	ND		6.0	0.26	µg/Kg-dry	1	01/19/06 15:51
4-Chlorotoluene	ND		3.0	0.19	µg/Kg-dry	1	01/19/06 15:51
4-Methyl-2-pentanone	ND		6.0	0.29	µg/Kg-dry	1	01/19/06 15:51
Acetone	2.7 J		12	0.46	µg/Kg-dry	1	01/19/06 15:51
Benzene	ND		3.0	0.11	µg/Kg-dry	1	01/19/06 15:51
Bromobenzene	ND		3.0	0.18	µg/Kg-dry	1	01/19/06 15:51
Bromochloromethane	ND		3.0	0.19	µg/Kg-dry	1	01/19/06 15:51
Bromodichloromethane	ND		3.0	0.10	µg/Kg-dry	1	01/19/06 15:51
Bromoform	ND		3.0	0.07	µg/Kg-dry	1	01/19/06 15:51
Bromomethane	ND		6.0	0.36	µg/Kg-dry	1	01/19/06 15:51

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:16

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:03 A

Sample Size: 5 g

%Moisture: 16.0

TestCode: 8260S TAGML

Lab ID: 0601050-001A

Client Sample ID: BH-37

Collection Date: 01/11/06 8:30

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4263

FileID: 1-RA-J8278.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		3.0	0.07	µg/Kg-dry	1	01/19/06 15:51
Carbon tetrachloride	ND		3.0	0.13	µg/Kg-dry	1	01/19/06 15:51
Chlorobenzene	ND		3.0	0.11	µg/Kg-dry	1	01/19/06 15:51
Chloroethane	ND		6.0	0.35	µg/Kg-dry	1	01/19/06 15:51
Chloroform	ND		3.0	0.05	µg/Kg-dry	1	01/19/06 15:51
Chloromethane	ND		6.0	0.45	µg/Kg-dry	1	01/19/06 15:51
cis-1,2-Dichloroethene	ND		3.0	0.13	µg/Kg-dry	1	01/19/06 15:51
cis-1,3-Dichloropropene	ND		3.0	0.11	µg/Kg-dry	1	01/19/06 15:51
Dibromochloromethane	ND		3.0	0.15	µg/Kg-dry	1	01/19/06 15:51
Dibromomethane	ND		3.0	0.13	µg/Kg-dry	1	01/19/06 15:51
Dichlorodifluoromethane	ND		6.0	0.10	µg/Kg-dry	1	01/19/06 15:51
Ethylbenzene	ND		3.0	0.12	µg/Kg-dry	1	01/19/06 15:51
Hexachlorobutadiene	ND		6.0	0.46	µg/Kg-dry	1	01/19/06 15:51
Isopropylbenzene	ND		3.0	0.10	µg/Kg-dry	1	01/19/06 15:51
Methyl tert-butyl ether	ND		3.0	0.08	µg/Kg-dry	1	01/19/06 15:51
Methylene chloride	0.61 J		6.0	0.46	µg/Kg-dry	1	01/19/06 15:51
n-Butylbenzene	ND		3.0	0.14	µg/Kg-dry	1	01/19/06 15:51
n-Propylbenzene	ND		3.0	0.11	µg/Kg-dry	1	01/19/06 15:51
Naphthalene	ND		6.0	0.44	µg/Kg-dry	1	01/19/06 15:51
p-Isopropyltoluene	ND		3.0	0.11	µg/Kg-dry	1	01/19/06 15:51
sec-Butylbenzene	ND		3.0	0.15	µg/Kg-dry	1	01/19/06 15:51
Styrene	ND		3.0	0.12	µg/Kg-dry	1	01/19/06 15:51
tert-Butylbenzene	ND		3.0	0.15	µg/Kg-dry	1	01/19/06 15:51
Tetrachloroethene	ND		3.0	0.17	µg/Kg-dry	1	01/19/06 15:51
Toluene	ND		3.0	0.14	µg/Kg-dry	1	01/19/06 15:51
trans-1,2-Dichloroethene	ND		3.0	0.12	µg/Kg-dry	1	01/19/06 15:51
trans-1,3-Dichloropropene	ND		3.0	0.11	µg/Kg-dry	1	01/19/06 15:51
Trichloroethene	ND		3.0	0.13	µg/Kg-dry	1	01/19/06 15:51
Trichlorofluoromethane	ND		6.0	0.10	µg/Kg-dry	1	01/19/06 15:51
Vinyl chloride	ND		6.0	0.10	µg/Kg-dry	1	01/19/06 15:51
Xylenes (total)	ND		6.0	0.21	µg/Kg-dry	1	01/19/06 15:51
Surr: 1,2-Dichloroethane-d4	87.9		71-128	0.15	%REC	1	01/19/06 15:51
Surr: 4-Bromofluorobenzene	60.3		59-125	0.11	%REC	1	01/19/06 15:51
Surr: Dibromofluoromethane	102		40-156	0.21	%REC	1	01/19/06 15:51
Surr: Toluene-d8	87.9		75-125	0.14	%REC	1	01/19/06 15:51

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 10:08:39 A

Sample Size: 4.98 g

%Moisture: 18.3

TestCode: 8260S TAGML

Lab ID: 0601050-002A

Client Sample ID: BH-35-S

Collection Date: 01/11/06 8:55

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8240.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.1	0.13	µg/Kg-dry	1		01/17/06 16:33
1,1,1-Trichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 16:33
1,1,2,2-Tetrachloroethane	ND	3.1	0.20	µg/Kg-dry	1		01/17/06 16:33
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 16:33
1,1,2-Trichloroethane	ND	3.1	0.13	µg/Kg-dry	1		01/17/06 16:33
1,1-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 16:33
1,1-Dichloroethene	ND	3.1	0.17	µg/Kg-dry	1		01/17/06 16:33
1,1-Dichloropropene	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 16:33
1,2,3-Trichlorobenzene	ND	6.1	0.61	µg/Kg-dry	1		01/17/06 16:33
1,2,3-Trichloropropane	ND	3.1	0.21	µg/Kg-dry	1		01/17/06 16:33
1,2,4-Trichlorobenzene	ND	6.1	0.42	µg/Kg-dry	1		01/17/06 16:33
1,2,4-Trimethylbenzene	ND	3.1	0.13	µg/Kg-dry	1		01/17/06 16:33
1,2-Dibromo-3-chloropropane	ND	6.1	0.49	µg/Kg-dry	1		01/17/06 16:33
1,2-Dibromoethane	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 16:33
1,2-Dichlorobenzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 16:33
1,2-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 16:33
1,2-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/17/06 16:33
1,3,5-Trimethylbenzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 16:33
1,3-Dichlorobenzene	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 16:33
1,3-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/17/06 16:33
1,4-Dichlorobenzene	ND	3.1	0.16	µg/Kg-dry	1		01/17/06 16:33
2,2-Dichloropropane	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 16:33
2-Butanone	ND	12	0.17	µg/Kg-dry	1		01/17/06 16:33
2-Chlorotoluene	ND	3.1	0.09	µg/Kg-dry	1		01/17/06 16:33
2-Hexanone	ND	6.1	0.27	µg/Kg-dry	1		01/17/06 16:33
4-Chlorotoluene	ND	3.1	0.20	µg/Kg-dry	1		01/17/06 16:33
4-Methyl-2-pentanone	ND	6.1	0.29	µg/Kg-dry	1		01/17/06 16:33
Acetone	1.9 J	12	0.48	µg/Kg-dry	1		01/17/06 16:33
Benzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 16:33
Bromobenzene	ND	3.1	0.18	µg/Kg-dry	1		01/17/06 16:33
Bromochloromethane	ND	3.1	0.20	µg/Kg-dry	1		01/17/06 16:33
Bromodichloromethane	ND	3.1	0.10	µg/Kg-dry	1		01/17/06 16:33
Bromoform	ND	3.1	0.07	µg/Kg-dry	1		01/17/06 16:33
Bromomethane	ND	6.1	0.37	µg/Kg-dry	1		01/17/06 16:33

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:16

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 10:08:39 A

Sample Size: 4.98 g

%Moisture: 18.3

TestCode: 8260S TAGML

Lab ID: 0601050-002A

Client Sample ID: BH-35-S

Collection Date: 01/11/06 8:55

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8240.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	3.1	0.07	µg/Kg-dry	1		01/17/06 16:33
Carbon tetrachloride	ND	3.1	0.13	µg/Kg-dry	1		01/17/06 16:33
Chlorobenzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 16:33
Chloroethane	ND	6.1	0.35	µg/Kg-dry	1		01/17/06 16:33
Chloroform	ND	3.1	0.05	µg/Kg-dry	1		01/17/06 16:33
Chloromethane	ND	6.1	0.46	µg/Kg-dry	1		01/17/06 16:33
cis-1,2-Dichloroethene	ND	3.1	0.13	µg/Kg-dry	1		01/17/06 16:33
cis-1,3-Dichloropropene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 16:33
Dibromochloromethane	ND	3.1	0.16	µg/Kg-dry	1		01/17/06 16:33
Dibromomethane	ND	3.1	0.13	µg/Kg-dry	1		01/17/06 16:33
Dichlorodifluoromethane	ND	6.1	0.10	µg/Kg-dry	1		01/17/06 16:33
Ethylbenzene	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 16:33
Hexachlorobutadiene	ND	6.1	0.48	µg/Kg-dry	1		01/17/06 16:33
Isopropylbenzene	ND	3.1	0.10	µg/Kg-dry	1		01/17/06 16:33
Methyl tert-butyl ether	ND	3.1	0.09	µg/Kg-dry	1		01/17/06 16:33
Methylene chloride	ND	6.1	0.49	µg/Kg-dry	1		01/17/06 16:33
n-Butylbenzene	ND	3.1	0.15	µg/Kg-dry	1		01/17/06 16:33
n-Propylbenzene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 16:33
Naphthalene	ND	6.1	0.45	µg/Kg-dry	1		01/17/06 16:33
p-Isopropyltoluene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 16:33
sec-Butylbenzene	ND	3.1	0.16	µg/Kg-dry	1		01/17/06 16:33
Styrene	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 16:33
tert-Butylbenzene	ND	3.1	0.16	µg/Kg-dry	1		01/17/06 16:33
Tetrachloroethene	ND	3.1	0.17	µg/Kg-dry	1		01/17/06 16:33
Toluene	ND	3.1	0.15	µg/Kg-dry	1		01/17/06 16:33
trans-1,2-Dichloroethene	ND	3.1	0.12	µg/Kg-dry	1		01/17/06 16:33
trans-1,3-Dichloropropene	ND	3.1	0.11	µg/Kg-dry	1		01/17/06 16:33
Trichloroethene	ND	3.1	0.13	µg/Kg-dry	1		01/17/06 16:33
Trichlorofluoromethane	ND	6.1	0.10	µg/Kg-dry	1		01/17/06 16:33
Vinyl chloride	ND	6.1	0.10	µg/Kg-dry	1		01/17/06 16:33
Xylenes (total)	ND	6.1	0.22	µg/Kg-dry	1		01/17/06 16:33
Surr: 1,2-Dichloroethane-d4	87.6	71-128	0.16	%REC	1		01/17/06 16:33
Surr: 4-Bromofluorobenzene	63.5	59-125	0.11	%REC	1		01/17/06 16:33
Surr: Dibromofluoromethane	103	40-156	0.22	%REC	1		01/17/06 16:33
Surr: Toluene-d8	87.9	75-125	0.15	%REC	1		01/17/06 16:33

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 5.01 g

ColumnID: Rtx-VMS

%Moisture: 20.9

Revision: 01/20/06 10:08:39 A

TestCode: 8260S TAGML

Lab ID: 0601050-003A

Client Sample ID: BH-35-D

Collection Date: 01/11/06 9:05

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8241.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.2	0.14	µg/Kg-dry	1		01/17/06 17:08
1,1,1-Trichloroethane	ND	3.2	0.13	µg/Kg-dry	1		01/17/06 17:08
1,1,2,2-Tetrachloroethane	ND	3.2	0.20	µg/Kg-dry	1		01/17/06 17:08
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.2	0.13	µg/Kg-dry	1		01/17/06 17:08
1,1,2-Trichloroethane	ND	3.2	0.14	µg/Kg-dry	1		01/17/06 17:08
1,1-Dichloroethane	ND	3.2	0.13	µg/Kg-dry	1		01/17/06 17:08
1,1-Dichloroethene	ND	3.2	0.18	µg/Kg-dry	1		01/17/06 17:08
1,1-Dichloropropene	ND	3.2	0.13	µg/Kg-dry	1		01/17/06 17:08
1,2,3-Trichlorobenzene	ND	6.3	0.63	µg/Kg-dry	1		01/17/06 17:08
1,2,3-Trichloropropane	ND	3.2	0.22	µg/Kg-dry	1		01/17/06 17:08
1,2,4-Trichlorobenzene	ND	6.3	0.43	µg/Kg-dry	1		01/17/06 17:08
1,2,4-Trimethylbenzene	ND	3.2	0.14	µg/Kg-dry	1		01/17/06 17:08
1,2-Dibromo-3-chloropropane	ND	6.3	0.51	µg/Kg-dry	1		01/17/06 17:08
1,2-Dibromoethane	ND	3.2	0.11	µg/Kg-dry	1		01/17/06 17:08
1,2-Dichlorobenzene	ND	3.2	0.11	µg/Kg-dry	1		01/17/06 17:08
1,2-Dichloroethane	ND	3.2	0.13	µg/Kg-dry	1		01/17/06 17:08
1,2-Dichloropropane	ND	3.2	0.10	µg/Kg-dry	1		01/17/06 17:08
1,3,5-Trimethylbenzene	ND	3.2	0.11	µg/Kg-dry	1		01/17/06 17:08
1,3-Dichlorobenzene	ND	3.2	0.13	µg/Kg-dry	1		01/17/06 17:08
1,3-Dichloropropane	ND	3.2	0.10	µg/Kg-dry	1		01/17/06 17:08
1,4-Dichlorobenzene	ND	3.2	0.16	µg/Kg-dry	1		01/17/06 17:08
2,2-Dichloropropane	ND	3.2	0.11	µg/Kg-dry	1		01/17/06 17:08
2-Butanone	ND	13	0.18	µg/Kg-dry	1		01/17/06 17:08
2-Chlorotoluene	ND	3.2	0.09	µg/Kg-dry	1		01/17/06 17:08
2-Hexanone	ND	6.3	0.28	µg/Kg-dry	1		01/17/06 17:08
4-Chlorotoluene	ND	3.2	0.20	µg/Kg-dry	1		01/17/06 17:08
4-Methyl-2-pentanone	ND	6.3	0.30	µg/Kg-dry	1		01/17/06 17:08
Acetone	2.0 J	13	0.49	µg/Kg-dry	1		01/17/06 17:08
Benzene	ND	3.2	0.11	µg/Kg-dry	1		01/17/06 17:08
Bromobenzene	ND	3.2	0.19	µg/Kg-dry	1		01/17/06 17:08
Bromochloromethane	ND	3.2	0.20	µg/Kg-dry	1		01/17/06 17:08
Bromodichloromethane	ND	3.2	0.10	µg/Kg-dry	1		01/17/06 17:08
Bromoform	ND	3.2	0.08	µg/Kg-dry	1		01/17/06 17:08
Bromomethane	ND	6.3	0.38	µg/Kg-dry	1		01/17/06 17:08

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:16

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 5.01 g

ColumnID: Rtx-VMS

%Moisture: 20.9

Revision: 01/20/06 10:08:39 A

TestCode: 8260S TAGML

Lab ID: 0601050-003A

Client Sample ID: BH-35-D

Collection Date: 01/11/06 9:05

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8241.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	3.2	0.08	µg/Kg-dry	1		01/17/06 17:08
Carbon tetrachloride	ND	3.2	0.14	µg/Kg-dry	1		01/17/06 17:08
Chlorobenzene	ND	3.2	0.11	µg/Kg-dry	1		01/17/06 17:08
Chloroethane	ND	6.3	0.37	µg/Kg-dry	1		01/17/06 17:08
Chloroform	ND	3.2	0.05	µg/Kg-dry	1		01/17/06 17:08
Chloromethane	ND	6.3	0.48	µg/Kg-dry	1		01/17/06 17:08
cis-1,2-Dichloroethene	ND	3.2	0.14	µg/Kg-dry	1		01/17/06 17:08
cis-1,3-Dichloropropene	ND	3.2	0.11	µg/Kg-dry	1		01/17/06 17:08
Dibromochloromethane	ND	3.2	0.16	µg/Kg-dry	1		01/17/06 17:08
Dibromomethane	ND	3.2	0.14	µg/Kg-dry	1		01/17/06 17:08
Dichlorodifluoromethane	ND	6.3	0.10	µg/Kg-dry	1		01/17/06 17:08
Ethylbenzene	ND	3.2	0.13	µg/Kg-dry	1		01/17/06 17:08
Hexachlorobutadiene	ND	6.3	0.49	µg/Kg-dry	1		01/17/06 17:08
Isopropylbenzene	ND	3.2	0.10	µg/Kg-dry	1		01/17/06 17:08
Methyl tert-butyl ether	ND	3.2	0.09	µg/Kg-dry	1		01/17/06 17:08
Methylene chloride	ND	6.3	0.51	µg/Kg-dry	1		01/17/06 17:08
n-Butylbenzene	ND	3.2	0.15	µg/Kg-dry	1		01/17/06 17:08
n-Propylbenzene	ND	3.2	0.11	µg/Kg-dry	1		01/17/06 17:08
Naphthalene	ND	6.3	0.47	µg/Kg-dry	1		01/17/06 17:08
p-Isopropyltoluene	ND	3.2	0.11	µg/Kg-dry	1		01/17/06 17:08
sec-Butylbenzene	ND	3.2	0.16	µg/Kg-dry	1		01/17/06 17:08
Styrene	ND	3.2	0.13	µg/Kg-dry	1		01/17/06 17:08
tert-Butylbenzene	ND	3.2	0.16	µg/Kg-dry	1		01/17/06 17:08
Tetrachloroethene	ND	3.2	0.18	µg/Kg-dry	1		01/17/06 17:08
Toluene	ND	3.2	0.15	µg/Kg-dry	1		01/17/06 17:08
trans-1,2-Dichloroethene	ND	3.2	0.13	µg/Kg-dry	1		01/17/06 17:08
trans-1,3-Dichloropropene	ND	3.2	0.11	µg/Kg-dry	1		01/17/06 17:08
Trichloroethene	ND	3.2	0.14	µg/Kg-dry	1		01/17/06 17:08
Trichlorofluoromethane	ND	6.3	0.10	µg/Kg-dry	1		01/17/06 17:08
Vinyl chloride	ND	6.3	0.10	µg/Kg-dry	1		01/17/06 17:08
Xylenes (total)	ND	6.3	0.23	µg/Kg-dry	1		01/17/06 17:08
Surr: 1,2-Dichloroethane-d4	87.5	71-128	0.16	%REC	1		01/17/06 17:08
Surr: 4-Bromofluorobenzene	66.9	59-125	0.11	%REC	1		01/17/06 17:08
Surr: Dibromofluoromethane	101	40-156	0.23	%REC	1		01/17/06 17:08
Surr: Toluene-d8	90.7	75-125	0.15	%REC	1		01/17/06 17:08

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 4.98 g

ColumnID: Rtx-VMS

%Moisture: 3.9

Revision: 01/20/06 10:08:39 A

TestCode: 8260S TAGML

Lab ID: 0601050-004A

Client Sample ID: BH-36-S

Collection Date: 01/10/06 14:20

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8242.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.6	0.11	µg/Kg-dry	1		01/17/06 17:42
1,1,1-Trichloroethane	ND	2.6	0.10	µg/Kg-dry	1		01/17/06 17:42
1,1,2,2-Tetrachloroethane	ND	2.6	0.17	µg/Kg-dry	1		01/17/06 17:42
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.6	0.10	µg/Kg-dry	1		01/17/06 17:42
1,1,2-Trichloroethane	ND	2.6	0.11	µg/Kg-dry	1		01/17/06 17:42
1,1-Dichloroethane	ND	2.6	0.10	µg/Kg-dry	1		01/17/06 17:42
1,1-Dichloroethene	ND	2.6	0.15	µg/Kg-dry	1		01/17/06 17:42
1,1-Dichloropropene	ND	2.6	0.10	µg/Kg-dry	1		01/17/06 17:42
1,2,3-Trichlorobenzene	ND	5.2	0.52	µg/Kg-dry	1		01/17/06 17:42
1,2,3-Trichloropropane	ND	2.6	0.18	µg/Kg-dry	1		01/17/06 17:42
1,2,4-Trichlorobenzene	ND	5.2	0.35	µg/Kg-dry	1		01/17/06 17:42
1,2,4-Trimethylbenzene	ND	2.6	0.11	µg/Kg-dry	1		01/17/06 17:42
1,2-Dibromo-3-chloropropane	ND	5.2	0.42	µg/Kg-dry	1		01/17/06 17:42
1,2-Dibromoethane	ND	2.6	0.09	µg/Kg-dry	1		01/17/06 17:42
1,2-Dichlorobenzene	ND	2.6	0.09	µg/Kg-dry	1		01/17/06 17:42
1,2-Dichloroethane	ND	2.6	0.10	µg/Kg-dry	1		01/17/06 17:42
1,2-Dichloropropane	ND	2.6	0.08	µg/Kg-dry	1		01/17/06 17:42
1,3,5-Trimethylbenzene	ND	2.6	0.09	µg/Kg-dry	1		01/17/06 17:42
1,3-Dichlorobenzene	ND	2.6	0.10	µg/Kg-dry	1		01/17/06 17:42
1,3-Dichloropropane	ND	2.6	0.08	µg/Kg-dry	1		01/17/06 17:42
1,4-Dichlorobenzene	ND	2.6	0.14	µg/Kg-dry	1		01/17/06 17:42
2,2-Dichloropropane	ND	2.6	0.09	µg/Kg-dry	1		01/17/06 17:42
2-Butanone	ND	10	0.15	µg/Kg-dry	1		01/17/06 17:42
2-Chlorotoluene	ND	2.6	0.07	µg/Kg-dry	1		01/17/06 17:42
2-Hexanone	ND	5.2	0.23	µg/Kg-dry	1		01/17/06 17:42
4-Chlorotoluene	ND	2.6	0.17	µg/Kg-dry	1		01/17/06 17:42
4-Methyl-2-pentanone	ND	5.2	0.25	µg/Kg-dry	1		01/17/06 17:42
Acetone	1.6 J	10	0.41	µg/Kg-dry	1		01/17/06 17:42
Benzene	ND	2.6	0.09	µg/Kg-dry	1		01/17/06 17:42
Bromobenzene	ND	2.6	0.16	µg/Kg-dry	1		01/17/06 17:42
Bromochloromethane	ND	2.6	0.17	µg/Kg-dry	1		01/17/06 17:42
Bromodichloromethane	ND	2.6	0.08	µg/Kg-dry	1		01/17/06 17:42
Bromofom	ND	2.6	0.06	µg/Kg-dry	1		01/17/06 17:42
Bromomethane	ND	5.2	0.31	µg/Kg-dry	1		01/17/06 17:42

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:16

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 10:08:39 A

Sample Size: 4.98 g

%Moisture: 3.9

TestCode: 8260S TAGML

Lab ID: 0601050-004A

Client Sample ID: BH-36-S

Collection Date: 01/10/06 14:20

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8242.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		2.6	0.06	µg/Kg-dry	1	01/17/06 17:42
Carbon tetrachloride	ND		2.6	0.11	µg/Kg-dry	1	01/17/06 17:42
Chlorobenzene	ND		2.6	0.09	µg/Kg-dry	1	01/17/06 17:42
Chloroethane	ND		5.2	0.30	µg/Kg-dry	1	01/17/06 17:42
Chloroform	ND		2.6	0.04	µg/Kg-dry	1	01/17/06 17:42
Chloromethane	ND		5.2	0.40	µg/Kg-dry	1	01/17/06 17:42
cis-1,2-Dichloroethene	ND		2.6	0.11	µg/Kg-dry	1	01/17/06 17:42
cis-1,3-Dichloropropene	ND		2.6	0.09	µg/Kg-dry	1	01/17/06 17:42
Dibromochloromethane	ND		2.6	0.14	µg/Kg-dry	1	01/17/06 17:42
Dibromomethane	ND		2.6	0.11	µg/Kg-dry	1	01/17/06 17:42
Dichlorodifluoromethane	ND		5.2	0.08	µg/Kg-dry	1	01/17/06 17:42
Ethylbenzene	ND		2.6	0.10	µg/Kg-dry	1	01/17/06 17:42
Hexachlorobutadiene	ND		5.2	0.41	µg/Kg-dry	1	01/17/06 17:42
Isopropylbenzene	ND		2.6	0.08	µg/Kg-dry	1	01/17/06 17:42
Methyl tert-butyl ether	ND		2.6	0.07	µg/Kg-dry	1	01/17/06 17:42
Methylene chloride	1.1 J		5.2	0.42	µg/Kg-dry	1	01/17/06 17:42
n-Butylbenzene	ND		2.6	0.12	µg/Kg-dry	1	01/17/06 17:42
n-Propylbenzene	ND		2.6	0.09	µg/Kg-dry	1	01/17/06 17:42
Naphthalene	ND		5.2	0.39	µg/Kg-dry	1	01/17/06 17:42
p-Isopropyltoluene	ND		2.6	0.09	µg/Kg-dry	1	01/17/06 17:42
sec-Butylbenzene	ND		2.6	0.14	µg/Kg-dry	1	01/17/06 17:42
Styrene	ND		2.6	0.10	µg/Kg-dry	1	01/17/06 17:42
tert-Butylbenzene	ND		2.6	0.14	µg/Kg-dry	1	01/17/06 17:42
Tetrachloroethene	ND		2.6	0.15	µg/Kg-dry	1	01/17/06 17:42
Toluene	ND		2.6	0.12	µg/Kg-dry	1	01/17/06 17:42
trans-1,2-Dichloroethene	ND		2.6	0.10	µg/Kg-dry	1	01/17/06 17:42
trans-1,3-Dichloropropene	ND		2.6	0.09	µg/Kg-dry	1	01/17/06 17:42
Trichloroethene	ND		2.6	0.11	µg/Kg-dry	1	01/17/06 17:42
Trichlorofluoromethane	ND		5.2	0.08	µg/Kg-dry	1	01/17/06 17:42
Vinyl chloride	ND		5.2	0.08	µg/Kg-dry	1	01/17/06 17:42
Xylenes (total)	ND		5.2	0.19	µg/Kg-dry	1	01/17/06 17:42
Surr: 1,2-Dichloroethane-d4	89.9		71-128	0.14	%REC	1	01/17/06 17:42
Surr: 4-Bromofluorobenzene	56.7 S		59-125	0.09	%REC	1	01/17/06 17:42
Surr: Dibromofluoromethane	104		40-156	0.19	%REC	1	01/17/06 17:42
Surr: Toluene-d8	83.5		75-125	0.12	%REC	1	01/17/06 17:42

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 4.99 g

ColumnID: Rtx-VMS

%Moisture: 3.9

Revision: 01/20/06 9:58:03 A

TestCode: 8260S TAGML

Lab ID: 0601050-004A

Client Sample ID: BH-36-S

Collection Date: 01/10/06 14:20

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4263

FileID: I-RA-J8279.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.6	0.11	µg/Kg-dry	1		01/19/06 16:26
1,1,1-Trichloroethane	ND	2.6	0.10	µg/Kg-dry	1		01/19/06 16:26
1,1,2,2-Tetrachloroethane	ND	2.6	0.17	µg/Kg-dry	1		01/19/06 16:26
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.6	0.10	µg/Kg-dry	1		01/19/06 16:26
1,1,2-Trichloroethane	ND	2.6	0.11	µg/Kg-dry	1		01/19/06 16:26
1,1-Dichloroethane	ND	2.6	0.10	µg/Kg-dry	1		01/19/06 16:26
1,1-Dichloroethene	ND	2.6	0.15	µg/Kg-dry	1		01/19/06 16:26
1,1-Dichloropropene	ND	2.6	0.10	µg/Kg-dry	1		01/19/06 16:26
1,2,3-Trichlorobenzene	ND	5.2	0.52	µg/Kg-dry	1		01/19/06 16:26
1,2,3-Trichloropropane	ND	2.6	0.18	µg/Kg-dry	1		01/19/06 16:26
1,2,4-Trichlorobenzene	ND	5.2	0.35	µg/Kg-dry	1		01/19/06 16:26
1,2,4-Trimethylbenzene	ND	2.6	0.11	µg/Kg-dry	1		01/19/06 16:26
1,2-Dibromo-3-chloropropane	ND	5.2	0.42	µg/Kg-dry	1		01/19/06 16:26
1,2-Dibromoethane	ND	2.6	0.09	µg/Kg-dry	1		01/19/06 16:26
1,2-Dichlorobenzene	ND	2.6	0.09	µg/Kg-dry	1		01/19/06 16:26
1,2-Dichloroethane	ND	2.6	0.10	µg/Kg-dry	1		01/19/06 16:26
1,2-Dichloropropane	ND	2.6	0.08	µg/Kg-dry	1		01/19/06 16:26
1,3,5-Trimethylbenzene	ND	2.6	0.09	µg/Kg-dry	1		01/19/06 16:26
1,3-Dichlorobenzene	ND	2.6	0.10	µg/Kg-dry	1		01/19/06 16:26
1,3-Dichloropropane	ND	2.6	0.08	µg/Kg-dry	1		01/19/06 16:26
1,4-Dichlorobenzene	ND	2.6	0.14	µg/Kg-dry	1		01/19/06 16:26
2,2-Dichloropropane	ND	2.6	0.09	µg/Kg-dry	1		01/19/06 16:26
2-Butanone	ND	10	0.15	µg/Kg-dry	1		01/19/06 16:26
2-Chlorotoluene	ND	2.6	0.07	µg/Kg-dry	1		01/19/06 16:26
2-Hexanone	ND	5.2	0.23	µg/Kg-dry	1		01/19/06 16:26
4-Chlorotoluene	ND	2.6	0.17	µg/Kg-dry	1		01/19/06 16:26
4-Methyl-2-pentanone	ND	5.2	0.25	µg/Kg-dry	1		01/19/06 16:26
Acetone	1.2 J	10	0.41	µg/Kg-dry	1		01/19/06 16:26
Benzene	ND	2.6	0.09	µg/Kg-dry	1		01/19/06 16:26
Bromobenzene	ND	2.6	0.16	µg/Kg-dry	1		01/19/06 16:26
Bromochloromethane	ND	2.6	0.17	µg/Kg-dry	1		01/19/06 16:26
Bromodichloromethane	ND	2.6	0.08	µg/Kg-dry	1		01/19/06 16:26
Bromoform	ND	2.6	0.06	µg/Kg-dry	1		01/19/06 16:26
Bromomethane	ND	5.2	0.31	µg/Kg-dry	1		01/19/06 16:26

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 4.99 g

ColumnID: Rtx-VMS

%Moisture: 3.9

Revision: 01/20/06 9:58:03 A

TestCode: 8260S TAGML

Lab ID: 0601050-004A

Client Sample ID: BH-36-S

Collection Date: 01/10/06 14:20

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4263

FileID: 1-RA-J8279.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		2.6	0.06	µg/Kg-dry	1	01/19/06 16:26
Carbon tetrachloride	ND		2.6	0.11	µg/Kg-dry	1	01/19/06 16:26
Chlorobenzene	ND		2.6	0.09	µg/Kg-dry	1	01/19/06 16:26
Chloroethane	ND		5.2	0.30	µg/Kg-dry	1	01/19/06 16:26
Chloroform	ND		2.6	0.04	µg/Kg-dry	1	01/19/06 16:26
Chloromethane	ND		5.2	0.40	µg/Kg-dry	1	01/19/06 16:26
cis-1,2-Dichloroethene	ND		2.6	0.11	µg/Kg-dry	1	01/19/06 16:26
cis-1,3-Dichloropropene	ND		2.6	0.09	µg/Kg-dry	1	01/19/06 16:26
Dibromochloromethane	ND		2.6	0.14	µg/Kg-dry	1	01/19/06 16:26
Dibromomethane	ND		2.6	0.11	µg/Kg-dry	1	01/19/06 16:26
Dichlorodifluoromethane	ND		5.2	0.08	µg/Kg-dry	1	01/19/06 16:26
Ethylbenzene	ND		2.6	0.10	µg/Kg-dry	1	01/19/06 16:26
Hexachlorobutadiene	ND		5.2	0.41	µg/Kg-dry	1	01/19/06 16:26
Isopropylbenzene	ND		2.6	0.08	µg/Kg-dry	1	01/19/06 16:26
Methyl tert-butyl ether	ND		2.6	0.07	µg/Kg-dry	1	01/19/06 16:26
Methylene chloride	0.90	J	5.2	0.42	µg/Kg-dry	1	01/19/06 16:26
n-Butylbenzene	ND		2.6	0.12	µg/Kg-dry	1	01/19/06 16:26
n-Propylbenzene	ND		2.6	0.09	µg/Kg-dry	1	01/19/06 16:26
Naphthalene	ND		5.2	0.39	µg/Kg-dry	1	01/19/06 16:26
p-Isopropyltoluene	ND		2.6	0.09	µg/Kg-dry	1	01/19/06 16:26
sec-Butylbenzene	ND		2.6	0.14	µg/Kg-dry	1	01/19/06 16:26
Styrene	ND		2.6	0.10	µg/Kg-dry	1	01/19/06 16:26
tert-Butylbenzene	ND		2.6	0.14	µg/Kg-dry	1	01/19/06 16:26
Tetrachloroethene	ND		2.6	0.15	µg/Kg-dry	1	01/19/06 16:26
Toluene	ND		2.6	0.12	µg/Kg-dry	1	01/19/06 16:26
trans-1,2-Dichloroethene	ND		2.6	0.10	µg/Kg-dry	1	01/19/06 16:26
trans-1,3-Dichloropropene	ND		2.6	0.09	µg/Kg-dry	1	01/19/06 16:26
Trichloroethene	ND		2.6	0.11	µg/Kg-dry	1	01/19/06 16:26
Trichlorofluoromethane	ND		5.2	0.08	µg/Kg-dry	1	01/19/06 16:26
Vinyl chloride	ND		5.2	0.08	µg/Kg-dry	1	01/19/06 16:26
Xylenes (total)	ND		5.2	0.19	µg/Kg-dry	1	01/19/06 16:26
Surr: 1,2-Dichloroethane-d4	87.5		71-128	0.14	%REC	1	01/19/06 16:26
Surr: 4-Bromofluorobenzene	60.6		59-125	0.09	%REC	1	01/19/06 16:26
Surr: Dibromofluoromethane	100		40-156	0.19	%REC	1	01/19/06 16:26
Surr: Toluene-d8	86.0		75-125	0.12	%REC	1	01/19/06 16:26

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 10:08:39 A

Sample Size: 4.98 g

%Moisture: 12.9

TestCode: 8260S TAGML

Lab ID: 0601050-005A

Client Sample ID: BH-36-D

Collection Date: 01/10/06 14:30

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8243.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/17/06 18:17
1,1,1-Trichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 18:17
1,1,2,2-Tetrachloroethane	ND	2.9	0.18	µg/Kg-dry	1		01/17/06 18:17
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 18:17
1,1,2-Trichloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/17/06 18:17
1,1-Dichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 18:17
1,1-Dichloroethene	ND	2.9	0.16	µg/Kg-dry	1		01/17/06 18:17
1,1-Dichloropropene	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 18:17
1,2,3-Trichlorobenzene	ND	5.7	0.57	µg/Kg-dry	1		01/17/06 18:17
1,2,3-Trichloropropane	ND	2.9	0.20	µg/Kg-dry	1		01/17/06 18:17
1,2,4-Trichlorobenzene	ND	5.7	0.39	µg/Kg-dry	1		01/17/06 18:17
1,2,4-Trimethylbenzene	ND	2.9	0.13	µg/Kg-dry	1		01/17/06 18:17
1,2-Dibromo-3-chloropropane	ND	5.7	0.46	µg/Kg-dry	1		01/17/06 18:17
1,2-Dibromoethane	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 18:17
1,2-Dichlorobenzene	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 18:17
1,2-Dichloroethane	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 18:17
1,2-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/17/06 18:17
1,3,5-Trimethylbenzene	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 18:17
1,3-Dichlorobenzene	ND	2.9	0.11	µg/Kg-dry	1		01/17/06 18:17
1,3-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/17/06 18:17
1,4-Dichlorobenzene	ND	2.9	0.15	µg/Kg-dry	1		01/17/06 18:17
2,2-Dichloropropane	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 18:17
2-Butanone	ND	11	0.16	µg/Kg-dry	1		01/17/06 18:17
2-Chlorotoluene	ND	2.9	0.08	µg/Kg-dry	1		01/17/06 18:17
2-Hexanone	ND	5.7	0.25	µg/Kg-dry	1		01/17/06 18:17
4-Chlorotoluene	ND	2.9	0.18	µg/Kg-dry	1		01/17/06 18:17
4-Methyl-2-pentanone	ND	5.7	0.28	µg/Kg-dry	1		01/17/06 18:17
Acetone	2.4 J	11	0.45	µg/Kg-dry	1		01/17/06 18:17
Benzene	ND	2.9	0.10	µg/Kg-dry	1		01/17/06 18:17
Bromobenzene	ND	2.9	0.17	µg/Kg-dry	1		01/17/06 18:17
Bromochloromethane	ND	2.9	0.18	µg/Kg-dry	1		01/17/06 18:17
Bromodichloromethane	ND	2.9	0.09	µg/Kg-dry	1		01/17/06 18:17
Bromoform	ND	2.9	0.07	µg/Kg-dry	1		01/17/06 18:17
Bromomethane	ND	5.7	0.34	µg/Kg-dry	1		01/17/06 18:17

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 4.98 g

ColumnID: Rtx-VMS

%Moisture: 12.9

Revision: 01/20/06 10:08:39 A

TestCode: 8260S TAGML

Lab ID: 0601050-005A

Client Sample ID: BH-36-D

Collection Date: 01/10/06 14:30

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8243.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		2.9	0.07	µg/Kg-dry	1	01/17/06 18:17
Carbon tetrachloride	ND		2.9	0.13	µg/Kg-dry	1	01/17/06 18:17
Chlorobenzene	ND		2.9	0.10	µg/Kg-dry	1	01/17/06 18:17
Chloroethane	ND		5.7	0.33	µg/Kg-dry	1	01/17/06 18:17
Chloroform	ND		2.9	0.05	µg/Kg-dry	1	01/17/06 18:17
Chloromethane	ND		5.7	0.44	µg/Kg-dry	1	01/17/06 18:17
cis-1,2-Dichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/17/06 18:17
cis-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/17/06 18:17
Dibromochloromethane	ND		2.9	0.15	µg/Kg-dry	1	01/17/06 18:17
Dibromomethane	ND		2.9	0.13	µg/Kg-dry	1	01/17/06 18:17
Dichlorodifluoromethane	ND		5.7	0.09	µg/Kg-dry	1	01/17/06 18:17
Ethylbenzene	ND		2.9	0.11	µg/Kg-dry	1	01/17/06 18:17
Hexachlorobutadiene	ND		5.7	0.45	µg/Kg-dry	1	01/17/06 18:17
Isopropylbenzene	ND		2.9	0.09	µg/Kg-dry	1	01/17/06 18:17
Methyl tert-butyl ether	ND		2.9	0.08	µg/Kg-dry	1	01/17/06 18:17
Methylene chloride	0.91 J		5.7	0.46	µg/Kg-dry	1	01/17/06 18:17
n-Butylbenzene	ND		2.9	0.14	µg/Kg-dry	1	01/17/06 18:17
n-Propylbenzene	ND		2.9	0.10	µg/Kg-dry	1	01/17/06 18:17
Naphthalene	ND		5.7	0.42	µg/Kg-dry	1	01/17/06 18:17
p-Isopropyltoluene	ND		2.9	0.10	µg/Kg-dry	1	01/17/06 18:17
sec-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/17/06 18:17
Styrene	ND		2.9	0.11	µg/Kg-dry	1	01/17/06 18:17
tert-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/17/06 18:17
Tetrachloroethene	ND		2.9	0.16	µg/Kg-dry	1	01/17/06 18:17
Toluene	ND		2.9	0.14	µg/Kg-dry	1	01/17/06 18:17
trans-1,2-Dichloroethene	ND		2.9	0.11	µg/Kg-dry	1	01/17/06 18:17
trans-1,3-Dichloropropene	ND		2.9	0.10	µg/Kg-dry	1	01/17/06 18:17
Trichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/17/06 18:17
Trichlorofluoromethane	ND		5.7	0.09	µg/Kg-dry	1	01/17/06 18:17
Vinyl chloride	ND		5.7	0.09	µg/Kg-dry	1	01/17/06 18:17
Xylenes (total)	ND		5.7	0.21	µg/Kg-dry	1	01/17/06 18:17
Surr: 1,2-Dichloroethane-d4	88.2		71-128	0.15	%REC	1	01/17/06 18:17
Surr: 4-Bromofluorobenzene	64.1		59-125	0.10	%REC	1	01/17/06 18:17
Surr: Dibromofluoromethane	100		40-156	0.21	%REC	1	01/17/06 18:17
Surr: Toluene-d8	90.7		75-125	0.14	%REC	1	01/17/06 18:17

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:16

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: WATER

Inst. ID: MS03 10

Sample Size: 5 mL

ColumnID: Rtx-VMS

%Moisture:

Revision: 01/20/06 10:08:39 A

TestCode: 8260S TAGML

Lab ID: 0601050-006A

Client Sample ID: 1/10 EQUIP BLANK

Collection Date: 01/10/06 16:00

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8244.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.5	0.11	µg/Kg	1	01/17/06 18:52	
1,1,1-Trichloroethane	ND	2.5	0.10	µg/Kg	1	01/17/06 18:52	
1,1,2,2-Tetrachloroethane	ND	2.5	0.16	µg/Kg	1	01/17/06 18:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.5	0.10	µg/Kg	1	01/17/06 18:52	
1,1,2-Trichloroethane	ND	2.5	0.11	µg/Kg	1	01/17/06 18:52	
1,1-Dichloroethane	ND	2.5	0.10	µg/Kg	1	01/17/06 18:52	
1,1-Dichloroethene	ND	2.5	0.14	µg/Kg	1	01/17/06 18:52	
1,1-Dichloropropene	ND	2.5	0.10	µg/Kg	1	01/17/06 18:52	
1,2,3-Trichlorobenzene	ND	5.0	0.50	µg/Kg	1	01/17/06 18:52	
1,2,3-Trichloropropane	ND	2.5	0.17	µg/Kg	1	01/17/06 18:52	
1,2,4-Trichlorobenzene	ND	5.0	0.34	µg/Kg	1	01/17/06 18:52	
1,2,4-Trimethylbenzene	ND	2.5	0.11	µg/Kg	1	01/17/06 18:52	
1,2-Dibromo-3-chloropropane	ND	5.0	0.40	µg/Kg	1	01/17/06 18:52	
1,2-Dibromoethane	ND	2.5	0.09	µg/Kg	1	01/17/06 18:52	
1,2-Dichlorobenzene	ND	2.5	0.09	µg/Kg	1	01/17/06 18:52	
1,2-Dichloroethane	ND	2.5	0.10	µg/Kg	1	01/17/06 18:52	
1,2-Dichloropropane	ND	2.5	0.06	µg/Kg	1	01/17/06 18:52	
1,3,5-Trimethylbenzene	ND	2.5	0.09	µg/Kg	1	01/17/06 18:52	
1,3-Dichlorobenzene	ND	2.5	0.10	µg/Kg	1	01/17/06 18:52	
1,3-Dichloropropane	ND	2.5	0.08	µg/Kg	1	01/17/06 18:52	
1,4-Dichlorobenzene	ND	2.5	0.13	µg/Kg	1	01/17/06 18:52	
2,2-Dichloropropane	ND	2.5	0.09	µg/Kg	1	01/17/06 18:52	
2-Butanone	ND	10	0.14	µg/Kg	1	01/17/06 18:52	
2-Chlorotoluene	ND	2.5	0.07	µg/Kg	1	01/17/06 18:52	
2-Hexanone	ND	5.0	0.22	µg/Kg	1	01/17/06 18:52	
4-Chlorotoluene	ND	2.5	0.16	µg/Kg	1	01/17/06 18:52	
4-Methyl-2-pentanone	ND	5.0	0.24	µg/Kg	1	01/17/06 18:52	
Acetone	1.8 J	10	0.39	µg/Kg	1	01/17/06 18:52	
Benzene	ND	2.5	0.09	µg/Kg	1	01/17/06 18:52	
Bromobenzene	ND	2.5	0.15	µg/Kg	1	01/17/06 18:52	
Bromochloromethane	ND	2.5	0.16	µg/Kg	1	01/17/06 18:52	
Bromodichloromethane	ND	2.5	0.08	µg/Kg	1	01/17/06 18:52	
Bromoform	ND	2.5	0.06	µg/Kg	1	01/17/06 18:52	
Bromomethane	ND	5.0	0.30	µg/Kg	1	01/17/06 18:52	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:16

Project Supervisor: Thomas A. Alexander

**Life Science Laboratories, Inc.**

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.**Project:** Geneva Foundry**W Order:** 0601050**Matrix:** WATER**Inst. ID:** MS03 10**Sample Size:** 5 mL**ColumnID:** Rtx-VMS**%Moisture:****Revision:** 01/20/06 10:08:39 A**TestCode:** 8260S TAGML**Lab ID:** 0601050-006A**Client Sample ID:** 1/10 EQUIP BLANK**Collection Date:** 01/10/06 16:00**Date Received:** 01/12/06 0:00**PrepDate:****BatchNo:** R4228**FileID:** 1-SAMP-J8244.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	2.5	0.06	µg/Kg	1		01/17/06 18:52
Carbon tetrachloride	ND	2.5	0.11	µg/Kg	1		01/17/06 18:52
Chlorobenzene	ND	2.5	0.09	µg/Kg	1		01/17/06 18:52
Chloroethane	ND	5.0	0.29	µg/Kg	1		01/17/06 18:52
Chloroform	ND	2.5	0.04	µg/Kg	1		01/17/06 18:52
Chloromethane	ND	5.0	0.38	µg/Kg	1		01/17/06 18:52
cis-1,2-Dichloroethene	ND	2.5	0.11	µg/Kg	1		01/17/06 18:52
cis-1,3-Dichloropropene	ND	2.5	0.09	µg/Kg	1		01/17/06 18:52
Dibromochloromethane	ND	2.5	0.13	µg/Kg	1		01/17/06 18:52
Dibromomethane	ND	2.5	0.11	µg/Kg	1		01/17/06 18:52
Dichlorodifluoromethane	ND	5.0	0.08	µg/Kg	1		01/17/06 18:52
Ethylbenzene	ND	2.5	0.10	µg/Kg	1		01/17/06 18:52
Hexachlorobutadiene	ND	5.0	0.39	µg/Kg	1		01/17/06 18:52
Isopropylbenzene	ND	2.5	0.08	µg/Kg	1		01/17/06 18:52
Methyl tert-butyl ether	ND	2.5	0.07	µg/Kg	1		01/17/06 18:52
Methylene chloride	0.61 J	5.0	0.40	µg/Kg	1		01/17/06 18:52
n-Butylbenzene	ND	2.5	0.12	µg/Kg	1		01/17/06 18:52
n-Propylbenzene	ND	2.5	0.09	µg/Kg	1		01/17/06 18:52
Naphthalene	ND	5.0	0.37	µg/Kg	1		01/17/06 18:52
p-Isopropyltoluene	ND	2.5	0.09	µg/Kg	1		01/17/06 18:52
sec-Butylbenzene	ND	2.5	0.13	µg/Kg	1		01/17/06 18:52
Styrene	ND	2.5	0.10	µg/Kg	1		01/17/06 18:52
tert-Butylbenzene	ND	2.5	0.13	µg/Kg	1		01/17/06 18:52
Tetrachloroethene	ND	2.5	0.14	µg/Kg	1		01/17/06 18:52
Toluene	ND	2.5	0.12	µg/Kg	1		01/17/06 18:52
trans-1,2-Dichloroethene	ND	2.5	0.10	µg/Kg	1		01/17/06 18:52
trans-1,3-Dichloropropene	ND	2.5	0.09	µg/Kg	1		01/17/06 18:52
Trichloroethene	ND	2.5	0.11	µg/Kg	1		01/17/06 18:52
Trichlorofluoromethane	ND	5.0	0.08	µg/Kg	1		01/17/06 18:52
Vinyl chloride	ND	5.0	0.08	µg/Kg	1		01/17/06 18:52
Xylenes (total)	ND	5.0	0.18	µg/Kg	1		01/17/06 18:52
Surr: 1,2-Dichloroethane-d4	87.9	71-128	0.13	%REC	1		01/17/06 18:52
Surr: 4-Bromofluorobenzene	85.7	59-125	0.09	%REC	1		01/17/06 18:52
Surr: Dibromofluoromethane	99.9	40-156	0.18	%REC	1		01/17/06 18:52
Surr: Toluene-d8	94.0	75-125	0.12	%REC	1		01/17/06 18:52

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:16

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: WATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 10:08:39 A

Sample Size: 5 mL

%Moisture:

TestCode: 8260S TAGML

Lab ID: 0601050-007A

Client Sample ID: 1/11 EQUIP BLANK

Collection Date: 01/11/06 16:00

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8245.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.5	0.11	µg/Kg	1		01/17/06 19:27
1,1,1-Trichloroethane	ND	2.5	0.10	µg/Kg	1		01/17/06 19:27
1,1,2,2-Tetrachloroethane	ND	2.5	0.16	µg/Kg	1		01/17/06 19:27
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.5	0.10	µg/Kg	1		01/17/06 19:27
1,1,2-Trichloroethane	ND	2.5	0.11	µg/Kg	1		01/17/06 19:27
1,1-Dichloroethane	ND	2.5	0.10	µg/Kg	1		01/17/06 19:27
1,1-Dichloroethene	ND	2.5	0.14	µg/Kg	1		01/17/06 19:27
1,1-Dichloropropene	ND	2.5	0.10	µg/Kg	1		01/17/06 19:27
1,2,3-Trichlorobenzene	ND	5.0	0.50	µg/Kg	1		01/17/06 19:27
1,2,3-Trichloropropane	ND	2.5	0.17	µg/Kg	1		01/17/06 19:27
1,2,4-Trichlorobenzene	ND	5.0	0.34	µg/Kg	1		01/17/06 19:27
1,2,4-Trimethylbenzene	ND	2.5	0.11	µg/Kg	1		01/17/06 19:27
1,2-Dibromo-3-chloropropane	ND	5.0	0.40	µg/Kg	1		01/17/06 19:27
1,2-Dibromoethane	ND	2.5	0.09	µg/Kg	1		01/17/06 19:27
1,2-Dichlorobenzene	ND	2.5	0.09	µg/Kg	1		01/17/06 19:27
1,2-Dichloroethane	ND	2.5	0.10	µg/Kg	1		01/17/06 19:27
1,2-Dichloropropane	ND	2.5	0.08	µg/Kg	1		01/17/06 19:27
1,3,5-Trimethylbenzene	ND	2.5	0.09	µg/Kg	1		01/17/06 19:27
1,3-Dichlorobenzene	ND	2.5	0.10	µg/Kg	1		01/17/06 19:27
1,3-Dichloropropane	ND	2.5	0.08	µg/Kg	1		01/17/06 19:27
1,4-Dichlorobenzene	ND	2.5	0.13	µg/Kg	1		01/17/06 19:27
2,2-Dichloropropane	ND	2.5	0.09	µg/Kg	1		01/17/06 19:27
2-Butanone	ND	10	0.14	µg/Kg	1		01/17/06 19:27
2-Chlorotoluene	ND	2.5	0.07	µg/Kg	1		01/17/06 19:27
2-Hexanone	ND	5.0	0.22	µg/Kg	1		01/17/06 19:27
4-Chlorotoluene	ND	2.5	0.16	µg/Kg	1		01/17/06 19:27
4-Methyl-2-pentanone	ND	5.0	0.24	µg/Kg	1		01/17/06 19:27
Acetone	1.8 J	10	0.39	µg/Kg	1		01/17/06 19:27
Benzene	ND	2.5	0.09	µg/Kg	1		01/17/06 19:27
Bromobenzene	ND	2.5	0.15	µg/Kg	1		01/17/06 19:27
Bromochloromethane	ND	2.5	0.16	µg/Kg	1		01/17/06 19:27
Bromodichloromethane	ND	2.5	0.08	µg/Kg	1		01/17/06 19:27
Bromoform	ND	2.5	0.06	µg/Kg	1		01/17/06 19:27
Bromomethane	ND	5.0	0.30	µg/Kg	1		01/17/06 19:27

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: WATER

Inst. ID: MS03 10

Sample Size: 5 mL

ColumnID: Rtx-VMS

%Moisture:

Revision: 01/20/06 10:08:39 A

TestCode: 8260S TAGML

Lab ID: 0601050-007A

Client Sample ID: 1/11 EQUIP BLANK

Collection Date: 01/11/06 16:00

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4228

FileID: 1-SAMP-J8245.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	2.5	0.06	µg/Kg	1	01/17/06 19:27	
Carbon tetrachloride	ND	2.5	0.11	µg/Kg	1	01/17/06 19:27	
Chlorobenzene	ND	2.5	0.09	µg/Kg	1	01/17/06 19:27	
Chloroethane	ND	5.0	0.29	µg/Kg	1	01/17/06 19:27	
Chloroform	ND	2.5	0.04	µg/Kg	1	01/17/06 19:27	
Chloromethane	ND	5.0	0.38	µg/Kg	1	01/17/06 19:27	
cis-1,2-Dichloroethene	ND	2.5	0.11	µg/Kg	1	01/17/06 19:27	
cis-1,3-Dichloropropene	ND	2.5	0.09	µg/Kg	1	01/17/06 19:27	
Dibromochloromethane	ND	2.5	0.13	µg/Kg	1	01/17/06 19:27	
Dibromomethane	ND	2.5	0.11	µg/Kg	1	01/17/06 19:27	
Dichlorodifluoromethane	ND	5.0	0.08	µg/Kg	1	01/17/06 19:27	
Ethylbenzene	ND	2.5	0.10	µg/Kg	1	01/17/06 19:27	
Hexachlorobutadiene	ND	5.0	0.39	µg/Kg	1	01/17/06 19:27	
Isopropylbenzene	ND	2.5	0.08	µg/Kg	1	01/17/06 19:27	
Methyl tert-butyl ether	ND	2.5	0.07	µg/Kg	1	01/17/06 19:27	
Methylene chloride	0.62 J	5.0	0.40	µg/Kg	1	01/17/06 19:27	
n-Butylbenzene	ND	2.5	0.12	µg/Kg	1	01/17/06 19:27	
n-Propylbenzene	ND	2.5	0.09	µg/Kg	1	01/17/06 19:27	
Naphthalene	ND	5.0	0.37	µg/Kg	1	01/17/06 19:27	
p-Isopropyltoluene	ND	2.5	0.09	µg/Kg	1	01/17/06 19:27	
sec-Butylbenzene	ND	2.5	0.13	µg/Kg	1	01/17/06 19:27	
Styrene	ND	2.5	0.10	µg/Kg	1	01/17/06 19:27	
tert-Butylbenzene	ND	2.5	0.13	µg/Kg	1	01/17/06 19:27	
Tetrachloroethene	ND	2.5	0.14	µg/Kg	1	01/17/06 19:27	
Toluene	ND	2.5	0.12	µg/Kg	1	01/17/06 19:27	
trans-1,2-Dichloroethene	ND	2.5	0.10	µg/Kg	1	01/17/06 19:27	
trans-1,3-Dichloropropene	ND	2.5	0.09	µg/Kg	1	01/17/06 19:27	
Trichloroethene	ND	2.5	0.11	µg/Kg	1	01/17/06 19:27	
Trichlorofluoromethane	ND	5.0	0.08	µg/Kg	1	01/17/06 19:27	
Vinyl chloride	ND	5.0	0.08	µg/Kg	1	01/17/06 19:27	
Xylenes (total)	ND	5.0	0.18	µg/Kg	1	01/17/06 19:27	
Sum: 1,2-Dichloroethane-d4	86.7	71-128	0.13	%REC	1	01/17/06 19:27	
Sum: 4-Bromofluorobenzene	81.3	59-125	0.09	%REC	1	01/17/06 19:27	
Sum: Dibromofluoromethane	99.1	40-156	0.18	%REC	1	01/17/06 19:27	
Sum: Toluene-d8	93.3	75-125	0.12	%REC	1	01/17/06 19:27	

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:16

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: WATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 5 mL

%Moisture:

TestCode: 8260S TAGML

Lab ID: 0601050-008A

Client Sample ID: TRIP BLANK

Collection Date: 01/10/06 0:00

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4249

FileID: 1-SAMP-J8252.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.5	0.11	µg/Kg	1	01/18/06 11:18	
1,1,1-Trichloroethane	ND	2.5	0.10	µg/Kg	1	01/18/06 11:18	
1,1,2,2-Tetrachloroethane	ND	2.5	0.16	µg/Kg	1	01/18/06 11:18	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.5	0.10	µg/Kg	1	01/18/06 11:18	
1,1,2-Trichloroethane	ND	2.5	0.11	µg/Kg	1	01/18/06 11:18	
1,1-Dichloroethane	ND	2.5	0.10	µg/Kg	1	01/18/06 11:18	
1,1-Dichloroethene	ND	2.5	0.14	µg/Kg	1	01/18/06 11:18	
1,1-Dichloropropene	ND	2.5	0.10	µg/Kg	1	01/18/06 11:18	
1,2,3-Trichlorobenzene	ND	5.0	0.50	µg/Kg	1	01/18/06 11:18	
1,2,3-Trichloropropane	ND	2.5	0.17	µg/Kg	1	01/18/06 11:18	
1,2,4-Trichlorobenzene	ND	5.0	0.34	µg/Kg	1	01/18/06 11:18	
1,2,4-Trimethylbenzene	ND	2.5	0.11	µg/Kg	1	01/18/06 11:18	
1,2-Dibromo-3-chloropropane	ND	5.0	0.40	µg/Kg	1	01/18/06 11:18	
1,2-Dibromoethane	ND	2.5	0.09	µg/Kg	1	01/18/06 11:18	
1,2-Dichlorobenzene	ND	2.5	0.09	µg/Kg	1	01/18/06 11:18	
1,2-Dichloroethane	ND	2.5	0.10	µg/Kg	1	01/18/06 11:18	
1,2-Dichloropropane	ND	2.5	0.08	µg/Kg	1	01/18/06 11:18	
1,3,5-Trimethylbenzene	ND	2.5	0.09	µg/Kg	1	01/18/06 11:18	
1,3-Dichlorobenzene	ND	2.5	0.10	µg/Kg	1	01/18/06 11:18	
1,3-Dichloropropane	ND	2.5	0.08	µg/Kg	1	01/18/06 11:18	
1,4-Dichlorobenzene	ND	2.5	0.13	µg/Kg	1	01/18/06 11:18	
2,2-Dichloropropane	ND	2.5	0.09	µg/Kg	1	01/18/06 11:18	
2-Butanone	ND	10	0.14	µg/Kg	1	01/18/06 11:18	
2-Chlorotoluene	ND	2.5	0.07	µg/Kg	1	01/18/06 11:18	
2-Hexanone	ND	5.0	0.22	µg/Kg	1	01/18/06 11:18	
4-Chlorotoluene	ND	2.5	0.16	µg/Kg	1	01/18/06 11:18	
4-Methyl-2-pentanone	ND	5.0	0.24	µg/Kg	1	01/18/06 11:18	
Acetone	1.9 J	10	0.39	µg/Kg	1	01/18/06 11:18	
Benzene	ND	2.5	0.09	µg/Kg	1	01/18/06 11:18	
Bromobenzene	ND	2.5	0.15	µg/Kg	1	01/18/06 11:18	
Bromochloromethane	ND	2.5	0.16	µg/Kg	1	01/18/06 11:18	
Bromodichloromethane	ND	2.5	0.08	µg/Kg	1	01/18/06 11:18	
Bromoform	ND	2.5	0.06	µg/Kg	1	01/18/06 11:18	
Bromomethane	ND	5.0	0.30	µg/Kg	1	01/18/06 11:18	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:16

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: WATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 5 mL

%Moisture:

TestCode: 8260S TAGML

Lab ID: 0601050-008A

Client Sample ID: TRIP BLANK

Collection Date: 01/10/06 0:00

Date Received: 01/12/06 0:00

PrepDate:

BatchNo: R4249

FileID: 1-SAMP-J8252.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	2.5	0.06	µg/Kg	1		01/18/06 11:18
Carbon tetrachloride	ND	2.5	0.11	µg/Kg	1		01/18/06 11:18
Chlorobenzene	ND	2.5	0.09	µg/Kg	1		01/18/06 11:18
Chloroethane	ND	5.0	0.29	µg/Kg	1		01/18/06 11:18
Chloroform	ND	2.5	0.04	µg/Kg	1		01/18/06 11:18
Chloromethane	ND	5.0	0.38	µg/Kg	1		01/18/06 11:18
cis-1,2-Dichloroethene	ND	2.5	0.11	µg/Kg	1		01/18/06 11:18
cis-1,3-Dichloropropene	ND	2.5	0.09	µg/Kg	1		01/18/06 11:18
Dibromochloromethane	ND	2.5	0.13	µg/Kg	1		01/18/06 11:18
Dibromomethane	ND	2.5	0.11	µg/Kg	1		01/18/06 11:18
Dichlorodifluoromethane	ND	5.0	0.08	µg/Kg	1		01/18/06 11:18
Ethylbenzene	ND	2.5	0.10	µg/Kg	1		01/18/06 11:18
Hexachlorobutadiene	ND	5.0	0.39	µg/Kg	1		01/18/06 11:18
Isopropylbenzene	ND	2.5	0.08	µg/Kg	1		01/18/06 11:18
Methyl tert-butyl ether	ND	2.5	0.07	µg/Kg	1		01/18/06 11:18
Methylene chloride	ND	5.0	0.40	µg/Kg	1		01/18/06 11:18
n-Butylbenzene	ND	2.5	0.12	µg/Kg	1		01/18/06 11:18
n-Propylbenzene	ND	2.5	0.09	µg/Kg	1		01/18/06 11:18
Naphthalene	ND	5.0	0.37	µg/Kg	1		01/18/06 11:18
p-Isopropyltoluene	ND	2.5	0.09	µg/Kg	1		01/18/06 11:18
sec-Butylbenzene	ND	2.5	0.13	µg/Kg	1		01/18/06 11:18
Styrene	ND	2.5	0.10	µg/Kg	1		01/18/06 11:18
tert-Butylbenzene	ND	2.5	0.13	µg/Kg	1		01/18/06 11:18
Tetrachloroethene	ND	2.5	0.14	µg/Kg	1		01/18/06 11:18
Toluene	ND	2.5	0.12	µg/Kg	1		01/18/06 11:18
trans-1,2-Dichloroethene	ND	2.5	0.10	µg/Kg	1		01/18/06 11:18
trans-1,3-Dichloropropene	ND	2.5	0.09	µg/Kg	1		01/18/06 11:18
Trichloroethene	ND	2.5	0.11	µg/Kg	1		01/18/06 11:18
Trichlorofluoromethane	ND	5.0	0.08	µg/Kg	1		01/18/06 11:18
Vinyl chloride	ND	5.0	0.08	µg/Kg	1		01/18/06 11:18
Xylenes (total)	ND	5.0	0.18	µg/Kg	1		01/18/06 11:18
Surr: 1,2-Dichloroethane-d4	84.1	71-128	0.13	%REC	1		01/18/06 11:18
Surr: 4-Bromofluorobenzene	81.0	59-125	0.09	%REC	1		01/18/06 11:18
Surr: Dibromofluoromethane	97.2	40-156	0.18	%REC	1		01/18/06 11:18
Surr: Toluene-d8	91.9	75-125	0.12	%REC	1		01/18/06 11:18

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:16

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 4.98 g

ColumnID: Rtx-VMS

%Moisture: 20.8

Revision: 01/19/06 2:30:18 P

TestCode: 8260S TAGML

Lab ID: 0601060-001A

Client Sample ID: BH-30-S

Collection Date: 01/11/06 16:35

Date Received: 01/12/06 15:35

PrepDate:

BatchNo: R4249

FileID: 1-SAMP-J8255.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND		3.2	0.14	µg/Kg-dry	1	01/18/06 13:03
1,1,1-Trichloroethane	ND		3.2	0.13	µg/Kg-dry	1	01/18/06 13:03
1,1,2,2-Tetrachloroethane	ND		3.2	0.20	µg/Kg-dry	1	01/18/06 13:03
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.2	0.13	µg/Kg-dry	1	01/18/06 13:03
1,1,2-Trichloroethane	ND		3.2	0.14	µg/Kg-dry	1	01/18/06 13:03
1,1-Dichloroethane	ND		3.2	0.13	µg/Kg-dry	1	01/18/06 13:03
1,1-Dichloroethene	ND		3.2	0.18	µg/Kg-dry	1	01/18/06 13:03
1,1-Dichloropropene	ND		3.2	0.13	µg/Kg-dry	1	01/18/06 13:03
1,2,3-Trichlorobenzene	ND		6.3	0.63	µg/Kg-dry	1	01/18/06 13:03
1,2,3-Trichloropropane	ND		3.2	0.21	µg/Kg-dry	1	01/18/06 13:03
1,2,4-Trichlorobenzene	ND		6.3	0.43	µg/Kg-dry	1	01/18/06 13:03
1,2,4-Trimethylbenzene	ND		3.2	0.14	µg/Kg-dry	1	01/18/06 13:03
1,2-Dibromo-3-chloropropane	ND		6.3	0.51	µg/Kg-dry	1	01/18/06 13:03
1,2-Dibromoethane	ND		3.2	0.11	µg/Kg-dry	1	01/18/06 13:03
1,2-Dichlorobenzene	ND		3.2	0.11	µg/Kg-dry	1	01/18/06 13:03
1,2-Dichloroethane	ND		3.2	0.13	µg/Kg-dry	1	01/18/06 13:03
1,2-Dichloropropane	ND		3.2	0.10	µg/Kg-dry	1	01/18/06 13:03
1,3,5-Trimethylbenzene	ND		3.2	0.11	µg/Kg-dry	1	01/18/06 13:03
1,3-Dichlorobenzene	ND		3.2	0.13	µg/Kg-dry	1	01/18/06 13:03
1,3-Dichloropropane	ND		3.2	0.10	µg/Kg-dry	1	01/18/06 13:03
1,4-Dichlorobenzene	ND		3.2	0.16	µg/Kg-dry	1	01/18/06 13:03
2,2-Dichloropropane	ND		3.2	0.11	µg/Kg-dry	1	01/18/06 13:03
2-Butanone	ND		13	0.18	µg/Kg-dry	1	01/18/06 13:03
2-Chlorotoluene	ND		3.2	0.09	µg/Kg-dry	1	01/18/06 13:03
2-Hexanone	ND		6.3	0.28	µg/Kg-dry	1	01/18/06 13:03
4-Chlorotoluene	ND		3.2	0.20	µg/Kg-dry	1	01/18/06 13:03
4-Methyl-2-pentanone	ND		6.3	0.30	µg/Kg-dry	1	01/18/06 13:03
Acetone	2.9 J		13	0.49	µg/Kg-dry	1	01/18/06 13:03
Benzene	ND		3.2	0.11	µg/Kg-dry	1	01/18/06 13:03
Bromobenzene	ND		3.2	0.19	µg/Kg-dry	1	01/18/06 13:03
Bromochloromethane	ND		3.2	0.20	µg/Kg-dry	1	01/18/06 13:03
Bromodichloromethane	ND		3.2	0.10	µg/Kg-dry	1	01/18/06 13:03
Bromoform	ND		3.2	0.08	µg/Kg-dry	1	01/18/06 13:03
Bromomethane	ND		6.3	0.38	µg/Kg-dry	1	01/18/06 13:03

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 4.98 g

%Moisture: 20.8

TestCode: 8260S TAGML

Lab ID: 0601060-001A

Client Sample ID: BH-30-S

Collection Date: 01/11/06 16:35

Date Received: 01/12/06 15:35

PrepDate:

BatchNo: R4249

FileID: 1-SAMP-J8255.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	1.9 J	3.2	0.08	µg/Kg-dry	1		01/18/06 13:03
Carbon tetrachloride	ND	3.2	0.14	µg/Kg-dry	1		01/18/06 13:03
Chlorobenzene	ND	3.2	0.11	µg/Kg-dry	1		01/18/06 13:03
Chloroethane	ND	6.3	0.37	µg/Kg-dry	1		01/18/06 13:03
Chloroform	ND	3.2	0.05	µg/Kg-dry	1		01/18/06 13:03
Chloromethane	ND	6.3	0.48	µg/Kg-dry	1		01/18/06 13:03
cis-1,2-Dichloroethene	ND	3.2	0.14	µg/Kg-dry	1		01/18/06 13:03
cis-1,3-Dichloropropene	ND	3.2	0.11	µg/Kg-dry	1		01/18/06 13:03
Dibromochloromethane	ND	3.2	0.16	µg/Kg-dry	1		01/18/06 13:03
Dibromomethane	ND	3.2	0.14	µg/Kg-dry	1		01/18/06 13:03
Dichlorodifluoromethane	ND	6.3	0.10	µg/Kg-dry	1		01/18/06 13:03
Ethylbenzene	ND	3.2	0.13	µg/Kg-dry	1		01/18/06 13:03
Hexachlorobutadiene	ND	6.3	0.49	µg/Kg-dry	1		01/18/06 13:03
Isopropylbenzene	ND	3.2	0.10	µg/Kg-dry	1		01/18/06 13:03
Methyl tert-butyl ether	ND	3.2	0.09	µg/Kg-dry	1		01/18/06 13:03
Methylene chloride	5.1 J	6.3	0.51	µg/Kg-dry	1		01/18/06 13:03
n-Butylbenzene	ND	3.2	0.15	µg/Kg-dry	1		01/18/06 13:03
n-Propylbenzene	ND	3.2	0.11	µg/Kg-dry	1		01/18/06 13:03
Naphthalene	0.60 J	6.3	0.47	µg/Kg-dry	1		01/18/06 13:03
p-Isopropyltoluene	ND	3.2	0.11	µg/Kg-dry	1		01/18/06 13:03
sec-Butylbenzene	ND	3.2	0.16	µg/Kg-dry	1		01/18/06 13:03
Styrene	2.1 J	3.2	0.13	µg/Kg-dry	1		01/18/06 13:03
tert-Butylbenzene	ND	3.2	0.16	µg/Kg-dry	1		01/18/06 13:03
Tetrachloroethene	ND	3.2	0.18	µg/Kg-dry	1		01/18/06 13:03
Toluene	1.9 J	3.2	0.15	µg/Kg-dry	1		01/18/06 13:03
trans-1,2-Dichloroethene	ND	3.2	0.13	µg/Kg-dry	1		01/18/06 13:03
trans-1,3-Dichloropropene	ND	3.2	0.11	µg/Kg-dry	1		01/18/06 13:03
Trichloroethene	ND	3.2	0.14	µg/Kg-dry	1		01/18/06 13:03
Trichlorofluoromethane	ND	6.3	0.10	µg/Kg-dry	1		01/18/06 13:03
Vinyl chloride	ND	6.3	0.10	µg/Kg-dry	1		01/18/06 13:03
Xylenes (total)	ND	6.3	0.23	µg/Kg-dry	1		01/18/06 13:03
Surr: 1,2-Dichloroethane-d4	91.3	71-128	0.16	%REC	1		01/18/06 13:03
Surr: 4-Bromofluorobenzene	56.9 S	59-125	0.11	%REC	1		01/18/06 13:03
Surr: Dibromofluoromethane	107	40-156	0.23	%REC	1		01/18/06 13:03
Surr: Toluene-d6	77.4	75-125	0.15	%REC	1		01/18/06 13:03

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:26

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:03 A

Sample Size: 5 g

%Moisture: 20.8

TestCode: 8260S TAGML

Lab ID: 0601060-001A

Client Sample ID: BH-30-S

Collection Date: 01/11/06 16:35

Date Received: 01/12/06 15:35

PrepDate:

BatchNo: R4263

FileID: I-RA-J8280.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.2	0.14	µg/Kg-dry	1		01/19/06 17:00
1,1,1-Trichloroethane	ND	3.2	0.13	µg/Kg-dry	1		01/19/06 17:00
1,1,2,2-Tetrachloroethane	ND	3.2	0.20	µg/Kg-dry	1		01/19/06 17:00
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.2	0.13	µg/Kg-dry	1		01/19/06 17:00
1,1,2-Trichloroethane	ND	3.2	0.14	µg/Kg-dry	1		01/19/06 17:00
1,1-Dichloroethane	ND	3.2	0.13	µg/Kg-dry	1		01/19/06 17:00
1,1-Dichloroethene	ND	3.2	0.18	µg/Kg-dry	1		01/19/06 17:00
1,1-Dichloropropene	ND	3.2	0.13	µg/Kg-dry	1		01/19/06 17:00
1,2,3-Trichlorobenzene	ND	6.3	0.63	µg/Kg-dry	1		01/19/06 17:00
1,2,3-Trichloropropane	ND	3.2	0.21	µg/Kg-dry	1		01/19/06 17:00
1,2,4-Trichlorobenzene	ND	6.3	0.43	µg/Kg-dry	1		01/19/06 17:00
1,2,4-Trimethylbenzene	ND	3.2	0.14	µg/Kg-dry	1		01/19/06 17:00
1,2-Dibromo-3-chloropropane	ND	6.3	0.51	µg/Kg-dry	1		01/19/06 17:00
1,2-Dibromoethane	ND	3.2	0.11	µg/Kg-dry	1		01/19/06 17:00
1,2-Dichlorobenzene	ND	3.2	0.11	µg/Kg-dry	1		01/19/06 17:00
1,2-Dichloroethane	ND	3.2	0.13	µg/Kg-dry	1		01/19/06 17:00
1,2-Dichloropropane	ND	3.2	0.10	µg/Kg-dry	1		01/19/06 17:00
1,3,5-Trimethylbenzene	ND	3.2	0.11	µg/Kg-dry	1		01/19/06 17:00
1,3-Dichlorobenzene	ND	3.2	0.13	µg/Kg-dry	1		01/19/06 17:00
1,3-Dichloropropane	ND	3.2	0.10	µg/Kg-dry	1		01/19/06 17:00
1,4-Dichlorobenzene	ND	3.2	0.16	µg/Kg-dry	1		01/19/06 17:00
2,2-Dichloropropane	ND	3.2	0.11	µg/Kg-dry	1		01/19/06 17:00
2-Butanone	ND	13	0.18	µg/Kg-dry	1		01/19/06 17:00
2-Chlorotoluene	ND	3.2	0.09	µg/Kg-dry	1		01/19/06 17:00
2-Hexanone	ND	6.3	0.28	µg/Kg-dry	1		01/19/06 17:00
4-Chlorotoluene	ND	3.2	0.20	µg/Kg-dry	1		01/19/06 17:00
4-Methyl-2-pentanone	ND	6.3	0.30	µg/Kg-dry	1		01/19/06 17:00
Acetone	4.3 J	13	0.49	µg/Kg-dry	1		01/19/06 17:00
Benzene	ND	3.2	0.11	µg/Kg-dry	1		01/19/06 17:00
Bromobenzene	ND	3.2	0.19	µg/Kg-dry	1		01/19/06 17:00
Bromochloromethane	ND	3.2	0.20	µg/Kg-dry	1		01/19/06 17:00
Bromodichloromethane	ND	3.2	0.10	µg/Kg-dry	1		01/19/06 17:00
Bromoform	ND	3.2	0.08	µg/Kg-dry	1		01/19/06 17:00
Bromomethane	ND	6.3	0.38	µg/Kg-dry	1		01/19/06 17:00

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:26

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/20/06 9:58:03 A

Sample Size: 5 g

%Moisture: 20.8

TestCode: 8260S TAGML

Lab ID: 0601060-001A

Client Sample ID: BH-30-S

Collection Date: 01/11/06 16:35

Date Received: 01/12/06 15:35

PrepDate:

BatchNo: R4263

FileID: 1-RA-J8280.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	1.1	J	3.2	0.08	µg/Kg-dry	1	01/19/06 17:00
Carbon tetrachloride	ND		3.2	0.14	µg/Kg-dry	1	01/19/06 17:00
Chlorobenzene	ND		3.2	0.11	µg/Kg-dry	1	01/19/06 17:00
Chloroethane	ND		6.3	0.37	µg/Kg-dry	1	01/19/06 17:00
Chloroform	ND		3.2	0.05	µg/Kg-dry	1	01/19/06 17:00
Chloromethane	ND		6.3	0.48	µg/Kg-dry	1	01/19/06 17:00
cis-1,2-Dichloroethene	ND		3.2	0.14	µg/Kg-dry	1	01/19/06 17:00
cis-1,3-Dichloropropene	ND		3.2	0.11	µg/Kg-dry	1	01/19/06 17:00
Dibromochloromethane	ND		3.2	0.16	µg/Kg-dry	1	01/19/06 17:00
Dibromomethane	ND		3.2	0.14	µg/Kg-dry	1	01/19/06 17:00
Dichlorodifluoromethane	ND		6.3	0.10	µg/Kg-dry	1	01/19/06 17:00
Ethylbenzene	ND		3.2	0.13	µg/Kg-dry	1	01/19/06 17:00
Hexachlorobutadiene	ND		6.3	0.49	µg/Kg-dry	1	01/19/06 17:00
Isopropylbenzene	ND		3.2	0.10	µg/Kg-dry	1	01/19/06 17:00
Methyl tert-butyl ether	ND		3.2	0.09	µg/Kg-dry	1	01/19/06 17:00
Methylene chloride	1.9	J	6.3	0.51	µg/Kg-dry	1	01/19/06 17:00
n-Butylbenzene	ND		3.2	0.15	µg/Kg-dry	1	01/19/06 17:00
n-Propylbenzene	ND		3.2	0.11	µg/Kg-dry	1	01/19/06 17:00
Naphthalene	ND		6.3	0.47	µg/Kg-dry	1	01/19/06 17:00
p-Isopropyltoluene	ND		3.2	0.11	µg/Kg-dry	1	01/19/06 17:00
sec-Butylbenzene	ND		3.2	0.16	µg/Kg-dry	1	01/19/06 17:00
Styrene	1.7	J	3.2	0.13	µg/Kg-dry	1	01/19/06 17:00
tert-Butylbenzene	ND		3.2	0.16	µg/Kg-dry	1	01/19/06 17:00
Tetrachloroethene	ND		3.2	0.18	µg/Kg-dry	1	01/19/06 17:00
Toluene	0.77	J	3.2	0.15	µg/Kg-dry	1	01/19/06 17:00
trans-1,2-Dichloroethene	ND		3.2	0.13	µg/Kg-dry	1	01/19/06 17:00
trans-1,3-Dichloropropene	ND		3.2	0.11	µg/Kg-dry	1	01/19/06 17:00
Trichloroethene	ND		3.2	0.14	µg/Kg-dry	1	01/19/06 17:00
Trichlorofluoromethane	0.93	J	6.3	0.10	µg/Kg-dry	1	01/19/06 17:00
Vinyl chloride	ND		6.3	0.10	µg/Kg-dry	1	01/19/06 17:00
Xylenes (total)	ND		6.3	0.23	µg/Kg-dry	1	01/19/06 17:00
Surr: 1,2-Dichloroethane-d4	92.5		71-128	0.16	%REC	1	01/19/06 17:00
Surr: 4-Bromofluorobenzene	56.4	S	59-125	0.11	%REC	1	01/19/06 17:00
Surr: Dibromofluoromethane	108		40-156	0.23	%REC	1	01/19/06 17:00
Surr: Toluene-d8	76.7		75-125	0.15	%REC	1	01/19/06 17:00

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 4.99 g

ColumnID: Rtx-VMS

%Moisture: 19.5

Revision: 01/19/06 2:30:18 P

TestCode: 8260S TAGML

Lab ID: 0601060-002A

Client Sample ID: BH-32-S

Collection Date: 01/12/06 10:15

Date Received: 01/12/06 15:35

PrepDate:

BatchNo: R4249

FileID: 1-SAMP-J8256.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/18/06 13:38
1,1,1-Trichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/18/06 13:38
1,1,2,2-Tetrachloroethane	ND	3.1	0.20	µg/Kg-dry	1		01/18/06 13:38
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.1	0.12	µg/Kg-dry	1		01/18/06 13:38
1,1,2-Trichloroethane	ND	3.1	0.14	µg/Kg-dry	1		01/18/06 13:38
1,1-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/18/06 13:38
1,1-Dichloroethene	ND	3.1	0.17	µg/Kg-dry	1		01/18/06 13:38
1,1-Dichloropropene	ND	3.1	0.12	µg/Kg-dry	1		01/18/06 13:38
1,2,3-Trichlorobenzene	ND	6.2	0.62	µg/Kg-dry	1		01/18/06 13:38
1,2,3-Trichloropropane	ND	3.1	0.21	µg/Kg-dry	1		01/18/06 13:38
1,2,4-Trichlorobenzene	ND	6.2	0.42	µg/Kg-dry	1		01/18/06 13:38
1,2,4-Trimethylbenzene	ND	3.1	0.14	µg/Kg-dry	1		01/18/06 13:38
1,2-Dibromo-3-chloropropane	ND	6.2	0.50	µg/Kg-dry	1		01/18/06 13:38
1,2-Dibromoethane	ND	3.1	0.11	µg/Kg-dry	1		01/18/06 13:38
1,2-Dichlorobenzene	ND	3.1	0.11	µg/Kg-dry	1		01/18/06 13:38
1,2-Dichloroethane	ND	3.1	0.12	µg/Kg-dry	1		01/18/06 13:38
1,2-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/18/06 13:38
1,3,5-Trimethylbenzene	ND	3.1	0.11	µg/Kg-dry	1		01/18/06 13:38
1,3-Dichlorobenzene	ND	3.1	0.12	µg/Kg-dry	1		01/18/06 13:38
1,3-Dichloropropane	ND	3.1	0.10	µg/Kg-dry	1		01/18/06 13:38
1,4-Dichlorobenzene	ND	3.1	0.16	µg/Kg-dry	1		01/18/06 13:38
2,2-Dichloropropane	ND	3.1	0.11	µg/Kg-dry	1		01/18/06 13:38
2-Butanone	ND	12	0.17	µg/Kg-dry	1		01/18/06 13:38
2-Chlorotoluene	ND	3.1	0.09	µg/Kg-dry	1		01/18/06 13:38
2-Hexanone	ND	6.2	0.27	µg/Kg-dry	1		01/18/06 13:38
4-Chlorotoluene	ND	3.1	0.20	µg/Kg-dry	1		01/18/06 13:38
4-Methyl-2-pentanone	ND	6.2	0.30	µg/Kg-dry	1		01/18/06 13:38
Acetone	1.6 J	12	0.48	µg/Kg-dry	1		01/18/06 13:38
Benzene	ND	3.1	0.11	µg/Kg-dry	1		01/18/06 13:38
Bromobenzene	ND	3.1	0.19	µg/Kg-dry	1		01/18/06 13:38
Bromochloromethane	ND	3.1	0.20	µg/Kg-dry	1		01/18/06 13:38
Bromodichloromethane	ND	3.1	0.10	µg/Kg-dry	1		01/18/06 13:38
Bromoform	ND	3.1	0.07	µg/Kg-dry	1		01/18/06 13:38
Bromomethane	ND	6.2	0.37	µg/Kg-dry	1		01/18/06 13:38

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/20/06 10:26

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 4.99 g

ColumnID: Rtx-VMS

%Moisture: 19.5

Revision: 01/19/06 2:30:18 P

TestCode: 8260S TAGML

Lab ID: 0601060-002A

Client Sample ID: BH-32-S

Collection Date: 01/12/06 10:15

Date Received: 01/12/06 15:35

PrepDate:

BatchNo: R4249

FileID: 1-SAMP-J8256.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		3.1	0.07	µg/Kg-dry	1	01/18/06 13:38
Carbon tetrachloride	ND		3.1	0.14	µg/Kg-dry	1	01/18/06 13:38
Chlorobenzene	ND		3.1	0.11	µg/Kg-dry	1	01/18/06 13:38
Chloroethane	ND		6.2	0.36	µg/Kg-dry	1	01/18/06 13:38
Chloroform	ND		3.1	0.05	µg/Kg-dry	1	01/18/06 13:38
Chloromethane	ND		6.2	0.47	µg/Kg-dry	1	01/18/06 13:38
cis-1,2-Dichloroethene	ND		3.1	0.14	µg/Kg-dry	1	01/18/06 13:38
cis-1,3-Dichloropropene	ND		3.1	0.11	µg/Kg-dry	1	01/18/06 13:38
Dibromochloromethane	ND		3.1	0.16	µg/Kg-dry	1	01/18/06 13:38
Dibromomethane	ND		3.1	0.14	µg/Kg-dry	1	01/18/06 13:38
Dichlorodifluoromethane	ND		6.2	0.10	µg/Kg-dry	1	01/18/06 13:38
Ethylbenzene	ND		3.1	0.12	µg/Kg-dry	1	01/18/06 13:38
Hexachlorobutadiene	ND		6.2	0.48	µg/Kg-dry	1	01/18/06 13:38
Isopropylbenzene	ND		3.1	0.10	µg/Kg-dry	1	01/18/06 13:38
Methyl tert-butyl ether	ND		3.1	0.09	µg/Kg-dry	1	01/18/06 13:38
Methylene chloride	1.4 J		6.2	0.50	µg/Kg-dry	1	01/18/06 13:38
n-Butylbenzene	ND		3.1	0.15	µg/Kg-dry	1	01/18/06 13:38
n-Propylbenzene	ND		3.1	0.11	µg/Kg-dry	1	01/18/06 13:38
Naphthalene	ND		6.2	0.46	µg/Kg-dry	1	01/18/06 13:38
p-Isopropyltoluene	ND		3.1	0.11	µg/Kg-dry	1	01/18/06 13:38
sec-Butylbenzene	ND		3.1	0.18	µg/Kg-dry	1	01/18/06 13:38
Styrene	ND		3.1	0.12	µg/Kg-dry	1	01/18/06 13:38
tert-Butylbenzene	ND		3.1	0.16	µg/Kg-dry	1	01/18/06 13:38
Tetrachloroethene	4.7		3.1	0.17	µg/Kg-dry	1	01/18/06 13:38
Toluene	ND		3.1	0.15	µg/Kg-dry	1	01/18/06 13:38
trans-1,2-Dichloroethene	ND		3.1	0.12	µg/Kg-dry	1	01/18/06 13:38
trans-1,3-Dichloropropene	ND		3.1	0.11	µg/Kg-dry	1	01/18/06 13:38
Trichloroethene	ND		3.1	0.14	µg/Kg-dry	1	01/18/06 13:38
Trichlorofluoromethane	ND		6.2	0.10	µg/Kg-dry	1	01/18/06 13:38
Vinyl chloride	ND		6.2	0.10	µg/Kg-dry	1	01/18/06 13:38
Xylenes (total)	ND		6.2	0.22	µg/Kg-dry	1	01/18/06 13:38
Surr: 1,2-Dichloroethane-d4	84.2		71-128	0.16	%REC	1	01/18/06 13:38
Surr: 4-Bromofluorobenzene	75.1		59-125	0.11	%REC	1	01/18/06 13:38
Surr: Dibromofluoromethane	98.7		40-156	0.22	%REC	1	01/18/06 13:38
Surr: Toluene-d8	90.9		75-125	0.15	%REC	1	01/18/06 13:38

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:26

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 5.01 g

%Moisture: 15.1

TestCode: 8260S TAGML

Lab ID: 0601060-003A

Client Sample ID: BH-32-D

Collection Date: 01/12/06 10:30

Date Received: 01/12/06 15:35

PrepDate:

BatchNo: R4249

FileID: 1-SAMP-J8257.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 14:13
1,1,1-Trichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 14:13
1,1,2,2-Tetrachloroethane	ND	2.9	0.19	µg/Kg-dry	1		01/18/06 14:13
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 14:13
1,1,2-Trichloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 14:13
1,1-Dichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 14:13
1,1-Dichloroethene	ND	2.9	0.16	µg/Kg-dry	1		01/18/06 14:13
1,1-Dichloropropene	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 14:13
1,2,3-Trichlorobenzene	ND	5.9	0.59	µg/Kg-dry	1		01/18/06 14:13
1,2,3-Trichloropropane	ND	2.9	0.20	µg/Kg-dry	1		01/18/06 14:13
1,2,4-Trichlorobenzene	ND	5.9	0.40	µg/Kg-dry	1		01/18/06 14:13
1,2,4-Trimethylbenzene	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 14:13
1,2-Dibromo-3-chloropropane	ND	5.9	0.47	µg/Kg-dry	1		01/18/06 14:13
1,2-Dibromoethane	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 14:13
1,2-Dichlorobenzene	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 14:13
1,2-Dichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 14:13
1,2-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/18/06 14:13
1,3,5-Trimethylbenzene	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 14:13
1,3-Dichlorobenzene	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 14:13
1,3-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/18/06 14:13
1,4-Dichlorobenzene	ND	2.9	0.15	µg/Kg-dry	1		01/18/06 14:13
2,2-Dichloropropane	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 14:13
2-Butanone	ND	12	0.16	µg/Kg-dry	1		01/18/06 14:13
2-Chlorotoluene	ND	2.9	0.08	µg/Kg-dry	1		01/18/06 14:13
2-Hexanone	ND	5.9	0.26	µg/Kg-dry	1		01/18/06 14:13
4-Chlorotoluene	ND	2.9	0.19	µg/Kg-dry	1		01/18/06 14:13
4-Methyl-2-pentanone	ND	5.9	0.28	µg/Kg-dry	1		01/18/06 14:13
Acetone	1.6 J	12	0.46	µg/Kg-dry	1		01/18/06 14:13
Benzene	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 14:13
Bromobenzene	ND	2.9	0.18	µg/Kg-dry	1		01/18/06 14:13
Bromochloromethane	ND	2.9	0.19	µg/Kg-dry	1		01/18/06 14:13
Bromodichloromethane	ND	2.9	0.09	µg/Kg-dry	1		01/18/06 14:13
Bromoform	ND	2.9	0.07	µg/Kg-dry	1		01/18/06 14:13
Bromomethane	ND	5.9	0.35	µg/Kg-dry	1		01/18/06 14:13

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:26

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 5.01 g

%Moisture: 15.1

TestCode: 8260S TAGML

Lab ID: 0601060-003A

Client Sample ID: BH-32-D

Collection Date: 01/12/06 10:30

Date Received: 01/12/06 15:35

PrepDate:

BatchNo: R4249

FileID: 1-SAMP-J8257.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND		2.9	0.07	µg/Kg-dry	1	01/18/06 14:13
Carbon tetrachloride	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 14:13
Chlorobenzene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 14:13
Chloroethane	ND		5.9	0.34	µg/Kg-dry	1	01/18/06 14:13
Chloroform	ND		2.9	0.05	µg/Kg-dry	1	01/18/06 14:13
Chloromethane	ND		5.9	0.45	µg/Kg-dry	1	01/18/06 14:13
cis-1,2-Dichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 14:13
cis-1,3-Dichloropropene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 14:13
Dibromochloromethane	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 14:13
Dibromomethane	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 14:13
Dichlorodifluoromethane	ND		5.9	0.09	µg/Kg-dry	1	01/18/06 14:13
Ethylbenzene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 14:13
Hexachlorobutadiene	ND		5.9	0.46	µg/Kg-dry	1	01/18/06 14:13
Isopropylbenzene	ND		2.9	0.09	µg/Kg-dry	1	01/18/06 14:13
Methyl tert-butyl ether	ND		2.9	0.08	µg/Kg-dry	1	01/18/06 14:13
Methylene chloride	4.5 J		5.9	0.47	µg/Kg-dry	1	01/18/06 14:13
n-Butylbenzene	ND		2.9	0.14	µg/Kg-dry	1	01/18/06 14:13
n-Propylbenzene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 14:13
Naphthalene	ND		5.9	0.44	µg/Kg-dry	1	01/18/06 14:13
p-Isopropyltoluene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 14:13
sec-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 14:13
Styrene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 14:13
tert-Butylbenzene	ND		2.9	0.15	µg/Kg-dry	1	01/18/06 14:13
Tetrachloroethene	21		2.9	0.16	µg/Kg-dry	1	01/18/06 14:13
Toluene	ND		2.9	0.14	µg/Kg-dry	1	01/18/06 14:13
trans-1,2-Dichloroethene	ND		2.9	0.12	µg/Kg-dry	1	01/18/06 14:13
trans-1,3-Dichloropropene	ND		2.9	0.11	µg/Kg-dry	1	01/18/06 14:13
Trichloroethene	ND		2.9	0.13	µg/Kg-dry	1	01/18/06 14:13
Trichlorofluoromethane	ND		5.9	0.09	µg/Kg-dry	1	01/18/06 14:13
Vinyl chloride	ND		5.9	0.09	µg/Kg-dry	1	01/18/06 14:13
Xylenes (total)	ND		5.9	0.21	µg/Kg-dry	1	01/18/06 14:13
Surr. 1,2-Dichloroethane-d4	88.4		71-128	0.15	%REC	1	01/18/06 14:13
Surr. 4-Bromofluorobenzene	62.0		59-125	0.11	%REC	1	01/18/06 14:13
Surr. Dibromofluoromethane	101		40-156	0.21	%REC	1	01/18/06 14:13
Surr. Toluene-d8	90.0		75-125	0.14	%REC	1	01/18/06 14:13

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 4.99 g

ColumnID: Rtx-VMS

%Moisture: 14.6

Revision: 01/19/06 2:30:18 P

TestCode: 8260S TAGML

Lab ID: 0601060-004A

Client Sample ID: BH-33-S

Collection Date: 01/12/06 10:45

Date Received: 01/12/06 15:35

PrepDate:

BatchNo: R4249

FileID: 1-SAMP-J8258.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 14:48
1,1,1-Trichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 14:48
1,1,2,2-Tetrachloroethane	ND	2.9	0.19	µg/Kg-dry	1		01/18/06 14:48
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 14:48
1,1,2-Trichloroethane	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 14:48
1,1-Dichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 14:48
1,1-Dichloroethene	ND	2.9	0.16	µg/Kg-dry	1		01/18/06 14:48
1,1-Dichloropropene	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 14:48
1,2,3-Trichlorobenzene	ND	5.9	0.59	µg/Kg-dry	1		01/18/06 14:48
1,2,3-Trichloropropane	ND	2.9	0.20	µg/Kg-dry	1		01/18/06 14:48
1,2,4-Trichlorobenzene	ND	5.9	0.40	µg/Kg-dry	1		01/18/06 14:48
1,2,4-Trimethylbenzene	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 14:48
1,2-Dibromo-3-chloropropane	ND	5.9	0.47	µg/Kg-dry	1		01/18/06 14:48
1,2-Dibromoethane	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 14:48
1,2-Dichlorobenzene	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 14:48
1,2-Dichloroethane	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 14:48
1,2-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/18/06 14:48
1,3,5-Trimethylbenzene	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 14:48
1,3-Dichlorobenzene	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 14:48
1,3-Dichloropropane	ND	2.9	0.09	µg/Kg-dry	1		01/18/06 14:48
1,4-Dichlorobenzene	ND	2.9	0.15	µg/Kg-dry	1		01/18/06 14:48
2,2-Dichloropropane	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 14:48
2-Butanone	ND	12	0.16	µg/Kg-dry	1		01/18/06 14:48
2-Chlorotoluene	ND	2.9	0.08	µg/Kg-dry	1		01/18/06 14:48
2-Hexanone	ND	5.9	0.26	µg/Kg-dry	1		01/18/06 14:48
4-Chlorotoluene	ND	2.9	0.19	µg/Kg-dry	1		01/18/06 14:48
4-Methyl-2-pentanone	ND	5.9	0.28	µg/Kg-dry	1		01/18/06 14:48
Acetone	2.1 J	12	0.46	µg/Kg-dry	1		01/18/06 14:48
Benzene	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 14:48
Bromobenzene	ND	2.9	0.18	µg/Kg-dry	1		01/18/06 14:48
Bromochloromethane	ND	2.9	0.19	µg/Kg-dry	1		01/18/06 14:48
Bromodichloromethane	ND	2.9	0.09	µg/Kg-dry	1		01/18/06 14:48
Bromoform	ND	2.9	0.07	µg/Kg-dry	1		01/18/06 14:48
Bromomethane	ND	5.9	0.35	µg/Kg-dry	1		01/18/06 14:48

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:26

Project Supervisor: Thomas A. Alexander

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Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS03 10

Sample Size: 4.99 g

ColumnID: Rtx-VMS

%Moisture: 14.6

Revision: 01/19/06 2:30:18 P

TestCode: 8260S TAGML

Lab ID: 0601060-004A

Client Sample ID: BH-33-S

Collection Date: 01/12/06 10:45

Date Received: 01/12/06 15:35

PrepDate:

BatchNo: R4249

FileID: 1-SAMP-J8258.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	2.9	0.07	µg/Kg-dry	1		01/18/06 14:48
Carbon tetrachloride	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 14:48
Chlorobenzene	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 14:48
Chloroethane	ND	5.9	0.34	µg/Kg-dry	1		01/18/06 14:48
Chloroform	ND	2.9	0.05	µg/Kg-dry	1		01/18/06 14:48
Chloromethane	ND	5.9	0.44	µg/Kg-dry	1		01/18/06 14:48
cis-1,2-Dichloroethene	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 14:48
cis-1,3-Dichloropropene	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 14:48
Dibromochloromethane	ND	2.9	0.15	µg/Kg-dry	1		01/18/06 14:48
Dibromomethane	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 14:48
Dichlorodifluoromethane	ND	5.9	0.09	µg/Kg-dry	1		01/18/06 14:48
Ethylbenzene	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 14:48
Hexachlorobutadiene	ND	5.9	0.46	µg/Kg-dry	1		01/18/06 14:48
Isopropylbenzene	ND	2.9	0.09	µg/Kg-dry	1		01/18/06 14:48
Methyl tert-butyl ether	ND	2.9	0.08	µg/Kg-dry	1		01/18/06 14:48
Methylene chloride	6.6	5.9	0.47	µg/Kg-dry	1		01/18/06 14:48
n-Butylbenzene	ND	2.9	0.14	µg/Kg-dry	1		01/18/06 14:48
n-Propylbenzene	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 14:48
Naphthalene	0.91 J	5.9	0.43	µg/Kg-dry	1		01/18/06 14:48
p-Isopropyltoluene	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 14:48
sec-Butylbenzene	ND	2.9	0.15	µg/Kg-dry	1		01/18/06 14:48
Styrene	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 14:48
tert-Butylbenzene	ND	2.9	0.15	µg/Kg-dry	1		01/18/06 14:48
Tetrachloroethene	27	2.9	0.16	µg/Kg-dry	1		01/18/06 14:48
Toluene	ND	2.9	0.14	µg/Kg-dry	1		01/18/06 14:48
trans-1,2-Dichloroethene	ND	2.9	0.12	µg/Kg-dry	1		01/18/06 14:48
trans-1,3-Dichloropropene	ND	2.9	0.11	µg/Kg-dry	1		01/18/06 14:48
Trichloroethene	ND	2.9	0.13	µg/Kg-dry	1		01/18/06 14:48
Trichlorofluoromethane	ND	5.9	0.09	µg/Kg-dry	1		01/18/06 14:48
Vinyl chloride	ND	5.9	0.09	µg/Kg-dry	1		01/18/06 14:48
Xylenes (total)	ND	5.9	0.21	µg/Kg-dry	1		01/18/06 14:48
Surr: 1,2-Dichloroethane-d4	88.6	71-128	0.15	%REC	1		01/18/06 14:48
Surr: 4-Bromofluorobenzene	68.9	59-125	0.11	%REC	1		01/18/06 14:48
Surr: Dibromofluoromethane	101	40-156	0.21	%REC	1		01/18/06 14:48
Surr: Toluene-d8	90.8	75-125	0.14	%REC	1		01/18/06 14:48

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:26

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: WATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 5 mL

%Moisture:

TestCode: 8260S TAGML

Lab ID: 0601060-005A

Client Sample ID: TRIP BLANK

Collection Date: 01/11/06 0:00

Date Received: 01/12/06 15:35

PrepDate:

BatchNo: R4249

FileID: 1-SAMP-J8253.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
1,1,1,2-Tetrachloroethane	ND	2.5	0.11	µg/Kg	1		01/18/06 11:53
1,1,1-Trichloroethane	ND	2.5	0.10	µg/Kg	1		01/18/06 11:53
1,1,2,2-Tetrachloroethane	ND	2.5	0.16	µg/Kg	1		01/18/06 11:53
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	2.5	0.10	µg/Kg	1		01/18/06 11:53
1,1,2-Trichloroethane	ND	2.5	0.11	µg/Kg	1		01/18/06 11:53
1,1-Dichloroethane	ND	2.5	0.10	µg/Kg	1		01/18/06 11:53
1,1-Dichloroethene	ND	2.5	0.14	µg/Kg	1		01/18/06 11:53
1,1-Dichloropropane	ND	2.5	0.10	µg/Kg	1		01/18/06 11:53
1,2,3-Trichlorobenzene	ND	5.0	0.50	µg/Kg	1		01/18/06 11:53
1,2,3-Trichloropropane	ND	2.5	0.17	µg/Kg	1		01/18/06 11:53
1,2,4-Trichlorobenzene	ND	5.0	0.34	µg/Kg	1		01/18/06 11:53
1,2,4-Trimethylbenzene	ND	2.5	0.11	µg/Kg	1		01/18/06 11:53
1,2-Dibromo-3-chloropropane	ND	5.0	0.40	µg/Kg	1		01/18/06 11:53
1,2-Dibromoethane	ND	2.5	0.09	µg/Kg	1		01/18/06 11:53
1,2-Dichlorobenzene	ND	2.5	0.09	µg/Kg	1		01/18/06 11:53
1,2-Dichloroethane	ND	2.5	0.10	µg/Kg	1		01/18/06 11:53
1,2-Dichloropropane	ND	2.5	0.08	µg/Kg	1		01/18/06 11:53
1,3,5-Trimethylbenzene	ND	2.5	0.09	µg/Kg	1		01/18/06 11:53
1,3-Dichlorobenzene	ND	2.5	0.10	µg/Kg	1		01/18/06 11:53
1,3-Dichloropropane	ND	2.5	0.08	µg/Kg	1		01/18/06 11:53
1,4-Dichlorobenzene	ND	2.5	0.13	µg/Kg	1		01/18/06 11:53
2,2-Dichloropropane	ND	2.5	0.09	µg/Kg	1		01/18/06 11:53
2-Butanone	ND	10	0.14	µg/Kg	1		01/18/06 11:53
2-Chlorotoluene	ND	2.5	0.07	µg/Kg	1		01/18/06 11:53
2-Hexanone	ND	5.0	0.22	µg/Kg	1		01/18/06 11:53
4-Chlorotoluene	ND	2.5	0.16	µg/Kg	1		01/18/06 11:53
4-Methyl-2-pentanone	ND	5.0	0.24	µg/Kg	1		01/18/06 11:53
Acetone	1.8 J	10	0.39	µg/Kg	1		01/18/06 11:53
Benzene	ND	2.5	0.09	µg/Kg	1		01/18/06 11:53
Bromobenzene	ND	2.5	0.15	µg/Kg	1		01/18/06 11:53
Bromochloromethane	ND	2.5	0.16	µg/Kg	1		01/18/06 11:53
Bromodichloromethane	ND	2.5	0.08	µg/Kg	1		01/18/06 11:53
Bromoform	ND	2.5	0.06	µg/Kg	1		01/18/06 11:53
Bromomethane	ND	5.0	0.30	µg/Kg	1		01/18/06 11:53

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:26

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: WATER

Inst. ID: MS03 10

ColumnID: Rtx-VMS

Revision: 01/19/06 2:30:18 P

Sample Size: 5 mL

%Moisture:

TestCode: 8260S TAGML

Lab ID: 0601060-005A

Client Sample ID: TRIP BLANK

Collection Date: 01/11/06 0:00

Date Received: 01/12/06 15:35

PrepDate:

BatchNo: R4249

FileID: 1-SAMP-J8253.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8260B			
Carbon disulfide	ND	2.5	0.06	µg/Kg	1	01/18/06 11:53	
Carbon tetrachloride	ND	2.5	0.11	µg/Kg	1	01/18/06 11:53	
Chlorobenzene	ND	2.5	0.09	µg/Kg	1	01/18/06 11:53	
Chloroethane	ND	5.0	0.29	µg/Kg	1	01/18/06 11:53	
Chloroform	ND	2.5	0.04	µg/Kg	1	01/18/06 11:53	
Chloromethane	ND	5.0	0.38	µg/Kg	1	01/18/06 11:53	
cis-1,2-Dichloroethene	ND	2.5	0.11	µg/Kg	1	01/18/06 11:53	
cis-1,3-Dichloropropene	ND	2.5	0.09	µg/Kg	1	01/18/06 11:53	
Dibromochloromethane	ND	2.5	0.13	µg/Kg	1	01/18/06 11:53	
Dibromomethane	ND	2.5	0.11	µg/Kg	1	01/18/06 11:53	
Dichlorodifluoromethane	ND	5.0	0.08	µg/Kg	1	01/18/06 11:53	
Ethylbenzene	ND	2.5	0.10	µg/Kg	1	01/18/06 11:53	
Hexachlorobutadiene	ND	5.0	0.39	µg/Kg	1	01/18/06 11:53	
Isopropylbenzene	ND	2.5	0.08	µg/Kg	1	01/18/06 11:53	
Methyl tert-butyl ether	ND	2.5	0.07	µg/Kg	1	01/18/06 11:53	
Methylene chloride	ND	5.0	0.40	µg/Kg	1	01/18/06 11:53	
n-Butylbenzene	ND	2.5	0.12	µg/Kg	1	01/18/06 11:53	
n-Propylbenzene	ND	2.5	0.09	µg/Kg	1	01/18/06 11:53	
Naphthalene	ND	5.0	0.37	µg/Kg	1	01/18/06 11:53	
p-Isopropyltoluene	ND	2.5	0.09	µg/Kg	1	01/18/06 11:53	
sec-Butylbenzene	ND	2.5	0.13	µg/Kg	1	01/18/06 11:53	
Styrene	ND	2.5	0.10	µg/Kg	1	01/18/06 11:53	
tert-Butylbenzene	ND	2.5	0.13	µg/Kg	1	01/18/06 11:53	
Tetrachloroethene	ND	2.5	0.14	µg/Kg	1	01/18/06 11:53	
Toluene	ND	2.5	0.12	µg/Kg	1	01/18/06 11:53	
trans-1,2-Dichloroethene	ND	2.5	0.10	µg/Kg	1	01/18/06 11:53	
trans-1,3-Dichloropropene	ND	2.5	0.09	µg/Kg	1	01/18/06 11:53	
Trichloroethene	ND	2.5	0.11	µg/Kg	1	01/18/06 11:53	
Trichlorofluoromethane	ND	5.0	0.08	µg/Kg	1	01/18/06 11:53	
Vinyl chloride	ND	5.0	0.08	µg/Kg	1	01/18/06 11:53	
Xylenes (total)	ND	5.0	0.18	µg/Kg	1	01/18/06 11:53	
Surr: 1,2-Dichloroethane-d4	84.2	71-128	0.13	%REC	1	01/18/06 11:53	
Surr: 4-Bromofluorobenzene	80.0	59-125	0.09	%REC	1	01/18/06 11:53	
Surr: Dibromofluoromethane	97.8	40-156	0.18	%REC	1	01/18/06 11:53	
Surr: Toluene-d8	93.2	75-125	0.12	%REC	1	01/18/06 11:53	

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/20/06 10:26

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 12.7

Revision: 01/31/06 10:18:39 A

TestCode: 8270S TAGML

Lab ID: 0601049-001B

Client Sample ID: BH-20-S

Collection Date: 01/11/06 7:55

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3881.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND	380		3.0	µg/Kg-dry	1	01/25/06 21:10
1,2-Dichlorobenzene	ND	380		2.7	µg/Kg-dry	1	01/25/06 21:10
1,3-Dichlorobenzene	ND	380		1.8	µg/Kg-dry	1	01/25/06 21:10
1,4-Dichlorobenzene	ND	380		2.2	µg/Kg-dry	1	01/25/06 21:10
2,4,5-Trichlorophenol	ND	1900		38	µg/Kg-dry	1	01/25/06 21:10
2,4,6-Trichlorophenol	ND	380		3.5	µg/Kg-dry	1	01/25/08 21:10
2,4-Dichlorophenol	ND	380		3.5	µg/Kg-dry	1	01/25/06 21:10
2,4-Dimethylphenol	ND	380		3.2	µg/Kg-dry	1	01/25/06 21:10
2,4-Dinitrophenol	ND	1900		69	µg/Kg-dry	1	01/25/06 21:10
2,4-Dinitrotoluene	ND	380		3.2	µg/Kg-dry	1	01/25/06 21:10
2,6-Dinitrotoluene	ND	380		3.7	µg/Kg-dry	1	01/25/06 21:10
2-Chloronaphthalene	ND	380		1.8	µg/Kg-dry	1	01/25/06 21:10
2-Chlorophenol	ND	380		2.5	µg/Kg-dry	1	01/25/06 21:10
2-Methylnaphthalene	1100	380		1.8	µg/Kg-dry	1	01/25/06 21:10
2-Methylphenol	ND	380		2.3	µg/Kg-dry	1	01/25/06 21:10
2-Nitroaniline	ND	1900		4.0	µg/Kg-dry	1	01/25/06 21:10
2-Nitrophenol	ND	380		4.4	µg/Kg-dry	1	01/25/06 21:10
3,3'-Dichlorobenzidine	ND	760		9.3	µg/Kg-dry	1	01/25/06 21:10
3-Nitroaniline	ND	1900		13	µg/Kg-dry	1	01/25/06 21:10
4,6-Dinitro-2-methylphenol	ND	1900		31	µg/Kg-dry	1	01/25/06 21:10
4-Bromophenyl phenyl ether	ND	380		2.7	µg/Kg-dry	1	01/25/06 21:10
4-Chloro-3-methylphenol	ND	380		3.0	µg/Kg-dry	1	01/25/06 21:10
4-Chloroaniline	ND	380		4.6	µg/Kg-dry	1	01/25/06 21:10
4-Chlorophenyl phenyl ether	ND	380		2.9	µg/Kg-dry	1	01/25/06 21:10
4-Methylphenol	ND	380		2.2	µg/Kg-dry	1	01/25/06 21:10
4-Nitroaniline	ND	1900		6.3	µg/Kg-dry	1	01/25/06 21:10
4-Nitrophenol	ND	1900		15	µg/Kg-dry	1	01/25/06 21:10
Acenaphthene	ND	380		1.3	µg/Kg-dry	1	01/25/06 21:10
Acenaphthylene	ND	380		1.7	µg/Kg-dry	1	01/25/06 21:10
Aniline	ND	380		4.7	µg/Kg-dry	1	01/25/06 21:10
Anthracene	64 J	380		1.5	µg/Kg-dry	1	01/25/06 21:10
Benzo[a]anthracene	390	380		1.6	µg/Kg-dry	1	01/25/06 21:10
Benzo[a]pyrene	400	380		1.9	µg/Kg-dry	1	01/25/06 21:10
Benzo[b]fluoranthene	700	380		2.8	µg/Kg-dry	1	01/25/06 21:10
Benzo[g,h,i]perylene	220 J	380		1.9	µg/Kg-dry	1	01/25/06 21:10

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 12.7

Revision: 01/31/06 10:18:39 A

TestCode: 8270S TAGML

Lab ID: 0601049-001B

Client Sample ID: BH-20-S

Collection Date: 01/11/06 7:55

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3881.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	200 J	380		2.4	µg/Kg-dry	1	01/25/06 21:10
Benzoic acid	ND	1900		120	µg/Kg-dry	1	01/25/06 21:10
Benzyl alcohol	ND	380		4.2	µg/Kg-dry	1	01/25/06 21:10
bis(2-Chloroethoxy)methane	ND	380		1.5	µg/Kg-dry	1	01/25/06 21:10
bis(2-chloroethyl)ether	ND	380		2.2	µg/Kg-dry	1	01/25/06 21:10
bis(2-chloroisopropyl)ether	ND	380		2.2	µg/Kg-dry	1	01/25/06 21:10
bis(2-Ethylhexyl)phthalate	100 J	380		12	µg/Kg-dry	1	01/25/06 21:10
Butyl benzyl phthalate	ND	380		2.5	µg/Kg-dry	1	01/25/06 21:10
Chrysene	650	380		1.8	µg/Kg-dry	1	01/25/06 21:10
Di-n-butyl phthalate	76 J	380		3.2	µg/Kg-dry	1	01/25/06 21:10
Di-n-octyl phthalate	ND	380		1.8	µg/Kg-dry	1	01/25/06 21:10
Dibenz[a,h]anthracene	72 J	380		1.5	µg/Kg-dry	1	01/25/06 21:10
Dibenzofuran	300 J	380		1.7	µg/Kg-dry	1	01/25/06 21:10
Diethyl phthalate	ND	380		2.7	µg/Kg-dry	1	01/25/06 21:10
Dimethyl phthalate	ND	380		1.9	µg/Kg-dry	1	01/25/06 21:10
Fluoranthene	760	380		1.8	µg/Kg-dry	1	01/25/06 21:10
Fluorene	ND	380		1.9	µg/Kg-dry	1	01/25/06 21:10
Hexachlorobenzene	ND	380		3.0	µg/Kg-dry	1	01/25/06 21:10
Hexachlorobutadiene	ND	380		4.0	µg/Kg-dry	1	01/25/06 21:10
Hexachlorocyclopentadiene	ND	380		15	µg/Kg-dry	1	01/25/06 21:10
Hexachloroethane	ND	380		4.1	µg/Kg-dry	1	01/25/06 21:10
Indeno[1,2,3-cd]pyrene	140 J	380		1.5	µg/Kg-dry	1	01/25/06 21:10
Isophorone	ND	380		1.8	µg/Kg-dry	1	01/25/06 21:10
N-Nitroso-di-n-propylamine	ND	380		3.2	µg/Kg-dry	1	01/25/06 21:10
N-Nitrosodiphenylamine	ND	380		1.8	µg/Kg-dry	1	01/25/06 21:10
Naphthalene	590	380		1.1	µg/Kg-dry	1	01/25/06 21:10
Nitrobenzene	ND	380		2.3	µg/Kg-dry	1	01/25/06 21:10
Pentachlorophenol	ND	1900		32	µg/Kg-dry	1	01/25/06 21:10
Phenanthrene	1200	380		1.4	µg/Kg-dry	1	01/25/06 21:10
Phenol	ND	380		1.5	µg/Kg-dry	1	01/25/06 21:10
Pyrene	750	380		1.8	µg/Kg-dry	1	01/25/06 21:10
Surr: 2,4,6-Tribromophenol	65.9	20-143		0	%REC	1	01/25/06 21:10
Surr: 2-Fluorobiphenyl	90.5	46-130		0	%REC	1	01/25/06 21:10
Surr: 2-Fluorophenol	74.8	22-130		0	%REC	1	01/25/06 21:10
Surr: Nitrobenzene-d5	81.7	39-130		0	%REC	1	01/25/06 21:10

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 12.7

Revision: 01/31/06 10:18:39 A

TestCode: 8270S TAGML

Lab ID: 0601049-001B

Client Sample ID: BH-20-S

Collection Date: 01/11/06 7:55

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3881.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	74.5	33-130	0	%REC	1		01/25/06 21:10
Surr: Terphenyl-d14	102	36-146	0	%REC	1		01/25/06 21:10

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05.26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 13.2

Revision: 01/31/06 10:18:39 A

TestCode: 8270S TAGML

Lab ID: 0601049-002B

Client Sample ID: BH-20-D

Collection Date: 01/11/06 8:05

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3882.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		380	3.0	µg/Kg-dry	1	01/25/06 21:48
1,2-Dichlorobenzene	ND		380	2.7	µg/Kg-dry	1	01/25/06 21:48
1,3-Dichlorobenzene	ND		380	1.8	µg/Kg-dry	1	01/25/06 21:48
1,4-Dichlorobenzene	ND		380	2.2	µg/Kg-dry	1	01/25/06 21:48
2,4,5-Trichlorophenol	ND		1900	38	µg/Kg-dry	1	01/25/06 21:48
2,4,6-Trichlorophenol	ND		380	3.5	µg/Kg-dry	1	01/25/06 21:48
2,4-Dichlorophenol	ND		380	3.5	µg/Kg-dry	1	01/25/06 21:48
2,4-Dimethylphenol	ND		380	3.2	µg/Kg-dry	1	01/25/06 21:48
2,4-Dinitrophenol	ND		1900	70	µg/Kg-dry	1	01/25/06 21:48
2,4-Dinitrotoluene	ND		380	3.2	µg/Kg-dry	1	01/25/06 21:48
2,6-Dinitrotoluene	ND		380	3.7	µg/Kg-dry	1	01/25/06 21:48
2-Chloronaphthalene	ND		380	1.8	µg/Kg-dry	1	01/25/06 21:48
2-Chlorophenol	ND		380	2.5	µg/Kg-dry	1	01/25/06 21:48
2-Methylnaphthalene	190 J		380	1.8	µg/Kg-dry	1	01/25/06 21:48
2-Methylphenol	ND		380	2.4	µg/Kg-dry	1	01/25/06 21:48
2-Nitroaniline	ND		1900	4.0	µg/Kg-dry	1	01/25/06 21:48
2-Nitrophenol	ND		380	4.4	µg/Kg-dry	1	01/25/06 21:48
3,3'-Dichlorobenzidine	ND		760	9.4	µg/Kg-dry	1	01/25/06 21:48
3-Nitroaniline	ND		1900	13	µg/Kg-dry	1	01/25/06 21:48
4,6-Dinitro-2-methylphenol	ND		1900	31	µg/Kg-dry	1	01/25/06 21:48
4-Bromophenyl phenyl ether	ND		380	2.7	µg/Kg-dry	1	01/25/06 21:48
4-Chloro-3-methylphenol	ND		380	3.0	µg/Kg-dry	1	01/25/06 21:48
4-Chloroaniline	ND		380	4.7	µg/Kg-dry	1	01/25/06 21:48
4-Chlorophenyl phenyl ether	ND		380	2.9	µg/Kg-dry	1	01/25/06 21:48
4-Methylphenol	ND		380	2.2	µg/Kg-dry	1	01/25/06 21:48
4-Nitroaniline	ND		1900	6.4	µg/Kg-dry	1	01/25/06 21:48
4-Nitrophenol	ND		1900	15	µg/Kg-dry	1	01/25/06 21:48
Acenaphthene	ND		380	1.3	µg/Kg-dry	1	01/25/06 21:48
Acenaphthylene	ND		380	1.7	µg/Kg-dry	1	01/25/06 21:48
Aniline	ND		380	4.7	µg/Kg-dry	1	01/25/06 21:48
Anthracene	ND		380	1.6	µg/Kg-dry	1	01/25/06 21:48
Benzo[a]anthracene	120 J		380	1.6	µg/Kg-dry	1	01/25/06 21:48
Benzo[a]pyrene	120 J		380	1.9	µg/Kg-dry	1	01/25/06 21:48
Benzo[b]fluoranthene	190 J		380	2.8	µg/Kg-dry	1	01/25/06 21:48
Benzo[g,h,i]perylene	73 J		380	1.9	µg/Kg-dry	1	01/25/06 21:48

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 13.2

Revision: 01/31/06 10:18:39 A

TestCode: 8270S TAGML

Lab ID: 0601049-002B

Client Sample ID: BH-20-D

Collection Date: 01/11/06 8:05

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3882.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	63	J	380	2.5	µg/Kg-dry	1	01/25/06 21:48
Benzoic acid	ND		1900	120	µg/Kg-dry	1	01/25/06 21:48
Benzyl alcohol	ND		380	4.2	µg/Kg-dry	1	01/25/06 21:48
bis(2-Chloroethoxy)methane	ND		380	1.5	µg/Kg-dry	1	01/25/06 21:48
bis(2-chloroethyl)ether	ND		380	2.2	µg/Kg-dry	1	01/25/06 21:48
bis(2-chloroisopropyl)ether	ND		380	2.2	µg/Kg-dry	1	01/25/06 21:48
bis(2-Ethylhexyl)phthalate	71	J	380	13	µg/Kg-dry	1	01/25/06 21:48
Butyl benzyl phthalate	ND		380	2.5	µg/Kg-dry	1	01/25/06 21:48
Chrysene	150	J	380	1.8	µg/Kg-dry	1	01/25/06 21:48
Di-n-butyl phthalate	88	J	380	3.2	µg/Kg-dry	1	01/25/06 21:48
Di-n-octyl phthalate	ND		380	1.8	µg/Kg-dry	1	01/25/06 21:48
Dibenz[a,h]anthracene	ND		380	1.5	µg/Kg-dry	1	01/25/06 21:48
Dibenzofuran	56	J	380	1.7	µg/Kg-dry	1	01/25/06 21:48
Diethyl phthalate	ND		380	2.7	µg/Kg-dry	1	01/25/06 21:48
Dimethyl phthalate	ND		380	2.0	µg/Kg-dry	1	01/25/06 21:48
Fluoranthene	210	J	380	1.8	µg/Kg-dry	1	01/25/06 21:48
Fluorene	ND		380	1.9	µg/Kg-dry	1	01/25/06 21:48
Hexachlorobenzene	ND		380	3.0	µg/Kg-dry	1	01/25/06 21:48
Hexachlorobutadiene	ND		380	4.1	µg/Kg-dry	1	01/25/06 21:48
Hexachlorocyclopentadiene	ND		380	15	µg/Kg-dry	1	01/25/08 21:48
Hexachloroethane	ND		380	4.1	µg/Kg-dry	1	01/25/06 21:48
Indeno[1,2,3-cd]pyrene	60	J	380	1.5	µg/Kg-dry	1	01/25/06 21:48
Isophorone	ND		380	1.8	µg/Kg-dry	1	01/25/06 21:48
N-Nitroso-di-n-propylamine	ND		380	3.3	µg/Kg-dry	1	01/25/06 21:48
N-Nitrosodiphenylamine	ND		380	1.8	µg/Kg-dry	1	01/25/06 21:48
Naphthalene	120	J	380	1.2	µg/Kg-dry	1	01/25/06 21:48
Nitrobenzene	ND		380	2.3	µg/Kg-dry	1	01/25/06 21:48
Pentachlorophenol	ND		1900	32	µg/Kg-dry	1	01/25/06 21:48
Phenanthrene	190	J	380	1.4	µg/Kg-dry	1	01/25/06 21:48
Phenol	ND		380	1.6	µg/Kg-dry	1	01/25/06 21:48
Pyrene	180	J	380	1.8	µg/Kg-dry	1	01/25/06 21:48
Surr: 2,4,6-Tribromophenol	113		20-143	0	%REC	1	01/25/06 21:48
Surr: 2-Fluorobiphenyl	91.0		46-130	0	%REC	1	01/25/06 21:48
Surr: 2-Fluorophenol	77.1		22-130	0	%REC	1	01/25/08 21:48
Surr: Nitrobenzene-d5	80.0		39-130	0	%REC	1	01/25/06 21:48

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 13.2

Revision: 01/31/06 10:18:39 A

TestCode: 8270S TAGML

Lab ID: 0601049-002B

Client Sample ID: BH-20-D

Collection Date: 01/11/06 8:05

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3882.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr. Phenol-d5	74.6	33-130	0		%REC	1	01/25/06 21:48
Surr. Terphenyl-d14	95.2	36-146	0		%REC	1	01/25/06 21:48

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 13.5

Revision: 01/31/06 10:18:39 A

TestCode: 8270S TAGML

Lab ID: 0601049-003B

Client Sample ID: BH-21-S

Collection Date: 01/10/06 15:15

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3885.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		380	3.0	µg/Kg-dry	1	01/25/06 23:40
1,2-Dichlorobenzene	ND		380	2.7	µg/Kg-dry	1	01/25/06 23:40
1,3-Dichlorobenzene	ND		380	1.8	µg/Kg-dry	1	01/25/06 23:40
1,4-Dichlorobenzene	ND		380	2.2	µg/Kg-dry	1	01/25/06 23:40
2,4,5-Trichlorophenol	ND		1900	38	µg/Kg-dry	1	01/25/06 23:40
2,4,6-Trichlorophenol	ND		380	3.6	µg/Kg-dry	1	01/25/06 23:40
2,4-Dichlorophenol	ND		380	3.5	µg/Kg-dry	1	01/25/06 23:40
2,4-Dimethylphenol	ND		380	3.3	µg/Kg-dry	1	01/25/06 23:40
2,4-Dinitrophenol	ND		1900	70	µg/Kg-dry	1	01/25/06 23:40
2,4-Dinitrotoluene	ND		380	3.2	µg/Kg-dry	1	01/25/06 23:40
2,6-Dinitrotoluene	ND		380	3.7	µg/Kg-dry	1	01/25/06 23:40
2-Chloronaphthalene	ND		380	1.8	µg/Kg-dry	1	01/25/06 23:40
2-Chlorophenol	ND		380	2.5	µg/Kg-dry	1	01/25/06 23:40
2-Methylnaphthalene	ND		380	1.8	µg/Kg-dry	1	01/25/06 23:40
2-Methylphenol	ND		380	2.4	µg/Kg-dry	1	01/25/06 23:40
2-Nitroaniline	ND		1900	4.0	µg/Kg-dry	1	01/25/06 23:40
2-Nitrophenol	ND		380	4.4	µg/Kg-dry	1	01/25/06 23:40
3,3'-Dichlorobenzidine	ND		760	9.4	µg/Kg-dry	1	01/25/06 23:40
3-Nitroaniline	ND		1900	13	µg/Kg-dry	1	01/25/06 23:40
4,6-Dinitro-2-methylphenol	ND		1900	31	µg/Kg-dry	1	01/25/06 23:40
4-Bromophenyl phenyl ether	ND		380	2.7	µg/Kg-dry	1	01/25/06 23:40
4-Chloro-3-methylphenol	ND		380	3.0	µg/Kg-dry	1	01/25/06 23:40
4-Chloroaniline	ND		380	4.7	µg/Kg-dry	1	01/25/06 23:40
4-Chlorophenyl phenyl ether	ND		380	2.9	µg/Kg-dry	1	01/25/06 23:40
4-Methylphenol	ND		380	2.2	µg/Kg-dry	1	01/25/06 23:40
4-Nitroaniline	ND		1900	6.4	µg/Kg-dry	1	01/25/06 23:40
4-Nitrophenol	ND		1900	15	µg/Kg-dry	1	01/25/06 23:40
Acenaphthene	ND		380	1.4	µg/Kg-dry	1	01/25/06 23:40
Acenaphthylene	ND		380	1.7	µg/Kg-dry	1	01/25/06 23:40
Aniline	ND		380	4.7	µg/Kg-dry	1	01/25/06 23:40
Anthracene	ND		380	1.6	µg/Kg-dry	1	01/25/06 23:40
Benzo[a]anthracene	61 J		380	1.6	µg/Kg-dry	1	01/25/06 23:40
Benzo[a]pyrene	74 J		380	1.9	µg/Kg-dry	1	01/25/06 23:40
Benzo[b]fluoranthene	120 J		380	2.8	µg/Kg-dry	1	01/25/06 23:40
Benzo[g,h,i]perylene	49 J		380	1.9	µg/Kg-dry	1	01/25/06 23:40

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 13.5

Revision: 01/31/06 10:18:39 A

TestCode: 8270S TAGML

Lab ID: 0601049-003B

Client Sample ID: BH-21-S

Collection Date: 01/10/06 15:15

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3885.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND		380	2.5	µg/Kg-dry	1	01/25/06 23:40
Benzoic acid	ND		1900	120	µg/Kg-dry	1	01/25/06 23:40
Benzyl alcohol	ND		380	4.2	µg/Kg-dry	1	01/25/06 23:40
bis(2-Chloroethoxy)methane	ND		380	1.5	µg/Kg-dry	1	01/25/06 23:40
bis(2-chloroethyl)ether	ND		380	2.2	µg/Kg-dry	1	01/25/06 23:40
bis(2-chloroisopropyl)ether	ND		380	2.2	µg/Kg-dry	1	01/25/06 23:40
bis(2-Ethylhexyl)phthalate	43 J		380	13	µg/Kg-dry	1	01/25/06 23:40
Butyl benzyl phthalate	ND		380	2.5	µg/Kg-dry	1	01/25/06 23:40
Chrysene	81 J		380	1.8	µg/Kg-dry	1	01/25/06 23:40
Di-n-butyl phthalate	56 J		380	3.2	µg/Kg-dry	1	01/25/06 23:40
Di-n-octyl phthalate	ND		380	1.8	µg/Kg-dry	1	01/25/06 23:40
Dibenz[a,h]anthracene	ND		380	1.5	µg/Kg-dry	1	01/25/06 23:40
Dibenzofuran	ND		380	1.7	µg/Kg-dry	1	01/25/06 23:40
Diethyl phthalate	ND		380	2.8	µg/Kg-dry	1	01/25/06 23:40
Dimethyl phthalate	ND		380	2.0	µg/Kg-dry	1	01/25/06 23:40
Fluoranthene	120 J		380	1.8	µg/Kg-dry	1	01/25/06 23:40
Fluorene	ND		380	1.9	µg/Kg-dry	1	01/25/06 23:40
Hexachlorobenzene	ND		380	3.0	µg/Kg-dry	1	01/25/06 23:40
Hexachlorobutadiene	ND		380	4.1	µg/Kg-dry	1	01/25/06 23:40
Hexachlorocyclopentadiene	ND		380	15	µg/Kg-dry	1	01/25/06 23:40
Hexachloroethane	ND		380	4.1	µg/Kg-dry	1	01/25/06 23:40
Indeno[1,2,3-cd]pyrene	40 J		380	1.5	µg/Kg-dry	1	01/25/06 23:40
Isophorone	ND		380	1.8	µg/Kg-dry	1	01/25/06 23:40
N-Nitroso-di-n-propylamine	ND		380	3.3	µg/Kg-dry	1	01/25/06 23:40
N-Nitrosodiphenylamine	ND		380	1.8	µg/Kg-dry	1	01/25/06 23:40
Naphthalene	ND		380	1.2	µg/Kg-dry	1	01/25/06 23:40
Nitrobenzene	ND		380	2.3	µg/Kg-dry	1	01/25/06 23:40
Pentachlorophenol	ND		1900	32	µg/Kg-dry	1	01/25/06 23:40
Phenanthrene	50 J		380	1.4	µg/Kg-dry	1	01/25/06 23:40
Phenol	ND		380	1.6	µg/Kg-dry	1	01/25/06 23:40
Pyrene	100 J		380	1.8	µg/Kg-dry	1	01/25/06 23:40
Surr: 2,4,6-Tribromophenol	121		20-143	0	%REC	1	01/25/06 23:40
Surr: 2-Fluorobiphenyl	92.7		46-130	0	%REC	1	01/25/06 23:40
Surr: 2-Fluorophenol	80.0		22-130	0	%REC	1	01/25/06 23:40
Surr: Nitrobenzene-d5	82.2		39-130	0	%REC	1	01/25/06 23:40

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	Lab ID:	0601049-003B
Project:	Geneva Foundry	Client Sample ID:	BH-21-S
W Order:	0601049	Collection Date:	01/10/06 15:15
Matrix:	SOIL	Date Received:	01/12/06 7:50
Inst. ID:	MS05 26	Sample Size:	30 g
ColumnID:	ZB-5	%Moisture:	13.5
Revision:	01/31/06 10:18:39 A	TestCode:	8270S TAGML
		PrepDate:	01/13/06 8:14 A
		BatchNo:	2374/R4378
		FileID:	1-SAMP-N3885.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	77.2	33-130	0	%REC	1		01/25/06 23:40
Surr: Terphenyl-d14	92.3	36-146	0	%REC	1		01/25/06 23:40

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 15.0

Revision: 01/31/06 10:18:39 A

TestCode: 8270S TAGML

Lab ID: 0601049-004B

Client Sample ID: BH-21-D

Collection Date: 01/10/06 15:25

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3886.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		390	3.1	µg/Kg-dry	1	01/26/06 0:18
1,2-Dichlorobenzene	ND		390	2.8	µg/Kg-dry	1	01/26/06 0:18
1,3-Dichlorobenzene	ND		390	1.9	µg/Kg-dry	1	01/26/06 0:18
1,4-Dichlorobenzene	ND		390	2.2	µg/Kg-dry	1	01/26/06 0:18
2,4,5-Trichlorophenol	ND		2000	39	µg/Kg-dry	1	01/26/06 0:18
2,4,6-Trichlorophenol	ND		390	3.6	µg/Kg-dry	1	01/26/06 0:18
2,4-Dichlorophenol	ND		390	3.6	µg/Kg-dry	1	01/26/06 0:18
2,4-Dimethylphenol	ND		390	3.3	µg/Kg-dry	1	01/26/06 0:18
2,4-Dinitrophenol	ND		2000	71	µg/Kg-dry	1	01/26/06 0:18
2,4-Dinitrotoluene	ND		390	3.2	µg/Kg-dry	1	01/26/06 0:18
2,6-Dinitrotoluene	ND		390	3.8	µg/Kg-dry	1	01/26/06 0:18
2-Chloronaphthalene	ND		390	1.9	µg/Kg-dry	1	01/26/06 0:18
2-Chlorophenol	ND		390	2.6	µg/Kg-dry	1	01/26/06 0:18
2-Methylnaphthalene	ND		390	1.9	µg/Kg-dry	1	01/26/06 0:18
2-Methylphenol	ND		390	2.4	µg/Kg-dry	1	01/26/06 0:18
2-Nitroaniline	ND		2000	4.1	µg/Kg-dry	1	01/26/06 0:18
2-Nitrophenol	ND		390	4.5	µg/Kg-dry	1	01/26/06 0:18
3,3'-Dichlorobenzidine	ND		780	9.6	µg/Kg-dry	1	01/26/06 0:18
3-Nitroaniline	ND		2000	13	µg/Kg-dry	1	01/26/06 0:18
4,6-Dinitro-2-methylphenol	ND		2000	32	µg/Kg-dry	1	01/26/06 0:18
4-Bromophenyl phenyl ether	ND		390	2.7	µg/Kg-dry	1	01/26/06 0:18
4-Chloro-3-methylphenol	ND		390	3.1	µg/Kg-dry	1	01/26/06 0:18
4-Chloroaniline	ND		390	4.8	µg/Kg-dry	1	01/26/06 0:18
4-Chlorophenyl phenyl ether	ND		390	3.0	µg/Kg-dry	1	01/26/06 0:18
4-Methylphenol	ND		390	2.2	µg/Kg-dry	1	01/26/06 0:18
4-Nitroaniline	ND		2000	6.5	µg/Kg-dry	1	01/26/06 0:18
4-Nitrophenol	ND		2000	16	µg/Kg-dry	1	01/26/06 0:18
Acenaphthene	ND		390	1.4	µg/Kg-dry	1	01/26/06 0:18
Acenaphthylene	ND		390	1.7	µg/Kg-dry	1	01/26/06 0:18
Aniline	ND		390	4.8	µg/Kg-dry	1	01/26/06 0:18
Anthracene	66 J		390	1.6	µg/Kg-dry	1	01/26/06 0:18
Benzo[a]anthracene	270 J		390	1.7	µg/Kg-dry	1	01/26/06 0:18
Benzo[a]pyrene	280 J		390	1.9	µg/Kg-dry	1	01/26/06 0:18
Benzo[b]fluoranthene	430		390	2.8	µg/Kg-dry	1	01/26/06 0:18
Benzo[g,h,i]perylene	150 J		390	2.0	µg/Kg-dry	1	01/26/06 0:18

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 15.0

Revision: 01/31/06 10:18:39 A

TestCode: 8270S TAGML

Lab ID: 0601049-004B

Client Sample ID: BH-21-D

Collection Date: 01/10/06 15:25

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3886.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	170	J	390	2.5	µg/Kg-dry	1	01/26/06 0:18
Benzoic acid	ND		2000	120	µg/Kg-dry	1	01/26/06 0:18
Benzyl alcohol	ND		390	4.3	µg/Kg-dry	1	01/26/06 0:18
bis(2-Chloroethoxy)methane	ND		390	1.5	µg/Kg-dry	1	01/26/06 0:18
bis(2-chloroethyl)ether	ND		390	2.2	µg/Kg-dry	1	01/26/06 0:18
bis(2-chloroisopropyl)ether	ND		390	2.2	µg/Kg-dry	1	01/26/06 0:18
bis(2-Ethylhexyl)phthalate	53	J	390	13	µg/Kg-dry	1	01/26/06 0:18
Butyl benzyl phthalate	ND		390	2.8	µg/Kg-dry	1	01/26/06 0:18
Chrysene	350	J	390	1.8	µg/Kg-dry	1	01/26/06 0:18
Di-n-butyl phthalate	60	J	390	3.2	µg/Kg-dry	1	01/26/06 0:18
Di-n-octyl phthalate	ND		390	1.8	µg/Kg-dry	1	01/26/06 0:18
Dibenz[a,h]anthracene	49	J	390	1.6	µg/Kg-dry	1	01/26/06 0:18
Dibenzofuran	ND		390	1.7	µg/Kg-dry	1	01/26/06 0:18
Diethyl phthalate	ND		390	2.8	µg/Kg-dry	1	01/26/06 0:18
Dimethyl phthalate	ND		390	2.0	µg/Kg-dry	1	01/26/06 0:18
Fluoranthene	570		390	1.8	µg/Kg-dry	1	01/26/06 0:18
Fluorene	ND		390	1.9	µg/Kg-dry	1	01/26/06 0:18
Hexachlorobenzene	ND		390	3.1	µg/Kg-dry	1	01/26/06 0:18
Hexachlorobutadiene	ND		390	4.1	µg/Kg-dry	1	01/26/06 0:18
Hexachlorocyclopentadiene	ND		390	15	µg/Kg-dry	1	01/26/06 0:18
Hexachloroethane	ND		390	4.2	µg/Kg-dry	1	01/26/06 0:18
Indeno[1,2,3-cd]pyrene	110	J	390	1.6	µg/Kg-dry	1	01/26/06 0:18
Isophorone	ND		390	1.9	µg/Kg-dry	1	01/26/06 0:18
N-Nitroso-di-n-propylamine	ND		390	3.3	µg/Kg-dry	1	01/26/06 0:18
N-Nitrosodiphenylamine	ND		390	1.8	µg/Kg-dry	1	01/26/06 0:18
Naphthalene	ND		390	1.2	µg/Kg-dry	1	01/26/06 0:18
Nitrobenzene	ND		390	2.3	µg/Kg-dry	1	01/26/06 0:18
Pentachlorophenol	ND		2000	32	µg/Kg-dry	1	01/26/06 0:18
Phenanthrene	370	J	390	1.4	µg/Kg-dry	1	01/26/06 0:18
Phenol	ND		390	1.6	µg/Kg-dry	1	01/26/06 0:18
Pyrene	470		390	1.9	µg/Kg-dry	1	01/26/06 0:18
Surr: 2,4,6-Tribromophenol	118		20-143	0	%REC	1	01/26/06 0:18
Surr: 2-Fluorobiphenyl	90.2		46-130	0	%REC	1	01/26/06 0:18
Surr: 2-Fluorophenol	77.8		22-130	0	%REC	1	01/26/06 0:18
Surr: Nitrobenzene-d5	81.4		39-130	0	%REC	1	01/26/06 0:18

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 15.0

Revision: 01/31/06 10:18:39 A

TestCode: 8270S TAGML

Lab ID: 0601049-004B

Client Sample ID: BH-21-D

Collection Date: 01/10/06 15:25

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3886.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	75.8	33-130	0	%REC	1		01/26/06 0:18
Surr: Terphenyl-d14	95.8	36-146	0	%REC	1		01/26/06 0:18

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:18:39 A

Sample Size: 30 g

%Moisture: 14.8

TestCode: 8270S TAGML

Lab ID: 0601049-005B

Client Sample ID: BH-22-S

Collection Date: 01/10/06 13:00

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3887.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		390	3.1	µg/Kg-dry	1	01/26/06 0:55
1,2-Dichlorobenzene	ND		390	2.7	µg/Kg-dry	1	01/26/06 0:55
1,3-Dichlorobenzene	ND		390	1.9	µg/Kg-dry	1	01/26/06 0:55
1,4-Dichlorobenzene	ND		390	2.2	µg/Kg-dry	1	01/26/06 0:55
2,4,5-Trichlorophenol	ND		2000	39	µg/Kg-dry	1	01/26/06 0:55
2,4,6-Trichlorophenol	ND		390	3.6	µg/Kg-dry	1	01/26/06 0:55
2,4-Dichlorophenol	ND		390	3.6	µg/Kg-dry	1	01/26/06 0:55
2,4-Dimethylphenol	ND		390	3.3	µg/Kg-dry	1	01/26/06 0:55
2,4-Dinitrophenol	ND		2000	71	µg/Kg-dry	1	01/26/06 0:55
2,4-Dinitrotoluene	ND		390	3.2	µg/Kg-dry	1	01/26/06 0:55
2,6-Dinitrotoluene	ND		390	3.7	µg/Kg-dry	1	01/26/06 0:55
2-Chloronaphthalene	ND		390	1.9	µg/Kg-dry	1	01/26/06 0:55
2-Chlorophenol	ND		390	2.5	µg/Kg-dry	1	01/26/06 0:55
2-Methylnaphthalene	220 J		390	1.9	µg/Kg-dry	1	01/26/06 0:55
2-Methylphenol	ND		390	2.4	µg/Kg-dry	1	01/26/06 0:55
2-Nitroaniline	ND		2000	4.1	µg/Kg-dry	1	01/26/06 0:55
2-Nitrophenol	ND		390	4.5	µg/Kg-dry	1	01/26/06 0:55
3,3'-Dichlorobenzidine	ND		780	9.6	µg/Kg-dry	1	01/26/06 0:55
3-Nitroaniline	ND		2000	13	µg/Kg-dry	1	01/26/06 0:55
4,6-Dinitro-2-methylphenol	ND		2000	32	µg/Kg-dry	1	01/26/06 0:55
4-Bromophenyl phenyl ether	ND		390	2.7	µg/Kg-dry	1	01/26/06 0:55
4-Chloro-3-methylphenol	ND		390	3.1	µg/Kg-dry	1	01/26/06 0:55
4-Chloroaniline	ND		390	4.8	µg/Kg-dry	1	01/26/06 0:55
4-Chlorophenyl phenyl ether	ND		390	3.0	µg/Kg-dry	1	01/26/06 0:55
4-Methylphenol	ND		390	2.2	µg/Kg-dry	1	01/26/06 0:55
4-Nitroaniline	ND		2000	6.5	µg/Kg-dry	1	01/26/06 0:55
4-Nitrophenol	ND		2000	16	µg/Kg-dry	1	01/26/06 0:55
Acenaphthene	ND		390	1.4	µg/Kg-dry	1	01/26/06 0:55
Acenaphthylene	60 J		390	1.7	µg/Kg-dry	1	01/26/06 0:55
Aniline	ND		390	4.8	µg/Kg-dry	1	01/26/06 0:55
Anthracene	88 J		390	1.6	µg/Kg-dry	1	01/26/06 0:55
Benzo[a]anthracene	420		390	1.7	µg/Kg-dry	1	01/26/06 0:55
Benzo[a]pyrene	480		390	1.9	µg/Kg-dry	1	01/26/06 0:55
Benzo[b]fluoranthene	850		390	2.8	µg/Kg-dry	1	01/26/06 0:55
Benzo[g,h,i]perylene	270 J		390	2.0	µg/Kg-dry	1	01/26/06 0:55

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:18:39 A

Sample Size: 30 g

%Moisture: 14.8

TestCode: 8270S TAGML

Lab ID: 0601049-005B

Client Sample ID: BH-22-S

Collection Date: 01/10/06 13:00

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3887.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	270 J	390		2.5	µg/Kg-dry	1	01/26/06 0:55
Benzoic acid	ND	2000		120	µg/Kg-dry	1	01/26/06 0:55
Benzyl alcohol	ND	390		4.3	µg/Kg-dry	1	01/26/06 0:55
bis(2-Chloroethoxy)methane	ND	390		1.5	µg/Kg-dry	1	01/26/06 0:55
bis(2-chloroethyl)ether	ND	390		2.2	µg/Kg-dry	1	01/26/06 0:55
bis(2-chloroisopropyl)ether	ND	390		2.2	µg/Kg-dry	1	01/26/06 0:55
bis(2-Ethylhexyl)phthalate	160 J	390		13	µg/Kg-dry	1	01/26/06 0:55
Butyl benzyl phthalate	ND	390		2.5	µg/Kg-dry	1	01/26/06 0:55
Chrysene	540	390		1.8	µg/Kg-dry	1	01/26/06 0:55
Di-n-butyl phthalate	58 J	390		3.2	µg/Kg-dry	1	01/26/06 0:55
Di-n-octyl phthalate	ND	390		1.8	µg/Kg-dry	1	01/26/06 0:55
Dibenz[a,h]anthracene	75 J	390		1.6	µg/Kg-dry	1	01/26/06 0:55
Dibenzofuran	76 J	390		1.7	µg/Kg-dry	1	01/26/06 0:55
Diethyl phthalate	ND	390		2.8	µg/Kg-dry	1	01/26/06 0:55
Dimethyl phthalate	ND	390		2.0	µg/Kg-dry	1	01/26/06 0:55
Fluoranthene	690	390		1.8	µg/Kg-dry	1	01/26/06 0:55
Fluorene	ND	390		1.9	µg/Kg-dry	1	01/26/06 0:55
Hexachlorobenzene	ND	390		3.1	µg/Kg-dry	1	01/26/06 0:55
Hexachlorobutadiene	ND	390		4.1	µg/Kg-dry	1	01/26/06 0:55
Hexachlorocyclopentadiene	ND	390		15	µg/Kg-dry	1	01/26/06 0:55
Hexachloroethane	ND	390		4.2	µg/Kg-dry	1	01/26/06 0:55
Indeno[1,2,3-cd]pyrene	150 J	390		1.6	µg/Kg-dry	1	01/26/06 0:55
Isophorone	ND	390		1.9	µg/Kg-dry	1	01/26/06 0:55
N-Nitroso-di-n-propylamine	ND	390		3.3	µg/Kg-dry	1	01/26/06 0:55
N-Nitrosodiphenylamine	ND	390		1.8	µg/Kg-dry	1	01/26/06 0:55
Naphthalene	180 J	390		1.2	µg/Kg-dry	1	01/26/06 0:55
Nitrobenzene	ND	390		2.3	µg/Kg-dry	1	01/26/06 0:55
Pentachlorophenol	ND	2000		32	µg/Kg-dry	1	01/26/06 0:55
Phenanthrene	480	390		1.4	µg/Kg-dry	1	01/26/06 0:55
Phenol	40 J	390		1.6	µg/Kg-dry	1	01/26/06 0:55
Pyrene	680	390		1.9	µg/Kg-dry	1	01/26/06 0:55
Surr. 2,4,6-Tribromophenol	112	20-143		0	%REC	1	01/26/06 0:55
Surr. 2-Fluorobiphenyl	87.0	46-130		0	%REC	1	01/26/06 0:55
Surr. 2-Fluorophenol	71.9	22-130		0	%REC	1	01/26/06 0:55
Surr. Nitrobenzene-d5	74.8	39-130		0	%REC	1	01/26/06 0:55

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 14.8

Revision: 01/31/06 10:18:39 A

TestCode: 8270S TAGML

Lab ID: 0601049-005B

Client Sample ID: BH-22-S

Collection Date: 01/10/06 13:00

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3887.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	70.9	33-130	0	%REC	1		01/26/06 0:55
Surr: Terphenyl-d14	102	36-146	0	%REC	1		01/26/06 0:55

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander

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Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:18:39 A

Sample Size: 30 g

%Moisture: 14.3

TestCode: 8270S TAGML

Lab ID: 0601049-006B

Client Sample ID: BH-22-D

Collection Date: 01/10/06 13:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3888.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		380	3.1	µg/Kg-dry	1	01/26/06 1:32
1,2-Dichlorobenzene	ND		380	2.7	µg/Kg-dry	1	01/26/06 1:32
1,3-Dichlorobenzene	ND		380	1.8	µg/Kg-dry	1	01/26/06 1:32
1,4-Dichlorobenzene	ND		380	2.2	µg/Kg-dry	1	01/26/06 1:32
2,4,5-Trichlorophenol	ND		1900	38	µg/Kg-dry	1	01/26/06 1:32
2,4,6-Trichlorophenol	ND		380	3.6	µg/Kg-dry	1	01/26/06 1:32
2,4-Dichlorophenol	ND		380	3.6	µg/Kg-dry	1	01/26/06 1:32
2,4-Dimethylphenol	ND		380	3.3	µg/Kg-dry	1	01/26/06 1:32
2,4-Dinitrophenol	ND		1900	70	µg/Kg-dry	1	01/26/06 1:32
2,4-Dinitrotoluene	ND		380	3.2	µg/Kg-dry	1	01/26/06 1:32
2,6-Dinitrotoluene	ND		380	3.7	µg/Kg-dry	1	01/26/06 1:32
2-Chloronaphthalene	ND		380	1.8	µg/Kg-dry	1	01/26/06 1:32
2-Chlorophenol	ND		380	2.5	µg/Kg-dry	1	01/26/06 1:32
2-Methylnaphthalene	86 J		380	1.9	µg/Kg-dry	1	01/26/06 1:32
2-Methylphenol	ND		380	2.4	µg/Kg-dry	1	01/28/06 1:32
2-Nitroaniline	ND		1900	4.1	µg/Kg-dry	1	01/26/06 1:32
2-Nitrophenol	ND		380	4.4	µg/Kg-dry	1	01/26/06 1:32
3,3'-Dichlorobenzidine	ND		770	9.5	µg/Kg-dry	1	01/26/08 1:32
3-Nitroaniline	ND		1900	13	µg/Kg-dry	1	01/26/06 1:32
4,6-Dinitro-2-methylphenol	ND		1900	31	µg/Kg-dry	1	01/28/06 1:32
4-Bromophenyl phenyl ether	ND		380	2.7	µg/Kg-dry	1	01/26/06 1:32
4-Chloro-3-methylphenol	ND		380	3.1	µg/Kg-dry	1	01/26/06 1:32
4-Chloroaniline	ND		380	4.7	µg/Kg-dry	1	01/26/06 1:32
4-Chlorophenyl phenyl ether	ND		380	3.0	µg/Kg-dry	1	01/26/06 1:32
4-Methylphenol	ND		380	2.2	µg/Kg-dry	1	01/26/06 1:32
4-Nitroaniline	ND		1900	6.4	µg/Kg-dry	1	01/26/06 1:32
4-Nitrophenol	ND		1900	15	µg/Kg-dry	1	01/26/06 1:32
Acenaphthene	ND		380	1.4	µg/Kg-dry	1	01/26/06 1:32
Acenaphthylene	ND		380	1.7	µg/Kg-dry	1	01/26/06 1:32
Aniline	ND		380	4.8	µg/Kg-dry	1	01/26/06 1:32
Anthracene	92 J		380	1.6	µg/Kg-dry	1	01/26/06 1:32
Benzo[a]anthracene	350 J		380	1.6	µg/Kg-dry	1	01/26/06 1:32
Benzo[a]pyrene	460		380	1.9	µg/Kg-dry	1	01/26/06 1:32
Benzo[b]fluoranthene	690		380	2.8	µg/Kg-dry	1	01/26/06 1:32
Benzo[g,h,i]perylene	280 J		380	2.0	µg/Kg-dry	1	01/26/06 1:32

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:18:39 A

Sample Size: 30 g

%Moisture: 14.3

TestCode: 8270S TAGML

Lab ID: 0601049-006B

Client Sample ID: BH-22-D

Collection Date: 01/10/06 13:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: I-SAMP-N3888.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	240	J	380	2.5	µg/Kg-dry	1	01/26/06 1:32
Benzoic acid	ND		1900	120	µg/Kg-dry	1	01/26/06 1:32
Benzyl alcohol	ND		380	4.3	µg/Kg-dry	1	01/26/06 1:32
bis(2-Chloroethoxy)methane	ND		380	1.5	µg/Kg-dry	1	01/26/06 1:32
bis(2-chloroethyl)ether	ND		380	2.2	µg/Kg-dry	1	01/26/06 1:32
bis(2-chloroisopropyl)ether	ND		380	2.2	µg/Kg-dry	1	01/26/06 1:32
bis(2-Ethylhexyl)phthalate	140	J	380	13	µg/Kg-dry	1	01/26/06 1:32
Butyl benzyl phthalate	ND		380	2.5	µg/Kg-dry	1	01/26/06 1:32
Chrysene	420		380	1.8	µg/Kg-dry	1	01/26/06 1:32
Di-n-butyl phthalate	ND		380	3.2	µg/Kg-dry	1	01/26/06 1:32
Di-n-octyl phthalate	ND		380	1.8	µg/Kg-dry	1	01/26/06 1:32
Dibenz[a,h]anthracene	69	J	380	1.6	µg/Kg-dry	1	01/26/06 1:32
Dibenzofuran	45	J	380	1.7	µg/Kg-dry	1	01/26/06 1:32
Diethyl phthalate	ND		380	2.8	µg/Kg-dry	1	01/26/06 1:32
Dimethyl phthalate	ND		380	2.0	µg/Kg-dry	1	01/26/06 1:32
Fluoranthene	550		380	1.8	µg/Kg-dry	1	01/26/06 1:32
Fluorene	42	J	380	1.9	µg/Kg-dry	1	01/26/06 1:32
Hexachlorobenzene	ND		380	3.1	µg/Kg-dry	1	01/26/06 1:32
Hexachlorobutadiene	ND		380	4.1	µg/Kg-dry	1	01/26/06 1:32
Hexachlorocyclopentadiene	ND		380	15	µg/Kg-dry	1	01/26/06 1:32
Hexachloroethane	ND		380	4.2	µg/Kg-dry	1	01/26/06 1:32
Indeno[1,2,3-cd]pyrene	170	J	380	1.6	µg/Kg-dry	1	01/26/06 1:32
Isophorone	ND		380	1.9	µg/Kg-dry	1	01/26/06 1:32
N-Nitroso-di-n-propylamine	ND		380	3.3	µg/Kg-dry	1	01/26/06 1:32
N-Nitrosodiphenylamine	ND		380	1.8	µg/Kg-dry	1	01/26/06 1:32
Naphthalene	84	J	380	1.2	µg/Kg-dry	1	01/26/06 1:32
Nitrobenzene	ND		380	2.3	µg/Kg-dry	1	01/26/06 1:32
Pentachlorophenol	ND		1900	32	µg/Kg-dry	1	01/26/06 1:32
Phenanthrene	400		380	1.4	µg/Kg-dry	1	01/26/06 1:32
Phenol	ND		380	1.6	µg/Kg-dry	1	01/26/06 1:32
Pyrene	520		380	1.9	µg/Kg-dry	1	01/26/06 1:32
Surr: 2,4,6-Tribromophenol	117		20-143	0	%REC	1	01/26/06 1:32
Surr: 2-Fluorobiphenyl	86.1		46-130	0	%REC	1	01/26/06 1:32
Surr: 2-Fluorophenol	70.9		22-130	0	%REC	1	01/26/06 1:32
Surr: Nitrobenzene-d5	76.8		39-130	0	%REC	1	01/26/06 1:32

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:18:39 A

Sample Size: 30 g

%Moisture: 14.3

TestCode: 8270S TAGML

Lab ID: 0601049-006B

Client Sample ID: BH-22-D

Collection Date: 01/10/06 13:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3888.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr. Phenol-d5	70.6	33-130	0	%REC	1		01/26/06 1:32
Surr. Terphenyl-d14	103	36-146	0	%REC	1		01/26/06 1:32

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 02/10/06 9:27:08 A

Sample Size: 30 g

%Moisture: 6.2

TestCode: 8270S TAGML

Lab ID: 0601049-007B

Client Sample ID: BH-23-S

Collection Date: 01/10/06 14:00

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4500

FileID: 1-SAMP-N4003.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		1800	14	µg/Kg-dry	1	02/10/06 8:34
1,2-Dichlorobenzene	ND		1800	12	µg/Kg-dry	1	02/10/06 8:34
1,3-Dichlorobenzene	ND		1800	8.4	µg/Kg-dry	1	02/10/06 8:34
1,4-Dichlorobenzene	ND		1800	10	µg/Kg-dry	1	02/10/06 8:34
2,4,5-Trichlorophenol	ND		8900	170	µg/Kg-dry	1	02/10/06 8:34
2,4,8-Trichlorophenol	ND		1800	16	µg/Kg-dry	1	02/10/06 8:34
2,4-Dichlorophenol	ND		1800	16	µg/Kg-dry	1	02/10/06 8:34
2,4-Dimethylphenol	ND		1800	15	µg/Kg-dry	1	02/10/06 8:34
2,4-Dinitrophenol	ND		8900	320	µg/Kg-dry	1	02/10/06 8:34
2,4-Dinitrotoluene	ND		1800	15	µg/Kg-dry	1	02/10/06 8:34
2,6-Dinitrotoluene	ND		1800	17	µg/Kg-dry	1	02/10/06 8:34
2-Chloronaphthalene	ND		1800	8.4	µg/Kg-dry	1	02/10/06 8:34
2-Chlorophenol	ND		1800	12	µg/Kg-dry	1	02/10/06 8:34
2-Methylnaphthalene	1100 J		1800	8.5	µg/Kg-dry	1	02/10/06 8:34
2-Methylphenol	ND		1800	11	µg/Kg-dry	1	02/10/06 8:34
2-Nitroaniline	ND		8900	19	µg/Kg-dry	1	02/10/06 8:34
2-Nitrophenol	ND		1800	20	µg/Kg-dry	1	02/10/06 8:34
3,3'-Dichlorobenzidine	ND		3500	43	µg/Kg-dry	1	02/10/06 8:34
3-Nitroaniline	ND		8900	60	µg/Kg-dry	1	02/10/06 8:34
4,6-Dinitro-2-methylphenol	ND		8900	140	µg/Kg-dry	1	02/10/06 8:34
4-Bromophenyl phenyl ether	ND		1800	12	µg/Kg-dry	1	02/10/06 8:34
4-Chloro-3-methylphenol	ND		1800	14	µg/Kg-dry	1	02/10/06 8:34
4-Chloroaniline	ND		1800	22	µg/Kg-dry	1	02/10/06 8:34
4-Chlorophenyl phenyl ether	ND		1800	13	µg/Kg-dry	1	02/10/06 8:34
4-Methylphenol	ND		1800	10	µg/Kg-dry	1	02/10/06 8:34
4-Nitroaniline	ND		8900	29	µg/Kg-dry	1	02/10/06 8:34
4-Nitrophenol	ND		8900	70	µg/Kg-dry	1	02/10/06 8:34
Acenaphthene	ND		1800	6.2	µg/Kg-dry	1	02/10/06 8:34
Acenaphthylene	ND		1800	7.9	µg/Kg-dry	1	02/10/06 8:34
Aniline	ND		1800	22	µg/Kg-dry	1	02/10/06 8:34
Anthracene	ND		1800	7.2	µg/Kg-dry	1	02/10/06 8:34
Benzo[a]anthracene	320 J		1800	7.5	µg/Kg-dry	1	02/10/06 8:34
Benzo[a]pyrene	320 J		1800	8.8	µg/Kg-dry	1	02/10/06 8:34
Benzo[b]fluoranthene	690 J		1800	13	µg/Kg-dry	1	02/10/06 8:34
Benzo[g,h,i]perylene	230 J		1800	9.0	µg/Kg-dry	1	02/10/06 8:34

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 02/10/06 9:47

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 02/10/06 9:27:08 A

Sample Size: 30 g

%Moisture: 6.2

TestCode: 8270S TAGML

Lab ID: 0601049-007B

Client Sample ID: BH-23-S

Collection Date: 01/10/06 14:00

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4500

FileID: 1-SAMP-N4003.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	180	J	1800	11	µg/Kg-dry	1	02/10/06 8:34
Benzoic acid	ND		8900	560	µg/Kg-dry	1	02/10/06 8:34
Benzyl alcohol	ND		1800	20	µg/Kg-dry	1	02/10/06 8:34
bis(2-Chloroethoxy)methane	ND		1800	6.8	µg/Kg-dry	1	02/10/08 8:34
bis(2-chloroethyl)ether	ND		1800	10	µg/Kg-dry	1	02/10/06 8:34
bis(2-chloroisopropyl)ether	ND		1800	10	µg/Kg-dry	1	02/10/06 8:34
bis(2-Ethylhexyl)phthalate	ND		1800	58	µg/Kg-dry	1	02/10/06 8:34
Butyl benzyl phthalate	ND		1800	12	µg/Kg-dry	1	02/10/06 8:34
Chrysene	540	J	1800	8.4	µg/Kg-dry	1	02/10/06 8:34
Di-n-butyl phthalate	ND		1800	15	µg/Kg-dry	1	02/10/06 8:34
Di-n-octyl phthalate	ND		1800	8.4	µg/Kg-dry	1	02/10/06 8:34
Dibenz[a,h]anthracene	ND		1800	7.1	µg/Kg-dry	1	02/10/06 8:34
Dibenzofuran	ND		1800	7.7	µg/Kg-dry	1	02/10/06 8:34
Diethyl phthalate	ND		1800	13	µg/Kg-dry	1	02/10/06 8:34
Dimethyl phthalate	ND		1800	9.1	µg/Kg-dry	1	02/10/06 8:34
Fluoranthene	400	J	1800	8.2	µg/Kg-dry	1	02/10/06 8:34
Fluorene	ND		1800	8.8	µg/Kg-dry	1	02/10/06 8:34
Hexachlorobenzene	ND		1800	14	µg/Kg-dry	1	02/10/06 8:34
Hexachlorobutadiene	ND		1800	19	µg/Kg-dry	1	02/10/08 8:34
Hexachlorocyclopentadiene	ND		1800	68	µg/Kg-dry	1	02/10/06 8:34
Hexachloroethane	ND		1800	19	µg/Kg-dry	1	02/10/06 8:34
Indeno[1,2,3-cd]pyrene	ND		1600	7.1	µg/Kg-dry	1	02/10/06 8:34
Isophorone	ND		1800	8.5	µg/Kg-dry	1	02/10/06 8:34
N-Nitroso-di-n-propylamine	ND		1800	15	µg/Kg-dry	1	02/10/06 8:34
N-Nitrosodiphenylamine	ND		1800	8.4	µg/Kg-dry	1	02/10/06 8:34
Naphthalene	320	J	1800	5.3	µg/Kg-dry	1	02/10/06 8:34
Nitrobenzene	ND		1800	11	µg/Kg-dry	1	02/10/06 8:34
Pentachlorophenol	ND		8900	150	µg/Kg-dry	1	02/10/06 8:34
Phenanthrene	900	J	1800	6.3	µg/Kg-dry	1	02/10/06 8:34
Phenol	ND		1800	7.2	µg/Kg-dry	1	02/10/06 8:34
Pyrene	560	J	1800	8.5	µg/Kg-dry	1	02/10/06 8:34
Surr: 2,4,6-Tribromophenol	79.4		20-143	0	%REC	1	02/10/06 8:34
Surr: 2-Fluorobiphenyl	103		46-130	0	%REC	1	02/10/06 8:34
Surr: 2-Fluorophenol	94.3		22-130	0	%REC	1	02/10/06 8:34
Surr: Nitrobenzene-d5	98.6		39-130	0	%REC	1	02/10/06 8:34

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 02/10/06 9:27:08 A

Sample Size: 30 g

%Moisture: 6.2

TestCode: 8270S TAGML

Lab ID: 0601049-007B

Client Sample ID: BH-23-S

Collection Date: 01/10/06 14:00

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4500

FileID: 1-SAMP-N4003.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	94.9		33-130	0	%REC	1	02/10/06 8:34
Surr: Terphenyl-d14	121		36-146	0	%REC	1	02/10/06 8:34

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 02/10/06 9:47

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.7

Revision: 01/31/06 10:18:39 A

TestCode: 8270S TAGML

Lab ID: 0601049-008B

Client Sample ID: BH-24-S

Collection Date: 01/11/06 9:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3889.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		410	3.3	µg/Kg-dry	1	01/26/06 2:10
1,2-Dichlorobenzene	ND		410	2.9	µg/Kg-dry	1	01/26/06 2:10
1,3-Dichlorobenzene	ND		410	2.0	µg/Kg-dry	1	01/26/06 2:10
1,4-Dichlorobenzene	ND		410	2.4	µg/Kg-dry	1	01/26/06 2:10
2,4,5-Trichlorophenol	ND		2100	41	µg/Kg-dry	1	01/26/06 2:10
2,4,6-Trichlorophenol	ND		410	3.8	µg/Kg-dry	1	01/26/06 2:10
2,4-Dichlorophenol	ND		410	3.8	µg/Kg-dry	1	01/26/06 2:10
2,4-Dimethylphenol	ND		410	3.5	µg/Kg-dry	1	01/26/06 2:10
2,4-Dinitrophenol	ND		2100	75	µg/Kg-dry	1	01/26/06 2:10
2,4-Dinitrotoluene	ND		410	3.4	µg/Kg-dry	1	01/26/06 2:10
2,6-Dinitrotoluene	ND		410	4.0	µg/Kg-dry	1	01/26/06 2:10
2-Chloronaphthalene	ND		410	2.0	µg/Kg-dry	1	01/26/06 2:10
2-Chlorophenol	ND		410	2.7	µg/Kg-dry	1	01/26/06 2:10
2-Methylnaphthalene	350 J		410	2.0	µg/Kg-dry	1	01/26/06 2:10
2-Methylphenol	ND		410	2.5	µg/Kg-dry	1	01/26/06 2:10
2-Nitroaniline	ND		2100	4.4	µg/Kg-dry	1	01/26/06 2:10
2-Nitrophenol	ND		410	4.7	µg/Kg-dry	1	01/26/06 2:10
3,3'-Dichlorobenzidine	ND		820	10	µg/Kg-dry	1	01/26/06 2:10
3-Nitroaniline	ND		2100	14	µg/Kg-dry	1	01/26/06 2:10
4,6-Dinitro-2-methylphenol	ND		2100	34	µg/Kg-dry	1	01/26/06 2:10
4-Bromophenyl phenyl ether	ND		410	2.9	µg/Kg-dry	1	01/26/06 2:10
4-Chloro-3-methylphenol	ND		410	3.3	µg/Kg-dry	1	01/26/06 2:10
4-Chloroaniline	ND		410	5.0	µg/Kg-dry	1	01/26/06 2:10
4-Chlorophenyl phenyl ether	ND		410	3.2	µg/Kg-dry	1	01/26/06 2:10
4-Methylphenol	ND		410	2.4	µg/Kg-dry	1	01/26/06 2:10
4-Nitroaniline	ND		2100	6.9	µg/Kg-dry	1	01/26/06 2:10
4-Nitrophenol	ND		2100	16	µg/Kg-dry	1	01/26/06 2:10
Acenaphthene	120 J		410	1.5	µg/Kg-dry	1	01/26/06 2:10
Acenaphthylene	220 J		410	1.8	µg/Kg-dry	1	01/26/06 2:10
Aniline	ND		410	5.1	µg/Kg-dry	1	01/26/06 2:10
Anthracene	540		410	1.7	µg/Kg-dry	1	01/26/06 2:10
Benzo[a]anthracene	1600		410	1.8	µg/Kg-dry	1	01/26/06 2:10
Benzo[a]pyrene	1600		410	2.1	µg/Kg-dry	1	01/26/06 2:10
Benzo[b]fluoranthene	2400		410	3.0	µg/Kg-dry	1	01/26/06 2:10
Benzo[g,h,i]perylene	820		410	2.1	µg/Kg-dry	1	01/26/06 2:10

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.7

Revision: 01/31/06 10:18:39 A

TestCode: 8270S TAGML

Lab ID: 0601049-008B

Client Sample ID: BH-24-S

Collection Date: 01/11/06 9:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: 1-SAMP-N3889.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	920	410		2.7	µg/Kg-dry	1	01/26/06 2:10
Benzoic acid	ND	2100		130	µg/Kg-dry	1	01/26/06 2:10
Benzyl alcohol	ND	410		4.6	µg/Kg-dry	1	01/26/06 2:10
bis(2-Chloroethoxy)methane	ND	410		1.6	µg/Kg-dry	1	01/26/06 2:10
bis(2-chloroethyl)ether	ND	410		2.4	µg/Kg-dry	1	01/26/06 2:10
bis(2-chloroisopropyl)ether	ND	410		2.4	µg/Kg-dry	1	01/26/06 2:10
bis(2-Ethylhexyl)phthalate	260 J	410		14	µg/Kg-dry	1	01/26/06 2:10
Butyl benzyl phthalate	ND	410		2.7	µg/Kg-dry	1	01/26/06 2:10
Chrysene	1700	410		2.0	µg/Kg-dry	1	01/26/06 2:10
Di-n-butyl phthalate	ND	410		3.4	µg/Kg-dry	1	01/26/06 2:10
Di-n-octyl phthalate	ND	410		2.0	µg/Kg-dry	1	01/26/06 2:10
Dibenz[a,h]anthracene	270 J	410		1.7	µg/Kg-dry	1	01/26/06 2:10
Dibenzofuran	270 J	410		1.8	µg/Kg-dry	1	01/26/06 2:10
Diethyl phthalate	ND	410		3.0	µg/Kg-dry	1	01/26/06 2:10
Dimethyl phthalate	ND	410		2.1	µg/Kg-dry	1	01/26/06 2:10
Fluoranthene	2900	410		1.9	µg/Kg-dry	1	01/26/06 2:10
Fluorene	220 J	410		2.1	µg/Kg-dry	1	01/26/06 2:10
Hexachlorobenzene	ND	410		3.3	µg/Kg-dry	1	01/26/06 2:10
Hexachlorobutadiene	ND	410		4.4	µg/Kg-dry	1	01/26/06 2:10
Hexachlorocyclopentadiene	ND	410		16	µg/Kg-dry	1	01/26/06 2:10
Hexachloroethane	ND	410		4.4	µg/Kg-dry	1	01/26/06 2:10
Indeno[1,2,3-cd]pyrene	490	410		1.7	µg/Kg-dry	1	01/26/06 2:10
Isophorone	ND	410		2.0	µg/Kg-dry	1	01/26/06 2:10
N-Nitroso-di-n-propylamine	ND	410		3.5	µg/Kg-dry	1	01/26/06 2:10
N-Nitrosodiphenylamine	ND	410		2.0	µg/Kg-dry	1	01/26/06 2:10
Naphthalene	330 J	410		1.2	µg/Kg-dry	1	01/26/06 2:10
Nitrobenzene	ND	410		2.5	µg/Kg-dry	1	01/26/06 2:10
Pentachlorophenol	ND	2100		34	µg/Kg-dry	1	01/26/06 2:10
Phenanthrene	2300	410		1.5	µg/Kg-dry	1	01/26/06 2:10
Phenol	55 J	410		1.7	µg/Kg-dry	1	01/26/06 2:10
Pyrene	3200	410		2.0	µg/Kg-dry	1	01/26/06 2:10
Surr: 2,4,6-Tribromophenol	104	20-143		0	%REC	1	01/26/06 2:10
Surr: 2-Fluorobiphenyl	82.6	46-130		0	%REC	1	01/26/06 2:10
Surr: 2-Fluorophenol	66.0	22-130		0	%REC	1	01/26/06 2:10
Surr: Nitrobenzene-d5	70.3	39-130		0	%REC	1	01/26/06 2:10

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.7

Revision: 01/31/06 10:18:39 A

TestCode: 8270S TAGML

Lab ID: 0601049-008B

Client Sample ID: BH-24-S

Collection Date: 01/11/06 9:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4378

FileID: I-SAMP-N3889.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	66.1	33-130	0	%REC	1		01/26/06 2:10
Surr: Terphenyl-d14	118	36-146	0	%REC	1		01/26/06 2:10

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:37:14 A

Sample Size: 30 g

%Moisture: 19.7

TestCode: 8270S TAGML

Lab ID: 0601049-008B

Client Sample ID: BH-24-S

Collection Date: 01/11/06 9:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3959.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		410	3.3	µg/Kg-dry	1	01/31/06 2:10
1,2-Dichlorobenzene	ND		410	2.9	µg/Kg-dry	1	01/31/06 2:10
1,3-Dichlorobenzene	ND		410	2.0	µg/Kg-dry	1	01/31/06 2:10
1,4-Dichlorobenzene	ND		410	2.4	µg/Kg-dry	1	01/31/06 2:10
2,4,5-Trichlorophenol	ND		2100	41	µg/Kg-dry	1	01/31/06 2:10
2,4,6-Trichlorophenol	ND		410	3.8	µg/Kg-dry	1	01/31/06 2:10
2,4-Dichlorophenol	ND		410	3.8	µg/Kg-dry	1	01/31/06 2:10
2,4-Dimethylphenol	ND		410	3.5	µg/Kg-dry	1	01/31/06 2:10
2,4-Dinitrophenol	ND		2100	75	µg/Kg-dry	1	01/31/06 2:10
2,4-Dinitrotoluene	ND		410	3.4	µg/Kg-dry	1	01/31/06 2:10
2,6-Dinitrotoluene	ND		410	4.0	µg/Kg-dry	1	01/31/06 2:10
2-Chloronaphthalene	ND		410	2.0	µg/Kg-dry	1	01/31/06 2:10
2-Chlorophenol	ND		410	2.7	µg/Kg-dry	1	01/31/06 2:10
2-Methylnaphthalene	320 J		410	2.0	µg/Kg-dry	1	01/31/06 2:10
2-Methylphenol	ND		410	2.5	µg/Kg-dry	1	01/31/06 2:10
2-Nitroaniline	ND		2100	4.4	µg/Kg-dry	1	01/31/06 2:10
2-Nitrophenol	ND		410	4.7	µg/Kg-dry	1	01/31/06 2:10
3,3'-Dichlorobenzidine	ND		820	10	µg/Kg-dry	1	01/31/06 2:10
3-Nitroaniline	ND		2100	14	µg/Kg-dry	1	01/31/06 2:10
4,6-Dinitro-2-methylphenol	ND		2100	34	µg/Kg-dry	1	01/31/06 2:10
4-Bromophenyl phenyl ether	ND		410	2.9	µg/Kg-dry	1	01/31/06 2:10
4-Chloro-3-methylphenol	ND		410	3.3	µg/Kg-dry	1	01/31/06 2:10
4-Chloroaniline	ND		410	5.0	µg/Kg-dry	1	01/31/06 2:10
4-Chlorophenyl phenyl ether	ND		410	3.2	µg/Kg-dry	1	01/31/06 2:10
4-Methylphenol	ND		410	2.4	µg/Kg-dry	1	01/31/06 2:10
4-Nitroaniline	ND		2100	6.9	µg/Kg-dry	1	01/31/06 2:10
4-Nitrophenol	ND		2100	16	µg/Kg-dry	1	01/31/06 2:10
Acenaphthene	120 J		410	1.5	µg/Kg-dry	1	01/31/06 2:10
Acenaphthylene	190 J		410	1.8	µg/Kg-dry	1	01/31/06 2:10
Aniline	ND		410	5.1	µg/Kg-dry	1	01/31/06 2:10
Anthracene	520		410	1.7	µg/Kg-dry	1	01/31/06 2:10
Benzo[a]anthracene	1600		410	1.8	µg/Kg-dry	1	01/31/06 2:10
Benzo[a]pyrene	1700		410	2.1	µg/Kg-dry	1	01/31/06 2:10
Benzo[b]fluoranthene	2600		410	3.0	µg/Kg-dry	1	01/31/06 2:10
Benzo[g,h,i]perylene	850		410	2.1	µg/Kg-dry	1	01/31/06 2:10

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.7

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-008B

Client Sample ID: BH-24-S

Collection Date: 01/11/06 9:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: I-RA-N3959.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	730	410		2.7	µg/Kg-dry	1	01/31/06 2:10
Benzoic acid	ND	2100		130	µg/Kg-dry	1	01/31/06 2:10
Benzyl alcohol	ND	410		4.6	µg/Kg-dry	1	01/31/06 2:10
bis(2-Chloroethoxy)methane	ND	410		1.6	µg/Kg-dry	1	01/31/06 2:10
bis(2-chloroethyl)ether	ND	410		2.4	µg/Kg-dry	1	01/31/06 2:10
bis(2-chloroisopropyl)ether	ND	410		2.4	µg/Kg-dry	1	01/31/06 2:10
bis(2-Ethylhexyl)phthalate	290 J	410		14	µg/Kg-dry	1	01/31/06 2:10
Butyl benzyl phthalate	ND	410		2.7	µg/Kg-dry	1	01/31/06 2:10
Chrysene	1600	410		2.0	µg/Kg-dry	1	01/31/06 2:10
Di-n-butyl phthalate	ND	410		3.4	µg/Kg-dry	1	01/31/06 2:10
Di-n-octyl phthalate	ND	410		2.0	µg/Kg-dry	1	01/31/06 2:10
Dibenz[a,h]anthracene	240 J	410		1.7	µg/Kg-dry	1	01/31/06 2:10
Dibenzofuran	240 J	410		1.8	µg/Kg-dry	1	01/31/06 2:10
Diethyl phthalate	ND	410		3.0	µg/Kg-dry	1	01/31/06 2:10
Dimethyl phthalate	ND	410		2.1	µg/Kg-dry	1	01/31/06 2:10
Fluoranthene	2900	410		1.9	µg/Kg-dry	1	01/31/06 2:10
Fluorene	210 J	410		2.1	µg/Kg-dry	1	01/31/06 2:10
Hexachlorobenzene	ND	410		3.3	µg/Kg-dry	1	01/31/06 2:10
Hexachlorobutadiene	ND	410		4.4	µg/Kg-dry	1	01/31/06 2:10
Hexachlorocyclopentadiene	ND	410		16	µg/Kg-dry	1	01/31/06 2:10
Hexachloroethane	ND	410		4.4	µg/Kg-dry	1	01/31/06 2:10
Indeno[1,2,3-cd]pyrene	410 J	410		1.7	µg/Kg-dry	1	01/31/06 2:10
Isophorone	ND	410		2.0	µg/Kg-dry	1	01/31/06 2:10
N-Nitroso-di-n-propylamine	ND	410		3.5	µg/Kg-dry	1	01/31/06 2:10
N-Nitrosodiphenylamine	ND	410		2.0	µg/Kg-dry	1	01/31/06 2:10
Naphthalene	300 J	410		1.2	µg/Kg-dry	1	01/31/06 2:10
Nitrobenzene	ND	410		2.5	µg/Kg-dry	1	01/31/06 2:10
Pentachlorophenol	ND	2100		34	µg/Kg-dry	1	01/31/06 2:10
Phenanthrene	2400	410		1.5	µg/Kg-dry	1	01/31/06 2:10
Phenol	45 J	410		1.7	µg/Kg-dry	1	01/31/06 2:10
Pyrene	3400	410		2.0	µg/Kg-dry	1	01/31/06 2:10
Surr: 2,4,6-Tribromophenol	106	20-143		0	%REC	1	01/31/06 2:10
Surr: 2-Fluorobiphenyl	91.9	46-130		0	%REC	1	01/31/06 2:10
Surr: 2-Fluorophenol	64.6	22-130		0	%REC	1	01/31/06 2:10
Surr: Nitrobenzene-d5	75.9	39-130		0	%REC	1	01/31/06 2:10

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.7

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-008B

Client Sample ID: BH-24-S

Collection Date: 01/11/06 9:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3959.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	61.8		33-130	0	%REC	1	01/31/06 2:10
Surr: Terphenyl-d14	129		36-146	0	%REC	1	01/31/06 2:10

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander

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5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:20:40 A

Sample Size: 30 g

%Moisture: 28.5

TestCode: 8270S TAGML

Lab ID: 0601049-009B

Client Sample ID: BH-24-D

Collection Date: 01/11/06 9:50

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3927.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		460	3.7	µg/Kg-dry	1	01/27/06 19:01
1,2-Dichlorobenzene	ND		460	3.3	µg/Kg-dry	1	01/27/06 19:01
1,3-Dichlorobenzene	ND		460	2.2	µg/Kg-dry	1	01/27/06 19:01
1,4-Dichlorobenzene	ND		460	2.6	µg/Kg-dry	1	01/27/06 19:01
2,4,5-Trichlorophenol	ND		2300	46	µg/Kg-dry	1	01/27/06 19:01
2,4,6-Trichlorophenol	ND		460	4.3	µg/Kg-dry	1	01/27/06 19:01
2,4-Dichlorophenol	ND		460	4.3	µg/Kg-dry	1	01/27/06 19:01
2,4-Dimethylphenol	ND		460	3.9	µg/Kg-dry	1	01/27/06 19:01
2,4-Dinitrophenol	ND		2300	84	µg/Kg-dry	1	01/27/06 19:01
2,4-Dinitrotoluene	ND		460	3.9	µg/Kg-dry	1	01/27/06 19:01
2,6-Dinitrotoluene	ND		460	4.5	µg/Kg-dry	1	01/27/06 19:01
2-Chloronaphthalene	ND		460	2.2	µg/Kg-dry	1	01/27/06 19:01
2-Chlorophenol	ND		460	3.0	µg/Kg-dry	1	01/27/06 19:01
2-Methylnaphthalene	ND		460	2.2	µg/Kg-dry	1	01/27/06 19:01
2-Methylphenol	ND		460	2.9	µg/Kg-dry	1	01/27/06 19:01
2-Nitroaniline	ND		2300	4.9	µg/Kg-dry	1	01/27/06 19:01
2-Nitrophenol	ND		460	5.3	µg/Kg-dry	1	01/27/06 19:01
3,3'-Dichlorobenzidine	ND		920	11	µg/Kg-dry	1	01/27/06 19:01
3-Nitroaniline	ND		2300	16	µg/Kg-dry	1	01/27/06 19:01
4,6-Dinitro-2-methylphenol	ND		2300	36	µg/Kg-dry	1	01/27/06 19:01
4-Bromophenyl phenyl ether	ND		460	3.2	µg/Kg-dry	1	01/27/06 19:01
4-Chloro-3-methylphenol	ND		460	3.7	µg/Kg-dry	1	01/27/06 19:01
4-Chloroaniline	ND		460	5.7	µg/Kg-dry	1	01/27/06 19:01
4-Chlorophenyl phenyl ether	ND		460	3.5	µg/Kg-dry	1	01/27/06 19:01
4-Methylphenol	ND		460	2.7	µg/Kg-dry	1	01/27/06 19:01
4-Nitroaniline	ND		2300	7.7	µg/Kg-dry	1	01/27/06 19:01
4-Nitrophenol	ND		2300	18	µg/Kg-dry	1	01/27/06 19:01
Acenaphthene	100 J		460	1.6	µg/Kg-dry	1	01/27/06 19:01
Acenaphthylene	280 J		460	2.1	µg/Kg-dry	1	01/27/06 19:01
Aniline	ND		460	5.7	µg/Kg-dry	1	01/27/06 19:01
Anthracene	960		460	1.9	µg/Kg-dry	1	01/27/06 19:01
Benzo[a]anthracene	3100		460	2.0	µg/Kg-dry	1	01/27/06 19:01
Benzo[a]pyrene	2600		460	2.3	µg/Kg-dry	1	01/27/06 19:01
Benzo[b]fluoranthene	2700		460	3.4	µg/Kg-dry	1	01/27/06 19:01
Benzo[g,h,i]perylene	1100		460	2.3	µg/Kg-dry	1	01/27/06 19:01

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 28.5

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-009B

Client Sample ID: BH-24-D

Collection Date: 01/11/06 9:50

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3927.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	1100	460		3.0	µg/Kg-dry	1	01/27/06 19:01
Benzoic acid	ND	2300		150	µg/Kg-dry	1	01/27/06 19:01
Benzyl alcohol	ND	460		5.1	µg/Kg-dry	1	01/27/06 19:01
bis(2-Chloroethoxy)methane	ND	460		1.8	µg/Kg-dry	1	01/27/06 19:01
bis(2-chloroethyl)ether	ND	460		2.6	µg/Kg-dry	1	01/27/06 19:01
bis(2-chloroisopropyl)ether	ND	460		2.6	µg/Kg-dry	1	01/27/06 19:01
bis(2-Ethylhexyl)phthalate	100 J	460		15	µg/Kg-dry	1	01/27/06 19:01
Butyl benzyl phthalate	ND	460		3.0	µg/Kg-dry	1	01/27/06 19:01
Chrysene	3000	460		2.2	µg/Kg-dry	1	01/27/06 19:01
Di-n-butyl phthalate	56 J	460		3.8	µg/Kg-dry	1	01/27/06 19:01
Di-n-octyl phthalate	ND	460		2.2	µg/Kg-dry	1	01/27/06 19:01
Dibenz[a,h]anthracene	280 J	460		1.9	µg/Kg-dry	1	01/27/06 19:01
Dibenzofuran	ND	460		2.0	µg/Kg-dry	1	01/27/06 19:01
Diethyl phthalate	ND	460		3.3	µg/Kg-dry	1	01/27/06 19:01
Dimethyl phthalate	ND	460		2.4	µg/Kg-dry	1	01/27/06 19:01
Fluoranthene	5700	460		2.1	µg/Kg-dry	1	01/27/06 19:01
Fluorene	160 J	460		2.3	µg/Kg-dry	1	01/27/06 19:01
Hexachlorobenzene	ND	460		3.7	µg/Kg-dry	1	01/27/06 19:01
Hexachlorobutadiene	ND	460		4.9	µg/Kg-dry	1	01/27/06 19:01
Hexachlorocyclopentadiene	ND	460		18	µg/Kg-dry	1	01/27/06 19:01
Hexachloroethane	ND	460		5.0	µg/Kg-dry	1	01/27/06 19:01
Indeno[1,2,3-cd]pyrene	780	460		1.9	µg/Kg-dry	1	01/27/06 19:01
Isophorone	ND	460		2.2	µg/Kg-dry	1	01/27/06 19:01
N-Nitroso-di-n-propylamine	ND	460		4.0	µg/Kg-dry	1	01/27/06 19:01
N-Nitrosodiphenylamine	ND	460		2.2	µg/Kg-dry	1	01/27/06 19:01
Naphthalene	ND	460		1.4	µg/Kg-dry	1	01/27/06 19:01
Nitrobenzene	ND	460		2.8	µg/Kg-dry	1	01/27/06 19:01
Pentachlorophenol	ND	2300		38	µg/Kg-dry	1	01/27/06 19:01
Phenanthrene	3300	460		1.7	µg/Kg-dry	1	01/27/06 19:01
Phenol	ND	480		1.9	µg/Kg-dry	1	01/27/06 19:01
Pyrene	6000	460		2.2	µg/Kg-dry	1	01/27/06 19:01
Surr: 2,4,6-Tribromophenol	119	20-143		0	%REC	1	01/27/06 19:01
Surr: 2-Fluorobiphenyl	82.6	46-130		0	%REC	1	01/27/06 19:01
Surr: 2-Fluorophenol	60.4	22-130		0	%REC	1	01/27/06 19:01
Surr: Nitrobenzene-d5	67.8	39-130		0	%REC	1	01/27/06 19:01

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 28.5

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-009B

Client Sample ID: BH-24-D

Collection Date: 01/11/06 9:50

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3927.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr. Phenol-d5	56.4	33-130	0	%REC	1		01/27/06 19:01
Surr. Terphenyl-d14	90.0	36-146	0	%REC	1		01/27/06 19:01

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander

148



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:20:40 A

Sample Size: 30 g

%Moisture: 19.1

TestCode: 8270S TAGML

Lab ID: 0601049-010B

Client Sample ID: BH-25-S

Collection Date: 01/11/06 12:10

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3936.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		410	3.2	µg/Kg-dry	1	01/28/06 0:38
1,2-Dichlorobenzene	ND		410	2.9	µg/Kg-dry	1	01/28/06 0:38
1,3-Dichlorobenzene	ND		410	2.0	µg/Kg-dry	1	01/28/06 0:38
1,4-Dichlorobenzene	ND		410	2.3	µg/Kg-dry	1	01/28/06 0:38
2,4,5-Trichlorophenol	ND		2100	41	µg/Kg-dry	1	01/28/06 0:38
2,4,6-Trichlorophenol	ND		410	3.8	µg/Kg-dry	1	01/28/06 0:38
2,4-Dichlorophenol	ND		410	3.8	µg/Kg-dry	1	01/28/06 0:38
2,4-Dimethylphenol	ND		410	3.5	µg/Kg-dry	1	01/28/06 0:38
2,4-Dinitrophenol	ND		2100	75	µg/Kg-dry	1	01/28/06 0:38
2,4-Dinitrotoluene	ND		410	3.4	µg/Kg-dry	1	01/28/06 0:38
2,6-Dinitrotoluene	ND		410	3.9	µg/Kg-dry	1	01/28/06 0:38
2-Chloronaphthalene	ND		410	2.0	µg/Kg-dry	1	01/28/06 0:38
2-Chlorophenol	ND		410	2.7	µg/Kg-dry	1	01/28/06 0:38
2-Methylnaphthalene	450		410	2.0	µg/Kg-dry	1	01/28/06 0:38
2-Methylphenol	ND		410	2.5	µg/Kg-dry	1	01/28/06 0:38
2-Nitroaniline	ND		2100	4.3	µg/Kg-dry	1	01/28/06 0:38
2-Nitrophenol	ND		410	4.7	µg/Kg-dry	1	01/28/06 0:38
3,3'-Dichlorobenzidine	ND		820	10	µg/Kg-dry	1	01/28/06 0:38
3-Nitroaniline	ND		2100	14	µg/Kg-dry	1	01/28/06 0:38
4,6-Dinitro-2-methylphenol	ND		2100	33	µg/Kg-dry	1	01/28/06 0:38
4-Bromophenyl phenyl ether	ND		410	2.9	µg/Kg-dry	1	01/28/06 0:38
4-Chloro-3-methylphenol	ND		410	3.3	µg/Kg-dry	1	01/28/06 0:38
4-Chloroaniline	ND		410	5.0	µg/Kg-dry	1	01/28/06 0:38
4-Chlorophenyl phenyl ether	ND		410	3.1	µg/Kg-dry	1	01/28/06 0:38
4-Methylphenol	63 J		410	2.3	µg/Kg-dry	1	01/28/06 0:38
4-Nitroaniline	ND		2100	6.8	µg/Kg-dry	1	01/28/06 0:38
4-Nitrophenol	ND		2100	16	µg/Kg-dry	1	01/28/06 0:38
Acenaphthene	91 J		410	1.4	µg/Kg-dry	1	01/28/06 0:38
Acenaphthylene	1000		410	1.8	µg/Kg-dry	1	01/28/06 0:38
Aniline	ND		410	5.1	µg/Kg-dry	1	01/28/06 0:38
Anthracene	930		410	1.7	µg/Kg-dry	1	01/28/06 0:38
Benzo[a]anthracene	4900		410	1.7	µg/Kg-dry	1	01/28/06 0:38
Benzo[a]pyrene	5400		410	2.0	µg/Kg-dry	1	01/28/06 0:38
Benzo[b]fluoranthene	8000 E		410	3.0	µg/Kg-dry	1	01/28/06 0:38
Benzo[g,h,i]perylene	2700		410	2.1	µg/Kg-dry	1	01/28/06 0:38

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.1

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-010B

Client Sample ID: BH-25-S

Collection Date: 01/11/06 12:10

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3936.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	2900		410	2.6	µg/Kg-dry	1	01/28/06 0:38
Benzoic acid	ND		2100	130	µg/Kg-dry	1	01/28/06 0:38
Benzyl alcohol	ND		410	4.5	µg/Kg-dry	1	01/28/06 0:38
bis(2-Chloroethoxy)methane	ND		410	1.6	µg/Kg-dry	1	01/28/06 0:38
bis(2-chloroethyl)ether	ND		410	2.3	µg/Kg-dry	1	01/28/06 0:38
bis(2-chloroisopropyl)ether	ND		410	2.3	µg/Kg-dry	1	01/28/06 0:38
bis(2-Ethylhexyl)phthalate	250 J		410	13	µg/Kg-dry	1	01/28/06 0:38
Butyl benzyl phthalate	ND		410	2.7	µg/Kg-dry	1	01/28/06 0:38
Chrysene	5100		410	1.9	µg/Kg-dry	1	01/28/06 0:38
Di-n-butyl phthalate	51 J		410	3.4	µg/Kg-dry	1	01/28/06 0:38
Di-n-octyl phthalate	ND		410	1.9	µg/Kg-dry	1	01/28/06 0:38
Dibenz[a,h]anthracene	970		410	1.6	µg/Kg-dry	1	01/28/06 0:38
Dibenzofuran	310 J		410	1.8	µg/Kg-dry	1	01/28/06 0:38
Diethyl phthalate	ND		410	2.9	µg/Kg-dry	1	01/28/06 0:38
Dimethyl phthalate	ND		410	2.1	µg/Kg-dry	1	01/28/06 0:38
Fluoranthene	6100		410	1.9	µg/Kg-dry	1	01/28/06 0:38
Fluorene	190 J		410	2.0	µg/Kg-dry	1	01/28/06 0:38
Hexachlorobenzene	ND		410	3.3	µg/Kg-dry	1	01/28/06 0:38
Hexachlorobutadiene	ND		410	4.4	µg/Kg-dry	1	01/28/06 0:38
Hexachlorocyclopentadiene	ND		410	16	µg/Kg-dry	1	01/28/06 0:38
Hexachloroethane	ND		410	4.4	µg/Kg-dry	1	01/28/06 0:38
Indeno[1,2,3-cd]pyrene	1700		410	1.6	µg/Kg-dry	1	01/28/06 0:38
Isophorone	ND		410	2.0	µg/Kg-dry	1	01/28/06 0:38
N-Nitroso-di-n-propylamine	ND		410	3.5	µg/Kg-dry	1	01/28/06 0:38
N-Nitrosodiphenylamine	ND		410	1.9	µg/Kg-dry	1	01/28/06 0:38
Naphthalene	600		410	1.2	µg/Kg-dry	1	01/28/06 0:38
Nitrobenzene	ND		410	2.4	µg/Kg-dry	1	01/28/06 0:38
Pentachlorophenol	ND		2100	34	µg/Kg-dry	1	01/28/06 0:38
Phenanthrene	3000		410	1.5	µg/Kg-dry	1	01/28/06 0:38
Phenol	100 J		410	1.7	µg/Kg-dry	1	01/28/06 0:38
Pyrene	8100 E		410	2.0	µg/Kg-dry	1	01/28/06 0:38
Surr: 2,4,6-Tribromophenol	87.5		20-143	0	%REC	1	01/28/06 0:38
Surr: 2-Fluorobiphenyl	79.7		46-130	0	%REC	1	01/28/06 0:38
Surr: 2-Fluorophenol	54.5		22-130	0	%REC	1	01/28/06 0:38
Surr: Nitrobenzene-d5	64.3		39-130	0	%REC	1	01/28/06 0:38

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:20:40 A

Sample Size: 30 g

%Moisture: 19.1

TestCode: 8270S TAGML

Lab ID: 0601049-010B

Client Sample ID: BH-25-S

Collection Date: 01/11/06 12:10

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3936.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	51.6	33-130	0		%REC	1	01/28/06 0:38
Surr: Terphenyl-d14	114	36-146	0		%REC	1	01/28/06 0:38

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.1

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-010B

Client Sample ID: BH-25-S

Collection Date: 01/11/06 12:10

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-DL-N3949.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		1600	13	µg/Kg-dry	4	01/30/06 19:54
1,2-Dichlorobenzene	ND		1600	12	µg/Kg-dry	4	01/30/06 19:54
1,3-Dichlorobenzene	ND		1600	7.8	µg/Kg-dry	4	01/30/06 19:54
1,4-Dichlorobenzene	ND		1600	9.3	µg/Kg-dry	4	01/30/06 19:54
2,4,5-Trichlorophenol	ND		8300	160	µg/Kg-dry	4	01/30/06 19:54
2,4,6-Trichlorophenol	ND		1600	15	µg/Kg-dry	4	01/30/06 19:54
2,4-Dichlorophenol	ND		1600	15	µg/Kg-dry	4	01/30/06 19:54
2,4-Dimethylphenol	ND		1600	14	µg/Kg-dry	4	01/30/06 19:54
2,4-Dinitrophenol	ND		8300	300	µg/Kg-dry	4	01/30/06 19:54
2,4-Dinitrotoluene	ND		1600	14	µg/Kg-dry	4	01/30/06 19:54
2,6-Dinitrotoluene	ND		1600	16	µg/Kg-dry	4	01/30/06 19:54
2-Chloronaphthalene	ND		1600	7.8	µg/Kg-dry	4	01/30/06 19:54
2-Chlorophenol	ND		1600	11	µg/Kg-dry	4	01/30/06 19:54
2-Methylnaphthalene	390 J		1600	7.9	µg/Kg-dry	4	01/30/06 19:54
2-Methylphenol	ND		1600	10	µg/Kg-dry	4	01/30/06 19:54
2-Nitroaniline	ND		8300	17	µg/Kg-dry	4	01/30/06 19:54
2-Nitrophenol	ND		1600	19	µg/Kg-dry	4	01/30/06 19:54
3,3'-Dichlorobenzidine	ND		3300	40	µg/Kg-dry	4	01/30/06 19:54
3-Nitroaniline	ND		8300	56	µg/Kg-dry	4	01/30/06 19:54
4,6-Dinitro-2-methylphenol	ND		8300	130	µg/Kg-dry	4	01/30/06 19:54
4-Bromophenyl phenyl ether	ND		1600	11	µg/Kg-dry	4	01/30/06 19:54
4-Chloro-3-methylphenol	ND		1600	13	µg/Kg-dry	4	01/30/06 19:54
4-Chloroaniline	ND		1600	20	µg/Kg-dry	4	01/30/06 19:54
4-Chlorophenyl phenyl ether	ND		1600	13	µg/Kg-dry	4	01/30/06 19:54
4-Methylphenol	ND		1600	9.4	µg/Kg-dry	4	01/30/06 19:54
4-Nitroaniline	ND		8300	27	µg/Kg-dry	4	01/30/06 19:54
4-Nitrophenol	ND		8300	65	µg/Kg-dry	4	01/30/06 19:54
Acenaphthene	ND		1600	5.8	µg/Kg-dry	4	01/30/06 19:54
Acenaphthylene	870 J		1600	7.3	µg/Kg-dry	4	01/30/06 19:54
Aniline	ND		1600	20	µg/Kg-dry	4	01/30/06 19:54
Anthracene	740 J		1600	6.7	µg/Kg-dry	4	01/30/06 19:54
Benzo[a]anthracene	4600		1600	7.0	µg/Kg-dry	4	01/30/06 19:54
Benzo[a]pyrene	5100		1600	8.2	µg/Kg-dry	4	01/30/06 19:54
Benzo[b]fluoranthene	8000		1600	12	µg/Kg-dry	4	01/30/06 19:54
Benzo[g,h,i]perylene	1900		1600	8.3	µg/Kg-dry	4	01/30/06 19:54

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.1

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-010B

Client Sample ID: BH-25-S

Collection Date: 01/11/06 12:10

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-DL-N3949.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	2100		1600	11	µg/Kg-dry	4	01/30/06 19:54
Benzoic acid	ND		8300	520	µg/Kg-dry	4	01/30/06 19:54
Benzyl alcohol	ND		1600	18	µg/Kg-dry	4	01/30/06 19:54
bis(2-Chloroethoxy)methane	ND		1600	6.3	µg/Kg-dry	4	01/30/06 19:54
bis(2-chloroethyl)ether	ND		1600	9.3	µg/Kg-dry	4	01/30/06 19:54
bis(2-chloroisopropyl)ether	ND		1600	9.3	µg/Kg-dry	4	01/30/06 19:54
bis(2-Ethylhexyl)phthalate	190 J		1600	54	µg/Kg-dry	4	01/30/06 19:54
Butyl benzyl phthalate	ND		1600	11	µg/Kg-dry	4	01/30/06 19:54
Chrysene	4600		1600	7.8	µg/Kg-dry	4	01/30/06 19:54
Di-n-butyl phthalate	ND		1600	14	µg/Kg-dry	4	01/30/06 19:54
Di-n-octyl phthalate	ND		1600	7.8	µg/Kg-dry	4	01/30/06 19:54
Dibenz[a,h]anthracene	660 J		1600	6.6	µg/Kg-dry	4	01/30/06 19:54
Dibenzofuran	290 J		1600	7.2	µg/Kg-dry	4	01/30/06 19:54
Diethyl phthalate	ND		1600	12	µg/Kg-dry	4	01/30/06 19:54
Dimethyl phthalate	ND		1600	8.4	µg/Kg-dry	4	01/30/06 19:54
Fluoranthene	6700		1600	7.6	µg/Kg-dry	4	01/30/06 19:54
Fluorene	170 J		1600	8.2	µg/Kg-dry	4	01/30/06 19:54
Hexachlorobenzene	ND		1600	13	µg/Kg-dry	4	01/30/06 19:54
Hexachlorobutadiene	ND		1600	17	µg/Kg-dry	4	01/30/06 19:54
Hexachlorocyclopentadiene	ND		1600	63	µg/Kg-dry	4	01/30/06 19:54
Hexachloroethane	ND		1600	18	µg/Kg-dry	4	01/30/06 19:54
Indeno[1,2,3-cd]pyrene	1500 J		1600	6.6	µg/Kg-dry	4	01/30/06 19:54
Isophorone	ND		1600	7.9	µg/Kg-dry	4	01/30/06 19:54
N-Nitroso-di-n-propylamine	ND		1600	14	µg/Kg-dry	4	01/30/06 19:54
N-Nitrosodiphenylamine	ND		1600	7.8	µg/Kg-dry	4	01/30/06 19:54
Naphthalene	530 J		1600	4.9	µg/Kg-dry	4	01/30/06 19:54
Nitrobenzene	ND		1600	9.8	µg/Kg-dry	4	01/30/06 19:54
Pentachlorophenol	ND		8300	140	µg/Kg-dry	4	01/30/06 19:54
Phenanthrene	2700		1600	5.9	µg/Kg-dry	4	01/30/06 19:54
Phenol	ND		1600	6.7	µg/Kg-dry	4	01/30/06 19:54
Pyrene	5700		1600	7.9	µg/Kg-dry	4	01/30/06 19:54
Surr: 2,4,6-Tribromophenol	76.3		20-143	0	%REC	4	01/30/06 19:54
Surr: 2-Fluorobiphenyl	70.2		46-130	0	%REC	4	01/30/06 19:54
Surr: 2-Fluorophenol	55.6		22-130	0	%REC	4	01/30/06 19:54
Surr: Nitrobenzene-d5	65.8		39-130	0	%REC	4	01/30/06 19:54

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.1

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-010B

Client Sample ID: BH-25-S

Collection Date: 01/11/06 12:10

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-DL-N3949.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	53.3	33-130	0	%REC	4		01/30/06 19:54
Surr: Terphenyl-d14	70.6	36-146	0	%REC	4		01/30/06 19:54

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.8

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-011B

Client Sample ID: BH-25-D

Collection Date: 01/11/06 12:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3928.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		410	3.3	µg/Kg-dry	1	01/27/06 19:38
1,2-Dichlorobenzene	ND		410	2.9	µg/Kg-dry	1	01/27/06 19:38
1,3-Dichlorobenzene	ND		410	2.0	µg/Kg-dry	1	01/27/06 19:38
1,4-Dichlorobenzene	ND		410	2.4	µg/Kg-dry	1	01/27/06 19:38
2,4,5-Trichlorophenol	ND		2100	41	µg/Kg-dry	1	01/27/06 19:38
2,4,6-Trichlorophenol	ND		410	3.8	µg/Kg-dry	1	01/27/06 19:38
2,4-Dichlorophenol	ND		410	3.8	µg/Kg-dry	1	01/27/06 19:38
2,4-Dimethylphenol	ND		410	3.5	µg/Kg-dry	1	01/27/06 19:38
2,4-Dinitrophenol	ND		2100	75	µg/Kg-dry	1	01/27/06 19:38
2,4-Dinitrotoluene	ND		410	3.4	µg/Kg-dry	1	01/27/06 19:38
2,6-Dinitrotoluene	ND		410	4.0	µg/Kg-dry	1	01/27/06 19:38
2-Chloronaphthalene	ND		410	2.0	µg/Kg-dry	1	01/27/06 19:38
2-Chlorophenol	ND		410	2.7	µg/Kg-dry	1	01/27/06 19:38
2-Methylnaphthalene	99 J		410	2.0	µg/Kg-dry	1	01/27/06 19:38
2-Methylphenol	ND		410	2.5	µg/Kg-dry	1	01/27/06 19:38
2-Nitroaniline	ND		2100	4.4	µg/Kg-dry	1	01/27/06 19:38
2-Nitrophenol	ND		410	4.7	µg/Kg-dry	1	01/27/06 19:38
3,3'-Dichlorobenzidine	ND		820	10	µg/Kg-dry	1	01/27/06 19:38
3-Nitroaniline	ND		2100	14	µg/Kg-dry	1	01/27/06 19:38
4,6-Dinitro-2-methylphenol	ND		2100	34	µg/Kg-dry	1	01/27/06 19:38
4-Bromophenyl phenyl ether	ND		410	2.9	µg/Kg-dry	1	01/27/06 19:38
4-Chloro-3-methylphenol	ND		410	3.3	µg/Kg-dry	1	01/27/06 19:38
4-Chloroaniline	ND		410	5.1	µg/Kg-dry	1	01/27/06 19:38
4-Chlorophenyl phenyl ether	ND		410	3.2	µg/Kg-dry	1	01/27/06 19:38
4-Methylphenol	65 J		410	2.4	µg/Kg-dry	1	01/27/06 19:38
4-Nitroaniline	ND		2100	6.9	µg/Kg-dry	1	01/27/06 19:38
4-Nitrophenol	ND		2100	16	µg/Kg-dry	1	01/27/06 19:38
Acenaphthene	ND		410	1.5	µg/Kg-dry	1	01/27/06 19:38
Acenaphthylene	100 J		410	1.8	µg/Kg-dry	1	01/27/06 19:38
Aniline	ND		410	5.1	µg/Kg-dry	1	01/27/06 19:38
Anthracene	270 J		410	1.7	µg/Kg-dry	1	01/27/06 19:38
Benzo[a]anthracene	650		410	1.8	µg/Kg-dry	1	01/27/06 19:38
Benzo[a]pyrene	590		410	2.1	µg/Kg-dry	1	01/27/06 19:38
Benzo[b]fluoranthene	810		410	3.0	µg/Kg-dry	1	01/27/06 19:38
Benzo[g,h,i]perylene	270 J		410	2.1	µg/Kg-dry	1	01/27/06 19:38

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:20:40 A

Sample Size: 30 g

%Moisture: 19.8

TestCode: 8270S TAGML

Lab ID: 0601049-011B

Client Sample ID: BH-25-D

Collection Date: 01/11/06 12:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3928.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	300	J	410	2.7	µg/Kg-dry	1	01/27/06 19:38
Benzoic acid	ND		2100	130	µg/Kg-dry	1	01/27/06 19:38
Benzyl alcohol	ND		410	4.6	µg/Kg-dry	1	01/27/06 19:38
bis(2-Chloroethoxy)methane	ND		410	1.6	µg/Kg-dry	1	01/27/06 19:38
bis(2-chloroethyl)ether	ND		410	2.4	µg/Kg-dry	1	01/27/06 19:38
bis(2-chloroisopropyl)ether	ND		410	2.4	µg/Kg-dry	1	01/27/06 19:38
bis(2-Ethylhexyl)phthalate	ND		410	14	µg/Kg-dry	1	01/27/06 19:38
Butyl benzyl phthalate	ND		410	2.7	µg/Kg-dry	1	01/27/06 19:38
Chrysene	630		410	2.0	µg/Kg-dry	1	01/27/06 19:38
Di-n-butyl phthalate	ND		410	3.4	µg/Kg-dry	1	01/27/06 19:38
Di-n-octyl phthalate	ND		410	2.0	µg/Kg-dry	1	01/27/06 19:38
Dibenz[a,h]anthracene	77	J	410	1.7	µg/Kg-dry	1	01/27/06 19:38
Dibenzofuran	81	J	410	1.8	µg/Kg-dry	1	01/27/06 19:38
Diethyl phthalate	ND		410	3.0	µg/Kg-dry	1	01/27/06 19:38
Dimethyl phthalate	ND		410	2.1	µg/Kg-dry	1	01/27/06 19:38
Fluoranthene	1500		410	1.9	µg/Kg-dry	1	01/27/06 19:38
Fluorene	69	J	410	2.1	µg/Kg-dry	1	01/27/06 19:38
Hexachlorobenzene	ND		410	3.3	µg/Kg-dry	1	01/27/06 19:38
Hexachlorobutadiene	ND		410	4.4	µg/Kg-dry	1	01/27/06 19:38
Hexachlorocyclopentadiene	ND		410	16	µg/Kg-dry	1	01/27/06 19:38
Hexachloroethane	ND		410	4.5	µg/Kg-dry	1	01/27/06 19:38
Indeno[1,2,3-cd]pyrene	200	J	410	1.7	µg/Kg-dry	1	01/27/06 19:38
Isophorone	ND		410	2.0	µg/Kg-dry	1	01/27/06 19:38
N-Nitroso-di-n-propylamine	ND		410	3.5	µg/Kg-dry	1	01/27/06 19:38
N-Nitrosodiphenylamine	ND		410	2.0	µg/Kg-dry	1	01/27/06 19:38
Naphthalene	160	J	410	1.2	µg/Kg-dry	1	01/27/06 19:38
Nitrobenzene	ND		410	2.5	µg/Kg-dry	1	01/27/06 19:38
Pentachlorophenol	ND		2100	34	µg/Kg-dry	1	01/27/06 19:38
Phenanthrene	1000		410	1.5	µg/Kg-dry	1	01/27/06 19:38
Phenol	ND		410	1.7	µg/Kg-dry	1	01/27/06 19:38
Pyrene	1200		410	2.0	µg/Kg-dry	1	01/27/06 19:38
Surr: 2,4,6-Tribromophenol	130		20-143	0	%REC	1	01/27/06 19:38
Surr: 2-Fluorobiphenyl	95.4		46-130	0	%REC	1	01/27/06 19:38
Surr: 2-Fluorophenol	69.5		22-130	0	%REC	1	01/27/06 19:38
Surr: Nitrobenzene-d5	76.5		39-130	0	%REC	1	01/27/06 19:38

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander

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Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.8

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-011B

Client Sample ID: BH-25-D

Collection Date: 01/11/06 12:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3928.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	65.3	33-130	0	%REC	1		01/27/06 19:38
Surr: Terphenyl-d14	99.8	36-146	0	%REC	1		01/27/06 19:38

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 12.7

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-012B

Client Sample ID: BH-26-S

Collection Date: 01/11/06 12:35

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3929.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		380	3.0	µg/Kg-dry	1	01/27/06 20:16
1,2-Dichlorobenzene	ND		380	2.7	µg/Kg-dry	1	01/27/06 20:16
1,3-Dichlorobenzene	ND		380	1.8	µg/Kg-dry	1	01/27/06 20:16
1,4-Dichlorobenzene	ND		380	2.2	µg/Kg-dry	1	01/27/06 20:16
2,4,5-Trichlorophenol	ND		1900	38	µg/Kg-dry	1	01/27/06 20:16
2,4,6-Trichlorophenol	ND		380	3.5	µg/Kg-dry	1	01/27/06 20:16
2,4-Dichlorophenol	ND		380	3.5	µg/Kg-dry	1	01/27/06 20:16
2,4-Dimethylphenol	ND		380	3.2	µg/Kg-dry	1	01/27/06 20:16
2,4-Dinitrophenol	ND		1900	69	µg/Kg-dry	1	01/27/06 20:16
2,4-Dinitrotoluene	ND		380	3.2	µg/Kg-dry	1	01/27/06 20:16
2,6-Dinitrotoluene	ND		380	3.7	µg/Kg-dry	1	01/27/06 20:16
2-Chloronaphthalene	ND		380	1.8	µg/Kg-dry	1	01/27/06 20:16
2-Chlorophenol	ND		380	2.5	µg/Kg-dry	1	01/27/06 20:16
2-Methylnaphthalene	ND		380	1.8	µg/Kg-dry	1	01/27/06 20:16
2-Methylphenol	ND		380	2.3	µg/Kg-dry	1	01/27/06 20:16
2-Nitroaniline	ND		1900	4.0	µg/Kg-dry	1	01/27/06 20:16
2-Nitrophenol	ND		380	4.4	µg/Kg-dry	1	01/27/06 20:16
3,3'-Dichlorobenzidine	ND		760	9.3	µg/Kg-dry	1	01/27/06 20:16
3-Nitroaniline	ND		1900	13	µg/Kg-dry	1	01/27/06 20:16
4,6-Dinitro-2-methylphenol	ND		1900	31	µg/Kg-dry	1	01/27/06 20:16
4-Bromophenyl phenyl ether	ND		380	2.7	µg/Kg-dry	1	01/27/06 20:16
4-Chloro-3-methylphenol	ND		380	3.0	µg/Kg-dry	1	01/27/06 20:16
4-Chloroaniline	ND		380	4.6	µg/Kg-dry	1	01/27/06 20:16
4-Chlorophenyl phenyl ether	ND		380	2.9	µg/Kg-dry	1	01/27/06 20:16
4-Methylphenol	ND		380	2.2	µg/Kg-dry	1	01/27/06 20:16
4-Nitroaniline	ND		1900	6.3	µg/Kg-dry	1	01/27/06 20:16
4-Nitrophenol	ND		1900	15	µg/Kg-dry	1	01/27/06 20:16
Acenaphthene	ND		380	1.3	µg/Kg-dry	1	01/27/06 20:16
Acenaphthylene	ND		380	1.7	µg/Kg-dry	1	01/27/06 20:16
Aniline	ND		380	4.7	µg/Kg-dry	1	01/27/06 20:16
Anthracene	ND		380	1.5	µg/Kg-dry	1	01/27/06 20:16
Benzo[a]anthracene	44 J		380	1.6	µg/Kg-dry	1	01/27/06 20:16
Benzo[a]pyrene	39 J		380	1.9	µg/Kg-dry	1	01/27/06 20:16
Benzo[b]fluoranthene	62 J		380	2.7	µg/Kg-dry	1	01/27/06 20:16
Benzo[g,h,i]perylene	ND		380	1.9	µg/Kg-dry	1	01/27/06 20:16

Qualifiers:

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 12.7

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-012B

Client Sample ID: BH-26-S

Collection Date: 01/11/06 12:35

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3929.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND		380	2.4	µg/Kg-dry	1	01/27/06 20:16
Benzoic acid	ND		1900	120	µg/Kg-dry	1	01/27/06 20:16
Benzyl alcohol	ND		380	4.2	µg/Kg-dry	1	01/27/06 20:16
bis(2-Chloroethoxy)methane	ND		380	1.5	µg/Kg-dry	1	01/27/06 20:16
bis(2-chloroethyl)ether	ND		380	2.2	µg/Kg-dry	1	01/27/06 20:16
bis(2-chloroisopropyl)ether	ND		380	2.2	µg/Kg-dry	1	01/27/06 20:16
bis(2-Ethylhexyl)phthalate	120 J		380	12	µg/Kg-dry	1	01/27/06 20:16
Butyl benzyl phthalate	ND		380	2.5	µg/Kg-dry	1	01/27/06 20:16
Chrysene	47 J		380	1.8	µg/Kg-dry	1	01/27/06 20:16
Di-n-butyl phthalate	ND		380	3.2	µg/Kg-dry	1	01/27/06 20:16
Di-n-octyl phthalate	ND		380	1.8	µg/Kg-dry	1	01/27/06 20:16
Dibenz[a,h]anthracene	ND		380	1.5	µg/Kg-dry	1	01/27/06 20:16
Dibenzofuran	ND		380	1.7	µg/Kg-dry	1	01/27/06 20:16
Diethyl phthalate	ND		380	2.7	µg/Kg-dry	1	01/27/06 20:16
Dimethyl phthalate	ND		380	1.9	µg/Kg-dry	1	01/27/06 20:16
Fluoranthene	72 J		380	1.8	µg/Kg-dry	1	01/27/06 20:16
Fluorene	ND		380	1.9	µg/Kg-dry	1	01/27/06 20:16
Hexachlorobenzene	ND		380	3.0	µg/Kg-dry	1	01/27/06 20:16
Hexachlorobutadiene	ND		380	4.0	µg/Kg-dry	1	01/27/06 20:16
Hexachlorocyclopentadiene	ND		380	15	µg/Kg-dry	1	01/27/06 20:16
Hexachloroethane	ND		380	4.1	µg/Kg-dry	1	01/27/06 20:16
Indeno[1,2,3-cd]pyrene	ND		380	1.5	µg/Kg-dry	1	01/27/06 20:16
Isophorone	ND		380	1.8	µg/Kg-dry	1	01/27/06 20:16
N-Nitroso-di-n-propylamine	ND		380	3.2	µg/Kg-dry	1	01/27/06 20:16
N-Nitrosodiphenylamine	ND		380	1.8	µg/Kg-dry	1	01/27/06 20:16
Naphthalene	ND		380	1.1	µg/Kg-dry	1	01/27/06 20:16
Nitrobenzene	ND		380	2.3	µg/Kg-dry	1	01/27/06 20:16
Pentachlorophenol	ND		1900	32	µg/Kg-dry	1	01/27/06 20:16
Phenanthrene	54 J		380	1.4	µg/Kg-dry	1	01/27/06 20:16
Phenol	ND		380	1.5	µg/Kg-dry	1	01/27/06 20:16
Pyrene	66 J		380	1.8	µg/Kg-dry	1	01/27/06 20:16
Surr: 2,4,6-Tribromophenol	117		20-143	0	%REC	1	01/27/06 20:16
Surr: 2-Fluorobiphenyl	90.3		46-130	0	%REC	1	01/27/06 20:16
Surr: 2-Fluorophenol	64.2		22-130	0	%REC	1	01/27/06 20:16
Surr: Nitrobenzene-d5	72.0		39-130	0	%REC	1	01/27/06 20:16

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:20:40 A

Sample Size: 30 g

%Moisture: 12.7

TestCode: 8270S TAGML

Lab ID: 0601049-012B

Client Sample ID: BH-26-S

Collection Date: 01/11/06 12:35

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3929.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	60.4		33-130	0	%REC	1	01/27/06 20:16
Surr: Terphenyl-d14	101		36-146	0	%REC	1	01/27/06 20:16

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander

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Life Science Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:20:40 A

Sample Size: 30 g

%Moisture: 24.3

TestCode: 8270S TAGML

Lab ID: 0601049-013B

Client Sample ID: BH-27-S

Collection Date: 01/11/06 13:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3930.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		440	3.5	µg/Kg-dry	1	01/27/06 20:53
1,2-Dichlorobenzene	ND		440	3.1	µg/Kg-dry	1	01/27/06 20:53
1,3-Dichlorobenzene	ND		440	2.1	µg/Kg-dry	1	01/27/06 20:53
1,4-Dichlorobenzene	ND		440	2.5	µg/Kg-dry	1	01/27/06 20:53
2,4,5-Trichlorophenol	ND		2200	43	µg/Kg-dry	1	01/27/06 20:53
2,4,6-Trichlorophenol	ND		440	4.1	µg/Kg-dry	1	01/27/06 20:53
2,4-Dichlorophenol	ND		440	4.0	µg/Kg-dry	1	01/27/06 20:53
2,4-Dimethylphenol	ND		440	3.7	µg/Kg-dry	1	01/27/06 20:53
2,4-Dinitrophenol	ND		2200	80	µg/Kg-dry	1	01/27/06 20:53
2,4-Dinitrotoluene	ND		440	3.6	µg/Kg-dry	1	01/27/06 20:53
2,6-Dinitrotoluene	ND		440	4.2	µg/Kg-dry	1	01/27/06 20:53
2-Chloronaphthalene	ND		440	2.1	µg/Kg-dry	1	01/27/06 20:53
2-Chlorophenol	ND		440	2.9	µg/Kg-dry	1	01/27/06 20:53
2-Methylnaphthalene	73 J		440	2.1	µg/Kg-dry	1	01/27/06 20:53
2-Methylphenol	ND		440	2.7	µg/Kg-dry	1	01/27/06 20:53
2-Nitroaniline	ND		2200	4.6	µg/Kg-dry	1	01/27/06 20:53
2-Nitrophenol	ND		440	5.0	µg/Kg-dry	1	01/27/06 20:53
3,3'-Dichlorobenzidine	ND		870	11	µg/Kg-dry	1	01/27/06 20:53
3-Nitroaniline	ND		2200	15	µg/Kg-dry	1	01/27/06 20:53
4,6-Dinitro-2-methylphenol	ND		2200	36	µg/Kg-dry	1	01/27/06 20:53
4-Bromophenyl phenyl ether	ND		440	3.1	µg/Kg-dry	1	01/27/06 20:53
4-Chloro-3-methylphenol	ND		440	3.5	µg/Kg-dry	1	01/27/06 20:53
4-Chloroaniline	ND		440	5.4	µg/Kg-dry	1	01/27/06 20:53
4-Chlorophenyl phenyl ether	ND		440	3.3	µg/Kg-dry	1	01/27/06 20:53
4-Methylphenol	ND		440	2.5	µg/Kg-dry	1	01/27/06 20:53
4-Nitroaniline	ND		2200	7.3	µg/Kg-dry	1	01/27/06 20:53
4-Nitrophenol	ND		2200	17	µg/Kg-dry	1	01/27/06 20:53
Acenaphthene	ND		440	1.5	µg/Kg-dry	1	01/27/06 20:53
Acenaphthylene	ND		440	2.0	µg/Kg-dry	1	01/27/06 20:53
Aniline	ND		440	5.4	µg/Kg-dry	1	01/27/06 20:53
Anthracene	ND		440	1.8	µg/Kg-dry	1	01/27/06 20:53
Benzo[a]anthracene	100 J		440	1.9	µg/Kg-dry	1	01/27/06 20:53
Benzo[a]pyrene	110 J		440	2.2	µg/Kg-dry	1	01/27/06 20:53
Benzo[b]fluoranthene	190 J		440	3.2	µg/Kg-dry	1	01/27/06 20:53
Benzo[g,h,i]perylene	70 J		440	2.2	µg/Kg-dry	1	01/27/06 20:53

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander

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Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 24.3

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-013B

Client Sample ID: BH-27-S

Collection Date: 01/11/06 13:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3930.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	61	J	440	2.8	µg/Kg-dry	1	01/27/06 20:53
Benzoic acid	ND		2200	140	µg/Kg-dry	1	01/27/06 20:53
Benzyl alcohol	ND		440	4.9	µg/Kg-dry	1	01/27/06 20:53
bis(2-Chloroethoxy)methane	ND		440	1.7	µg/Kg-dry	1	01/27/06 20:53
bis(2-chloroethyl)ether	ND		440	2.5	µg/Kg-dry	1	01/27/06 20:53
bis(2-chloroisopropyl)ether	ND		440	2.5	µg/Kg-dry	1	01/27/06 20:53
bis(2-Ethylhexyl)phthalate	72	J	440	14	µg/Kg-dry	1	01/27/06 20:53
Butyl benzyl phthalate	ND		440	2.9	µg/Kg-dry	1	01/27/06 20:53
Chrysene	120	J	440	2.1	µg/Kg-dry	1	01/27/06 20:53
Di-n-butyl phthalate	52	J	440	3.6	µg/Kg-dry	1	01/27/06 20:53
Di-n-octyl phthalate	ND		440	2.1	µg/Kg-dry	1	01/27/06 20:53
Dibenz[a,h]anthracene	ND		440	1.8	µg/Kg-dry	1	01/27/06 20:53
Dibenzofuran	ND		440	1.9	µg/Kg-dry	1	01/27/06 20:53
Diethyl phthalate	ND		440	3.1	µg/Kg-dry	1	01/27/06 20:53
Dimethyl phthalate	ND		440	2.2	µg/Kg-dry	1	01/27/06 20:53
Fluoranthene	150	J	440	2.0	µg/Kg-dry	1	01/27/06 20:53
Fluorene	ND		440	2.2	µg/Kg-dry	1	01/27/06 20:53
Hexachlorobenzene	ND		440	3.5	µg/Kg-dry	1	01/27/06 20:53
Hexachlorobutadiene	ND		440	4.7	µg/Kg-dry	1	01/27/06 20:53
Hexachlorocyclopentadiene	ND		440	17	µg/Kg-dry	1	01/27/06 20:53
Hexachloroethane	ND		440	4.7	µg/Kg-dry	1	01/27/06 20:53
Indeno[1,2,3-cd]pyrene	ND		440	1.8	µg/Kg-dry	1	01/27/06 20:53
Isophorone	ND		440	2.1	µg/Kg-dry	1	01/27/06 20:53
N-Nitroso-di-n-propylamine	ND		440	3.7	µg/Kg-dry	1	01/27/06 20:53
N-Nitrosodiphenylamine	ND		440	2.1	µg/Kg-dry	1	01/27/06 20:53
Naphthalene	84	J	440	1.3	µg/Kg-dry	1	01/27/06 20:53
Nitrobenzene	ND		440	2.6	µg/Kg-dry	1	01/27/06 20:53
Pentachlorophenol	ND		2200	36	µg/Kg-dry	1	01/27/06 20:53
Phenanthrene	130	J	440	1.6	µg/Kg-dry	1	01/27/06 20:53
Phenol	ND		440	1.8	µg/Kg-dry	1	01/27/06 20:53
Pyrene	180	J	440	2.1	µg/Kg-dry	1	01/27/06 20:53
Surr: 2,4,6-Tribromophenol	99.9		20-143	0	%REC	1	01/27/06 20:53
Surr: 2-Fluorobiphenyl	86.1		46-130	0	%REC	1	01/27/06 20:53
Surr: 2-Fluorophenol	61.5		22-130	0	%REC	1	01/27/06 20:53
Surr: Nitrobenzene-d5	68.8		39-130	0	%REC	1	01/27/06 20:53

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 24.3

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-013B

Client Sample ID: BH-27-S

Collection Date: 01/11/06 13:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3930.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	58.1		33-130	0	%REC	1	01/27/06 20:53
Surr: Terphenyl-d14	113		36-146	0	%REC	1	01/27/06 20:53

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:37:14 A

Sample Size: 30 g

%Moisture: 24.3

TestCode: 8270S TAGML

Lab ID: 0601049-013B

Client Sample ID: BH-27-S

Collection Date: 01/11/06 13:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3960.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		440	3.5	µg/Kg-dry	1	01/31/06 2:48
1,2-Dichlorobenzene	ND		440	3.1	µg/Kg-dry	1	01/31/06 2:48
1,3-Dichlorobenzene	ND		440	2.1	µg/Kg-dry	1	01/31/06 2:48
1,4-Dichlorobenzene	ND		440	2.5	µg/Kg-dry	1	01/31/06 2:48
2,4,5-Trichlorophenol	ND		2200	43	µg/Kg-dry	1	01/31/06 2:48
2,4,6-Trichlorophenol	ND		440	4.1	µg/Kg-dry	1	01/31/06 2:48
2,4-Dichlorophenol	ND		440	4.0	µg/Kg-dry	1	01/31/06 2:48
2,4-Dimethylphenol	ND		440	3.7	µg/Kg-dry	1	01/31/06 2:48
2,4-Dinitrophenol	ND		2200	80	µg/Kg-dry	1	01/31/06 2:48
2,4-Dinitrotoluene	ND		440	3.6	µg/Kg-dry	1	01/31/06 2:48
2,6-Dinitrotoluene	ND		440	4.2	µg/Kg-dry	1	01/31/06 2:48
2-Chloronaphthalene	ND		440	2.1	µg/Kg-dry	1	01/31/06 2:48
2-Chlorophenol	ND		440	2.9	µg/Kg-dry	1	01/31/06 2:48
2-Methylnaphthalene	64 J		440	2.1	µg/Kg-dry	1	01/31/06 2:48
2-Methylphenol	ND		440	2.7	µg/Kg-dry	1	01/31/06 2:48
2-Nitroaniline	ND		2200	4.6	µg/Kg-dry	1	01/31/06 2:48
2-Nitrophenol	ND		440	5.0	µg/Kg-dry	1	01/31/06 2:48
3,3'-Dichlorobenzidine	ND		870	11	µg/Kg-dry	1	01/31/06 2:48
3-Nitroaniline	ND		2200	15	µg/Kg-dry	1	01/31/06 2:48
4,6-Dinitro-2-methylphenol	ND		2200	36	µg/Kg-dry	1	01/31/06 2:48
4-Bromophenyl phenyl ether	ND		440	3.1	µg/Kg-dry	1	01/31/06 2:48
4-Chloro-3-methylphenol	ND		440	3.5	µg/Kg-dry	1	01/31/06 2:48
4-Chloroaniline	ND		440	5.4	µg/Kg-dry	1	01/31/06 2:48
4-Chlorophenyl phenyl ether	ND		440	3.3	µg/Kg-dry	1	01/31/06 2:48
4-Methylphenol	ND		440	2.5	µg/Kg-dry	1	01/31/06 2:48
4-Nitroaniline	ND		2200	7.3	µg/Kg-dry	1	01/31/06 2:48
4-Nitrophenol	ND		2200	17	µg/Kg-dry	1	01/31/06 2:48
Acenaphthene	ND		440	1.5	µg/Kg-dry	1	01/31/06 2:48
Acenaphthylene	ND		440	2.0	µg/Kg-dry	1	01/31/06 2:48
Aniline	ND		440	5.4	µg/Kg-dry	1	01/31/06 2:48
Anthracene	ND		440	1.8	µg/Kg-dry	1	01/31/06 2:48
Benzo[a]anthracene	93 J		440	1.9	µg/Kg-dry	1	01/31/06 2:48
Benzo[a]pyrene	110 J		440	2.2	µg/Kg-dry	1	01/31/06 2:48
Benzo[b]fluoranthene	190 J		440	3.2	µg/Kg-dry	1	01/31/06 2:48
Benzo[g,h,i]perylene	74 J		440	2.2	µg/Kg-dry	1	01/31/06 2:48

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 24.3

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-013B

Client Sample ID: BH-27-S

Collection Date: 01/11/06 13:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3960.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	45	J	440	2.8	µg/Kg-dry	1	01/31/06 2:48
Benzoic acid	ND		2200	140	µg/Kg-dry	1	01/31/06 2:48
Benzyl alcohol	ND		440	4.9	µg/Kg-dry	1	01/31/06 2:48
bis(2-Chloroethoxy)methane	ND		440	1.7	µg/Kg-dry	1	01/31/06 2:48
bis(2-chloroethyl)ether	ND		440	2.5	µg/Kg-dry	1	01/31/06 2:48
bis(2-chloroisopropyl)ether	ND		440	2.5	µg/Kg-dry	1	01/31/06 2:48
bis(2-Ethylhexyl)phthalate	95	J	440	14	µg/Kg-dry	1	01/31/06 2:48
Butyl benzyl phthalate	ND		440	2.9	µg/Kg-dry	1	01/31/06 2:48
Chrysene	120	J	440	2.1	µg/Kg-dry	1	01/31/06 2:48
Di-n-butyl phthalate	47	J	440	3.6	µg/Kg-dry	1	01/31/06 2:48
Di-n-octyl phthalate	ND		440	2.1	µg/Kg-dry	1	01/31/06 2:48
Dibenz[a,h]anthracene	ND		440	1.8	µg/Kg-dry	1	01/31/06 2:48
Dibenzofuran	ND		440	1.9	µg/Kg-dry	1	01/31/06 2:48
Diethyl phthalate	ND		440	3.1	µg/Kg-dry	1	01/31/06 2:48
Dimethyl phthalate	ND		440	2.2	µg/Kg-dry	1	01/31/06 2:48
Fluoranthene	130	J	440	2.0	µg/Kg-dry	1	01/31/06 2:48
Fluorene	ND		440	2.2	µg/Kg-dry	1	01/31/06 2:48
Hexachlorobenzene	ND		440	3.5	µg/Kg-dry	1	01/31/06 2:48
Hexachlorobutadiene	ND		440	4.7	µg/Kg-dry	1	01/31/06 2:48
Hexachlorocyclopentadiene	ND		440	17	µg/Kg-dry	1	01/31/06 2:48
Hexachloroethane	ND		440	4.7	µg/Kg-dry	1	01/31/06 2:48
Indeno[1,2,3-cd]pyrene	ND		440	1.8	µg/Kg-dry	1	01/31/06 2:48
Isophorone	ND		440	2.1	µg/Kg-dry	1	01/31/06 2:48
N-Nitroso-di-n-propylamine	ND		440	3.7	µg/Kg-dry	1	01/31/06 2:48
N-Nitrosodiphenylamine	ND		440	2.1	µg/Kg-dry	1	01/31/06 2:48
Naphthalene	77	J	440	1.3	µg/Kg-dry	1	01/31/06 2:48
Nitrobenzene	ND		440	2.6	µg/Kg-dry	1	01/31/06 2:48
Pentachlorophenol	ND		2200	36	µg/Kg-dry	1	01/31/06 2:48
Phenanthrene	110	J	440	1.6	µg/Kg-dry	1	01/31/06 2:48
Phenol	ND		440	1.8	µg/Kg-dry	1	01/31/06 2:48
Pyrene	180	J	440	2.1	µg/Kg-dry	1	01/31/06 2:48
Surr: 2,4,6-Tribromophenol	94.6		20-143	0	%REC	1	01/31/06 2:48
Surr: 2-Fluorobiphenyl	96.8		46-130	0	%REC	1	01/31/06 2:48
Surr: 2-Fluorophenol	65.3		22-130	0	%REC	1	01/31/06 2:48
Surr: Nitrobenzene-d5	74.7		39-130	0	%REC	1	01/31/06 2:48

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	Lab ID:	0601049-013B
Project:	Geneva Foundry	Client Sample ID:	BH-27-S
W Order:	0601049	Collection Date:	01/11/06 13:40
Matrix:	SOIL	Date Received:	01/12/06 7:50
Inst. ID:	MS05 26	Sample Size:	30 g
ColumnID:	ZB-5	%Moisture:	24.3
Revision:	01/31/06 10:37:14 A	PrepDate:	01/13/06 8:14 A
		BatchNo:	2374/R4381
		TestCode:	8270S TAGML
		FileID:	1-RA-N3960.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Sum: Phenol-d5	65.4	33-130	0	%REC	1		01/31/06 2:48
Sum: Terphenyl-d14	136	36-146	0	%REC	1		01/31/06 2:48

Qualifiers:	B Analyte detected in the associated Method Blank	E Value exceeds the instrument calibration range
	H Holding times for preparation or analysis exceeded	J Analyte detected below the PQL
	ND Not Detected at the Practical Quantitation Limit (PQL)	P Prim./Conf. column %D or RPD exceeds limit
	S Spike Recovery outside accepted recovery limits	

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 20.7

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-014B

Client Sample ID: BH-27-D

Collection Date: 01/11/06 13:55

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3931.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		420	3.3	µg/Kg-dry	1	01/27/06 21:31
1,2-Dichlorobenzene	ND		420	3.0	µg/Kg-dry	1	01/27/06 21:31
1,3-Dichlorobenzene	ND		420	2.0	µg/Kg-dry	1	01/27/06 21:31
1,4-Dichlorobenzene	ND		420	2.4	µg/Kg-dry	1	01/27/06 21:31
2,4,5-Trichlorophenol	ND		2100	41	µg/Kg-dry	1	01/27/06 21:31
2,4,6-Trichlorophenol	ND		420	3.9	µg/Kg-dry	1	01/27/06 21:31
2,4-Dichlorophenol	ND		420	3.8	µg/Kg-dry	1	01/27/06 21:31
2,4-Dimethylphenol	ND		420	3.6	µg/Kg-dry	1	01/27/06 21:31
2,4-Dinitrophenol	ND		2100	76	µg/Kg-dry	1	01/27/06 21:31
2,4-Dinitrotoluene	ND		420	3.5	µg/Kg-dry	1	01/27/06 21:31
2,6-Dinitrotoluene	ND		420	4.0	µg/Kg-dry	1	01/27/06 21:31
2-Chloronaphthalene	ND		420	2.0	µg/Kg-dry	1	01/27/06 21:31
2-Chlorophenol	ND		420	2.7	µg/Kg-dry	1	01/27/06 21:31
2-Methylnaphthalene	ND		420	2.0	µg/Kg-dry	1	01/27/06 21:31
2-Methylphenol	ND		420	2.6	µg/Kg-dry	1	01/27/06 21:31
2-Nitroaniline	ND		2100	4.4	µg/Kg-dry	1	01/27/06 21:31
2-Nitrophenol	ND		420	4.8	µg/Kg-dry	1	01/27/06 21:31
3,3'-Dichlorobenzidine	ND		830	10	µg/Kg-dry	1	01/27/06 21:31
3-Nitroaniline	ND		2100	14	µg/Kg-dry	1	01/27/06 21:31
4,6-Dinitro-2-methylphenol	ND		2100	34	µg/Kg-dry	1	01/27/06 21:31
4-Bromophenyl phenyl ether	ND		420	2.9	µg/Kg-dry	1	01/27/06 21:31
4-Chloro-3-methylphenol	ND		420	3.3	µg/Kg-dry	1	01/27/06 21:31
4-Chloroaniline	ND		420	5.1	µg/Kg-dry	1	01/27/06 21:31
4-Chlorophenyl phenyl ether	ND		420	3.2	µg/Kg-dry	1	01/27/06 21:31
4-Methylphenol	ND		420	2.4	µg/Kg-dry	1	01/27/06 21:31
4-Nitroaniline	ND		2100	7.0	µg/Kg-dry	1	01/27/06 21:31
4-Nitrophenol	ND		2100	17	µg/Kg-dry	1	01/27/06 21:31
Acenaphthene	ND		420	1.5	µg/Kg-dry	1	01/27/06 21:31
Acenaphthylene	ND		420	1.9	µg/Kg-dry	1	01/27/06 21:31
Aniline	ND		420	5.2	µg/Kg-dry	1	01/27/06 21:31
Anthracene	ND		420	1.7	µg/Kg-dry	1	01/27/06 21:31
Benzo[a]anthracene	83 J		420	1.8	µg/Kg-dry	1	01/27/06 21:31
Benzo[a]pyrene	110 J		420	2.1	µg/Kg-dry	1	01/27/06 21:31
Benzo[b]fluoranthene	120 J		420	3.0	µg/Kg-dry	1	01/27/06 21:31
Benzo[g,h,i]perylene	ND		420	2.1	µg/Kg-dry	1	01/27/06 21:31

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 20.7

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-014B

Client Sample ID: BH-27-D

Collection Date: 01/11/06 13:55

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3931.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	43 J	420		2.7	µg/Kg-dry	1	01/27/06 21:31
Benzoic acid	ND	2100		130	µg/Kg-dry	1	01/27/06 21:31
Benzyl alcohol	ND	420		4.6	µg/Kg-dry	1	01/27/06 21:31
bis(2-Chloroethoxy)methane	ND	420		1.6	µg/Kg-dry	1	01/27/06 21:31
bis(2-chloroethyl)ether	ND	420		2.4	µg/Kg-dry	1	01/27/06 21:31
bis(2-chloroisopropyl)ether	ND	420		2.4	µg/Kg-dry	1	01/27/06 21:31
bis(2-Ethylhexyl)phthalate	ND	420		14	µg/Kg-dry	1	01/27/06 21:31
Butyl benzyl phthalate	ND	420		2.7	µg/Kg-dry	1	01/27/06 21:31
Chrysene	76 J	420		2.0	µg/Kg-dry	1	01/27/06 21:31
Di-n-butyl phthalate	ND	420		3.5	µg/Kg-dry	1	01/27/06 21:31
Di-n-octyl phthalate	ND	420		2.0	µg/Kg-dry	1	01/27/06 21:31
Dibenz[a,h]anthracene	ND	420		1.7	µg/Kg-dry	1	01/27/06 21:31
Dibenzofuran	ND	420		1.8	µg/Kg-dry	1	01/27/06 21:31
Diethyl phthalate	ND	420		3.0	µg/Kg-dry	1	01/27/06 21:31
Dimethyl phthalate	ND	420		2.1	µg/Kg-dry	1	01/27/06 21:31
Fluoranthene	57 J	420		1.9	µg/Kg-dry	1	01/27/06 21:31
Fluorene	ND	420		2.1	µg/Kg-dry	1	01/27/06 21:31
Hexachlorobenzene	ND	420		3.3	µg/Kg-dry	1	01/27/06 21:31
Hexachlorobutadiene	ND	420		4.4	µg/Kg-dry	1	01/27/06 21:31
Hexachlorocyclopentadiene	ND	420		16	µg/Kg-dry	1	01/27/06 21:31
Hexachloroethane	ND	420		4.5	µg/Kg-dry	1	01/27/06 21:31
Indeno[1,2,3-cd]pyrene	ND	420		1.7	µg/Kg-dry	1	01/27/06 21:31
Isophorone	ND	420		2.0	µg/Kg-dry	1	01/27/06 21:31
N-Nitroso-di-n-propylamine	ND	420		3.6	µg/Kg-dry	1	01/27/06 21:31
N-Nitrosodiphenylamine	ND	420		2.0	µg/Kg-dry	1	01/27/06 21:31
Naphthalene	ND	420		1.3	µg/Kg-dry	1	01/27/06 21:31
Nitrobenzene	ND	420		2.5	µg/Kg-dry	1	01/27/06 21:31
Pentachlorophenol	ND	2100		35	µg/Kg-dry	1	01/27/06 21:31
Phenanthrene	ND	420		1.5	µg/Kg-dry	1	01/27/06 21:31
Phenol	ND	420		1.7	µg/Kg-dry	1	01/27/06 21:31
Pyrene	63 J	420		2.0	µg/Kg-dry	1	01/27/06 21:31
Surr: 2,4,6-Tribromophenol	38.7	20-143		0	%REC	1	01/27/06 21:31
Surr: 2-Fluorobiphenyl	31.0 S	46-130		0	%REC	1	01/27/06 21:31
Surr: 2-Fluorophenol	22.3	22-130		0	%REC	1	01/27/06 21:31
Surr: Nitrobenzene-d5	25.1 S	39-130		0	%REC	1	01/27/06 21:31

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 20.7

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-014B

Client Sample ID: BH-27-D

Collection Date: 01/11/06 13:55

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3931.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	20.6	S	33-130	0	%REC	1	01/27/06 21:31
Surr: Terphenyl-d14	34.4	S	36-146	0	%REC	1	01/27/06 21:31

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 20.7

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-014B

Client Sample ID: BH-27-D

Collection Date: 01/11/06 13:55

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3954.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		420	3.3	µg/Kg-dry	1	01/30/06 23:02
1,2-Dichlorobenzene	ND		420	3.0	µg/Kg-dry	1	01/30/06 23:02
1,3-Dichlorobenzene	ND		420	2.0	µg/Kg-dry	1	01/30/06 23:02
1,4-Dichlorobenzene	ND		420	2.4	µg/Kg-dry	1	01/30/06 23:02
2,4,5-Trichlorophenol	ND		2100	41	µg/Kg-dry	1	01/30/06 23:02
2,4,6-Trichlorophenol	ND		420	3.9	µg/Kg-dry	1	01/30/06 23:02
2,4-Dichlorophenol	ND		420	3.8	µg/Kg-dry	1	01/30/06 23:02
2,4-Dimethylphenol	ND		420	3.6	µg/Kg-dry	1	01/30/06 23:02
2,4-Dinitrophenol	ND		2100	76	µg/Kg-dry	1	01/30/06 23:02
2,4-Dinitrotoluene	ND		420	3.5	µg/Kg-dry	1	01/30/06 23:02
2,6-Dinitrotoluene	ND		420	4.0	µg/Kg-dry	1	01/30/06 23:02
2-Chloronaphthalene	ND		420	2.0	µg/Kg-dry	1	01/30/06 23:02
2-Chlorophenol	ND		420	2.7	µg/Kg-dry	1	01/30/06 23:02
2-Methylnaphthalene	ND		420	2.0	µg/Kg-dry	1	01/30/06 23:02
2-Methylphenol	ND		420	2.6	µg/Kg-dry	1	01/30/06 23:02
2-Nitroaniline	ND		2100	4.4	µg/Kg-dry	1	01/30/06 23:02
2-Nitrophenol	ND		420	4.8	µg/Kg-dry	1	01/30/06 23:02
3,3'-Dichlorobenzidine	ND		830	10	µg/Kg-dry	1	01/30/06 23:02
3-Nitroaniline	ND		2100	14	µg/Kg-dry	1	01/30/06 23:02
4,6-Dinitro-2-methylphenol	ND		2100	34	µg/Kg-dry	1	01/30/06 23:02
4-Bromophenyl phenyl ether	ND		420	2.9	µg/Kg-dry	1	01/30/06 23:02
4-Chloro-3-methylphenol	ND		420	3.3	µg/Kg-dry	1	01/30/06 23:02
4-Chloroaniline	ND		420	5.1	µg/Kg-dry	1	01/30/06 23:02
4-Chlorophenyl phenyl ether	ND		420	3.2	µg/Kg-dry	1	01/30/06 23:02
4-Methylphenol	ND		420	2.4	µg/Kg-dry	1	01/30/06 23:02
4-Nitroaniline	ND		2100	7.0	µg/Kg-dry	1	01/30/06 23:02
4-Nitrophenol	ND		2100	17	µg/Kg-dry	1	01/30/06 23:02
Acenaphthene	ND		420	1.5	µg/Kg-dry	1	01/30/06 23:02
Acenaphthylene	ND		420	1.9	µg/Kg-dry	1	01/30/06 23:02
Aniline	ND		420	5.2	µg/Kg-dry	1	01/30/06 23:02
Anthracene	ND		420	1.7	µg/Kg-dry	1	01/30/06 23:02
Benzo[a]anthracene	82 J		420	1.8	µg/Kg-dry	1	01/30/06 23:02
Benzo[a]pyrene	97 J		420	2.1	µg/Kg-dry	1	01/30/06 23:02
Benzo[b]fluoranthene	120 J		420	3.0	µg/Kg-dry	1	01/30/06 23:02
Benzo[g,h,i]perylene	ND		420	2.1	µg/Kg-dry	1	01/30/06 23:02

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 20.7

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-014B

Client Sample ID: BH-27-D

Collection Date: 01/11/06 13:55

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3954.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND		420	2.7	µg/Kg-dry	1	01/30/06 23:02
Benzoic acid	ND		2100	130	µg/Kg-dry	1	01/30/06 23:02
Benzyl alcohol	ND		420	4.6	µg/Kg-dry	1	01/30/06 23:02
bis(2-Chloroethoxy)methane	ND		420	1.6	µg/Kg-dry	1	01/30/06 23:02
bis(2-chloroethyl)ether	ND		420	2.4	µg/Kg-dry	1	01/30/06 23:02
bis(2-chloroisopropyl)ether	ND		420	2.4	µg/Kg-dry	1	01/30/06 23:02
bis(2-Ethylhexyl)phthalate	ND		420	14	µg/Kg-dry	1	01/30/06 23:02
Butyl benzyl phthalate	ND		420	2.7	µg/Kg-dry	1	01/30/06 23:02
Chrysene	70 J		420	2.0	µg/Kg-dry	1	01/30/06 23:02
Di-n-butyl phthalate	ND		420	3.5	µg/Kg-dry	1	01/30/06 23:02
Di-n-octyl phthalate	ND		420	2.0	µg/Kg-dry	1	01/30/06 23:02
Dibenz[a,h]anthracene	ND		420	1.7	µg/Kg-dry	1	01/30/06 23:02
Dibenzofuran	ND		420	1.8	µg/Kg-dry	1	01/30/06 23:02
Diethyl phthalate	ND		420	3.0	µg/Kg-dry	1	01/30/06 23:02
Dimethyl phthalate	ND		420	2.1	µg/Kg-dry	1	01/30/06 23:02
Fluoranthene	55 J		420	1.9	µg/Kg-dry	1	01/30/06 23:02
Fluorene	ND		420	2.1	µg/Kg-dry	1	01/30/06 23:02
Hexachlorobenzene	ND		420	3.3	µg/Kg-dry	1	01/30/06 23:02
Hexachlorobutadiene	ND		420	4.4	µg/Kg-dry	1	01/30/06 23:02
Hexachlorocyclopentadiene	ND		420	16	µg/Kg-dry	1	01/30/06 23:02
Hexachloroethane	ND		420	4.5	µg/Kg-dry	1	01/30/06 23:02
Indeno[1,2,3-cd]pyrene	ND		420	1.7	µg/Kg-dry	1	01/30/06 23:02
Isophorone	ND		420	2.0	µg/Kg-dry	1	01/30/06 23:02
N-Nitroso-di-n-propylamine	ND		420	3.6	µg/Kg-dry	1	01/30/06 23:02
N-Nitrosodiphenylamine	ND		420	2.0	µg/Kg-dry	1	01/30/06 23:02
Naphthalene	ND		420	1.3	µg/Kg-dry	1	01/30/06 23:02
Nitrobenzene	ND		420	2.5	µg/Kg-dry	1	01/30/06 23:02
Pentachlorophenol	ND		2100	35	µg/Kg-dry	1	01/30/06 23:02
Phenanthrene	ND		420	1.5	µg/Kg-dry	1	01/30/06 23:02
Phenol	ND		420	1.7	µg/Kg-dry	1	01/30/06 23:02
Pyrene	51 J		420	2.0	µg/Kg-dry	1	01/30/06 23:02
Surr: 2,4,6-Tribromophenol	36.6		20-143	0	%REC	1	01/30/06 23:02
Surr: 2-Fluorobiphenyl	30.0 S		46-130	0	%REC	1	01/30/06 23:02
Surr: 2-Fluorophenol	24.7		22-130	0	%REC	1	01/30/06 23:02
Surr: Nitrobenzene-d5	27.0 S		39-130	0	%REC	1	01/30/06 23:02

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 20.7

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-014B

Client Sample ID: BH-27-D

Collection Date: 01/11/06 13:55

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3954.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	23.4	S	33-130	0	%REC	1	01/30/06 23:02
Surr: Terphenyl-d14	29.5	S	36-146	0	%REC	1	01/30/06 23:02

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander

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Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 12.3

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-015B

Client Sample ID: BH-28-S

Collection Date: 01/11/06 15:10

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3938.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		38000	300	µg/Kg-dry	10	01/28/06 1:52
1,2-Dichlorobenzene	ND		38000	270	µg/Kg-dry	10	01/28/06 1:52
1,3-Dichlorobenzene	ND		38000	180	µg/Kg-dry	10	01/28/06 1:52
1,4-Dichlorobenzene	ND		38000	220	µg/Kg-dry	10	01/28/06 1:52
2,4,5-Trichlorophenol	ND		190000	3700	µg/Kg-dry	10	01/28/06 1:52
2,4,6-Trichlorophenol	ND		38000	350	µg/Kg-dry	10	01/28/06 1:52
2,4-Dichlorophenol	ND		38000	350	µg/Kg-dry	10	01/28/06 1:52
2,4-Dimethylphenol	ND		38000	320	µg/Kg-dry	10	01/28/06 1:52
2,4-Dinitrophenol	ND		190000	6900	µg/Kg-dry	10	01/28/06 1:52
2,4-Dinitrotoluene	ND		38000	310	µg/Kg-dry	10	01/28/06 1:52
2,6-Dinitrotoluene	ND		38000	360	µg/Kg-dry	10	01/28/06 1:52
2-Chloronaphthalene	ND		38000	180	µg/Kg-dry	10	01/28/06 1:52
2-Chlorophenol	ND		38000	250	µg/Kg-dry	10	01/28/06 1:52
2-Methylnaphthalene	ND		38000	180	µg/Kg-dry	10	01/28/06 1:52
2-Methylphenol	ND		38000	230	µg/Kg-dry	10	01/28/06 1:52
2-Nitroaniline	ND		190000	400	µg/Kg-dry	10	01/28/06 1:52
2-Nitrophenol	ND		38000	430	µg/Kg-dry	10	01/28/06 1:52
3,3'-Dichlorobenzidine	ND		75000	930	µg/Kg-dry	10	01/28/06 1:52
3-Nitroaniline	ND		190000	1300	µg/Kg-dry	10	01/28/06 1:52
4,6-Dinitro-2-methylphenol	ND		190000	3100	µg/Kg-dry	10	01/28/06 1:52
4-Bromophenyl phenyl ether	ND		38000	260	µg/Kg-dry	10	01/28/06 1:52
4-Chloro-3-methylphenol	ND		38000	300	µg/Kg-dry	10	01/28/06 1:52
4-Chloroaniline	ND		38000	460	µg/Kg-dry	10	01/28/06 1:52
4-Chlorophenyl phenyl ether	ND		38000	290	µg/Kg-dry	10	01/28/06 1:52
4-Methylphenol	ND		38000	220	µg/Kg-dry	10	01/28/06 1:52
4-Nitroaniline	ND		190000	630	µg/Kg-dry	10	01/28/06 1:52
4-Nitrophenol	ND		190000	1500	µg/Kg-dry	10	01/28/06 1:52
Acenaphthene	ND		38000	130	µg/Kg-dry	10	01/28/06 1:52
Acenaphthylene	ND		38000	170	µg/Kg-dry	10	01/28/06 1:52
Aniline	ND		38000	470	µg/Kg-dry	10	01/28/06 1:52
Anthracene	ND		38000	150	µg/Kg-dry	10	01/28/06 1:52
Benzo[a]anthracene	ND		38000	160	µg/Kg-dry	10	01/28/06 1:52
Benzo[a]pyrene	ND		38000	190	µg/Kg-dry	10	01/28/06 1:52
Benzo[b]fluoranthene	ND		38000	270	µg/Kg-dry	10	01/28/06 1:52
Benzo[g,h,i]perylene	ND		38000	190	µg/Kg-dry	10	01/28/06 1:52

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 12.3

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-015B

Client Sample ID: BH-28-S

Collection Date: 01/11/06 15:10

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3938.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND		38000	240	µg/Kg-dry	10	01/28/06 1:52
Benzoic acid	ND		190000	12000	µg/Kg-dry	10	01/28/06 1:52
Benzyl alcohol	ND		38000	420	µg/Kg-dry	10	01/28/06 1:52
bis(2-Chloroethoxy)methane	ND		38000	140	µg/Kg-dry	10	01/28/06 1:52
bis(2-chloroethyl)ether	ND		38000	220	µg/Kg-dry	10	01/28/06 1:52
bis(2-chloroisopropyl)ether	ND		38000	220	µg/Kg-dry	10	01/28/06 1:52
bis(2-Ethylhexyl)phthalate	ND		38000	1200	µg/Kg-dry	10	01/28/06 1:52
Butyl benzyl phthalate	ND		38000	250	µg/Kg-dry	10	01/28/06 1:52
Chrysene	ND		38000	180	µg/Kg-dry	10	01/28/06 1:52
Di-n-butyl phthalate	ND		38000	310	µg/Kg-dry	10	01/28/06 1:52
Di-n-octyl phthalate	ND		38000	180	µg/Kg-dry	10	01/28/06 1:52
Dibenz[a,h]anthracene	ND		38000	150	µg/Kg-dry	10	01/28/06 1:52
Dibenzofuran	ND		38000	170	µg/Kg-dry	10	01/28/06 1:52
Diethyl phthalate	ND		38000	270	µg/Kg-dry	10	01/28/06 1:52
Dimethyl phthalate	ND		38000	190	µg/Kg-dry	10	01/28/06 1:52
Fluoranthene	ND		38000	170	µg/Kg-dry	10	01/28/06 1:52
Fluorene	ND		38000	190	µg/Kg-dry	10	01/28/06 1:52
Hexachlorobenzene	ND		38000	300	µg/Kg-dry	10	01/28/06 1:52
Hexachlorobutadiene	ND		38000	400	µg/Kg-dry	10	01/28/06 1:52
Hexachlorocyclopentadiene	ND		38000	1500	µg/Kg-dry	10	01/28/06 1:52
Hexachloroethane	ND		38000	410	µg/Kg-dry	10	01/28/06 1:52
Indeno[1,2,3-cd]pyrene	ND		38000	150	µg/Kg-dry	10	01/28/06 1:52
Isophorone	ND		38000	180	µg/Kg-dry	10	01/28/06 1:52
N-Nitroso-di-n-propylamine	ND		38000	320	µg/Kg-dry	10	01/28/06 1:52
N-Nitrosodiphenylamine	ND		38000	180	µg/Kg-dry	10	01/28/06 1:52
Naphthalene	ND		38000	110	µg/Kg-dry	10	01/28/06 1:52
Nitrobenzene	ND		38000	230	µg/Kg-dry	10	01/28/06 1:52
Pentachlorophenol	ND		190000	3100	µg/Kg-dry	10	01/28/06 1:52
Phenanthrene	ND		38000	140	µg/Kg-dry	10	01/28/06 1:52
Phenol	ND		38000	150	µg/Kg-dry	10	01/28/06 1:52
Pyrene	ND		38000	180	µg/Kg-dry	10	01/28/06 1:52
Surr: 2,4,6-Tribromophenol	0		20-143	0	%REC	10	01/28/06 1:52
Surr: 2-Fluorobiphenyl	0		46-130	0	%REC	10	01/28/06 1:52
Surr: 2-Fluorophenol	0		22-130	0	%REC	10	01/28/06 1:52
Surr: Nitrobenzene-d5	0		39-130	0	%REC	10	01/28/06 1:52

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



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5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 12.3

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-015B

Client Sample ID: BH-28-S

Collection Date: 01/11/06 15:10

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3938.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
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SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

SW8270C

(SW3550B)

Surr: Phenol-d5

0

33-130

0

%REC

10

01/28/06 1:52

Surr: Terphenyl-d14

0

36-146

0

%REC

10

01/28/06 1:52

NOTES:

Surrogates were diluted.

Elevated detection limits due to matrix interference.

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 13:42

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 12.3

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-015B

Client Sample ID: BH-28-S

Collection Date: 01/11/06 15:10

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3963.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		38000	300	µg/Kg-dry	10	01/31/06 4:40
1,2-Dichlorobenzene	ND		38000	270	µg/Kg-dry	10	01/31/06 4:40
1,3-Dichlorobenzene	ND		38000	180	µg/Kg-dry	10	01/31/06 4:40
1,4-Dichlorobenzene	ND		38000	220	µg/Kg-dry	10	01/31/06 4:40
2,4,5-Trichlorophenol	ND		190000	3700	µg/Kg-dry	10	01/31/06 4:40
2,4,6-Trichlorophenol	ND		38000	350	µg/Kg-dry	10	01/31/06 4:40
2,4-Dichlorophenol	ND		38000	350	µg/Kg-dry	10	01/31/06 4:40
2,4-Dimethylphenol	ND		38000	320	µg/Kg-dry	10	01/31/06 4:40
2,4-Dinitrophenol	ND		190000	6900	µg/Kg-dry	10	01/31/06 4:40
2,4-Dinitrotoluene	ND		38000	310	µg/Kg-dry	10	01/31/06 4:40
2,6-Dinitrotoluene	ND		38000	360	µg/Kg-dry	10	01/31/06 4:40
2-Chloronaphthalene	ND		38000	180	µg/Kg-dry	10	01/31/06 4:40
2-Chlorophenol	ND		38000	250	µg/Kg-dry	10	01/31/06 4:40
2-Methylnaphthalene	ND		38000	180	µg/Kg-dry	10	01/31/06 4:40
2-Methylphenol	ND		38000	230	µg/Kg-dry	10	01/31/06 4:40
2-Nitroaniline	ND		190000	400	µg/Kg-dry	10	01/31/06 4:40
2-Nitrophenol	ND		38000	430	µg/Kg-dry	10	01/31/06 4:40
3,3'-Dichlorobenzidine	ND		75000	930	µg/Kg-dry	10	01/31/06 4:40
3-Nitroaniline	ND		190000	1300	µg/Kg-dry	10	01/31/06 4:40
4,6-Dinitro-2-methylphenol	ND		190000	3100	µg/Kg-dry	10	01/31/06 4:40
4-Bromophenyl phenyl ether	ND		38000	260	µg/Kg-dry	10	01/31/06 4:40
4-Chloro-3-methylphenol	ND		38000	300	µg/Kg-dry	10	01/31/06 4:40
4-Chloroaniline	ND		38000	460	µg/Kg-dry	10	01/31/06 4:40
4-Chlorophenyl phenyl ether	ND		38000	290	µg/Kg-dry	10	01/31/06 4:40
4-Methylphenol	ND		38000	220	µg/Kg-dry	10	01/31/06 4:40
4-Nitroaniline	ND		190000	630	µg/Kg-dry	10	01/31/06 4:40
4-Nitrophenol	ND		190000	1500	µg/Kg-dry	10	01/31/06 4:40
Acenaphthene	ND		38000	130	µg/Kg-dry	10	01/31/06 4:40
Acenaphthylene	ND		38000	170	µg/Kg-dry	10	01/31/06 4:40
Aniline	ND		38000	470	µg/Kg-dry	10	01/31/06 4:40
Anthracene	ND		38000	150	µg/Kg-dry	10	01/31/06 4:40
Benzo[a]anthracene	ND		38000	160	µg/Kg-dry	10	01/31/06 4:40
Benzo[a]pyrene	ND		38000	190	µg/Kg-dry	10	01/31/06 4:40
Benzo[b]fluoranthene	ND		38000	270	µg/Kg-dry	10	01/31/06 4:40
Benzo[g,h,i]perylene	ND		38000	190	µg/Kg-dry	10	01/31/06 4:40

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 12.3

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-015B

Client Sample ID: BH-28-S

Collection Date: 01/11/06 15:10

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3963.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND		38000	240	µg/Kg-dry	10	01/31/06 4:40
Benzoic acid	ND		190000	12000	µg/Kg-dry	10	01/31/06 4:40
Benzyl alcohol	ND		38000	420	µg/Kg-dry	10	01/31/06 4:40
bis(2-Chloroethoxy)methane	ND		38000	140	µg/Kg-dry	10	01/31/06 4:40
bis(2-chloroethyl)ether	ND		38000	220	µg/Kg-dry	10	01/31/06 4:40
bis(2-chloroisopropyl)ether	ND		38000	220	µg/Kg-dry	10	01/31/06 4:40
bis(2-Ethylhexyl)phthalate	ND		38000	1200	µg/Kg-dry	10	01/31/06 4:40
Butyl benzyl phthalate	ND		38000	250	µg/Kg-dry	10	01/31/06 4:40
Chrysene	ND		38000	180	µg/Kg-dry	10	01/31/06 4:40
Di-n-butyl phthalate	ND		38000	310	µg/Kg-dry	10	01/31/06 4:40
Di-n-octyl phthalate	ND		38000	180	µg/Kg-dry	10	01/31/06 4:40
Dibenz[a,h]anthracene	ND		38000	150	µg/Kg-dry	10	01/31/06 4:40
Dibenzofuran	ND		38000	170	µg/Kg-dry	10	01/31/06 4:40
Diethyl phthalate	ND		38000	270	µg/Kg-dry	10	01/31/06 4:40
Dimethyl phthalate	ND		38000	190	µg/Kg-dry	10	01/31/06 4:40
Fluoranthene	ND		38000	170	µg/Kg-dry	10	01/31/06 4:40
Fluorene	ND		38000	190	µg/Kg-dry	10	01/31/06 4:40
Hexachlorobenzene	ND		38000	300	µg/Kg-dry	10	01/31/06 4:40
Hexachlorobutadiene	ND		38000	400	µg/Kg-dry	10	01/31/06 4:40
Hexachlorocyclopentadiene	ND		38000	1500	µg/Kg-dry	10	01/31/06 4:40
Hexachloroethane	ND		38000	410	µg/Kg-dry	10	01/31/06 4:40
Indeno[1,2,3-cd]pyrene	ND		38000	150	µg/Kg-dry	10	01/31/06 4:40
Isophorone	ND		38000	180	µg/Kg-dry	10	01/31/06 4:40
N-Nitroso-di-n-propylamine	ND		38000	320	µg/Kg-dry	10	01/31/06 4:40
N-Nitrosodiphenylamine	ND		38000	180	µg/Kg-dry	10	01/31/06 4:40
Naphthalene	ND		38000	110	µg/Kg-dry	10	01/31/06 4:40
Nitrobenzene	ND		38000	230	µg/Kg-dry	10	01/31/06 4:40
Pentachlorophenol	ND		190000	3100	µg/Kg-dry	10	01/31/06 4:40
Phenanthrene	ND		38000	140	µg/Kg-dry	10	01/31/06 4:40
Phenol	ND		38000	150	µg/Kg-dry	10	01/31/06 4:40
Pyrene	ND		38000	180	µg/Kg-dry	10	01/31/06 4:40
Surr: 2,4,6-Tribromophenol	0		20-143	0	%REC	10	01/31/06 4:40
Surr: 2-Fluorobiphenyl	0		46-130	0	%REC	10	01/31/06 4:40
Surr: 2-Fluorophenol	0		22-130	0	%REC	10	01/31/06 4:40
Surr: Nitrobenzene-d5	0		39-130	0	%REC	10	01/31/06 4:40

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 13:42

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 12.3

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-015B

Client Sample ID: BH-28-S

Collection Date: 01/11/06 15:10

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3963.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	0		33-130	0	%REC	10	01/31/06 4:40
Surr: Terphenyl-d14	0		36-146	0	%REC	10	01/31/06 4:40

NOTES:

Surrogates were diluted.

Elevated detection limits due to matrix interference.

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 13:42

Project Supervisor: Thomas A. Alexander

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Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.6

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-016B

Client Sample ID: BH-28-D

Collection Date: 01/11/06 15:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3932.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		410	3.3	µg/Kg-dry	1	01/27/06 22:08
1,2-Dichlorobenzene	ND		410	2.9	µg/Kg-dry	1	01/27/06 22:08
1,3-Dichlorobenzene	ND		410	2.0	µg/Kg-dry	1	01/27/06 22:08
1,4-Dichlorobenzene	ND		410	2.4	µg/Kg-dry	1	01/27/06 22:08
2,4,5-Trichlorophenol	ND		2100	41	µg/Kg-dry	1	01/27/06 22:08
2,4,6-Trichlorophenol	ND		410	3.8	µg/Kg-dry	1	01/27/06 22:08
2,4-Dichlorophenol	ND		410	3.8	µg/Kg-dry	1	01/27/06 22:08
2,4-Dimethylphenol	ND		410	3.5	µg/Kg-dry	1	01/27/06 22:08
2,4-Dinitrophenol	ND		2100	75	µg/Kg-dry	1	01/27/06 22:08
2,4-Dinitrotoluene	ND		410	3.4	µg/Kg-dry	1	01/27/06 22:08
2,6-Dinitrotoluene	ND		410	4.0	µg/Kg-dry	1	01/27/06 22:08
2-Chloronaphthalene	ND		410	2.0	µg/Kg-dry	1	01/27/06 22:08
2-Chlorophenol	ND		410	2.7	µg/Kg-dry	1	01/27/06 22:08
2-Methylnaphthalene	ND		410	2.0	µg/Kg-dry	1	01/27/06 22:08
2-Methylphenol	ND		410	2.5	µg/Kg-dry	1	01/27/06 22:08
2-Nitroaniline	ND		2100	4.4	µg/Kg-dry	1	01/27/06 22:08
2-Nitrophenol	ND		410	4.7	µg/Kg-dry	1	01/27/06 22:08
3,3'-Dichlorobenzidine	ND		820	10	µg/Kg-dry	1	01/27/06 22:08
3-Nitroaniline	ND		2100	14	µg/Kg-dry	1	01/27/06 22:08
4,6-Dinitro-2-methylphenol	ND		2100	34	µg/Kg-dry	1	01/27/06 22:08
4-Bromophenyl phenyl ether	ND		410	2.9	µg/Kg-dry	1	01/27/06 22:08
4-Chloro-3-methylphenol	ND		410	3.3	µg/Kg-dry	1	01/27/06 22:08
4-Chloroaniline	ND		410	5.0	µg/Kg-dry	1	01/27/06 22:08
4-Chlorophenyl phenyl ether	ND		410	3.1	µg/Kg-dry	1	01/27/06 22:08
4-Methylphenol	ND		410	2.4	µg/Kg-dry	1	01/27/06 22:08
4-Nitroaniline	ND		2100	6.9	µg/Kg-dry	1	01/27/06 22:08
4-Nitrophenol	ND		2100	16	µg/Kg-dry	1	01/27/06 22:08
Acenaphthene	ND		410	1.5	µg/Kg-dry	1	01/27/06 22:08
Acenaphthylene	ND		410	1.6	µg/Kg-dry	1	01/27/06 22:08
Aniline	ND		410	5.1	µg/Kg-dry	1	01/27/06 22:08
Anthracene	ND		410	1.7	µg/Kg-dry	1	01/27/06 22:08
Benzo[a]anthracene	ND		410	1.8	µg/Kg-dry	1	01/27/06 22:08
Benzo[a]pyrene	ND		410	2.1	µg/Kg-dry	1	01/27/06 22:08
Benzo[b]fluoranthene	ND		410	3.0	µg/Kg-dry	1	01/27/06 22:08
Benzo[g,h,i]perylene	ND		410	2.1	µg/Kg-dry	1	01/27/06 22:08

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.6

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-016B

Client Sample ID: BH-28-D

Collection Date: 01/11/06 15:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3932.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND	410		2.6	µg/Kg-dry	1	01/27/06 22:08
Benzoic acid	ND	2100		130	µg/Kg-dry	1	01/27/06 22:08
Benzyl alcohol	ND	410		4.6	µg/Kg-dry	1	01/27/06 22:08
bis(2-Chloroethoxy)methane	ND	410		1.6	µg/Kg-dry	1	01/27/06 22:08
bis(2-chloroethyl)ether	ND	410		2.4	µg/Kg-dry	1	01/27/06 22:08
bis(2-chloroisopropyl)ether	ND	410		2.4	µg/Kg-dry	1	01/27/06 22:08
bis(2-Ethylhexyl)phthalate	ND	410		14	µg/Kg-dry	1	01/27/06 22:08
Butyl benzyl phthalate	ND	410		2.7	µg/Kg-dry	1	01/27/06 22:08
Chrysene	45 J	410		2.0	µg/Kg-dry	1	01/27/06 22:08
Di-n-butyl phthalate	ND	410		3.4	µg/Kg-dry	1	01/27/06 22:08
Di-n-octyl phthalate	ND	410		2.0	µg/Kg-dry	1	01/27/06 22:08
Dibenz[a,h]anthracene	ND	410		1.7	µg/Kg-dry	1	01/27/06 22:08
Dibenzofuran	ND	410		1.8	µg/Kg-dry	1	01/27/06 22:08
Diethyl phthalate	ND	410		3.0	µg/Kg-dry	1	01/27/06 22:08
Dimethyl phthalate	ND	410		2.1	µg/Kg-dry	1	01/27/06 22:08
Fluoranthene	ND	410		1.9	µg/Kg-dry	1	01/27/06 22:08
Fluorene	ND	410		2.1	µg/Kg-dry	1	01/27/06 22:08
Hexachlorobenzene	ND	410		3.3	µg/Kg-dry	1	01/27/06 22:08
Hexachlorobutadiene	ND	410		4.4	µg/Kg-dry	1	01/27/06 22:08
Hexachlorocyclopentadiene	ND	410		16	µg/Kg-dry	1	01/27/06 22:08
Hexachloroethane	ND	410		4.4	µg/Kg-dry	1	01/27/06 22:08
Indeno[1,2,3-cd]pyrene	ND	410		1.7	µg/Kg-dry	1	01/27/06 22:08
Isophorone	ND	410		2.0	µg/Kg-dry	1	01/27/06 22:08
N-Nitroso-di-n-propylamine	ND	410		3.5	µg/Kg-dry	1	01/27/06 22:08
N-Nitrosodiphenylamine	ND	410		2.0	µg/Kg-dry	1	01/27/06 22:08
Naphthalene	ND	410		1.2	µg/Kg-dry	1	01/27/06 22:08
Nitrobenzene	ND	410		2.5	µg/Kg-dry	1	01/27/06 22:08
Pentachlorophenol	ND	2100		34	µg/Kg-dry	1	01/27/06 22:08
Phenanthrene	ND	410		1.5	µg/Kg-dry	1	01/27/06 22:08
Phenol	ND	410		1.7	µg/Kg-dry	1	01/27/06 22:08
Pyrene	ND	410		2.0	µg/Kg-dry	1	01/27/06 22:08
Surr: 2,4,6-Tribromophenol	132	20-143		0	%REC	1	01/27/06 22:08
Surr: 2-Fluorobiphenyl	95.6	46-130		0	%REC	1	01/27/06 22:08
Surr: 2-Fluorophenol	71.2	22-130		0	%REC	1	01/27/06 22:08
Surr: Nitrobenzene-d5	76.3	39-130		0	%REC	1	01/27/06 22:08

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.6

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-016B

Client Sample ID: BH-28-D

Collection Date: 01/11/06 15:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3932.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Sum: Phenol-d5	65.2	33-130	0	%REC	1		01/27/06 22:08
Sum: Terphenyl-d14	109	36-146	0	%REC	1		01/27/06 22:08

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.6

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-016B

Client Sample ID: BH-28-D

Collection Date: 01/11/06 15:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3952.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND	410		3.3	µg/Kg-dry	1	01/30/06 21:47
1,2-Dichlorobenzene	ND	410		2.9	µg/Kg-dry	1	01/30/06 21:47
1,3-Dichlorobenzene	ND	410		2.0	µg/Kg-dry	1	01/30/06 21:47
1,4-Dichlorobenzene	ND	410		2.4	µg/Kg-dry	1	01/30/06 21:47
2,4,5-Trichlorophenol	ND	2100		41	µg/Kg-dry	1	01/30/06 21:47
2,4,6-Trichlorophenol	ND	410		3.8	µg/Kg-dry	1	01/30/06 21:47
2,4-Dichlorophenol	ND	410		3.8	µg/Kg-dry	1	01/30/06 21:47
2,4-Dimethylphenol	ND	410		3.5	µg/Kg-dry	1	01/30/06 21:47
2,4-Dinitrophenol	ND	2100		75	µg/Kg-dry	1	01/30/06 21:47
2,4-Dinitrotoluene	ND	410		3.4	µg/Kg-dry	1	01/30/06 21:47
2,6-Dinitrotoluene	ND	410		4.0	µg/Kg-dry	1	01/30/06 21:47
2-Chloronaphthalene	ND	410		2.0	µg/Kg-dry	1	01/30/06 21:47
2-Chlorophenol	ND	410		2.7	µg/Kg-dry	1	01/30/06 21:47
2-Methylnaphthalene	ND	410		2.0	µg/Kg-dry	1	01/30/06 21:47
2-Methylphenol	ND	410		2.5	µg/Kg-dry	1	01/30/06 21:47
2-Nitroaniline	ND	2100		4.4	µg/Kg-dry	1	01/30/06 21:47
2-Nitrophenol	ND	410		4.7	µg/Kg-dry	1	01/30/06 21:47
3,3'-Dichlorobenzidine	ND	820		10	µg/Kg-dry	1	01/30/06 21:47
3-Nitroaniline	ND	2100		14	µg/Kg-dry	1	01/30/06 21:47
4,6-Dinitro-2-methylphenol	ND	2100		34	µg/Kg-dry	1	01/30/06 21:47
4-Bromophenyl phenyl ether	ND	410		2.9	µg/Kg-dry	1	01/30/06 21:47
4-Chloro-3-methylphenol	ND	410		3.3	µg/Kg-dry	1	01/30/06 21:47
4-Chloroaniline	ND	410		5.0	µg/Kg-dry	1	01/30/06 21:47
4-Chlorophenyl phenyl ether	ND	410		3.1	µg/Kg-dry	1	01/30/06 21:47
4-Methylphenol	ND	410		2.4	µg/Kg-dry	1	01/30/06 21:47
4-Nitroaniline	ND	2100		6.9	µg/Kg-dry	1	01/30/06 21:47
4-Nitrophenol	ND	2100		16	µg/Kg-dry	1	01/30/06 21:47
Acenaphthene	ND	410		1.5	µg/Kg-dry	1	01/30/06 21:47
Acenaphthylene	ND	410		1.8	µg/Kg-dry	1	01/30/06 21:47
Aniline	ND	410		5.1	µg/Kg-dry	1	01/30/06 21:47
Anthracene	ND	410		1.7	µg/Kg-dry	1	01/30/06 21:47
Benzo[a]anthracene	ND	410		1.8	µg/Kg-dry	1	01/30/06 21:47
Benzo[a]pyrene	ND	410		2.1	µg/Kg-dry	1	01/30/06 21:47
Benzo[b]fluoranthene	ND	410		3.0	µg/Kg-dry	1	01/30/06 21:47
Benzo[g,h,i]perylene	ND	410		2.1	µg/Kg-dry	1	01/30/06 21:47

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:37:14 A

Sample Size: 30 g

%Moisture: 19.6

TestCode: 8270S TAGML

Lab ID: 0601049-016B

Client Sample ID: BH-28-D

Collection Date: 01/11/06 15:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3952.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND	410		2.6	µg/Kg-dry	1	01/30/06 21:47
Benzoic acid	ND	2100		130	µg/Kg-dry	1	01/30/06 21:47
Benzyl alcohol	ND	410		4.6	µg/Kg-dry	1	01/30/06 21:47
bis(2-Chloroethoxy)methane	ND	410		1.6	µg/Kg-dry	1	01/30/06 21:47
bis(2-chloroethyl)ether	ND	410		2.4	µg/Kg-dry	1	01/30/06 21:47
bis(2-chloroisopropyl)ether	ND	410		2.4	µg/Kg-dry	1	01/30/06 21:47
bis(2-Ethylhexyl)phthalate	ND	410		14	µg/Kg-dry	1	01/30/06 21:47
Butyl benzyl phthalate	ND	410		2.7	µg/Kg-dry	1	01/30/06 21:47
Chrysene	ND	410		2.0	µg/Kg-dry	1	01/30/06 21:47
Di-n-butyl phthalate	ND	410		3.4	µg/Kg-dry	1	01/30/06 21:47
Di-n-octyl phthalate	ND	410		2.0	µg/Kg-dry	1	01/30/06 21:47
Dibenz[a,h]anthracene	ND	410		1.7	µg/Kg-dry	1	01/30/06 21:47
Dibenzofuran	ND	410		1.8	µg/Kg-dry	1	01/30/06 21:47
Diethyl phthalate	ND	410		3.0	µg/Kg-dry	1	01/30/06 21:47
Dimethyl phthalate	ND	410		2.1	µg/Kg-dry	1	01/30/06 21:47
Fluoranthene	ND	410		1.9	µg/Kg-dry	1	01/30/06 21:47
Fluorene	ND	410		2.1	µg/Kg-dry	1	01/30/06 21:47
Hexachlorobenzene	ND	410		3.3	µg/Kg-dry	1	01/30/06 21:47
Hexachlorobutadiene	ND	410		4.4	µg/Kg-dry	1	01/30/06 21:47
Hexachlorocyclopentadiene	ND	410		16	µg/Kg-dry	1	01/30/06 21:47
Hexachloroethane	ND	410		4.4	µg/Kg-dry	1	01/30/06 21:47
Indeno[1,2,3-cd]pyrene	ND	410		1.7	µg/Kg-dry	1	01/30/06 21:47
Isophorone	ND	410		2.0	µg/Kg-dry	1	01/30/06 21:47
N-Nitroso-di-n-propylamine	ND	410		3.5	µg/Kg-dry	1	01/30/06 21:47
N-Nitrosodiphenylamine	ND	410		2.0	µg/Kg-dry	1	01/30/06 21:47
Naphthalene	ND	410		1.2	µg/Kg-dry	1	01/30/06 21:47
Nitrobenzene	ND	410		2.5	µg/Kg-dry	1	01/30/06 21:47
Pentachlorophenol	ND	2100		34	µg/Kg-dry	1	01/30/06 21:47
Phenanthrene	ND	410		1.5	µg/Kg-dry	1	01/30/06 21:47
Phenol	ND	410		1.7	µg/Kg-dry	1	01/30/06 21:47
Pyrene	ND	410		2.0	µg/Kg-dry	1	01/30/06 21:47
Surr: 2,4,6-Tribromophenol	133	20-143		0	%REC	1	01/30/06 21:47
Surr: 2-Fluorobiphenyl	104	46-130		0	%REC	1	01/30/06 21:47
Surr: 2-Fluorophenol	75.3	22-130		0	%REC	1	01/30/06 21:47
Surr: Nitrobenzene-d5	86.1	39-130		0	%REC	1	01/30/06 21:47

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.6

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-016B

Client Sample ID: BH-28-D

Collection Date: 01/11/06 15:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3952.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	70.3	33-130	0	%REC	1		01/30/06 21:47
Surr: Terphenyl-d14	110	36-146	0	%REC	1		01/30/06 21:47

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 12.3

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-017B

Client Sample ID: BH-29-S

Collection Date: 01/11/06 16:05

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3933.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		380	3.0	µg/Kg-dry	1	01/27/06 22:45
1,2-Dichlorobenzene	ND		380	2.7	µg/Kg-dry	1	01/27/06 22:45
1,3-Dichlorobenzene	ND		380	1.8	µg/Kg-dry	1	01/27/06 22:45
1,4-Dichlorobenzene	ND		380	2.2	µg/Kg-dry	1	01/27/06 22:45
2,4,5-Trichlorophenol	ND		1900	37	µg/Kg-dry	1	01/27/06 22:45
2,4,6-Trichlorophenol	ND		380	3.5	µg/Kg-dry	1	01/27/06 22:45
2,4-Dichlorophenol	ND		380	3.5	µg/Kg-dry	1	01/27/06 22:45
2,4-Dimethylphenol	ND		380	3.2	µg/Kg-dry	1	01/27/06 22:45
2,4-Dinitrophenol	ND		1900	69	µg/Kg-dry	1	01/27/06 22:45
2,4-Dinitrotoluene	ND		380	3.1	µg/Kg-dry	1	01/27/06 22:45
2,6-Dinitrotoluene	ND		380	3.6	µg/Kg-dry	1	01/27/06 22:45
2-Chloronaphthalene	ND		380	1.8	µg/Kg-dry	1	01/27/06 22:45
2-Chlorophenol	ND		380	2.5	µg/Kg-dry	1	01/27/06 22:45
2-Methylnaphthalene	47 J		380	1.8	µg/Kg-dry	1	01/27/06 22:45
2-Methylphenol	ND		380	2.3	µg/Kg-dry	1	01/27/06 22:45
2-Nitroaniline	ND		1900	4.0	µg/Kg-dry	1	01/27/06 22:45
2-Nitrophenol	ND		380	4.3	µg/Kg-dry	1	01/27/06 22:45
3,3'-Dichlorobenzidine	ND		750	9.3	µg/Kg-dry	1	01/27/06 22:45
3-Nitroaniline	ND		1900	13	µg/Kg-dry	1	01/27/06 22:45
4,6-Dinitro-2-methylphenol	ND		1900	31	µg/Kg-dry	1	01/27/06 22:45
4-Bromophenyl phenyl ether	ND		380	2.6	µg/Kg-dry	1	01/27/06 22:45
4-Chloro-3-methylphenol	ND		380	3.0	µg/Kg-dry	1	01/27/06 22:45
4-Chloroaniline	ND		380	4.6	µg/Kg-dry	1	01/27/06 22:45
4-Chlorophenyl phenyl ether	ND		380	2.9	µg/Kg-dry	1	01/27/06 22:45
4-Methylphenol	ND		380	2.2	µg/Kg-dry	1	01/27/06 22:45
4-Nitroaniline	ND		1900	6.3	µg/Kg-dry	1	01/27/06 22:45
4-Nitrophenol	ND		1900	15	µg/Kg-dry	1	01/27/06 22:45
Acenaphthene	ND		380	1.3	µg/Kg-dry	1	01/27/06 22:45
Acenaphthylene	77 J		380	1.7	µg/Kg-dry	1	01/27/06 22:45
Aniline	ND		380	4.7	µg/Kg-dry	1	01/27/06 22:45
Anthracene	130 J		380	1.5	µg/Kg-dry	1	01/27/06 22:45
Benzo[a]anthracene	480		380	1.6	µg/Kg-dry	1	01/27/06 22:45
Benzo[a]pyrene	470		380	1.9	µg/Kg-dry	1	01/27/06 22:45
Benzo[b]fluoranthene	730		380	2.7	µg/Kg-dry	1	01/27/06 22:45
Benzo[g,h,i]perylene	230 J		380	1.9	µg/Kg-dry	1	01/27/06 22:45

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:20:40 A

Sample Size: 30 g

%Moisture: 12.3

TestCode: 8270S TAGML

Lab ID: 0601049-017B

Client Sample ID: BH-29-S

Collection Date: 01/11/06 16:05

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3933.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	280	J	380	2.4	µg/Kg-dry	1	01/27/06 22:45
Benzoic acid	ND		1900	120	µg/Kg-dry	1	01/27/06 22:45
Benzyl alcohol	ND		380	4.2	µg/Kg-dry	1	01/27/06 22:45
bis(2-Chloroethoxy)methane	ND		380	1.4	µg/Kg-dry	1	01/27/06 22:45
bis(2-chloroethyl)ether	ND		380	2.2	µg/Kg-dry	1	01/27/06 22:45
bis(2-chloroisopropyl)ether	ND		380	2.2	µg/Kg-dry	1	01/27/06 22:45
bis(2-Ethylhexyl)phthalate	180	J	380	12	µg/Kg-dry	1	01/27/06 22:45
Butyl benzyl phthalate	ND		380	2.5	µg/Kg-dry	1	01/27/06 22:45
Chrysene	560		380	1.8	µg/Kg-dry	1	01/27/06 22:45
Di-n-butyl phthalate	110	J	380	3.1	µg/Kg-dry	1	01/27/06 22:45
Di-n-octyl phthalate	ND		380	1.8	µg/Kg-dry	1	01/27/06 22:45
Dibenz[a,h]anthracene	81	J	380	1.5	µg/Kg-dry	1	01/27/06 22:45
Dibenzofuran	49	J	380	1.7	µg/Kg-dry	1	01/27/06 22:45
Diethyl phthalate	ND		380	2.7	µg/Kg-dry	1	01/27/06 22:45
Dimethyl phthalate	ND		380	1.9	µg/Kg-dry	1	01/27/06 22:45
Fluoranthene	1200		380	1.7	µg/Kg-dry	1	01/27/06 22:45
Fluorene	53	J	380	1.9	µg/Kg-dry	1	01/27/06 22:45
Hexachlorobenzene	ND		380	3.0	µg/Kg-dry	1	01/27/06 22:45
Hexachlorobutadiene	ND		380	4.0	µg/Kg-dry	1	01/27/06 22:45
Hexachlorocyclopentadiene	ND		380	15	µg/Kg-dry	1	01/27/06 22:45
Hexachloroethane	ND		380	4.1	µg/Kg-dry	1	01/27/06 22:45
Indeno[1,2,3-cd]pyrene	160	J	380	1.5	µg/Kg-dry	1	01/27/06 22:45
Isophorone	ND		380	1.8	µg/Kg-dry	1	01/27/06 22:45
N-Nitroso-di-n-propylamine	ND		380	3.2	µg/Kg-dry	1	01/27/06 22:45
N-Nitrosodiphenylamine	ND		380	1.8	µg/Kg-dry	1	01/27/06 22:45
Naphthalene	43	J	380	1.1	µg/Kg-dry	1	01/27/06 22:45
Nitrobenzene	ND		380	2.3	µg/Kg-dry	1	01/27/06 22:45
Pentachlorophenol	ND		1900	31	µg/Kg-dry	1	01/27/06 22:45
Phenanthrene	820		380	1.4	µg/Kg-dry	1	01/27/06 22:45
Phenol	ND		380	1.5	µg/Kg-dry	1	01/27/06 22:45
Pyrene	1100		380	1.8	µg/Kg-dry	1	01/27/06 22:45
Surr: 2,4,6-Tribromophenol	90.0		20-143	0	%REC	1	01/27/06 22:45
Surr: 2-Fluorobiphenyl	87.6		46-130	0	%REC	1	01/27/06 22:45
Surr: 2-Fluorophenol	58.4		22-130	0	%REC	1	01/27/06 22:45
Surr: Nitrobenzene-d5	65.3		39-130	0	%REC	1	01/27/06 22:45

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



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5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 12.3

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-017B

Client Sample ID: BH-29-S

Collection Date: 01/11/06 16:05

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3933.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: PhenoId5	56.1	33-130	0	%REC	1		01/27/06 22:45
Surr: Terphenyl-d14	109	36-146	0	%REC	1		01/27/06 22:45

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 12.3

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-017B

Client Sample ID: BH-29-S

Collection Date: 01/11/06 16:05

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: I-RA-N3961.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		380	3.0	µg/Kg-dry	1	01/31/06 3:25
1,2-Dichlorobenzene	ND		380	2.7	µg/Kg-dry	1	01/31/06 3:25
1,3-Dichlorobenzene	ND		380	1.8	µg/Kg-dry	1	01/31/06 3:25
1,4-Dichlorobenzene	ND		380	2.2	µg/Kg-dry	1	01/31/06 3:25
2,4,5-Trichlorophenol	ND		1900	37	µg/Kg-dry	1	01/31/06 3:25
2,4,6-Trichlorophenol	ND		380	3.5	µg/Kg-dry	1	01/31/06 3:25
2,4-Dichlorophenol	ND		380	3.5	µg/Kg-dry	1	01/31/06 3:25
2,4-Dimethylphenol	ND		380	3.2	µg/Kg-dry	1	01/31/06 3:25
2,4-Dinitrophenol	ND		1900	69	µg/Kg-dry	1	01/31/06 3:25
2,4-Dinitrotoluene	ND		380	3.1	µg/Kg-dry	1	01/31/06 3:25
2,6-Dinitrotoluene	ND		380	3.6	µg/Kg-dry	1	01/31/06 3:25
2-Chloronaphthalene	ND		380	1.8	µg/Kg-dry	1	01/31/06 3:25
2-Chlorophenol	ND		380	2.5	µg/Kg-dry	1	01/31/06 3:25
2-Methylnaphthalene	40 J		380	1.8	µg/Kg-dry	1	01/31/06 3:25
2-Methylphenol	ND		380	2.3	µg/Kg-dry	1	01/31/06 3:25
2-Nitroaniline	ND		1900	4.0	µg/Kg-dry	1	01/31/06 3:25
2-Nitrophenol	ND		380	4.3	µg/Kg-dry	1	01/31/06 3:25
3,3'-Dichlorobenzidine	ND		750	9.3	µg/Kg-dry	1	01/31/06 3:25
3-Nitroaniline	ND		1900	13	µg/Kg-dry	1	01/31/06 3:25
4,6-Dinitro-2-methylphenol	ND		1900	31	µg/Kg-dry	1	01/31/06 3:25
4-Bromophenyl phenyl ether	ND		380	2.6	µg/Kg-dry	1	01/31/06 3:25
4-Chloro-3-methylphenol	ND		380	3.0	µg/Kg-dry	1	01/31/06 3:25
4-Chloroaniline	ND		380	4.6	µg/Kg-dry	1	01/31/06 3:25
4-Chlorophenyl phenyl ether	ND		380	2.9	µg/Kg-dry	1	01/31/06 3:25
4-Methylphenol	ND		380	2.2	µg/Kg-dry	1	01/31/06 3:25
4-Nitroaniline	ND		1900	6.3	µg/Kg-dry	1	01/31/06 3:25
4-Nitrophenol	ND		1900	15	µg/Kg-dry	1	01/31/06 3:25
Acenaphthene	ND		380	1.3	µg/Kg-dry	1	01/31/06 3:25
Acenaphthylene	70 J		380	1.7	µg/Kg-dry	1	01/31/06 3:25
Aniline	ND		380	4.7	µg/Kg-dry	1	01/31/06 3:25
Anthracene	110 J		380	1.5	µg/Kg-dry	1	01/31/06 3:25
Benzo[a]anthracene	480		380	1.6	µg/Kg-dry	1	01/31/06 3:25
Benzo[a]pyrene	490		380	1.9	µg/Kg-dry	1	01/31/06 3:25
Benzo[b]fluoranthene	790		380	2.7	µg/Kg-dry	1	01/31/06 3:25
Benzo[g,h,i]perylene	240 J		380	1.9	µg/Kg-dry	1	01/31/06 3:25

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 12.3

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-017B

Client Sample ID: BH-29-S

Collection Date: 01/11/06 16:05

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3961.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	280 J	380		2.4	µg/Kg-dry	1	01/31/06 3:25
Benzoic acid	ND	1900		120	µg/Kg-dry	1	01/31/06 3:25
Benzyl alcohol	ND	380		4.2	µg/Kg-dry	1	01/31/06 3:25
bis(2-Chloroethoxy)methane	ND	380		1.4	µg/Kg-dry	1	01/31/06 3:25
bis(2-chloroethyl)ether	ND	380		2.2	µg/Kg-dry	1	01/31/06 3:25
bis(2-chloroisopropyl)ether	ND	380		2.2	µg/Kg-dry	1	01/31/06 3:25
bis(2-Ethylhexyl)phthalate	210 J	380		12	µg/Kg-dry	1	01/31/06 3:25
Butyl benzyl phthalate	ND	380		2.5	µg/Kg-dry	1	01/31/06 3:25
Chrysene	550	380		1.8	µg/Kg-dry	1	01/31/06 3:25
Di-n-butyl phthalate	110 J	380		3.1	µg/Kg-dry	1	01/31/06 3:25
Di-n-octyl phthalate	ND	380		1.8	µg/Kg-dry	1	01/31/06 3:25
Dibenz[a,h]anthracene	82 J	380		1.5	µg/Kg-dry	1	01/31/06 3:25
Dibenzofuran	50 J	380		1.7	µg/Kg-dry	1	01/31/06 3:25
Diethyl phthalate	ND	380		2.7	µg/Kg-dry	1	01/31/06 3:25
Dimethyl phthalate	ND	380		1.9	µg/Kg-dry	1	01/31/06 3:25
Fluoranthene	1100	380		1.7	µg/Kg-dry	1	01/31/06 3:25
Fluorene	51 J	380		1.9	µg/Kg-dry	1	01/31/06 3:25
Hexachlorobenzene	ND	380		3.0	µg/Kg-dry	1	01/31/06 3:25
Hexachlorobutadiene	ND	380		4.0	µg/Kg-dry	1	01/31/06 3:25
Hexachlorocyclopentadiene	ND	380		15	µg/Kg-dry	1	01/31/06 3:25
Hexachloroethane	ND	380		4.1	µg/Kg-dry	1	01/31/06 3:25
Indeno[1,2,3-cd]pyrene	140 J	380		1.5	µg/Kg-dry	1	01/31/06 3:25
Isophorone	ND	380		1.8	µg/Kg-dry	1	01/31/06 3:25
N-Nitroso-di-n-propylamine	ND	380		3.2	µg/Kg-dry	1	01/31/06 3:25
N-Nitrosodiphenylamine	ND	380		1.8	µg/Kg-dry	1	01/31/06 3:25
Naphthalene	40 J	380		1.1	µg/Kg-dry	1	01/31/06 3:25
Nitrobenzene	ND	380		2.3	µg/Kg-dry	1	01/31/06 3:25
Pentachlorophenol	ND	1900		31	µg/Kg-dry	1	01/31/06 3:25
Phenanthrene	800	380		1.4	µg/Kg-dry	1	01/31/06 3:25
Phenol	ND	380		1.5	µg/Kg-dry	1	01/31/06 3:25
Pyrene	1200	380		1.8	µg/Kg-dry	1	01/31/06 3:25
Surr: 2,4,6-Tribromophenol	80.6	20-143		0	%REC	1	01/31/06 3:25
Surr: 2-Fluorobiphenyl	97.8	46-130		0	%REC	1	01/31/06 3:25
Surr: 2-Fluorophenol	64.1	22-130		0	%REC	1	01/31/06 3:25
Surr: Nitrobenzene-d5	70.1	39-130		0	%REC	1	01/31/06 3:25

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 12.3

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-017B

Client Sample ID: BH-29-S

Collection Date: 01/11/06 16:05

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3961.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr. Phenol-d5	64.1	33-130	0	%REC	1		01/31/06 3:25
Surr. Terphenyl-d14	135	36-146	0	%REC	1		01/31/06 3:25

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:20:40 A

Sample Size: 30 g

%Moisture: 20.4

TestCode: 8270S TAGML

Lab ID: 0601049-018B

Client Sample ID: BH-29-D

Collection Date: 01/11/06 16:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3934.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		410	3.3	µg/Kg-dry	1	01/27/06 23:23
1,2-Dichlorobenzene	ND		410	2.9	µg/Kg-dry	1	01/27/06 23:23
1,3-Dichlorobenzene	ND		410	2.0	µg/Kg-dry	1	01/27/06 23:23
1,4-Dichlorobenzene	ND		410	2.4	µg/Kg-dry	1	01/27/06 23:23
2,4,5-Trichlorophenol	ND		2100	41	µg/Kg-dry	1	01/27/06 23:23
2,4,6-Trichlorophenol	ND		410	3.9	µg/Kg-dry	1	01/27/06 23:23
2,4-Dichlorophenol	ND		410	3.8	µg/Kg-dry	1	01/27/06 23:23
2,4-Dimethylphenol	ND		410	3.5	µg/Kg-dry	1	01/27/06 23:23
2,4-Dinitrophenol	ND		2100	76	µg/Kg-dry	1	01/27/06 23:23
2,4-Dinitrotoluene	ND		410	3.5	µg/Kg-dry	1	01/27/06 23:23
2,6-Dinitrotoluene	ND		410	4.0	µg/Kg-dry	1	01/27/06 23:23
2-Chloronaphthalene	ND		410	2.0	µg/Kg-dry	1	01/27/06 23:23
2-Chlorophenol	ND		410	2.7	µg/Kg-dry	1	01/27/06 23:23
2-Methylnaphthalene	ND		410	2.0	µg/Kg-dry	1	01/27/06 23:23
2-Methylphenol	ND		410	2.6	µg/Kg-dry	1	01/27/06 23:23
2-Nitroaniline	ND		2100	4.4	µg/Kg-dry	1	01/27/06 23:23
2-Nitrophenol	ND		410	4.8	µg/Kg-dry	1	01/27/06 23:23
3,3'-Dichlorobenzidine	ND		830	10	µg/Kg-dry	1	01/27/06 23:23
3-Nitroaniline	ND		2100	14	µg/Kg-dry	1	01/27/06 23:23
4,6-Dinitro-2-methylphenol	ND		2100	34	µg/Kg-dry	1	01/27/06 23:23
4-Bromophenyl phenyl ether	ND		410	2.9	µg/Kg-dry	1	01/27/06 23:23
4-Chloro-3-methylphenol	ND		410	3.3	µg/Kg-dry	1	01/27/06 23:23
4-Chloroaniline	ND		410	5.1	µg/Kg-dry	1	01/27/06 23:23
4-Chlorophenyl phenyl ether	ND		410	3.2	µg/Kg-dry	1	01/27/06 23:23
4-Methylphenol	ND		410	2.4	µg/Kg-dry	1	01/27/06 23:23
4-Nitroaniline	ND		2100	6.9	µg/Kg-dry	1	01/27/06 23:23
4-Nitrophenol	ND		2100	17	µg/Kg-dry	1	01/27/06 23:23
Acenaphthene	ND		410	1.5	µg/Kg-dry	1	01/27/06 23:23
Acenaphthylene	ND		410	1.9	µg/Kg-dry	1	01/27/06 23:23
Aniline	ND		410	5.2	µg/Kg-dry	1	01/27/06 23:23
Anthracene	ND		410	1.7	µg/Kg-dry	1	01/27/06 23:23
Benzo[a]anthracene	ND		410	1.8	µg/Kg-dry	1	01/27/06 23:23
Benzo[a]pyrene	ND		410	2.1	µg/Kg-dry	1	01/27/06 23:23
Benzo[b]fluoranthene	ND		410	3.0	µg/Kg-dry	1	01/27/06 23:23
Benzo[g,h,i]perylene	ND		410	2.1	µg/Kg-dry	1	01/27/06 23:23

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:20:40 A

Sample Size: 30 g

%Moisture: 20.4

TestCode: 8270S TAGML

Lab ID: 0601049-018B

Client Sample ID: BH-29-D

Collection Date: 01/11/06 16:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3934.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND	410		2.7	µg/Kg-dry	1	01/27/06 23:23
Benzoic acid	ND	2100		130	µg/Kg-dry	1	01/27/06 23:23
Benzyl alcohol	ND	410		4.6	µg/Kg-dry	1	01/27/06 23:23
bis(2-Chloroethoxy)methane	ND	410		1.6	µg/Kg-dry	1	01/27/06 23:23
bis(2-chloroethyl)ether	ND	410		2.4	µg/Kg-dry	1	01/27/06 23:23
bis(2-chloroisopropyl)ether	ND	410		2.4	µg/Kg-dry	1	01/27/06 23:23
bis(2-Ethylhexyl)phthalate	ND	410		14	µg/Kg-dry	1	01/27/06 23:23
Butyl benzyl phthalate	ND	410		2.7	µg/Kg-dry	1	01/27/06 23:23
Chrysene	ND	410		2.0	µg/Kg-dry	1	01/27/06 23:23
Di-n-butyl phthalate	ND	410		3.5	µg/Kg-dry	1	01/27/06 23:23
Di-n-octyl phthalate	ND	410		2.0	µg/Kg-dry	1	01/27/06 23:23
Dibenz[a,h]anthracene	ND	410		1.7	µg/Kg-dry	1	01/27/06 23:23
Dibenzofuran	ND	410		1.8	µg/Kg-dry	1	01/27/06 23:23
Diethyl phthalate	ND	410		3.0	µg/Kg-dry	1	01/27/06 23:23
Dimethyl phthalate	ND	410		2.1	µg/Kg-dry	1	01/27/06 23:23
Fluoranthene	ND	410		1.9	µg/Kg-dry	1	01/27/06 23:23
Fluorene	ND	410		2.1	µg/Kg-dry	1	01/27/06 23:23
Hexachlorobenzene	ND	410		3.3	µg/Kg-dry	1	01/27/06 23:23
Hexachlorobutadiene	ND	410		4.4	µg/Kg-dry	1	01/27/06 23:23
Hexachlorocyclopentadiene	ND	410		16	µg/Kg-dry	1	01/27/06 23:23
Hexachloroethane	ND	410		4.5	µg/Kg-dry	1	01/27/06 23:23
Indeno[1,2,3-cd]pyrene	ND	410		1.7	µg/Kg-dry	1	01/27/06 23:23
Isophorone	ND	410		2.0	µg/Kg-dry	1	01/27/06 23:23
N-Nitroso-di-n-propylamine	ND	410		3.6	µg/Kg-dry	1	01/27/06 23:23
N-Nitrosodiphenylamine	ND	410		2.0	µg/Kg-dry	1	01/27/06 23:23
Naphthalene	ND	410		1.3	µg/Kg-dry	1	01/27/06 23:23
Nitrobenzene	ND	410		2.5	µg/Kg-dry	1	01/27/06 23:23
Pentachlorophenol	ND	2100		35	µg/Kg-dry	1	01/27/06 23:23
Phenanthrene	ND	410		1.5	µg/Kg-dry	1	01/27/06 23:23
Phenol	ND	410		1.7	µg/Kg-dry	1	01/27/06 23:23
Pyrene	ND	410		2.0	µg/Kg-dry	1	01/27/06 23:23
Surr: 2,4,6-Tribromophenol	124	20-143		0	%REC	1	01/27/06 23:23
Surr: 2-Fluorobiphenyl	92.3	46-130		0	%REC	1	01/27/06 23:23
Surr: 2-Fluorophenol	66.6	22-130		0	%REC	1	01/27/06 23:23
Surr: Nitrobenzene-d5	77.5	39-130		0	%REC	1	01/27/06 23:23

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 20.4

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-018B

Client Sample ID: BH-29-D

Collection Date: 01/11/06 16:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3934.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	62.1	33-130	0	%REC	1		01/27/06 23:23
Surr: Terphenyl-d14	109	36-146	0	%REC	1		01/27/06 23:23

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 20.4

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-018B

Client Sample ID: BH-29-D

Collection Date: 01/11/06 16:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3950.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		410	3.3	µg/Kg-dry	1	01/30/06 20:32
1,2-Dichlorobenzene	ND		410	2.9	µg/Kg-dry	1	01/30/06 20:32
1,3-Dichlorobenzene	ND		410	2.0	µg/Kg-dry	1	01/30/06 20:32
1,4-Dichlorobenzene	ND		410	2.4	µg/Kg-dry	1	01/30/06 20:32
2,4,5-Trichlorophenol	ND		2100	41	µg/Kg-dry	1	01/30/06 20:32
2,4,6-Trichlorophenol	ND		410	3.9	µg/Kg-dry	1	01/30/06 20:32
2,4-Dichlorophenol	ND		410	3.8	µg/Kg-dry	1	01/30/06 20:32
2,4-Dimethylphenol	ND		410	3.5	µg/Kg-dry	1	01/30/06 20:32
2,4-Dinitrophenol	ND		2100	76	µg/Kg-dry	1	01/30/06 20:32
2,4-Dinitrotoluene	ND		410	3.5	µg/Kg-dry	1	01/30/06 20:32
2,6-Dinitrotoluene	ND		410	4.0	µg/Kg-dry	1	01/30/06 20:32
2-Chloronaphthalene	ND		410	2.0	µg/Kg-dry	1	01/30/06 20:32
2-Chlorophenol	ND		410	2.7	µg/Kg-dry	1	01/30/06 20:32
2-Methylnaphthalene	ND		410	2.0	µg/Kg-dry	1	01/30/06 20:32
2-Methylphenol	ND		410	2.6	µg/Kg-dry	1	01/30/06 20:32
2-Nitroaniline	ND		2100	4.4	µg/Kg-dry	1	01/30/06 20:32
2-Nitrophenol	ND		410	4.8	µg/Kg-dry	1	01/30/06 20:32
3,3'-Dichlorobenzidine	ND		830	10	µg/Kg-dry	1	01/30/06 20:32
3-Nitroaniline	ND		2100	14	µg/Kg-dry	1	01/30/06 20:32
4,8-Dinitro-2-methylphenol	ND		2100	34	µg/Kg-dry	1	01/30/06 20:32
4-Bromophenyl phenyl ether	ND		410	2.9	µg/Kg-dry	1	01/30/06 20:32
4-Chloro-3-methylphenol	ND		410	3.3	µg/Kg-dry	1	01/30/06 20:32
4-Chloroaniline	ND		410	5.1	µg/Kg-dry	1	01/30/06 20:32
4-Chlorophenyl phenyl ether	ND		410	3.2	µg/Kg-dry	1	01/30/06 20:32
4-Methylphenol	ND		410	2.4	µg/Kg-dry	1	01/30/06 20:32
4-Nitroaniline	ND		2100	6.9	µg/Kg-dry	1	01/30/06 20:32
4-Nitrophenol	ND		2100	17	µg/Kg-dry	1	01/30/06 20:32
Acenaphthene	ND		410	1.5	µg/Kg-dry	1	01/30/06 20:32
Acenaphthylene	ND		410	1.9	µg/Kg-dry	1	01/30/06 20:32
Aniline	ND		410	5.2	µg/Kg-dry	1	01/30/06 20:32
Anthracene	ND		410	1.7	µg/Kg-dry	1	01/30/06 20:32
Benzo[a]anthracene	ND		410	1.8	µg/Kg-dry	1	01/30/06 20:32
Benzo[a]pyrene	ND		410	2.1	µg/Kg-dry	1	01/30/06 20:32
Benzo[b]fluoranthene	ND		410	3.0	µg/Kg-dry	1	01/30/06 20:32
Benzo[g,h,i]perylene	ND		410	2.1	µg/Kg-dry	1	01/30/06 20:32

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander

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Life Science Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 20.4

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-018B

Client Sample ID: BH-29-D

Collection Date: 01/11/06 16:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3950.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND	410		2.7	µg/Kg-dry	1	01/30/06 20:32
Benzoic acid	ND	2100		130	µg/Kg-dry	1	01/30/06 20:32
Benzyl alcohol	ND	410		4.6	µg/Kg-dry	1	01/30/06 20:32
bis(2-Chloroethoxy)methane	ND	410		1.6	µg/Kg-dry	1	01/30/06 20:32
bis(2-chloroethyl)ether	ND	410		2.4	µg/Kg-dry	1	01/30/06 20:32
bis(2-chloroisopropyl)ether	ND	410		2.4	µg/Kg-dry	1	01/30/06 20:32
bis(2-Ethylhexyl)phthalate	ND	410		14	µg/Kg-dry	1	01/30/06 20:32
Butyl benzyl phthalate	ND	410		2.7	µg/Kg-dry	1	01/30/06 20:32
Chrysene	ND	410		2.0	µg/Kg-dry	1	01/30/06 20:32
Di-n-butyl phthalate	ND	410		3.5	µg/Kg-dry	1	01/30/06 20:32
Di-n-octyl phthalate	ND	410		2.0	µg/Kg-dry	1	01/30/06 20:32
Dibenz[a,h]anthracene	ND	410		1.7	µg/Kg-dry	1	01/30/06 20:32
Dibenzofuran	ND	410		1.8	µg/Kg-dry	1	01/30/06 20:32
Diethyl phthalate	ND	410		3.0	µg/Kg-dry	1	01/30/06 20:32
Dimethyl phthalate	ND	410		2.1	µg/Kg-dry	1	01/30/06 20:32
Fluoranthene	ND	410		1.9	µg/Kg-dry	1	01/30/06 20:32
Fluorene	ND	410		2.1	µg/Kg-dry	1	01/30/06 20:32
Hexachlorobenzene	ND	410		3.3	µg/Kg-dry	1	01/30/06 20:32
Hexachlorobutadiene	ND	410		4.4	µg/Kg-dry	1	01/30/06 20:32
Hexachlorocyclopentadiene	ND	410		16	µg/Kg-dry	1	01/30/06 20:32
Hexachloroethane	ND	410		4.5	µg/Kg-dry	1	01/30/06 20:32
Indeno[1,2,3-cd]pyrene	ND	410		1.7	µg/Kg-dry	1	01/30/06 20:32
Isophorone	ND	410		2.0	µg/Kg-dry	1	01/30/06 20:32
N-Nitroso-di-n-propylamine	ND	410		3.6	µg/Kg-dry	1	01/30/06 20:32
N-Nitrosodiphenylamine	ND	410		2.0	µg/Kg-dry	1	01/30/06 20:32
Naphthalene	ND	410		1.3	µg/Kg-dry	1	01/30/06 20:32
Nitrobenzene	ND	410		2.5	µg/Kg-dry	1	01/30/06 20:32
Pentachlorophenol	ND	2100		35	µg/Kg-dry	1	01/30/06 20:32
Phenanthrene	ND	410		1.5	µg/Kg-dry	1	01/30/06 20:32
Phenol	ND	410		1.7	µg/Kg-dry	1	01/30/06 20:32
Pyrene	ND	410		2.0	µg/Kg-dry	1	01/30/06 20:32
Surr: 2,4,6-Tribromophenol	119	20-143		0	%REC	1	01/30/06 20:32
Surr: 2-Fluorobiphenyl	98.7	46-130		0	%REC	1	01/30/06 20:32
Surr: 2-Fluorophenol	74.5	22-130		0	%REC	1	01/30/06 20:32
Surr: Nitrobenzene-d5	86.5	39-130		0	%REC	1	01/30/06 20:32

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 20.4

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-018B

Client Sample ID: BH-29-D

Collection Date: 01/11/06 16:20

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3950.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	69.2	33-130	0		%REC	1	01/30/06 20:32
Surr: Terphenyl-d14	106	36-146	0		%REC	1	01/30/06 20:32

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:20:40 A

Sample Size: 30 g

%Moisture: 18.6

TestCode: 8270S TAGML

Lab ID: 0601049-019B

Client Sample ID: BH-34-S

Collection Date: 01/11/06 14:30

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3937.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		20000	160	µg/Kg-dry	10	01/28/06 1:15
1,2-Dichlorobenzene	ND		20000	140	µg/Kg-dry	10	01/28/06 1:15
1,3-Dichlorobenzene	ND		20000	97	µg/Kg-dry	10	01/28/06 1:15
1,4-Dichlorobenzene	ND		20000	120	µg/Kg-dry	10	01/28/06 1:15
2,4,5-Trichlorophenol	ND		100000	2000	µg/Kg-dry	10	01/28/06 1:15
2,4,6-Trichlorophenol	ND		20000	190	µg/Kg-dry	10	01/28/06 1:15
2,4-Dichlorophenol	ND		20000	190	µg/Kg-dry	10	01/28/06 1:15
2,4-Dimethylphenol	ND		20000	170	µg/Kg-dry	10	01/28/06 1:15
2,4-Dinitrophenol	ND		100000	3700	µg/Kg-dry	10	01/28/06 1:15
2,4-Dinitrotoluene	ND		20000	170	µg/Kg-dry	10	01/28/06 1:15
2,6-Dinitrotoluene	ND		20000	200	µg/Kg-dry	10	01/28/06 1:15
2-Chloronaphthalene	ND		20000	97	µg/Kg-dry	10	01/28/06 1:15
2-Chlorophenol	ND		20000	130	µg/Kg-dry	10	01/28/06 1:15
2-Methylnaphthalene	ND		20000	98	µg/Kg-dry	10	01/28/06 1:15
2-Methylphenol	ND		20000	130	µg/Kg-dry	10	01/28/06 1:15
2-Nitroaniline	ND		100000	210	µg/Kg-dry	10	01/28/06 1:15
2-Nitrophenol	ND		20000	230	µg/Kg-dry	10	01/28/06 1:15
3,3'-Dichlorobenzidine	ND		41000	500	µg/Kg-dry	10	01/28/06 1:15
3-Nitroaniline	ND		100000	690	µg/Kg-dry	10	01/28/06 1:15
4,6-Dinitro-2-methylphenol	ND		100000	1700	µg/Kg-dry	10	01/28/06 1:15
4-Bromophenyl phenyl ether	ND		20000	140	µg/Kg-dry	10	01/28/06 1:15
4-Chloro-3-methylphenol	ND		20000	160	µg/Kg-dry	10	01/28/06 1:15
4-Chloroaniline	ND		20000	250	µg/Kg-dry	10	01/28/06 1:15
4-Chlorophenyl phenyl ether	ND		20000	160	µg/Kg-dry	10	01/28/06 1:15
4-Methylphenol	ND		20000	120	µg/Kg-dry	10	01/28/06 1:15
4-Nitroaniline	ND		100000	340	µg/Kg-dry	10	01/28/06 1:15
4-Nitrophenol	ND		100000	810	µg/Kg-dry	10	01/28/06 1:15
Acenaphthene	ND		20000	72	µg/Kg-dry	10	01/28/06 1:15
Acenaphthylene	ND		20000	91	µg/Kg-dry	10	01/28/06 1:15
Aniline	ND		20000	250	µg/Kg-dry	10	01/28/06 1:15
Anthracene	ND		20000	83	µg/Kg-dry	10	01/28/06 1:15
Benzo[a]anthracene	ND		20000	87	µg/Kg-dry	10	01/28/06 1:15
Benzo[a]pyrene	ND		20000	100	µg/Kg-dry	10	01/28/06 1:15
Benzo[b]fluoranthene	ND		20000	150	µg/Kg-dry	10	01/28/06 1:15
Benzo[g,h,i]perylene	ND		20000	100	µg/Kg-dry	10	01/28/06 1:15

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

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W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 18.6

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-019B

Client Sample ID: BH-34-S

Collection Date: 01/11/06 14:30

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3937.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND	20000	130	µg/Kg-dry	10	01/28/06 1:15	
Benzoic acid	ND	100000	6500	µg/Kg-dry	10	01/28/06 1:15	
Benzyl alcohol	ND	20000	230	µg/Kg-dry	10	01/28/06 1:15	
bis(2-Chloroethoxy)methane	ND	20000	78	µg/Kg-dry	10	01/28/06 1:15	
bis(2-chloroethyl)ether	ND	20000	120	µg/Kg-dry	10	01/28/06 1:15	
bis(2-chloroisopropyl)ether	ND	20000	120	µg/Kg-dry	10	01/28/06 1:15	
bis(2-Ethylhexyl)phthalate	ND	20000	670	µg/Kg-dry	10	01/28/06 1:15	
Butyl benzyl phthalate	ND	20000	130	µg/Kg-dry	10	01/28/06 1:15	
Chrysene	ND	20000	96	µg/Kg-dry	10	01/28/06 1:15	
Di-n-butyl phthalate	ND	20000	170	µg/Kg-dry	10	01/28/06 1:15	
Di-n-octyl phthalate	ND	20000	96	µg/Kg-dry	10	01/28/06 1:15	
Dibenz[a,h]anthracene	ND	20000	82	µg/Kg-dry	10	01/28/06 1:15	
Dibenzofuran	ND	20000	89	µg/Kg-dry	10	01/28/06 1:15	
Diethyl phthalate	ND	20000	150	µg/Kg-dry	10	01/28/06 1:15	
Dimethyl phthalate	ND	20000	100	µg/Kg-dry	10	01/28/06 1:15	
Fluoranthene	ND	20000	94	µg/Kg-dry	10	01/28/06 1:15	
Fluorene	ND	20000	100	µg/Kg-dry	10	01/28/06 1:15	
Hexachlorobenzene	ND	20000	160	µg/Kg-dry	10	01/28/06 1:15	
Hexachlorobutadiene	ND	20000	220	µg/Kg-dry	10	01/28/06 1:15	
Hexachlorocyclopentadiene	ND	20000	790	µg/Kg-dry	10	01/28/06 1:15	
Hexachloroethane	ND	20000	220	µg/Kg-dry	10	01/28/06 1:15	
Indeno[1,2,3-cd]pyrene	ND	20000	82	µg/Kg-dry	10	01/28/06 1:15	
Isophorone	ND	20000	98	µg/Kg-dry	10	01/28/06 1:15	
N-Nitroso-di-n-propylamine	ND	20000	170	µg/Kg-dry	10	01/28/06 1:15	
N-Nitrosodiphenylamine	ND	20000	96	µg/Kg-dry	10	01/28/06 1:15	
Naphthalene	ND	20000	81	µg/Kg-dry	10	01/28/06 1:15	
Nitrobenzene	ND	20000	120	µg/Kg-dry	10	01/28/06 1:15	
Pentachlorophenol	ND	100000	1700	µg/Kg-dry	10	01/28/06 1:15	
Phenanthrene	ND	20000	73	µg/Kg-dry	10	01/28/08 1:15	
Phenol	ND	20000	83	µg/Kg-dry	10	01/28/06 1:15	
Pyrene	ND	20000	98	µg/Kg-dry	10	01/28/06 1:15	
Surr: 2,4,6-Tribromophenol	99.4	20-143	0	%REC	10	01/28/06 1:15	
Surr: 2-Fluorobiphenyl	93.0	46-130	0	%REC	10	01/28/06 1:15	
Surr: 2-Fluorophenol	60.1	22-130	0	%REC	10	01/28/06 1:15	
Surr: Nitrobenzene-d5	72.5	39-130	0	%REC	10	01/28/06 1:15	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 18.6

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-019B

Client Sample ID: BH-34-S

Collection Date: 01/11/06 14:30

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3937.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr. Phenol-d5	58.7	33-130	0	%REC	10		01/28/06 1:15
Surr. Terphenyl-d14	123	36-146	0	%REC	10		01/28/06 1:15

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:37:14 A

Sample Size: 30 g

%Moisture: 18.6

TestCode: 8270S TAGML

Lab ID: 0601049-019B

Client Sample ID: BH-34-S

Collection Date: 01/11/06 14:30

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3962.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		20000	160	µg/Kg-dry	10	01/31/06 4:03
1,2-Dichlorobenzene	ND		20000	140	µg/Kg-dry	10	01/31/06 4:03
1,3-Dichlorobenzene	ND		20000	97	µg/Kg-dry	10	01/31/06 4:03
1,4-Dichlorobenzene	ND		20000	120	µg/Kg-dry	10	01/31/06 4:03
2,4,5-Trichlorophenol	ND		100000	2000	µg/Kg-dry	10	01/31/06 4:03
2,4,6-Trichlorophenol	ND		20000	190	µg/Kg-dry	10	01/31/06 4:03
2,4-Dichlorophenol	ND		20000	190	µg/Kg-dry	10	01/31/06 4:03
2,4-Dimethylphenol	ND		20000	170	µg/Kg-dry	10	01/31/06 4:03
2,4-Dinitrophenol	ND		100000	3700	µg/Kg-dry	10	01/31/06 4:03
2,4-Dinitrotoluene	ND		20000	170	µg/Kg-dry	10	01/31/06 4:03
2,6-Dinitrotoluene	ND		20000	200	µg/Kg-dry	10	01/31/06 4:03
2-Chloronaphthalene	ND		20000	97	µg/Kg-dry	10	01/31/06 4:03
2-Chlorophenol	ND		20000	130	µg/Kg-dry	10	01/31/06 4:03
2-Methylnaphthalene	ND		20000	98	µg/Kg-dry	10	01/31/06 4:03
2-Methylphenol	ND		20000	130	µg/Kg-dry	10	01/31/06 4:03
2-Nitroaniline	ND		100000	210	µg/Kg-dry	10	01/31/06 4:03
2-Nitrophenol	ND		20000	230	µg/Kg-dry	10	01/31/06 4:03
3,3'-Dichlorobenzidine	ND		41000	500	µg/Kg-dry	10	01/31/06 4:03
3-Nitroaniline	ND		100000	690	µg/Kg-dry	10	01/31/06 4:03
4,6-Dinitro-2-methylphenol	ND		100000	1700	µg/Kg-dry	10	01/31/06 4:03
4-Bromophenyl phenyl ether	ND		20000	140	µg/Kg-dry	10	01/31/06 4:03
4-Chloro-3-methylphenol	ND		20000	160	µg/Kg-dry	10	01/31/06 4:03
4-Chloroaniline	ND		20000	250	µg/Kg-dry	10	01/31/06 4:03
4-Chlorophenyl phenyl ether	ND		20000	160	µg/Kg-dry	10	01/31/06 4:03
4-Methylphenol	ND		20000	120	µg/Kg-dry	10	01/31/06 4:03
4-Nitroaniline	ND		100000	340	µg/Kg-dry	10	01/31/06 4:03
4-Nitrophenol	ND		100000	810	µg/Kg-dry	10	01/31/06 4:03
Acenaphthene	ND		20000	72	µg/Kg-dry	10	01/31/06 4:03
Acenaphthylene	ND		20000	91	µg/Kg-dry	10	01/31/06 4:03
Aniline	ND		20000	250	µg/Kg-dry	10	01/31/06 4:03
Anthracene	ND		20000	83	µg/Kg-dry	10	01/31/06 4:03
Benzo[a]anthracene	ND		20000	87	µg/Kg-dry	10	01/31/06 4:03
Benzo[a]pyrene	ND		20000	100	µg/Kg-dry	10	01/31/06 4:03
Benzo[b]fluoranthene	ND		20000	150	µg/Kg-dry	10	01/31/06 4:03
Benzo[g,h,i]perylene	ND		20000	100	µg/Kg-dry	10	01/31/06 4:03

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander

200



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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 18.6

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-019B

Client Sample ID: BH-34-S

Collection Date: 01/11/06 14:30

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-RA-N3962.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND		20000	130	µg/Kg-dry	10	01/31/06 4:03
Benzoic acid	ND		100000	6500	µg/Kg-dry	10	01/31/06 4:03
Benzyl alcohol	ND		20000	230	µg/Kg-dry	10	01/31/06 4:03
bis(2-Chloroethoxy)methane	ND		20000	78	µg/Kg-dry	10	01/31/06 4:03
bis(2-chloroethyl)ether	ND		20000	120	µg/Kg-dry	10	01/31/06 4:03
bis(2-chloroisopropyl)ether	ND		20000	120	µg/Kg-dry	10	01/31/06 4:03
bis(2-Ethylhexyl)phthalate	ND		20000	670	µg/Kg-dry	10	01/31/06 4:03
Butyl benzyl phthalate	ND		20000	130	µg/Kg-dry	10	01/31/06 4:03
Chrysene	ND		20000	96	µg/Kg-dry	10	01/31/06 4:03
Di-n-butyl phthalate	ND		20000	170	µg/Kg-dry	10	01/31/06 4:03
Di-n-octyl phthalate	ND		20000	96	µg/Kg-dry	10	01/31/06 4:03
Dibenz[a,h]anthracene	ND		20000	82	µg/Kg-dry	10	01/31/06 4:03
Dibenzofuran	ND		20000	89	µg/Kg-dry	10	01/31/06 4:03
Diethyl phthalate	ND		20000	150	µg/Kg-dry	10	01/31/06 4:03
Dimethyl phthalate	ND		20000	100	µg/Kg-dry	10	01/31/06 4:03
Fluoranthene	ND		20000	94	µg/Kg-dry	10	01/31/06 4:03
Fluorene	ND		20000	100	µg/Kg-dry	10	01/31/06 4:03
Hexachlorobenzene	ND		20000	160	µg/Kg-dry	10	01/31/06 4:03
Hexachlorobutadiene	ND		20000	220	µg/Kg-dry	10	01/31/06 4:03
Hexachlorocyclopentadiene	ND		20000	790	µg/Kg-dry	10	01/31/06 4:03
Hexachloroethane	ND		20000	220	µg/Kg-dry	10	01/31/06 4:03
Indeno[1,2,3-cd]pyrene	ND		20000	82	µg/Kg-dry	10	01/31/06 4:03
Isophorone	ND		20000	98	µg/Kg-dry	10	01/31/06 4:03
N-Nitroso-di-n-propylamine	ND		20000	170	µg/Kg-dry	10	01/31/06 4:03
N-Nitrosodiphenylamine	ND		20000	96	µg/Kg-dry	10	01/31/06 4:03
Naphthalene	ND		20000	61	µg/Kg-dry	10	01/31/06 4:03
Nitrobenzene	ND		20000	120	µg/Kg-dry	10	01/31/06 4:03
Pentachlorophenol	ND		100000	1700	µg/Kg-dry	10	01/31/06 4:03
Phenanthrene	ND		20000	73	µg/Kg-dry	10	01/31/06 4:03
Phenol	ND		20000	83	µg/Kg-dry	10	01/31/06 4:03
Pyrene	ND		20000	98	µg/Kg-dry	10	01/31/06 4:03
Surr: 2,4,6-Tribromophenol	77.4		20-143	0	%REC	10	01/31/06 4:03
Surr: 2-Fluorobiphenyl	86.5		46-130	0	%REC	10	01/31/06 4:03
Surr: 2-Fluorophenol	57.7		22-130	0	%REC	10	01/31/06 4:03
Surr: Nitrobenzene-d5	68.5		39-130	0	%REC	10	01/31/06 4:03

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	Lab ID:	0601049-019B
Project:	Geneva Foundry	Client Sample ID:	BH-34-S
W Order:	0601049	Collection Date:	01/11/06 14:30
Matrix:	SOIL	Date Received:	01/12/06 7:50
Inst. ID:	MS05 26	Sample Size:	30 g
ColumnID:	ZB-5	%Moisture:	18.6
Revision:	01/31/06 10:37:14 A	TestCode:	8270S TAGML
		PrepDate:	01/13/06 8:14 A
		BatchNo:	2374/R4381
		FileID:	1-RA-N3962.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	54.7	33-130	0	%REC	10		01/31/06 4:03
Surr: Terphenyl-d14	116	36-146	0	%REC	10		01/31/06 4:03

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:20:40 A

Sample Size: 30 g

%Moisture: 8.0

TestCode: 8270S TAGML

Lab ID: 0601049-020B

Client Sample ID: BH-34-D

Collection Date: 01/11/06 14:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: I-SAMP-N3935.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		360	2.8	µg/Kg-dry	1	01/28/06
1,2-Dichlorobenzene	ND		360	2.5	µg/Kg-dry	1	01/28/06
1,3-Dichlorobenzene	ND		360	1.7	µg/Kg-dry	1	01/28/06
1,4-Dichlorobenzene	ND		360	2.1	µg/Kg-dry	1	01/28/06
2,4,5-Trichlorophenol	ND		1800	36	µg/Kg-dry	1	01/28/06
2,4,6-Trichlorophenol	ND		360	3.3	µg/Kg-dry	1	01/28/06
2,4-Dichlorophenol	ND		360	3.3	µg/Kg-dry	1	01/28/06
2,4-Dimethylphenol	ND		360	3.1	µg/Kg-dry	1	01/28/06
2,4-Dinitrophenol	ND		1800	66	µg/Kg-dry	1	01/28/06
2,4-Dinitrotoluene	ND		360	3.0	µg/Kg-dry	1	01/28/06
2,6-Dinitrotoluene	ND		360	3.5	µg/Kg-dry	1	01/28/06
2-Chloronaphthalene	ND		360	1.7	µg/Kg-dry	1	01/28/06
2-Chlorophenol	ND		360	2.4	µg/Kg-dry	1	01/28/06
2-Methylnaphthalene	760		360	1.7	µg/Kg-dry	1	01/28/06
2-Methylphenol	590		360	2.2	µg/Kg-dry	1	01/28/06
2-Nitroaniline	ND		1800	3.8	µg/Kg-dry	1	01/28/06
2-Nitrophenol	ND		360	4.1	µg/Kg-dry	1	01/28/06
3,3'-Dichlorobenzidine	ND		720	8.9	µg/Kg-dry	1	01/28/06
3-Nitroaniline	ND		1800	12	µg/Kg-dry	1	01/28/06
4,6-Dinitro-2-methylphenol	ND		1800	29	µg/Kg-dry	1	01/28/06
4-Bromophenyl phenyl ether	ND		360	2.5	µg/Kg-dry	1	01/28/06
4-Chloro-3-methylphenol	ND		360	2.9	µg/Kg-dry	1	01/28/06
4-Chloroaniline	ND		360	4.4	µg/Kg-dry	1	01/28/06
4-Chlorophenyl phenyl ether	ND		360	2.7	µg/Kg-dry	1	01/28/06
4-Methylphenol	ND		360	2.1	µg/Kg-dry	1	01/28/06
4-Nitroaniline	ND		1800	6.0	µg/Kg-dry	1	01/28/06
4-Nitrophenol	ND		1800	14	µg/Kg-dry	1	01/28/06
Acenaphthene	ND		360	1.3	µg/Kg-dry	1	01/28/06
Acenaphthylene	ND		360	1.6	µg/Kg-dry	1	01/28/06
Aniline	ND		360	4.5	µg/Kg-dry	1	01/28/06
Anthracene	ND		360	1.5	µg/Kg-dry	1	01/28/06
Benzo[a]anthracene	45 J		360	1.5	µg/Kg-dry	1	01/28/06
Benzo[a]pyrene	62 J		360	1.8	µg/Kg-dry	1	01/28/06
Benzo[b]fluoranthene	94 J		360	2.6	µg/Kg-dry	1	01/28/06
Benzo[g,h,i]perylene	65 J		360	1.8	µg/Kg-dry	1	01/28/06

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 8.0

Revision: 01/31/06 10:20:40 A

TestCode: 8270S TAGML

Lab ID: 0601049-020B

Client Sample ID: BH-34-D

Collection Date: 01/11/06 14:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3935.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND		360	2.3	µg/Kg-dry	1	01/28/06
Benzoic acid	ND		1800	110	µg/Kg-dry	1	01/28/06
Benzyl alcohol	ND		360	4.0	µg/Kg-dry	1	01/28/06
bis(2-Chloroethoxy)methane	ND		360	1.4	µg/Kg-dry	1	01/28/06
bis(2-chloroethyl)ether	ND		360	2.1	µg/Kg-dry	1	01/28/06
bis(2-chloroisopropyl)ether	ND		360	2.1	µg/Kg-dry	1	01/28/06
bis(2-Ethylhexyl)phthalate	190 J		360	12	µg/Kg-dry	1	01/28/06
Butyl benzyl phthalate	ND		360	2.4	µg/Kg-dry	1	01/28/06
Chrysene	75 J		360	1.7	µg/Kg-dry	1	01/28/06
Di-n-butyl phthalate	370		360	3.0	µg/Kg-dry	1	01/28/06
Di-n-octyl phthalate	ND		360	1.7	µg/Kg-dry	1	01/28/06
Dibenz[a,h]anthracene	ND		360	1.4	µg/Kg-dry	1	01/28/06
Dibenzofuran	73 J		360	1.6	µg/Kg-dry	1	01/28/06
Diethyl phthalate	ND		360	2.6	µg/Kg-dry	1	01/28/06
Dimethyl phthalate	ND		360	1.8	µg/Kg-dry	1	01/28/06
Fluoranthene	83 J		360	1.7	µg/Kg-dry	1	01/28/06
Fluorene	ND		360	1.8	µg/Kg-dry	1	01/28/06
Hexachlorobenzene	ND		360	2.9	µg/Kg-dry	1	01/28/06
Hexachlorobutadiene	ND		360	3.8	µg/Kg-dry	1	01/28/06
Hexachlorocyclopentadiene	ND		360	14	µg/Kg-dry	1	01/28/06
Hexachloroethane	ND		360	3.9	µg/Kg-dry	1	01/28/06
Indeno[1,2,3-cd]pyrene	ND		360	1.4	µg/Kg-dry	1	01/28/06
Isophorone	ND		360	1.7	µg/Kg-dry	1	01/28/06
N-Nitroso-di-n-propylamine	ND		360	3.1	µg/Kg-dry	1	01/28/06
N-Nitrosodiphenylamine	ND		360	1.7	µg/Kg-dry	1	01/28/06
Naphthalene	2700		360	1.1	µg/Kg-dry	1	01/28/06
Nitrobenzene	ND		360	2.2	µg/Kg-dry	1	01/28/06
Pentachlorophenol	ND		1800	30	µg/Kg-dry	1	01/28/06
Phenanthrene	480		360	1.3	µg/Kg-dry	1	01/28/06
Phenol	61000 E		360	1.5	µg/Kg-dry	1	01/28/06
Pyrene	140 J		380	1.7	µg/Kg-dry	1	01/28/06
Surr: 2,4,6-Tribromophenol	114		20-143	0	%REC	1	01/28/06
Surr: 2-Fluorobiphenyl	89.0		46-130	0	%REC	1	01/28/06
Surr: 2-Fluorophenol	63.8		22-130	0	%REC	1	01/28/06
Surr: Nitrobenzene-d5	72.6		39-130	0	%REC	1	01/28/06

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range.

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:20:40 A

Sample Size: 30 g

%Moisture: 8.0

TestCode: 8270S TAGML

Lab ID: 0601049-020B

Client Sample ID: BH-34-D

Collection Date: 01/11/06 14:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4380

FileID: 1-SAMP-N3935.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	71.6	33-130	0	%REC	1		01/28/06
Surr: Terphenyl-d14	119	36-146	0	%REC	1		01/28/06

Qualifiers:	B Analyte detected in the associated Method Blank	E Value exceeds the instrument calibration range
	H Holding times for preparation or analysis exceeded	J Analyte detected below the PQL
	ND Not Detected at the Practical Quantitation Limit (PQL)	P Prim./Conf. column %D or RPD exceeds limit
	S Spike Recovery outside accepted recovery limits	

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 8.0

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601049-020B

Client Sample ID: BH-34-D

Collection Date: 01/11/06 14:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-DL-N3948.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		9000	71	µg/Kg-dry	25	01/30/06 19:17
1,2-Dichlorobenzene	ND		9000	64	µg/Kg-dry	25	01/30/06 19:17
1,3-Dichlorobenzene	ND		9000	43	µg/Kg-dry	25	01/30/06 19:17
1,4-Dichlorobenzene	ND		9000	51	µg/Kg-dry	25	01/30/06 19:17
2,4,5-Trichlorophenol	ND		45000	890	µg/Kg-dry	25	01/30/06 19:17
2,4,6-Trichlorophenol	ND		9000	84	µg/Kg-dry	25	01/30/06 19:17
2,4-Dichlorophenol	ND		9000	83	µg/Kg-dry	25	01/30/06 19:17
2,4-Dimethylphenol	ND		9000	77	µg/Kg-dry	25	01/30/06 19:17
2,4-Dinitrophenol	ND		45000	1600	µg/Kg-dry	25	01/30/06 19:17
2,4-Dinitrotoluene	ND		9000	75	µg/Kg-dry	25	01/30/06 19:17
2,6-Dinitrotoluene	ND		9000	87	µg/Kg-dry	25	01/30/06 19:17
2-Chloronaphthalene	ND		9000	43	µg/Kg-dry	25	01/30/06 19:17
2-Chlorophenol	ND		9000	59	µg/Kg-dry	25	01/30/06 19:17
2-Methylnaphthalene	ND		9000	43	µg/Kg-dry	25	01/30/06 19:17
2-Methylphenol	ND		9000	55	µg/Kg-dry	25	01/30/06 19:17
2-Nitroaniline	ND		45000	95	µg/Kg-dry	25	01/30/06 19:17
2-Nitrophenol	ND		9000	100	µg/Kg-dry	25	01/30/06 19:17
3,3'-Dichlorobenzidine	ND		18000	220	µg/Kg-dry	25	01/30/06 19:17
3-Nitroaniline	ND		45000	310	µg/Kg-dry	25	01/30/06 19:17
4,6-Dinitro-2-methylphenol	ND		45000	730	µg/Kg-dry	25	01/30/06 19:17
4-Bromophenyl phenyl ether	ND		9000	63	µg/Kg-dry	25	01/30/06 19:17
4-Chloro-3-methylphenol	ND		9000	71	µg/Kg-dry	25	01/30/06 19:17
4-Chloroaniline	ND		9000	110	µg/Kg-dry	25	01/30/06 19:17
4-Chlorophenyl phenyl ether	ND		9000	69	µg/Kg-dry	25	01/30/06 19:17
4-Methylphenol	ND		9000	52	µg/Kg-dry	25	01/30/06 19:17
4-Nitroaniline	ND		45000	150	µg/Kg-dry	25	01/30/06 19:17
4-Nitrophenol	ND		45000	360	µg/Kg-dry	25	01/30/06 19:17
Acenaphthene	ND		9000	32	µg/Kg-dry	25	01/30/06 19:17
Acenaphthylene	ND		9000	40	µg/Kg-dry	25	01/30/06 19:17
Aniline	ND		9000	110	µg/Kg-dry	25	01/30/06 19:17
Anthracene	ND		9000	37	µg/Kg-dry	25	01/30/06 19:17
Benzo[a]anthracene	ND		9000	38	µg/Kg-dry	25	01/30/06 19:17
Benzo[a]pyrene	ND		9000	45	µg/Kg-dry	25	01/30/06 19:17
Benzo[b]fluoranthene	ND		9000	65	µg/Kg-dry	25	01/30/06 19:17
Benzo[g,h,i]perylene	ND		9000	46	µg/Kg-dry	25	01/30/06 19:17

Qualifiers:

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:37:14 A

Sample Size: 30 g

%Moisture: 8.0

TestCode: 8270S TAGML

Lab ID: 0601049-020B

Client Sample ID: BH-34-D

Collection Date: 01/11/06 14:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-DL-N3948.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND	9000	58	µg/Kg-dry	25	01/30/06 19:17	
Benzoic acid	ND	45000	2900	µg/Kg-dry	25	01/30/06 19:17	
Benzyl alcohol	ND	9000	100	µg/Kg-dry	25	01/30/06 19:17	
bis(2-Chloroethoxy)methane	ND	9000	35	µg/Kg-dry	25	01/30/06 19:17	
bis(2-chloroethyl)ether	ND	9000	51	µg/Kg-dry	25	01/30/06 19:17	
bis(2-chloroisopropyl)ether	ND	9000	51	µg/Kg-dry	25	01/30/06 19:17	
bis(2-Ethylhexyl)phthalate	ND	9000	300	µg/Kg-dry	25	01/30/06 19:17	
Butyl benzyl phthalate	ND	9000	59	µg/Kg-dry	25	01/30/06 19:17	
Chrysene	ND	9000	43	µg/Kg-dry	25	01/30/06 19:17	
Di-n-butyl phthalate	ND	9000	75	µg/Kg-dry	25	01/30/06 19:17	
Di-n-octyl phthalate	ND	9000	43	µg/Kg-dry	25	01/30/06 19:17	
Dibenz[a,h]anthracene	ND	9000	36	µg/Kg-dry	25	01/30/06 19:17	
Dibenzofuran	ND	9000	39	µg/Kg-dry	25	01/30/06 19:17	
Diethyl phthalate	ND	9000	65	µg/Kg-dry	25	01/30/06 19:17	
Dimethyl phthalate	ND	9000	46	µg/Kg-dry	25	01/30/06 19:17	
Fluoranthene	ND	9000	42	µg/Kg-dry	25	01/30/06 19:17	
Fluorene	ND	9000	45	µg/Kg-dry	25	01/30/06 19:17	
Hexachlorobenzene	ND	9000	71	µg/Kg-dry	25	01/30/06 19:17	
Hexachlorobutadiene	ND	9000	96	µg/Kg-dry	25	01/30/06 19:17	
Hexachlorocyclopentadiene	ND	9000	350	µg/Kg-dry	25	01/30/06 19:17	
Hexachloroethane	ND	9000	97	µg/Kg-dry	25	01/30/06 19:17	
Indeno[1,2,3-cd]pyrene	ND	9000	36	µg/Kg-dry	25	01/30/06 19:17	
Isophorone	ND	9000	43	µg/Kg-dry	25	01/30/06 19:17	
N-Nitroso-di-n-propylamine	ND	9000	77	µg/Kg-dry	25	01/30/06 19:17	
N-Nitrosodiphenylamine	ND	9000	43	µg/Kg-dry	25	01/30/06 19:17	
Naphthalene	2400 J	9000	27	µg/Kg-dry	25	01/30/06 19:17	
Nitrobenzene	ND	9000	54	µg/Kg-dry	25	01/30/06 19:17	
Pentachlorophenol	ND	45000	750	µg/Kg-dry	25	01/30/06 19:17	
Phenanthrene	ND	9000	32	µg/Kg-dry	25	01/30/06 19:17	
Phenol	47000	9000	37	µg/Kg-dry	25	01/30/06 19:17	
Pyrene	ND	9000	43	µg/Kg-dry	25	01/30/06 19:17	
Surr. 2,4,6-Tribromophenol	97.8	20-143	0	%REC	25	01/30/06 19:17	
Surr. 2-Fluorobiphenyl	76.3	46-130	0	%REC	25	01/30/06 19:17	
Surr. 2-Fluorophenol	56.6	22-130	0	%REC	25	01/30/06 19:17	
Surr. Nitrobenzene-d5	67.0	39-130	0	%REC	25	01/30/06 19:17	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:37:14 A

Sample Size: 30 g

%Moisture: 8.0

TestCode: 8270S TAGML

Lab ID: 0601049-020B

Client Sample ID: BH-34-D

Collection Date: 01/11/06 14:40

Date Received: 01/12/06 7:50

PrepDate: 01/13/06 8:14 A

BatchNo: 2374/R4381

FileID: 1-DL-N3948.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	56.9	33-130	0	%REC	25		01/30/06 19:17
Surr: Terphenyl-d14	72.0	36-146	0	%REC	25		01/30/06 19:17

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:37

Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 16.0

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601050-001B

Client Sample ID: BH-37

Collection Date: 01/11/06 8:30

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3859.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		390	3.1	µg/Kg-dry	1	01/25/06 4:00
1,2-Dichlorobenzene	ND		390	2.8	µg/Kg-dry	1	01/25/06 4:00
1,3-Dichlorobenzene	ND		390	1.9	µg/Kg-dry	1	01/25/06 4:00
1,4-Dichlorobenzene	ND		390	2.3	µg/Kg-dry	1	01/25/06 4:00
2,4,5-Trichlorophenol	ND		2000	39	µg/Kg-dry	1	01/25/06 4:00
2,4,6-Trichlorophenol	ND		390	3.7	µg/Kg-dry	1	01/25/06 4:00
2,4-Dichlorophenol	ND		390	3.6	µg/Kg-dry	1	01/25/06 4:00
2,4-Dimethylphenol	ND		390	3.4	µg/Kg-dry	1	01/25/06 4:00
2,4-Dinitrophenol	ND		2000	72	µg/Kg-dry	1	01/25/06 4:00
2,4-Dinitrotoluene	ND		390	3.3	µg/Kg-dry	1	01/25/06 4:00
2,6-Dinitrotoluene	ND		390	3.8	µg/Kg-dry	1	01/25/06 4:00
2-Chloronaphthalene	ND		390	1.9	µg/Kg-dry	1	01/25/06 4:00
2-Chlorophenol	ND		390	2.6	µg/Kg-dry	1	01/25/06 4:00
2-Methylnaphthalene	400		390	1.9	µg/Kg-dry	1	01/25/06 4:00
2-Methylphenol	ND		390	2.4	µg/Kg-dry	1	01/25/06 4:00
2-Nitroaniline	ND		2000	4.2	µg/Kg-dry	1	01/25/06 4:00
2-Nitrophenol	ND		390	4.5	µg/Kg-dry	1	01/25/06 4:00
3,3'-Dichlorobenzidine	ND		790	9.7	µg/Kg-dry	1	01/25/06 4:00
3-Nitroaniline	ND		2000	13	µg/Kg-dry	1	01/25/06 4:00
4,6-Dinitro-2-methylphenol	ND		2000	32	µg/Kg-dry	1	01/25/06 4:00
4-Bromophenyl phenyl ether	ND		390	2.8	µg/Kg-dry	1	01/25/06 4:00
4-Chloro-3-methylphenol	120 J		390	3.1	µg/Kg-dry	1	01/25/06 4:00
4-Chloroaniline	ND		390	4.8	µg/Kg-dry	1	01/25/06 4:00
4-Chlorophenyl phenyl ether	ND		390	3.0	µg/Kg-dry	1	01/25/06 4:00
4-Methylphenol	ND		390	2.3	µg/Kg-dry	1	01/25/06 4:00
4-Nitroaniline	ND		2000	6.6	µg/Kg-dry	1	01/25/06 4:00
4-Nitrophenol	ND		2000	16	µg/Kg-dry	1	01/25/06 4:00
Acenaphthene	ND		390	1.4	µg/Kg-dry	1	01/25/06 4:00
Acenaphthylene	ND		390	1.8	µg/Kg-dry	1	01/25/06 4:00
Aniline	ND		390	4.9	µg/Kg-dry	1	01/25/06 4:00
Anthracene	ND		390	1.6	µg/Kg-dry	1	01/25/06 4:00
Benzo[a]anthracene	130 J		390	1.7	µg/Kg-dry	1	01/25/06 4:00
Benzo[a]pyrene	150 J		390	2.0	µg/Kg-dry	1	01/25/06 4:00
Benzo[b]fluoranthene	280 J		390	2.9	µg/Kg-dry	1	01/25/06 4:00
Benzo[g,h,i]perylene	75 J		390	2.0	µg/Kg-dry	1	01/25/06 4:00

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:38

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 16.0

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601050-001B

Client Sample ID: BH-37

Collection Date: 01/11/06 8:30

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3859.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	93	J	390	2.5	µg/Kg-dry	1	01/25/06 4:00
Benzoic acid	ND		2000	130	µg/Kg-dry	1	01/25/06 4:00
Benzyl alcohol	ND		390	4.4	µg/Kg-dry	1	01/25/06 4:00
bis(2-Chloroethoxy)methane	ND		390	1.5	µg/Kg-dry	1	01/25/06 4:00
bis(2-chloroethyl)ether	ND		390	2.3	µg/Kg-dry	1	01/25/06 4:00
bis(2-chloroisopropyl)ether	ND		390	2.3	µg/Kg-dry	1	01/25/06 4:00
bis(2-Ethylhexyl)phthalate	160	J	390	13	µg/Kg-dry	1	01/25/06 4:00
Butyl benzyl phthalate	ND		390	2.6	µg/Kg-dry	1	01/25/06 4:00
Chrysene	210	J	390	1.9	µg/Kg-dry	1	01/25/06 4:00
Di-n-butyl phthalate	280	J	390	3.3	µg/Kg-dry	1	01/25/06 4:00
Di-n-octyl phthalate	ND		390	1.9	µg/Kg-dry	1	01/25/06 4:00
Dibenz[a,h]anthracene	ND		390	1.6	µg/Kg-dry	1	01/25/06 4:00
Dibenzofuran	48	J	390	1.7	µg/Kg-dry	1	01/25/06 4:00
Diethyl phthalate	ND		390	2.8	µg/Kg-dry	1	01/25/06 4:00
Dimethyl phthalate	ND		390	2.0	µg/Kg-dry	1	01/25/06 4:00
Fluoranthene	320	J	390	1.8	µg/Kg-dry	1	01/25/06 4:00
Fluorene	ND		390	2.0	µg/Kg-dry	1	01/25/06 4:00
Hexachlorobenzene	ND		390	3.1	µg/Kg-dry	1	01/25/06 4:00
Hexachlorobutadiene	ND		390	4.2	µg/Kg-dry	1	01/25/06 4:00
Hexachlorocyclopentadiene	ND		390	15	µg/Kg-dry	1	01/25/06 4:00
Hexachloroethane	ND		390	4.3	µg/Kg-dry	1	01/25/06 4:00
Indeno[1,2,3-cd]pyrene	50	J	390	1.6	µg/Kg-dry	1	01/25/06 4:00
Isophorone	ND		390	1.9	µg/Kg-dry	1	01/25/06 4:00
N-Nitroso-di-n-propylamine	ND		390	3.4	µg/Kg-dry	1	01/25/06 4:00
N-Nitrosodiphenylamine	ND		390	1.9	µg/Kg-dry	1	01/25/06 4:00
Naphthalene	1500		390	1.2	µg/Kg-dry	1	01/25/06 4:00
Nitrobenzene	ND		390	2.4	µg/Kg-dry	1	01/25/06 4:00
Pentachlorophenol	ND		2000	33	µg/Kg-dry	1	01/25/06 4:00
Phenanthrene	310	J	390	1.4	µg/Kg-dry	1	01/25/06 4:00
Phenol	860		390	1.6	µg/Kg-dry	1	01/25/06 4:00
Pyrene	280	J	390	1.9	µg/Kg-dry	1	01/25/06 4:00
Surr: 2,4,6-Tribromophenol	94.0		20-143	0	%REC	1	01/25/06 4:00
Surr: 2-Fluorobiphenyl	79.3		46-130	0	%REC	1	01/25/06 4:00
Surr: 2-Fluorophenol	69.8		22-130	0	%REC	1	01/25/06 4:00
Surr: Nitrobenzene-d5	72.3		39-130	0	%REC	1	01/25/06 4:00

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:38

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:15:49 A

Sample Size: 30 g

%Moisture: 16.0

TestCode: 8270S TAGML

Lab ID: 0601050-001B

Client Sample ID: BH-37

Collection Date: 01/11/06 8:30

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3859.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	69.7		33-130	0	%REC	1	01/25/06 4:00
Surr: Terphenyl-d14	70.5		36-146	0	%REC	1	01/25/06 4:00

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:38

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:15:49 A

Sample Size: 30 g

%Moisture: 18.3

TestCode: 8270S TAGML

Lab ID: 0601050-002B

Client Sample ID: BH-35-S

Collection Date: 01/11/06 8:55

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3862.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		400	3.2	µg/Kg-dry	1	01/25/06 5:52
1,2-Dichlorobenzene	ND		400	2.9	µg/Kg-dry	1	01/25/06 5:52
1,3-Dichlorobenzene	ND		400	1.9	µg/Kg-dry	1	01/25/06 5:52
1,4-Dichlorobenzene	ND		400	2.3	µg/Kg-dry	1	01/25/06 5:52
2,4,5-Trichlorophenol	ND		2000	40	µg/Kg-dry	1	01/25/06 5:52
2,4,6-Trichlorophenol	ND		400	3.8	µg/Kg-dry	1	01/25/06 5:52
2,4-Dichlorophenol	ND		400	3.7	µg/Kg-dry	1	01/25/06 5:52
2,4-Dimethylphenol	ND		400	3.5	µg/Kg-dry	1	01/25/06 5:52
2,4-Dinitrophenol	ND		2000	74	µg/Kg-dry	1	01/25/06 5:52
2,4-Dinitrotoluene	ND		400	3.4	µg/Kg-dry	1	01/25/06 5:52
2,6-Dinitrotoluene	ND		400	3.9	µg/Kg-dry	1	01/25/06 5:52
2-Chloronaphthalene	ND		400	1.9	µg/Kg-dry	1	01/25/06 5:52
2-Chlorophenol	ND		400	2.7	µg/Kg-dry	1	01/25/06 5:52
2-Methylnaphthalene	ND		400	2.0	µg/Kg-dry	1	01/25/06 5:52
2-Methylphenol	ND		400	2.5	µg/Kg-dry	1	01/25/06 5:52
2-Nitroaniline	ND		2000	4.3	µg/Kg-dry	1	01/25/06 5:52
2-Nitrophenol	ND		400	4.6	µg/Kg-dry	1	01/25/06 5:52
3,3'-Dichlorobenzidine	ND		810	10	µg/Kg-dry	1	01/25/06 5:52
3-Nitroaniline	ND		2000	14	µg/Kg-dry	1	01/25/06 5:52
4,6-Dinitro-2-methylphenol	ND		2000	33	µg/Kg-dry	1	01/25/06 5:52
4-Bromophenyl phenyl ether	ND		400	2.8	µg/Kg-dry	1	01/25/06 5:52
4-Chloro-3-methylphenol	ND		400	3.2	µg/Kg-dry	1	01/25/06 5:52
4-Chloroaniline	ND		400	5.0	µg/Kg-dry	1	01/25/06 5:52
4-Chlorophenyl phenyl ether	ND		400	3.1	µg/Kg-dry	1	01/25/06 5:52
4-Methylphenol	ND		400	2.3	µg/Kg-dry	1	01/25/06 5:52
4-Nitroaniline	ND		2000	6.8	µg/Kg-dry	1	01/25/06 5:52
4-Nitrophenol	ND		2000	16	µg/Kg-dry	1	01/25/06 5:52
Acenaphthene	ND		400	1.4	µg/Kg-dry	1	01/25/06 5:52
Acenaphthylene	ND		400	1.8	µg/Kg-dry	1	01/25/06 5:52
Aniline	ND		400	5.0	µg/Kg-dry	1	01/25/06 5:52
Anthracene	ND		400	1.7	µg/Kg-dry	1	01/25/06 5:52
Benzo[a]anthracene	68 J		400	1.7	µg/Kg-dry	1	01/25/06 5:52
Benzo[a]pyrene	55 J		400	2.0	µg/Kg-dry	1	01/25/06 5:52
Benzo[b]fluoranthene	86 J		400	2.9	µg/Kg-dry	1	01/25/06 5:52
Benzo[g,h,i]perylene	ND		400	2.1	µg/Kg-dry	1	01/25/06 5:52

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:38

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 18.3

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601050-002B

Client Sample ID: BH-35-S

Collection Date: 01/11/06 8:55

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: I-SAMP-N3862.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND	400		2.6	µg/Kg-dry	1	01/25/06 5:52
Benzoic acid	ND	2000		130	µg/Kg-dry	1	01/25/06 5:52
Benzyl alcohol	ND	400		4.5	µg/Kg-dry	1	01/25/06 5:52
bis(2-Chloroethoxy)methane	ND	400		1.6	µg/Kg-dry	1	01/25/06 5:52
bis(2-chloroethyl)ether	ND	400		2.3	µg/Kg-dry	1	01/25/06 5:52
bis(2-chloroisopropyl)ether	ND	400		2.3	µg/Kg-dry	1	01/25/06 5:52
bis(2-Ethylhexyl)phthalate	ND	400		13	µg/Kg-dry	1	01/25/06 5:52
Butyl benzyl phthalate	ND	400		2.7	µg/Kg-dry	1	01/25/06 5:52
Chrysene	63 J	400		1.9	µg/Kg-dry	1	01/25/06 5:52
Di-n-butyl phthalate	ND	400		3.4	µg/Kg-dry	1	01/25/06 5:52
Di-n-octyl phthalate	ND	400		1.9	µg/Kg-dry	1	01/25/06 5:52
Dibenz[a,h]anthracene	ND	400		1.6	µg/Kg-dry	1	01/25/06 5:52
Dibenzofuran	ND	400		1.8	µg/Kg-dry	1	01/25/06 5:52
Diethyl phthalate	ND	400		2.9	µg/Kg-dry	1	01/25/06 5:52
Dimethyl phthalate	ND	400		2.1	µg/Kg-dry	1	01/25/06 5:52
Fluoranthene	130 J	400		1.9	µg/Kg-dry	1	01/25/06 5:52
Fluorene	ND	400		2.0	µg/Kg-dry	1	01/25/06 5:52
Hexachlorobenzene	ND	400		3.2	µg/Kg-dry	1	01/25/06 5:52
Hexachlorobutadiene	ND	400		4.3	µg/Kg-dry	1	01/25/06 5:52
Hexachlorocyclopentadiene	ND	400		16	µg/Kg-dry	1	01/25/06 5:52
Hexachloroethane	ND	400		4.4	µg/Kg-dry	1	01/25/06 5:52
Indeno[1,2,3-cd]pyrene	ND	400		1.6	µg/Kg-dry	1	01/25/06 5:52
Isophorone	ND	400		2.0	µg/Kg-dry	1	01/25/06 5:52
N-Nitroso-di-n-propylamine	ND	400		3.5	µg/Kg-dry	1	01/25/06 5:52
N-Nitrosodiphenylamine	ND	400		1.9	µg/Kg-dry	1	01/25/06 5:52
Naphthalene	ND	400		1.2	µg/Kg-dry	1	01/25/06 5:52
Nitrobenzene	ND	400		2.4	µg/Kg-dry	1	01/25/06 5:52
Pentachlorophenol	ND	2000		34	µg/Kg-dry	1	01/25/06 5:52
Phenanthrene	110 J	400		1.5	µg/Kg-dry	1	01/25/06 5:52
Phenol	ND	400		1.7	µg/Kg-dry	1	01/25/06 5:52
Pyrene	100 J	400		2.0	µg/Kg-dry	1	01/25/06 5:52
Surr: 2,4,6-Tribromophenol	96.1	20-143		0	%REC	1	01/25/06 5:52
Surr: 2-Fluorobiphenyl	81.0	46-130		0	%REC	1	01/25/06 5:52
Surr: 2-Fluorophenol	70.4	22-130		0	%REC	1	01/25/06 5:52
Surr: Nitrobenzene-d5	72.5	39-130		0	%REC	1	01/25/06 5:52

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:15:49 A

Sample Size: 30 g

%Moisture: 18.3

TestCode: 8270S TAGML

Lab ID: 0601050-002B

Client Sample ID: BH-35-S

Collection Date: 01/11/06 8:55

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3862.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	70.3	33-130	0	%REC	1		01/25/06 5:52
Surr: Terphenyl-d14	72.0	36-146	0	%REC	1		01/25/06 5:52

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:38

Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 20.9

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601050-003B

Client Sample ID: BH-35-D

Collection Date: 01/11/06 9:05

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3863.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		420	3.3	µg/Kg-dry	1	01/25/06 6:30
1,2-Dichlorobenzene	ND		420	3.0	µg/Kg-dry	1	01/25/06 6:30
1,3-Dichlorobenzene	ND		420	2.0	µg/Kg-dry	1	01/25/06 6:30
1,4-Dichlorobenzene	ND		420	2.4	µg/Kg-dry	1	01/25/06 6:30
2,4,5-Trichlorophenol	ND		2100	41	µg/Kg-dry	1	01/25/06 6:30
2,4,6-Trichlorophenol	ND		420	3.9	µg/Kg-dry	1	01/25/06 6:30
2,4-Dichlorophenol	ND		420	3.9	µg/Kg-dry	1	01/25/06 6:30
2,4-Dimethylphenol	ND		420	3.6	µg/Kg-dry	1	01/25/06 6:30
2,4-Dinitrophenol	ND		2100	76	µg/Kg-dry	1	01/25/06 6:30
2,4-Dinitrotoluene	ND		420	3.5	µg/Kg-dry	1	01/25/06 6:30
2,6-Dinitrotoluene	ND		420	4.0	µg/Kg-dry	1	01/25/06 6:30
2-Chloronaphthalene	ND		420	2.0	µg/Kg-dry	1	01/25/06 6:30
2-Chlorophenol	ND		420	2.7	µg/Kg-dry	1	01/25/06 6:30
2-Methylnaphthalene	ND		420	2.0	µg/Kg-dry	1	01/25/06 6:30
2-Methylphenol	ND		420	2.6	µg/Kg-dry	1	01/25/06 6:30
2-Nitroaniline	ND		2100	4.4	µg/Kg-dry	1	01/25/06 6:30
2-Nitrophenol	ND		420	4.8	µg/Kg-dry	1	01/25/06 6:30
3,3'-Dichlorobenzidine	ND		830	10	µg/Kg-dry	1	01/25/06 6:30
3-Nitroaniline	ND		2100	14	µg/Kg-dry	1	01/25/06 6:30
4,6-Dinitro-2-methylphenol	ND		2100	34	µg/Kg-dry	1	01/25/06 6:30
4-Bromophenyl phenyl ether	ND		420	2.9	µg/Kg-dry	1	01/25/06 6:30
4-Chloro-3-methylphenol	ND		420	3.3	µg/Kg-dry	1	01/25/06 6:30
4-Chloroaniline	ND		420	5.1	µg/Kg-dry	1	01/25/06 6:30
4-Chlorophenyl phenyl ether	ND		420	3.2	µg/Kg-dry	1	01/25/06 6:30
4-Methylphenol	ND		420	2.4	µg/Kg-dry	1	01/25/06 6:30
4-Nitroaniline	ND		2100	7.0	µg/Kg-dry	1	01/25/06 6:30
4-Nitrophenol	ND		2100	17	µg/Kg-dry	1	01/25/06 6:30
Acenaphthene	ND		420	1.5	µg/Kg-dry	1	01/25/06 6:30
Acenaphthylene	ND		420	1.9	µg/Kg-dry	1	01/25/06 6:30
Aniline	ND		420	5.2	µg/Kg-dry	1	01/25/06 6:30
Anthracene	ND		420	1.7	µg/Kg-dry	1	01/25/06 6:30
Benzo[a]anthracene	ND		420	1.8	µg/Kg-dry	1	01/25/06 6:30
Benzo[a]pyrene	ND		420	2.1	µg/Kg-dry	1	01/25/06 6:30
Benzo[b]fluoranthene	ND		420	3.0	µg/Kg-dry	1	01/25/06 6:30
Benzo[g,h,i]perylene	ND		420	2.1	µg/Kg-dry	1	01/25/06 6:30

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:38

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Analytical Results

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W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 20.9

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601050-003B

Client Sample ID: BH-35-D

Collection Date: 01/11/06 9:05

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3863.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND		420	2.7	µg/Kg-dry	1	01/25/06 6:30
Benzoic acid	ND		2100	130	µg/Kg-dry	1	01/25/06 6:30
Benzyl alcohol	ND		420	4.6	µg/Kg-dry	1	01/25/06 6:30
bis(2-Chloroethoxy)methane	ND		420	1.6	µg/Kg-dry	1	01/25/06 6:30
bis(2-chloroethyl)ether	ND		420	2.4	µg/Kg-dry	1	01/25/06 6:30
bis(2-chloroisopropyl)ether	ND		420	2.4	µg/Kg-dry	1	01/25/06 6:30
bis(2-Ethylhexyl)phthalate	69 J		420	14	µg/Kg-dry	1	01/25/06 6:30
Butyl benzyl phthalate	ND		420	2.7	µg/Kg-dry	1	01/25/06 6:30
Chrysene	ND		420	2.0	µg/Kg-dry	1	01/25/06 6:30
Di-n-butyl phthalate	ND		420	3.5	µg/Kg-dry	1	01/25/06 6:30
Di-n-octyl phthalate	ND		420	2.0	µg/Kg-dry	1	01/25/06 6:30
Dibenz[a,h]anthracene	ND		420	1.7	µg/Kg-dry	1	01/25/06 6:30
Dibenzofuran	ND		420	1.8	µg/Kg-dry	1	01/25/06 6:30
Diethyl phthalate	ND		420	3.0	µg/Kg-dry	1	01/25/06 6:30
Dimethyl phthalate	ND		420	2.2	µg/Kg-dry	1	01/25/06 6:30
Fluoranthene	ND		420	1.9	µg/Kg-dry	1	01/25/06 6:30
Fluorene	ND		420	2.1	µg/Kg-dry	1	01/25/06 6:30
Hexachlorobenzene	ND		420	3.3	µg/Kg-dry	1	01/25/06 6:30
Hexachlorobutadiene	ND		420	4.5	µg/Kg-dry	1	01/25/06 6:30
Hexachlorocyclopentadiene	ND		420	16	µg/Kg-dry	1	01/25/06 6:30
Hexachloroethane	ND		420	4.5	µg/Kg-dry	1	01/25/06 6:30
Indeno[1,2,3-cd]pyrene	ND		420	1.7	µg/Kg-dry	1	01/25/06 6:30
Isophorone	ND		420	2.0	µg/Kg-dry	1	01/25/06 6:30
N-Nitroso-di-n-propylamine	ND		420	3.6	µg/Kg-dry	1	01/25/06 6:30
N-Nitrosodiphenylamine	ND		420	2.0	µg/Kg-dry	1	01/25/06 6:30
Naphthalene	ND		420	1.3	µg/Kg-dry	1	01/25/06 6:30
Nitrobenzene	ND		420	2.5	µg/Kg-dry	1	01/25/06 6:30
Pentachlorophenol	ND		2100	35	µg/Kg-dry	1	01/25/06 6:30
Phenanthrene	ND		420	1.5	µg/Kg-dry	1	01/25/06 6:30
Phenol	ND		420	1.7	µg/Kg-dry	1	01/25/06 6:30
Pyrene	ND		420	2.0	µg/Kg-dry	1	01/25/06 6:30
Surr: 2,4,6-Tribromophenol	92.7		20-143	0	%REC	1	01/25/06 6:30
Surr: 2-Fluorobiphenyl	77.1		46-130	0	%REC	1	01/25/06 6:30
Surr: 2-Fluorophenol	66.6		22-130	0	%REC	1	01/25/06 6:30
Surr: Nitrobenzene-d5	70.5		39-130	0	%REC	1	01/25/06 6:30

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



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Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 20.9

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601050-003B

Client Sample ID: BH-35-D

Collection Date: 01/11/06 9:05

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3863.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	66.2		33-130	0	%REC	1	01/25/06 6:30
Surr: Terphenyl-d14	69.9		36-146	0	%REC	1	01/25/06 6:30

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

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Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 3.9

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601050-004B

Client Sample ID: BH-36-S

Collection Date: 01/10/06 14:20

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3864.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		1700	14	µg/Kg-dry	5	01/25/06 7:07
1,2-Dichlorobenzene	ND		1700	12	µg/Kg-dry	5	01/25/06 7:07
1,3-Dichlorobenzene	ND		1700	8.2	µg/Kg-dry	5	01/25/06 7:07
1,4-Dichlorobenzene	ND		1700	9.8	µg/Kg-dry	5	01/25/06 7:07
2,4,5-Trichlorophenol	ND		8700	170	µg/Kg-dry	5	01/25/06 7:07
2,4,6-Trichlorophenol	ND		1700	16	µg/Kg-dry	5	01/25/06 7:07
2,4-Dichlorophenol	ND		1700	16	µg/Kg-dry	5	01/25/06 7:07
2,4-Dimethylphenol	ND		1700	15	µg/Kg-dry	5	01/25/06 7:07
2,4-Dinitrophenol	ND		8700	310	µg/Kg-dry	5	01/25/06 7:07
2,4-Dinitrotoluene	ND		1700	14	µg/Kg-dry	5	01/25/06 7:07
2,6-Dinitrotoluene	ND		1700	17	µg/Kg-dry	5	01/25/06 7:07
2-Chloronaphthalene	ND		1700	8.2	µg/Kg-dry	5	01/25/06 7:07
2-Chlorophenol	ND		1700	11	µg/Kg-dry	5	01/25/06 7:07
2-Methylnaphthalene	ND		1700	8.3	µg/Kg-dry	5	01/25/06 7:07
2-Methylphenol	ND		1700	11	µg/Kg-dry	5	01/25/06 7:07
2-Nitroaniline	ND		8700	18	µg/Kg-dry	5	01/25/06 7:07
2-Nitrophenol	ND		1700	20	µg/Kg-dry	5	01/25/06 7:07
3,3'-Dichlorobenzidine	ND		3400	42	µg/Kg-dry	5	01/25/06 7:07
3-Nitroaniline	ND		8700	59	µg/Kg-dry	5	01/25/06 7:07
4,6-Dinitro-2-methylphenol	ND		8700	140	µg/Kg-dry	5	01/25/06 7:07
4-Bromophenyl phenyl ether	ND		1700	12	µg/Kg-dry	5	01/25/06 7:07
4-Chloro-3-methylphenol	ND		1700	14	µg/Kg-dry	5	01/25/06 7:07
4-Chloroaniline	ND		1700	21	µg/Kg-dry	5	01/25/06 7:07
4-Chlorophenyl phenyl ether	ND		1700	13	µg/Kg-dry	5	01/25/06 7:07
4-Methylphenol	ND		1700	9.9	µg/Kg-dry	5	01/25/06 7:07
4-Nitroaniline	ND		8700	29	µg/Kg-dry	5	01/25/06 7:07
4-Nitrophenol	ND		8700	69	µg/Kg-dry	5	01/25/06 7:07
Acenaphthene	ND		1700	6.1	µg/Kg-dry	5	01/25/06 7:07
Acenaphthylene	ND		1700	7.7	µg/Kg-dry	5	01/25/06 7:07
Aniline	ND		1700	21	µg/Kg-dry	5	01/25/06 7:07
Anthracene	ND		1700	7.0	µg/Kg-dry	5	01/25/06 7:07
Benzo[a]anthracene	ND		1700	7.3	µg/Kg-dry	5	01/25/06 7:07
Benzo[a]pyrene	ND		1700	8.6	µg/Kg-dry	5	01/25/06 7:07
Benzo[b]fluoranthene	ND		1700	12	µg/Kg-dry	5	01/25/06 7:07
Benzo[g,h,i]perylene	ND		1700	8.7	µg/Kg-dry	5	01/25/06 7:07

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:38

Project Supervisor: Thomas A. Alexander

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Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 3.9

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601050-004B

Client Sample ID: BH-36-S

Collection Date: 01/10/06 14:20

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3864.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND		1700	11	µg/Kg-dry	5	01/25/06 7:07
Benzoic acid	ND		8700	550	µg/Kg-dry	5	01/25/06 7:07
Benzyl alcohol	ND		1700	19	µg/Kg-dry	5	01/25/06 7:07
bis(2-Chloroethoxy)methane	ND		1700	6.6	µg/Kg-dry	5	01/25/06 7:07
bis(2-chloroethyl)ether	ND		1700	9.8	µg/Kg-dry	5	01/25/06 7:07
bis(2-chloroisopropyl)ether	ND		1700	9.8	µg/Kg-dry	5	01/25/06 7:07
bis(2-Ethylhexyl)phthalate	ND		1700	57	µg/Kg-dry	5	01/25/06 7:07
Butyl benzyl phthalate	ND		1700	11	µg/Kg-dry	5	01/25/06 7:07
Chrysene	ND		1700	8.2	µg/Kg-dry	5	01/25/06 7:07
Di-n-butyl phthalate	ND		1700	14	µg/Kg-dry	5	01/25/06 7:07
Di-n-octyl phthalate	ND		1700	8.2	µg/Kg-dry	5	01/25/06 7:07
Dibenz[a,h]anthracene	ND		1700	6.9	µg/Kg-dry	5	01/25/06 7:07
Dibenzofuran	ND		1700	7.5	µg/Kg-dry	5	01/25/06 7:07
Diethyl phthalate	ND		1700	12	µg/Kg-dry	5	01/25/06 7:07
Dimethyl phthalate	ND		1700	8.8	µg/Kg-dry	5	01/25/06 7:07
Fluoranthene	ND		1700	8.0	µg/Kg-dry	5	01/25/06 7:07
Fluorene	ND		1700	8.6	µg/Kg-dry	5	01/25/06 7:07
Hexachlorobenzene	ND		1700	14	µg/Kg-dry	5	01/25/06 7:07
Hexachlorobutadiene	ND		1700	18	µg/Kg-dry	5	01/25/06 7:07
Hexachlorocyclopentadiene	ND		1700	67	µg/Kg-dry	5	01/25/06 7:07
Hexachloroethane	ND		1700	19	µg/Kg-dry	5	01/25/06 7:07
Indeno[1,2,3-cd]pyrene	ND		1700	6.9	µg/Kg-dry	5	01/25/06 7:07
Isophorone	ND		1700	8.3	µg/Kg-dry	5	01/25/06 7:07
N-Nitroso-di-n-propylamine	ND		1700	15	µg/Kg-dry	5	01/25/06 7:07
N-Nitrosodiphenylamine	ND		1700	8.2	µg/Kg-dry	5	01/25/06 7:07
Naphthalene	ND		1700	5.2	µg/Kg-dry	5	01/25/06 7:07
Nitrobenzene	ND		1700	10	µg/Kg-dry	5	01/25/06 7:07
Pentachlorophenol	ND		8700	140	µg/Kg-dry	5	01/25/06 7:07
Phenanthrene	ND		1700	6.2	µg/Kg-dry	5	01/25/06 7:07
Phenol	ND		1700	7.0	µg/Kg-dry	5	01/25/06 7:07
Pyrene	ND		1700	8.3	µg/Kg-dry	5	01/25/06 7:07
Surr. 2,4,6-Tribromophenol	82.7		20-143	0	%REC	5	01/25/06 7:07
Surr. 2-Fluorobiphenyl	79.9		46-130	0	%REC	5	01/25/06 7:07
Surr. 2-Fluorophenol	67.3		22-130	0	%REC	5	01/25/06 7:07
Surr. Nitrobenzene-d5	65.6		39-130	0	%REC	5	01/25/06 7:07

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		



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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:15:49 A

Sample Size: 30 g

%Moisture: 3.9

TestCode: 8270S TAGML

Lab ID: 0601050-004B

Client Sample ID: BH-36-S

Collection Date: 01/10/06 14:20

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3864.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	67.3	33-130	0	%REC	5		01/25/06 7:07
Surr: Terphenyl-d14	83.0	36-146	0	%REC	5		01/25/06 7:07

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:38

Project Supervisor: Thomas A. Alexander

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 3.9

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601050-004B

Client Sample ID: BH-36-S

Collection Date: 01/10/06 14:20

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: 1-RA-N3955.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		1700	14	µg/Kg-dry	5	01/30/06 23:40
1,2-Dichlorobenzene	ND		1700	12	µg/Kg-dry	5	01/30/06 23:40
1,3-Dichlorobenzene	ND		1700	8.2	µg/Kg-dry	5	01/30/06 23:40
1,4-Dichlorobenzene	ND		1700	9.8	µg/Kg-dry	5	01/30/06 23:40
2,4,5-Trichlorophenol	ND		8700	170	µg/Kg-dry	5	01/30/06 23:40
2,4,6-Trichlorophenol	ND		1700	16	µg/Kg-dry	5	01/30/06 23:40
2,4-Dichlorophenol	ND		1700	16	µg/Kg-dry	5	01/30/06 23:40
2,4-Dimethylphenol	ND		1700	15	µg/Kg-dry	5	01/30/06 23:40
2,4-Dinitrophenol	ND		8700	310	µg/Kg-dry	5	01/30/06 23:40
2,4-Dinitrotoluene	ND		1700	14	µg/Kg-dry	5	01/30/06 23:40
2,6-Dinitrotoluene	ND		1700	17	µg/Kg-dry	5	01/30/06 23:40
2-Chloronaphthalene	ND		1700	8.2	µg/Kg-dry	5	01/30/06 23:40
2-Chlorophenol	ND		1700	11	µg/Kg-dry	5	01/30/06 23:40
2-Methylnaphthalene	ND		1700	8.3	µg/Kg-dry	5	01/30/06 23:40
2-Methylphenol	ND		1700	11	µg/Kg-dry	5	01/30/06 23:40
2-Nitroaniline	ND		8700	18	µg/Kg-dry	5	01/30/06 23:40
2-Nitrophenol	ND		1700	20	µg/Kg-dry	5	01/30/06 23:40
3,3'-Dichlorobenzidine	ND		3400	42	µg/Kg-dry	5	01/30/06 23:40
3-Nitroaniline	ND		8700	59	µg/Kg-dry	5	01/30/06 23:40
4,6-Dinitro-2-methylphenol	ND		8700	140	µg/Kg-dry	5	01/30/06 23:40
4-Bromophenyl phenyl ether	ND		1700	12	µg/Kg-dry	5	01/30/06 23:40
4-Chloro-3-methylphenol	ND		1700	14	µg/Kg-dry	5	01/30/06 23:40
4-Chloroaniline	ND		1700	21	µg/Kg-dry	5	01/30/06 23:40
4-Chlorophenyl phenyl ether	ND		1700	13	µg/Kg-dry	5	01/30/06 23:40
4-Methylphenol	ND		1700	9.9	µg/Kg-dry	5	01/30/06 23:40
4-Nitroaniline	ND		8700	29	µg/Kg-dry	5	01/30/06 23:40
4-Nitrophenol	ND		8700	69	µg/Kg-dry	5	01/30/06 23:40
Acenaphthene	ND		1700	6.1	µg/Kg-dry	5	01/30/06 23:40
Acenaphthylene	ND		1700	7.7	µg/Kg-dry	5	01/30/06 23:40
Aniline	ND		1700	21	µg/Kg-dry	5	01/30/06 23:40
Anthracene	ND		1700	7.0	µg/Kg-dry	5	01/30/06 23:40
Benzo[a]anthracene	ND		1700	7.3	µg/Kg-dry	5	01/30/06 23:40
Benzo[a]pyrene	ND		1700	8.6	µg/Kg-dry	5	01/30/06 23:40
Benzo[b]fluoranthene	ND		1700	12	µg/Kg-dry	5	01/30/06 23:40
Benzo[g,h,i]perylene	ND		1700	8.7	µg/Kg-dry	5	01/30/06 23:40

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:39

Project Supervisor: Thomas A. Alexander

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 3.9

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601050-004B

Client Sample ID: BH-36-S

Collection Date: 01/10/06 14:20

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: 1-RA-N3955.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND	1700		11	µg/Kg-dry	5	01/30/06 23:40
Benzoic acid	ND	8700		550	µg/Kg-dry	5	01/30/06 23:40
Benzyl alcohol	ND	1700		19	µg/Kg-dry	5	01/30/06 23:40
bis(2-Chloroethoxy)methane	ND	1700		6.6	µg/Kg-dry	5	01/30/06 23:40
bis(2-chloroethyl)ether	ND	1700		9.8	µg/Kg-dry	5	01/30/06 23:40
bis(2-chloroisopropyl)ether	ND	1700		9.8	µg/Kg-dry	5	01/30/06 23:40
bis(2-Ethylhexyl)phthalate	ND	1700		57	µg/Kg-dry	5	01/30/06 23:40
Butyl benzyl phthalate	ND	1700		11	µg/Kg-dry	5	01/30/06 23:40
Chrysene	ND	1700		8.2	µg/Kg-dry	5	01/30/06 23:40
Di-n-butyl phthalate	ND	1700		14	µg/Kg-dry	5	01/30/06 23:40
Di-n-octyl phthalate	ND	1700		8.2	µg/Kg-dry	5	01/30/06 23:40
Dibenz[a,h]anthracene	ND	1700		6.9	µg/Kg-dry	5	01/30/06 23:40
Dibenzofuran	ND	1700		7.5	µg/Kg-dry	5	01/30/06 23:40
Diethyl phthalate	ND	1700		12	µg/Kg-dry	5	01/30/06 23:40
Dimethyl phthalate	ND	1700		8.6	µg/Kg-dry	5	01/30/06 23:40
Fluoranthene	ND	1700		6.0	µg/Kg-dry	5	01/30/06 23:40
Fluorene	ND	1700		8.6	µg/Kg-dry	5	01/30/06 23:40
Hexachlorobenzene	ND	1700		14	µg/Kg-dry	5	01/30/06 23:40
Hexachlorobutadiene	ND	1700		18	µg/Kg-dry	5	01/30/06 23:40
Hexachlorocyclopentadiene	ND	1700		67	µg/Kg-dry	5	01/30/06 23:40
Hexachloroethane	ND	1700		19	µg/Kg-dry	5	01/30/06 23:40
Indeno[1,2,3-cd]pyrene	ND	1700		6.9	µg/Kg-dry	5	01/30/06 23:40
Isophorone	ND	1700		8.3	µg/Kg-dry	5	01/30/06 23:40
N-Nitroso-di-n-propylamine	ND	1700		15	µg/Kg-dry	5	01/30/06 23:40
N-Nitrosodiphenylamine	ND	1700		8.2	µg/Kg-dry	5	01/30/06 23:40
Naphthalene	ND	1700		5.2	µg/Kg-dry	5	01/30/06 23:40
Nitrobenzene	ND	1700		10	µg/Kg-dry	5	01/30/06 23:40
Pentachlorophenol	ND	8700		140	µg/Kg-dry	5	01/30/06 23:40
Phenanthrene	ND	1700		6.2	µg/Kg-dry	5	01/30/06 23:40
Phenol	ND	1700		7.0	µg/Kg-dry	5	01/30/06 23:40
Pyrene	ND	1700		8.3	µg/Kg-dry	5	01/30/06 23:40
Surr. 2,4,6-Tribromophenol	76.8	20-143		0	%REC	5	01/30/06 23:40
Surr. 2-Fluorobiphenyl	73.9	46-130		0	%REC	5	01/30/06 23:40
Surr. 2-Fluorophenol	55.6	22-130		0	%REC	5	01/30/06 23:40
Surr. Nitrobenzene-d5	64.8	39-130		0	%REC	5	01/30/06 23:40

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		



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Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	Lab ID:	0601050-004B
Project:	Geneva Foundry	Client Sample ID:	BH-36-S
W Order:	0601050	Collection Date:	01/10/06 14:20
Matrix:	SOIL	Date Received:	01/12/06 0:00
Inst. ID:	MS05 26	Sample Size:	30 g
ColumnID:	ZB-5	%Moisture:	3.9
Revision:	01/31/06 10:37:14 A	PrepDate:	01/17/06 12:00 A
		BatchNo:	2379/R4381
		TestCode:	8270S TAGML
		FileID:	1-RA-N3955.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr. Phenol-d5	55.9	33-130	0	%REC	5		01/30/06 23:40
Surr. Terphenyl-d14	66.8	36-146	0	%REC	5		01/30/06 23:40

Qualifiers:	B Analyte detected in the associated Method Blank	E Value exceeds the instrument calibration range
	H Holding times for preparation or analysis exceeded	J Analyte detected below the PQL
	ND Not Detected at the Practical Quantitation Limit (PQL)	P Prim./Conf. column %D or RPD exceeds limit
	S Spike Recovery outside accepted recovery limits	



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 10.4

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601050-005B

Client Sample ID: BH-36-D

Collection Date: 01/10/06 14:30

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3865.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		370	2.9	µg/Kg-dry	1	01/25/06 7:45
1,2-Dichlorobenzene	ND		370	2.6	µg/Kg-dry	1	01/25/06 7:45
1,3-Dichlorobenzene	ND		370	1.8	µg/Kg-dry	1	01/25/06 7:45
1,4-Dichlorobenzene	ND		370	2.1	µg/Kg-dry	1	01/25/06 7:45
2,4,5-Trichlorophenol	ND		1900	37	µg/Kg-dry	1	01/25/06 7:45
2,4,6-Trichlorophenol	ND		370	3.4	µg/Kg-dry	1	01/25/06 7:45
2,4-Dichlorophenol	ND		370	3.4	µg/Kg-dry	1	01/25/06 7:45
2,4-Dimethylphenol	ND		370	3.1	µg/Kg-dry	1	01/25/06 7:45
2,4-Dinitrophenol	ND		1900	67	µg/Kg-dry	1	01/25/06 7:45
2,4-Dinitrotoluene	ND		370	3.1	µg/Kg-dry	1	01/25/06 7:45
2,6-Dinitrotoluene	ND		370	3.6	µg/Kg-dry	1	01/25/06 7:45
2-Chloronaphthalene	ND		370	1.8	µg/Kg-dry	1	01/25/06 7:45
2-Chlorophenol	ND		370	2.4	µg/Kg-dry	1	01/25/06 7:45
2-Methylnaphthalene	ND		370	1.8	µg/Kg-dry	1	01/25/06 7:45
2-Methylphenol	ND		370	2.3	µg/Kg-dry	1	01/25/06 7:45
2-Nitroaniline	ND		1900	3.9	µg/Kg-dry	1	01/25/06 7:45
2-Nitrophenol	ND		370	4.2	µg/Kg-dry	1	01/25/06 7:45
3,3'-Dichlorobenzidine	ND		740	9.1	µg/Kg-dry	1	01/25/06 7:45
3-Nitroaniline	ND		1900	13	µg/Kg-dry	1	01/25/06 7:45
4,6-Dinitro-2-methylphenol	ND		1900	30	µg/Kg-dry	1	01/25/06 7:45
4-Bromophenyl phenyl ether	ND		370	2.6	µg/Kg-dry	1	01/25/06 7:45
4-Chloro-3-methylphenol	ND		370	2.9	µg/Kg-dry	1	01/25/06 7:45
4-Chloroaniline	ND		370	4.5	µg/Kg-dry	1	01/25/06 7:45
4-Chlorophenyl phenyl ether	ND		370	2.8	µg/Kg-dry	1	01/25/06 7:45
4-Methylphenol	ND		370	2.1	µg/Kg-dry	1	01/25/06 7:45
4-Nitroaniline	ND		1900	6.2	µg/Kg-dry	1	01/25/06 7:45
4-Nitrophenol	ND		1900	15	µg/Kg-dry	1	01/25/06 7:45
Acenaphthene	ND		370	1.3	µg/Kg-dry	1	01/25/06 7:45
Acenaphthylene	ND		370	1.7	µg/Kg-dry	1	01/25/06 7:45
Aniline	ND		370	4.6	µg/Kg-dry	1	01/25/06 7:45
Anthracene	ND		370	1.5	µg/Kg-dry	1	01/25/06 7:45
Benzo[a]anthracene	ND		370	1.6	µg/Kg-dry	1	01/25/06 7:45
Benzo[a]pyrene	ND		370	1.8	µg/Kg-dry	1	01/25/06 7:45
Benzo[b]fluoranthene	ND		370	2.7	µg/Kg-dry	1	01/25/06 7:45
Benzo[g,h,i]perylene	ND		370	1.9	µg/Kg-dry	1	01/25/06 7:45

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:39

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 10.4

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601050-005B

Client Sample ID: BH-36-D

Collection Date: 01/10/06 14:30

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3865.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND		370	2.4	µg/Kg-dry	1	01/25/06 7:45
Benzoic acid	ND		1900	120	µg/Kg-dry	1	01/25/06 7:45
Benzyl alcohol	ND		370	4.1	µg/Kg-dry	1	01/25/06 7:45
bis(2-Chloroethoxy)methane	ND		370	1.4	µg/Kg-dry	1	01/25/06 7:45
bis(2-chloroethyl)ether	ND		370	2.1	µg/Kg-dry	1	01/25/06 7:45
bis(2-chloroisopropyl)ether	ND		370	2.1	µg/Kg-dry	1	01/25/06 7:45
bis(2-Ethylhexyl)phthalate	ND		370	12	µg/Kg-dry	1	01/25/06 7:45
Butyl benzyl phthalate	ND		370	2.4	µg/Kg-dry	1	01/25/06 7:45
Chrysene	ND		370	1.8	µg/Kg-dry	1	01/25/06 7:45
Di-n-butyl phthalate	38 J		370	3.1	µg/Kg-dry	1	01/25/06 7:45
Di-n-octyl phthalate	ND		370	1.8	µg/Kg-dry	1	01/25/06 7:45
Dibenz[a,h]anthracene	ND		370	1.5	µg/Kg-dry	1	01/25/06 7:45
Dibenzofuran	ND		370	1.8	µg/Kg-dry	1	01/25/06 7:45
Diethyl phthalate	ND		370	2.7	µg/Kg-dry	1	01/25/06 7:45
Dimethyl phthalate	ND		370	1.9	µg/Kg-dry	1	01/25/06 7:45
Fluoranthene	ND		370	1.7	µg/Kg-dry	1	01/25/06 7:45
Fluorene	ND		370	1.8	µg/Kg-dry	1	01/25/06 7:45
Hexachlorobenzene	ND		370	2.9	µg/Kg-dry	1	01/25/06 7:45
Hexachlorobutadiene	ND		370	3.9	µg/Kg-dry	1	01/25/06 7:45
Hexachlorocyclopentadiene	ND		370	14	µg/Kg-dry	1	01/25/06 7:45
Hexachloroethane	ND		370	4.0	µg/Kg-dry	1	01/25/06 7:45
Indeno[1,2,3-cd]pyrene	ND		370	1.5	µg/Kg-dry	1	01/25/06 7:45
Isophorone	ND		370	1.8	µg/Kg-dry	1	01/25/06 7:45
N-Nitroso-di-n-propylamine	ND		370	3.2	µg/Kg-dry	1	01/25/06 7:45
N-Nitrosodiphenylamine	ND		370	1.8	µg/Kg-dry	1	01/25/06 7:45
Naphthalene	ND		370	1.1	µg/Kg-dry	1	01/25/08 7:45
Nitrobenzene	ND		370	2.2	µg/Kg-dry	1	01/25/06 7:45
Pentachlorophenol	ND		1900	31	µg/Kg-dry	1	01/25/06 7:45
Phenanthrene	ND		370	1.3	µg/Kg-dry	1	01/25/06 7:45
Phenol	ND		370	1.5	µg/Kg-dry	1	01/25/06 7:45
Pyrene	ND		370	1.8	µg/Kg-dry	1	01/25/08 7:45
Surr: 2,4,6-Tribromophenol	89.4		20-143	0	%REC	1	01/25/06 7:45
Surr: 2-Fluorobiphenyl	76.7		46-130	0	%REC	1	01/25/06 7:45
Surr: 2-Fluorophenol	64.6		22-130	0	%REC	1	01/25/06 7:45
Surr: Nitrobenzene-d5	88.1		39-130	0	%REC	1	01/25/06 7:45

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:39

Project Supervisor: Thomas A. Alexander

225



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 10.4

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601050-005B

Client Sample ID: BH-36-D

Collection Date: 01/10/06 14:30

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3865.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	65.7	33-130		0	%REC	1	01/25/06 7:45
Surr: Terphenyl-d14	83.9	36-146		0	%REC	1	01/25/06 7:45

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:39

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 10.4

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601050-005B

Client Sample ID: BH-36-D

Collection Date: 01/10/06 14:30

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: 1-RA-N3957.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		370	2.9	µg/Kg-dry	1	01/31/06 0:55
1,2-Dichlorobenzene	ND		370	2.6	µg/Kg-dry	1	01/31/06 0:55
1,3-Dichlorobenzene	ND		370	1.8	µg/Kg-dry	1	01/31/06 0:55
1,4-Dichlorobenzene	ND		370	2.1	µg/Kg-dry	1	01/31/06 0:55
2,4,5-Trichlorophenol	ND		1900	37	µg/Kg-dry	1	01/31/06 0:55
2,4,6-Trichlorophenol	ND		370	3.4	µg/Kg-dry	1	01/31/06 0:55
2,4-Dichlorophenol	ND		370	3.4	µg/Kg-dry	1	01/31/08 0:55
2,4-Dimethylphenol	ND		370	3.1	µg/Kg-dry	1	01/31/06 0:55
2,4-Dinitrophenol	ND		1900	67	µg/Kg-dry	1	01/31/06 0:55
2,4-Dinitrotoluene	ND		370	3.1	µg/Kg-dry	1	01/31/06 0:55
2,6-Dinitrotoluene	ND		370	3.6	µg/Kg-dry	1	01/31/06 0:55
2-Chloronaphthalene	ND		370	1.8	µg/Kg-dry	1	01/31/06 0:55
2-Chlorophenol	ND		370	2.4	µg/Kg-dry	1	01/31/06 0:55
2-Methylnaphthalene	ND		370	1.8	µg/Kg-dry	1	01/31/06 0:55
2-Methylphenol	ND		370	2.3	µg/Kg-dry	1	01/31/06 0:55
2-Nitroaniline	ND		1900	3.9	µg/Kg-dry	1	01/31/06 0:55
2-Nitrophenol	ND		370	4.2	µg/Kg-dry	1	01/31/06 0:55
3,3'-Dichlorobenzidine	ND		740	9.1	µg/Kg-dry	1	01/31/06 0:55
3-Nitroaniline	ND		1900	13	µg/Kg-dry	1	01/31/06 0:55
4,6-Dinitro-2-methylphenol	ND		1900	30	µg/Kg-dry	1	01/31/08 0:55
4-Bromophenyl phenyl ether	ND		370	2.6	µg/Kg-dry	1	01/31/06 0:55
4-Chloro-3-methylphenol	ND		370	2.9	µg/Kg-dry	1	01/31/06 0:55
4-Chloroaniline	ND		370	4.5	µg/Kg-dry	1	01/31/06 0:55
4-Chlorophenyl phenyl ether	ND		370	2.8	µg/Kg-dry	1	01/31/06 0:55
4-Methylphenol	ND		370	2.1	µg/Kg-dry	1	01/31/06 0:55
4-Nitroaniline	ND		1900	6.2	µg/Kg-dry	1	01/31/06 0:55
4-Nitrophenol	ND		1900	15	µg/Kg-dry	1	01/31/06 0:55
Acenaphthene	ND		370	1.3	µg/Kg-dry	1	01/31/08 0:55
Acenaphthylene	ND		370	1.7	µg/Kg-dry	1	01/31/08 0:55
Aniline	ND		370	4.6	µg/Kg-dry	1	01/31/08 0:55
Anthracene	ND		370	1.5	µg/Kg-dry	1	01/31/06 0:55
Benzo[a]anthracene	ND		370	1.6	µg/Kg-dry	1	01/31/06 0:55
Benzo[a]pyrene	ND		370	1.8	µg/Kg-dry	1	01/31/06 0:55
Benzo[b]fluoranthene	ND		370	2.7	µg/Kg-dry	1	01/31/06 0:55
Benzo[g,h,i]perylene	ND		370	1.9	µg/Kg-dry	1	01/31/06 0:55

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 10.4

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601050-005B

Client Sample ID: BH-36-D

Collection Date: 01/10/06 14:30

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: 1-RA-N3957.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND		370	2.4	µg/Kg-dry	1	01/31/06 0:55
Benzoic acid	ND		1900	120	µg/Kg-dry	1	01/31/06 0:55
Benzyl alcohol	ND		370	4.1	µg/Kg-dry	1	01/31/06 0:55
bis(2-Chloroethoxy)methane	ND		370	1.4	µg/Kg-dry	1	01/31/06 0:55
bis(2-chloroethyl)ether	ND		370	2.1	µg/Kg-dry	1	01/31/06 0:55
bis(2-chloroisopropyl)ether	ND		370	2.1	µg/Kg-dry	1	01/31/06 0:55
bis(2-Ethylhexyl)phthalate	ND		370	12	µg/Kg-dry	1	01/31/06 0:55
Butyl benzyl phthalate	ND		370	2.4	µg/Kg-dry	1	01/31/06 0:55
Chrysene	ND		370	1.8	µg/Kg-dry	1	01/31/06 0:55
Di-n-butyl phthalate	39 J		370	3.1	µg/Kg-dry	1	01/31/06 0:55
Di-n-octyl phthalate	ND		370	1.8	µg/Kg-dry	1	01/31/06 0:55
Dibenz[a,h]anthracene	ND		370	1.5	µg/Kg-dry	1	01/31/06 0:55
Dibenzofuran	ND		370	1.6	µg/Kg-dry	1	01/31/06 0:55
Diethyl phthalate	ND		370	2.7	µg/Kg-dry	1	01/31/06 0:55
Dimethyl phthalate	ND		370	1.9	µg/Kg-dry	1	01/31/06 0:55
Fluoranthene	ND		370	1.7	µg/Kg-dry	1	01/31/06 0:55
Fluorene	ND		370	1.8	µg/Kg-dry	1	01/31/06 0:55
Hexachlorobenzene	ND		370	2.9	µg/Kg-dry	1	01/31/06 0:55
Hexachlorobutadiene	ND		370	3.9	µg/Kg-dry	1	01/31/06 0:55
Hexachlorocyclopentadiene	ND		370	14	µg/Kg-dry	1	01/31/06 0:55
Hexachloroethane	ND		370	4.0	µg/Kg-dry	1	01/31/06 0:55
Indeno[1,2,3-cd]pyrene	ND		370	1.5	µg/Kg-dry	1	01/31/06 0:55
Isophorone	ND		370	1.8	µg/Kg-dry	1	01/31/06 0:55
N-Nitroso-di-n-propylamine	ND		370	3.2	µg/Kg-dry	1	01/31/06 0:55
N-Nitrosodiphenylamine	ND		370	1.8	µg/Kg-dry	1	01/31/06 0:55
Naphthalene	ND		370	1.1	µg/Kg-dry	1	01/31/06 0:55
Nitrobenzene	ND		370	2.2	µg/Kg-dry	1	01/31/06 0:55
Pentachlorophenol	ND		1900	31	µg/Kg-dry	1	01/31/06 0:55
Phenanthrene	ND		370	1.3	µg/Kg-dry	1	01/31/06 0:55
Phenol	ND		370	1.5	µg/Kg-dry	1	01/31/06 0:55
Pyrene	ND		370	1.8	µg/Kg-dry	1	01/31/06 0:55
Surr. 2,4,6-Tribromophenol	97.0		20-143	0	%REC	1	01/31/06 0:55
Surr. 2-Fluorobiphenyl	84.7		46-130	0	%REC	1	01/31/06 0:55
Surr. 2-Fluorophenol	61.0		22-130	0	%REC	1	01/31/06 0:55
Surr. Nitrobenzene-d5	68.7		39-130	0	%REC	1	01/31/06 0:55

Qualifiers: B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:39

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 10.4

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601050-005B

Client Sample ID: BH-36-D

Collection Date: 01/10/06 14:30

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: 1-RA-N3957.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	59.5	33-130	0	%REC	1		01/31/06 0:55
Surr: Terphenyl-d14	90.3	36-146	0	%REC	1		01/31/06 0:55

Qualifiers:	B Analyte detected in the associated Method Blank	E Value exceeds the instrument calibration range
	H Holding times for preparation or analysis exceeded	J Analyte detected below the PQL
	ND Not Detected at the Practical Quantitation Limit (PQL)	P Prim./Conf. column %D or RPD exceeds limit
	S Spike Recovery outside accepted recovery limits	

Print Date: 01/31/06 11:39

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: WATER

Inst. ID: MS05 26

Sample Size: 910 mL

ColumnID: ZB-5

%Moisture:

Revision: 01/31/06 10:18:39 A

TestCode: 8270W TAGML

Lab ID: 0601050-006B

Client Sample ID: 1/10 EQUIP BLANK

Collection Date: 01/10/06 16:00

Date Received: 01/12/06 0:00

PrepDate: 01/16/06 12:00 A

BatchNo: 2392/R4378

FileID: 1-SAMP-N3879.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3520C)	
1,2,4-Trichlorobenzene	ND	11		0.077	µg/L	1	01/25/06 19:55
1,2-Dichlorobenzene	ND	11		0.055	µg/L	1	01/25/06 19:55
1,3-Dichlorobenzene	ND	11		0.066	µg/L	1	01/25/06 19:55
1,4-Dichlorobenzene	ND	11		0.055	µg/L	1	01/25/06 19:55
2,4,5-Trichlorophenol	ND	55		0.19	µg/L	1	01/25/06 19:55
2,4,6-Trichlorophenol	ND	11		0.088	µg/L	1	01/25/06 19:55
2,4-Dichlorophenol	ND	11		0.066	µg/L	1	01/25/06 19:55
2,4-Dimethylphenol	ND	11		0.25	µg/L	1	01/25/06 19:55
2,4-Dinitrophenol	ND	55		1.3	µg/L	1	01/25/06 19:55
2,4-Dinitrotoluene	ND	11		0.088	µg/L	1	01/25/06 19:55
2,6-Dinitrotoluene	ND	11		0.077	µg/L	1	01/25/06 19:55
2-Chloronaphthalene	ND	11		0.088	µg/L	1	01/25/06 19:55
2-Chlorophenol	ND	11		0.055	µg/L	1	01/25/06 19:55
2-Methylnaphthalene	ND	11		0.066	µg/L	1	01/25/06 19:55
2-Methylphenol	ND	11		0.077	µg/L	1	01/25/06 19:55
2-Nitroaniline	ND	55		0.43	µg/L	1	01/25/06 19:55
2-Nitrophenol	ND	11		0.077	µg/L	1	01/25/06 19:55
3,3'-Dichlorobenzidine	ND	22		0.30	µg/L	1	01/25/06 19:55
3-Nitroaniline	ND	55		0.23	µg/L	1	01/25/06 19:55
4,6-Dinitro-2-methylphenol	ND	11		0.46	µg/L	1	01/25/06 19:55
4-Bromophenyl phenyl ether	ND	11		0.088	µg/L	1	01/25/06 19:55
4-Chloro-3-methylphenol	ND	11		0.077	µg/L	1	01/25/06 19:55
4-Chloroaniline	ND	11		0.38	µg/L	1	01/25/06 19:55
4-Chlorophenyl phenyl ether	ND	11		0.077	µg/L	1	01/25/06 19:55
4-Methylphenol	ND	11		0.099	µg/L	1	01/25/06 19:55
4-Nitroaniline	ND	55		0.18	µg/L	1	01/25/06 19:55
4-Nitrophenol	ND	55		0.42	µg/L	1	01/25/06 19:55
Acenaphthene	ND	11		0.055	µg/L	1	01/25/06 19:55
Acenaphthylene	ND	11		0.24	µg/L	1	01/25/06 19:55
Aniline	ND	11		0.38	µg/L	1	01/25/06 19:55
Anthracene	ND	11		0.066	µg/L	1	01/25/06 19:55
Benzo[a]anthracene	ND	11		0.066	µg/L	1	01/25/06 19:55
Benzo[a]pyrene	ND	11		0.077	µg/L	1	01/25/06 19:55
Benzo[b]fluoranthene	ND	11		0.20	µg/L	1	01/25/06 19:55
Benzo[g,h,i]perylene	ND	11		0.099	µg/L	1	01/25/06 19:55

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:39

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: WATER

Inst. ID: MS05 26

Sample Size: 910 mL

ColumnID: ZB-5

%Moisture:

Revision: 01/31/06 10:18:39 A

TestCode: 8270W TAGML

Lab ID: 0601050-006B

Client Sample ID: 1/10 EQUIP BLANK

Collection Date: 01/10/06 16:00

Date Received: 01/12/06 0:00

PrepDate: 01/16/06 12:00 A

BatchNo: 2392/R4378

FileID: 1-SAMP-N3879.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3520C)	
Benzo[k]fluoranthene	ND	11		0.18	µg/L	1	01/25/06 19:55
Benzoic acid	ND	55		12	µg/L	1	01/25/06 19:55
Benzyl alcohol	ND	11		0.20	µg/L	1	01/25/06 19:55
bis(2-Chloroethoxy)methane	ND	11		0.32	µg/L	1	01/25/06 19:55
bis(2-chloroethyl)ether	ND	11		0.088	µg/L	1	01/25/06 19:55
bis(2-chloroisopropyl)ether	ND	11		0.077	µg/L	1	01/25/06 19:55
bis(2-Ethylhexyl)phthalate	ND	11		0.41	µg/L	1	01/25/06 19:55
Butyl benzyl phthalate	ND	11		0.099	µg/L	1	01/25/06 19:55
Chrysene	ND	11		0.033	µg/L	1	01/25/06 19:55
Di-n-butyl phthalate	ND	11		0.15	µg/L	1	01/25/06 19:55
Di-n-octyl phthalate	ND	11		0.077	µg/L	1	01/25/06 19:55
Dibenz[a,h]anthracene	ND	11		0.099	µg/L	1	01/25/06 19:55
Dibenzofuran	ND	11		0.066	µg/L	1	01/25/06 19:55
Diethyl phthalate	ND	11		0.066	µg/L	1	01/25/06 19:55
Dimethyl phthalate	ND	11		0.066	µg/L	1	01/25/06 19:55
Fluoranthene	ND	11		0.044	µg/L	1	01/25/06 19:55
Fluorene	ND	11		0.066	µg/L	1	01/25/06 19:55
Hexachlorobenzene	ND	11		0.077	µg/L	1	01/25/06 19:55
Hexachlorobutadiene	ND	11		0.077	µg/L	1	01/25/06 19:55
Hexachlorocyclopentadiene	ND	11		1.6	µg/L	1	01/25/06 19:55
Hexachloroethane	ND	11		0.088	µg/L	1	01/25/06 19:55
Indeno[1,2,3-cd]pyrene	ND	11		0.099	µg/L	1	01/25/06 19:55
Isophorone	ND	11		0.044	µg/L	1	01/25/06 19:55
N-Nitroso-di-n-propylamine	ND	11		0.088	µg/L	1	01/25/06 19:55
N-Nitrosodiphenylamine	ND	11		0.32	µg/L	1	01/25/06 19:55
Naphthalene	ND	11		0.066	µg/L	1	01/25/06 19:55
Nitrobenzene	ND	11		0.055	µg/L	1	01/25/06 19:55
Pentachlorophenol	ND	55		6.9	µg/L	1	01/25/06 19:55
Phenanthrene	ND	11		0.044	µg/L	1	01/25/06 19:55
Phenol	ND	11		0.11	µg/L	1	01/25/06 19:55
Pyrene	ND	11		0.077	µg/L	1	01/25/06 19:55
Surr. 2,4,6-Tribromophenol	91.2	46-149		0	%REC	1	01/25/06 19:55
Surr. 2-Fluorobiphenyl	62.8	42-130		0	%REC	1	01/25/06 19:55
Surr. 2-Fluorophenol	61.8	26-130		0	%REC	1	01/25/06 19:55
Surr. Nitrobenzene-d5	73.0	42-130		0	%REC	1	01/25/06 19:55

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:39

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: WATER

Inst. ID: MS05 26

Sample Size: 910 mL

ColumnID: ZB-5

%Moisture:

Revision: 01/31/06 10:18:39 A

TestCode: 8270W TAGML

Lab ID: 0601050-006B

Client Sample ID: 1/10 EQUIP BLANK

Collection Date: 01/10/06 16:00

Date Received: 01/12/06 0:00

PrepDate: 01/16/06 12:00 A

BatchNo: 2392/R4378

FileID: 1-SAMP-N3879.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
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SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS

SW8270C

(SW3520C)

Surr: Phenol-d5

62.8

21-134

0

%REC

1

01/25/06 19:55

Surr: Terphenyl-d14

67.7

24-147

0

%REC

1

01/25/06 19:55

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:39

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: WATER

Inst. ID: MS05 26

Sample Size: 940 mL

ColumnID: ZB-5

%Moisture:

Revision: 01/31/06 10:18:39 A

TestCode: 8270W TAGML

Lab ID: 0601050-007B

Client Sample ID: 1/11 EQUIP BLANK

Collection Date: 01/11/06 16:00

Date Received: 01/12/06 0:00

PrepDate: 01/16/06 12:00 A

BatchNo: 2392/R4378

FileID: 1-SAMP-N3880.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3520C)	
1,2,4-Trichlorobenzene	ND	11		0.074	µg/L	1	01/25/06 20:33
1,2-Dichlorobenzene	ND	11		0.053	µg/L	1	01/25/06 20:33
1,3-Dichlorobenzene	ND	11		0.064	µg/L	1	01/25/06 20:33
1,4-Dichlorobenzene	ND	11		0.053	µg/L	1	01/25/06 20:33
2,4,5-Trichlorophenol	ND	53		0.18	µg/L	1	01/25/06 20:33
2,4,6-Trichlorophenol	ND	11		0.085	µg/L	1	01/25/06 20:33
2,4-Dichlorophenol	ND	11		0.064	µg/L	1	01/25/06 20:33
2,4-Dimethylphenol	ND	11		0.24	µg/L	1	01/25/06 20:33
2,4-Dinitrophenol	ND	53		1.2	µg/L	1	01/25/06 20:33
2,4-Dinitrotoluene	ND	11		0.085	µg/L	1	01/25/06 20:33
2,6-Dinitrotoluene	ND	11		0.074	µg/L	1	01/25/06 20:33
2-Chloronaphthalene	ND	11		0.085	µg/L	1	01/25/06 20:33
2-Chlorophenol	ND	11		0.053	µg/L	1	01/25/06 20:33
2-Methylnaphthalene	ND	11		0.064	µg/L	1	01/25/06 20:33
2-Methylphenol	ND	11		0.074	µg/L	1	01/25/06 20:33
2-Nitroaniline	ND	53		0.41	µg/L	1	01/25/06 20:33
2-Nitrophenol	ND	11		0.074	µg/L	1	01/25/06 20:33
3,3'-Dichlorobenzidine	ND	21		0.29	µg/L	1	01/25/06 20:33
3-Nitroaniline	ND	53		0.22	µg/L	1	01/25/06 20:33
4,6-Dinitro-2-methylphenol	ND	11		0.45	µg/L	1	01/25/06 20:33
4-Bromophenyl phenyl ether	ND	11		0.085	µg/L	1	01/25/06 20:33
4-Chloro-3-methylphenol	ND	11		0.074	µg/L	1	01/25/06 20:33
4-Chloroaniline	ND	11		0.37	µg/L	1	01/25/06 20:33
4-Chlorophenyl phenyl ether	ND	11		0.074	µg/L	1	01/25/06 20:33
4-Methylphenol	ND	11		0.096	µg/L	1	01/25/06 20:33
4-Nitroaniline	ND	53		0.17	µg/L	1	01/25/06 20:33
4-Nitrophenol	ND	53		0.40	µg/L	1	01/25/06 20:33
Acenaphthene	ND	11		0.053	µg/L	1	01/25/06 20:33
Acenaphthylene	ND	11		0.23	µg/L	1	01/25/06 20:33
Aniline	ND	11		0.37	µg/L	1	01/25/06 20:33
Anthracene	ND	11		0.064	µg/L	1	01/25/06 20:33
Benzo[a]anthracene	ND	11		0.064	µg/L	1	01/25/06 20:33
Benzo[a]pyrene	ND	11		0.074	µg/L	1	01/25/06 20:33
Benzo[b]fluoranthene	ND	11		0.19	µg/L	1	01/25/06 20:33
Benzo[g,h,i]perylene	ND	11		0.096	µg/L	1	01/25/06 20:33

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: WATER

Inst. ID: MS05 26

Sample Size: 940 mL

ColumnID: ZB-5

%Moisture:

Revision: 01/31/06 10:18:39 A

TestCode: 8270W TAGML

Lab ID: 0601050-007B

Client Sample ID: 1/11 EQUIP BLANK

Collection Date: 01/11/06 16:00

Date Received: 01/12/06 0:00

PrepDate: 01/16/06 12:00 A

BatchNo: 2392/R4378

FileID: 1-SAMP-N3880.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3520C)	
Benzo[k]fluoranthene	ND	11		0.17	µg/L	1	01/25/06 20:33
Benzoic acid	ND	53		12	µg/L	1	01/25/06 20:33
Benzyl alcohol	ND	11		0.19	µg/L	1	01/25/06 20:33
bis(2-Chloroethoxy)methane	ND	11		0.31	µg/L	1	01/25/06 20:33
bis(2-chloroethyl)ether	ND	11		0.085	µg/L	1	01/25/06 20:33
bis(2-chloroisopropyl)ether	ND	11		0.074	µg/L	1	01/25/06 20:33
bis(2-Ethylhexyl)phthalate	ND	11		0.39	µg/L	1	01/25/06 20:33
Butyl benzyl phthalate	ND	11		0.096	µg/L	1	01/25/06 20:33
Chrysene	ND	11		0.032	µg/L	1	01/25/06 20:33
Di-n-butyl phthalate	ND	11		0.15	µg/L	1	01/25/06 20:33
Di-n-octyl phthalate	ND	11		0.074	µg/L	1	01/25/06 20:33
Dibenz[a,h]anthracene	ND	11		0.096	µg/L	1	01/25/06 20:33
Dibenzofuran	ND	11		0.064	µg/L	1	01/25/06 20:33
Diethyl phthalate	ND	11		0.064	µg/L	1	01/25/06 20:33
Dimethyl phthalate	ND	11		0.064	µg/L	1	01/25/06 20:33
Fluoranthene	ND	11		0.043	µg/L	1	01/25/06 20:33
Fluorene	ND	11		0.064	µg/L	1	01/25/06 20:33
Hexachlorobenzene	ND	11		0.074	µg/L	1	01/25/06 20:33
Hexachlorobutadiene	ND	11		0.074	µg/L	1	01/25/06 20:33
Hexachlorocyclopentadiene	ND	11		1.6	µg/L	1	01/25/06 20:33
Hexachloroethane	ND	11		0.085	µg/L	1	01/25/06 20:33
Indeno[1,2,3-cd]pyrene	ND	11		0.096	µg/L	1	01/25/06 20:33
Isophorone	ND	11		0.043	µg/L	1	01/25/06 20:33
N-Nitroso-di-n-propylamine	ND	11		0.065	µg/L	1	01/25/06 20:33
N-Nitrosodiphenylamine	ND	11		0.31	µg/L	1	01/25/06 20:33
Naphthalene	ND	11		0.064	µg/L	1	01/25/06 20:33
Nitrobenzene	ND	11		0.053	µg/L	1	01/25/06 20:33
Pentachlorophenol	ND	53		6.7	µg/L	1	01/25/06 20:33
Phenanthrene	ND	11		0.043	µg/L	1	01/25/06 20:33
Phenol	ND	11		0.11	µg/L	1	01/25/06 20:33
Pyrene	ND	11		0.074	µg/L	1	01/25/06 20:33
Surr: 2,4,6-Tribromophenol	93.1	46-149		0	%REC	1	01/25/06 20:33
Surr: 2-Fluorobiphenyl	65.6	42-130		0	%REC	1	01/25/06 20:33
Surr: 2-Fluorophenol	63.7	26-130		0	%REC	1	01/25/06 20:33
Surr: Nitrobenzene-d5	73.3	42-130		0	%REC	1	01/25/06 20:33

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:39

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: WATER

Inst. ID: MS05 26

Sample Size: 940 mL

ColumnID: ZB-5

%Moisture:

Revision: 01/31/06 10:18:39 A

TestCode: 8270W TAGML

Lab ID: 0601050-007B

Client Sample ID: 1/11 EQUIP BLANK

Collection Date: 01/11/06 16:00

Date Received: 01/12/06 0:00

PrepDate: 01/16/06 12:00 A

BatchNo: 2392/R4378

FileID: 1-SAMP-N3880.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3520C)	
Surr: Phenol-d5	63.6	21-134	0	%REC	1		01/25/06 20:33
Surr: Terphenyl-d14	68.6	24-147	0	%REC	1		01/25/06 20:33

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:39

Project Supervisor: Thomas A. Alexander

235



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 20.8

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601060-001B

Client Sample ID: BH-30-S

Collection Date: 01/11/06 16:35

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3866.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		21000	170	µg/Kg-dry	10	01/25/06 8:23
1,2-Dichlorobenzene	ND		21000	150	µg/Kg-dry	10	01/25/06 8:23
1,3-Dichlorobenzene	ND		21000	100	µg/Kg-dry	10	01/25/06 8:23
1,4-Dichlorobenzene	ND		21000	120	µg/Kg-dry	10	01/25/06 8:23
2,4,5-Trichlorophenol	ND		110000	2100	µg/Kg-dry	10	01/25/06 8:23
2,4,6-Trichlorophenol	ND		21000	190	µg/Kg-dry	10	01/25/06 8:23
2,4-Dichlorophenol	ND		21000	190	µg/Kg-dry	10	01/25/06 8:23
2,4-Dimethylphenol	ND		21000	180	µg/Kg-dry	10	01/25/06 8:23
2,4-Dinitrophenol	ND		110000	3800	µg/Kg-dry	10	01/25/06 8:23
2,4-Dinitrotoluene	ND		21000	170	µg/Kg-dry	10	01/25/06 8:23
2,6-Dinitrotoluene	ND		21000	200	µg/Kg-dry	10	01/25/06 8:23
2-Chloronaphthalene	ND		21000	100	µg/Kg-dry	10	01/25/06 8:23
2-Chlorophenol	ND		21000	140	µg/Kg-dry	10	01/25/06 8:23
2-Methylnaphthalene	ND		21000	100	µg/Kg-dry	10	01/25/06 8:23
2-Methylphenol	ND		21000	130	µg/Kg-dry	10	01/25/06 8:23
2-Nitroaniline	ND		110000	220	µg/Kg-dry	10	01/25/06 8:23
2-Nitrophenol	ND		21000	240	µg/Kg-dry	10	01/25/06 8:23
3,3'-Dichlorobenzidine	ND		42000	510	µg/Kg-dry	10	01/25/06 8:23
3-Nitroaniline	ND		110000	710	µg/Kg-dry	10	01/25/06 8:23
4,6-Dinitro-2-methylphenol	ND		110000	1700	µg/Kg-dry	10	01/25/06 8:23
4-Bromophenyl phenyl ether	ND		21000	150	µg/Kg-dry	10	01/25/06 8:23
4-Chloro-3-methylphenol	ND		21000	170	µg/Kg-dry	10	01/25/06 8:23
4-Chloroaniline	ND		21000	260	µg/Kg-dry	10	01/25/06 8:23
4-Chlorophenyl phenyl ether	ND		21000	160	µg/Kg-dry	10	01/25/06 8:23
4-Methylphenol	ND		21000	120	µg/Kg-dry	10	01/25/06 8:23
4-Nitroaniline	ND		110000	350	µg/Kg-dry	10	01/25/06 8:23
4-Nitrophenol	ND		110000	830	µg/Kg-dry	10	01/25/06 8:23
Acenaphthene	ND		21000	74	µg/Kg-dry	10	01/25/06 8:23
Acenaphthylene	ND		21000	93	µg/Kg-dry	10	01/25/06 8:23
Aniline	ND		21000	260	µg/Kg-dry	10	01/25/06 8:23
Anthracene	ND		21000	85	µg/Kg-dry	10	01/25/06 8:23
Benzo[a]anthracene	ND		21000	89	µg/Kg-dry	10	01/25/06 8:23
Benzo[a]pyrene	ND		21000	100	µg/Kg-dry	10	01/25/06 8:23
Benzo[b]fluoranthene	2400 J		21000	150	µg/Kg-dry	10	01/25/06 8:23
Benzo[g,h,i]perylene	ND		21000	110	µg/Kg-dry	10	01/25/06 8:23

Qualifiers:

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 20.8

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601060-001B

Client Sample ID: BH-30-S

Collection Date: 01/11/06 16:35

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3866.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND		21000	130	µg/Kg-dry	10	01/25/06 8:23
Benzoic acid	ND		110000	6700	µg/Kg-dry	10	01/25/06 8:23
Benzyl alcohol	ND		21000	230	µg/Kg-dry	10	01/25/06 8:23
bis(2-Chloroethoxy)methane	ND		21000	80	µg/Kg-dry	10	01/25/06 8:23
bis(2-chloroethyl)ether	ND		21000	120	µg/Kg-dry	10	01/25/06 8:23
bis(2-chloroisopropyl)ether	ND		21000	120	µg/Kg-dry	10	01/25/06 8:23
bis(2-Ethylhexyl)phthalate	ND		21000	690	µg/Kg-dry	10	01/25/06 8:23
Butyl benzyl phthalate	ND		21000	140	µg/Kg-dry	10	01/25/06 8:23
Chrysene	ND		21000	99	µg/Kg-dry	10	01/25/06 8:23
Di-n-butyl phthalate	ND		21000	170	µg/Kg-dry	10	01/25/06 8:23
Di-n-octyl phthalate	ND		21000	99	µg/Kg-dry	10	01/25/06 8:23
Dibenz[a,h]anthracene	ND		21000	84	µg/Kg-dry	10	01/25/06 8:23
Dibenzofuran	ND		21000	92	µg/Kg-dry	10	01/25/06 8:23
Diethyl phthalate	ND		21000	150	µg/Kg-dry	10	01/25/06 8:23
Dimethyl phthalate	ND		21000	110	µg/Kg-dry	10	01/25/06 8:23
Fluoranthene	3500 J		21000	97	µg/Kg-dry	10	01/25/06 8:23
Fluorene	ND		21000	100	µg/Kg-dry	10	01/25/06 8:23
Hexachlorobenzene	ND		21000	170	µg/Kg-dry	10	01/25/06 8:23
Hexachlorobutadiene	ND		21000	220	µg/Kg-dry	10	01/25/06 8:23
Hexachlorocyclopentadiene	ND		21000	810	µg/Kg-dry	10	01/25/06 8:23
Hexachloroethane	ND		21000	230	µg/Kg-dry	10	01/25/06 8:23
Indeno[1,2,3-cd]pyrene	ND		21000	84	µg/Kg-dry	10	01/25/06 8:23
Isophorone	ND		21000	100	µg/Kg-dry	10	01/25/06 8:23
N-Nitroso-di-n-propylamine	ND		21000	180	µg/Kg-dry	10	01/25/06 8:23
N-Nitrosodiphenylamine	ND		21000	99	µg/Kg-dry	10	01/25/06 8:23
Naphthalene	ND		21000	63	µg/Kg-dry	10	01/25/06 8:23
Nitrobenzene	ND		21000	130	µg/Kg-dry	10	01/25/06 8:23
Pentachlorophenol	ND		110000	1700	µg/Kg-dry	10	01/25/06 8:23
Phenanthrene	3900 J		21000	75	µg/Kg-dry	10	01/25/06 8:23
Phenol	6400 J		21000	85	µg/Kg-dry	10	01/25/06 8:23
Pyrene	3700 J		21000	100	µg/Kg-dry	10	01/25/06 8:23
Surr: 2,4,6-Tribromophenol	87.1		20-143	0	%REC	10	01/25/06 8:23
Surr: 2-Fluorobiphenyl	86.5		46-130	0	%REC	10	01/25/06 8:23
Surr: 2-Fluorophenol	71.4		22-130	0	%REC	10	01/25/06 8:23
Surr: Nitrobenzene-d5	72.0		39-130	0	%REC	10	01/25/06 8:23

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:15:49 A

Sample Size: 30 g

%Moisture: 20.8

TestCode: 8270S TAGML

Lab ID: 0601060-001B

Client Sample ID: BH-30-S

Collection Date: 01/11/06 16:35

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3866.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	69.1		33-130	0	%REC	10	01/25/06 8:23
Surr: Terphenyl-d14	91.5		36-146	0	%REC	10	01/25/06 8:23

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 20.8

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601060-001B

Client Sample ID: BH-30-S

Collection Date: 01/11/06 16:35

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: 1-RA-N3956.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		21000	170	µg/Kg-dry	10	01/31/06 0:18
1,2-Dichlorobenzene	ND		21000	150	µg/Kg-dry	10	01/31/06 0:18
1,3-Dichlorobenzene	ND		21000	100	µg/Kg-dry	10	01/31/06 0:18
1,4-Dichlorobenzene	ND		21000	120	µg/Kg-dry	10	01/31/06 0:18
2,4,5-Trichlorophenol	ND		110000	2100	µg/Kg-dry	10	01/31/06 0:18
2,4,6-Trichlorophenol	ND		21000	190	µg/Kg-dry	10	01/31/06 0:18
2,4-Dichlorophenol	ND		21000	190	µg/Kg-dry	10	01/31/06 0:18
2,4-Dimethylphenol	ND		21000	180	µg/Kg-dry	10	01/31/06 0:18
2,4-Dinitrophenol	ND		110000	3800	µg/Kg-dry	10	01/31/06 0:18
2,4-Dinitrotoluene	ND		21000	170	µg/Kg-dry	10	01/31/06 0:18
2,6-Dinitrotoluene	ND		21000	200	µg/Kg-dry	10	01/31/06 0:18
2-Chloronaphthalene	ND		21000	100	µg/Kg-dry	10	01/31/06 0:18
2-Chlorophenol	ND		21000	140	µg/Kg-dry	10	01/31/06 0:18
2-Methylnaphthalene	ND		21000	100	µg/Kg-dry	10	01/31/06 0:18
2-Methylphenol	ND		21000	130	µg/Kg-dry	10	01/31/06 0:18
2-Nitroaniline	ND		110000	220	µg/Kg-dry	10	01/31/06 0:18
2-Nitrophenol	ND		21000	240	µg/Kg-dry	10	01/31/06 0:18
3,3'-Dichlorobenzidine	ND		42000	510	µg/Kg-dry	10	01/31/06 0:18
3-Nitroaniline	ND		110000	710	µg/Kg-dry	10	01/31/06 0:18
4,6-Dinitro-2-methylphenol	ND		110000	1700	µg/Kg-dry	10	01/31/06 0:18
4-Bromophenyl phenyl ether	ND		21000	150	µg/Kg-dry	10	01/31/06 0:18
4-Chloro-3-methylphenol	ND		21000	170	µg/Kg-dry	10	01/31/06 0:18
4-Chloroaniline	ND		21000	260	µg/Kg-dry	10	01/31/06 0:18
4-Chlorophenyl phenyl ether	ND		21000	160	µg/Kg-dry	10	01/31/06 0:18
4-Methylphenol	ND		21000	120	µg/Kg-dry	10	01/31/06 0:18
4-Nitroaniline	ND		110000	350	µg/Kg-dry	10	01/31/06 0:18
4-Nitrophenol	ND		110000	830	µg/Kg-dry	10	01/31/06 0:18
Acenaphthene	ND		21000	74	µg/Kg-dry	10	01/31/06 0:18
Acenaphthylene	ND		21000	93	µg/Kg-dry	10	01/31/06 0:18
Aniline	ND		21000	260	µg/Kg-dry	10	01/31/06 0:18
Anthracene	ND		21000	85	µg/Kg-dry	10	01/31/06 0:18
Benzo[a]anthracene	ND		21000	89	µg/Kg-dry	10	01/31/06 0:18
Benzo[a]pyrene	ND		21000	100	µg/Kg-dry	10	01/31/06 0:18
Benzo[b]fluoranthene	2400 J		21000	150	µg/Kg-dry	10	01/31/06 0:18
Benzo[g,h,i]perylene	ND		21000	110	µg/Kg-dry	10	01/31/06 0:18

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:37:14 A

Sample Size: 30 g

%Moisture: 20.8

TestCode: 8270S TAGML

Lab ID: 0601060-001B

Client Sample ID: BH-30-S

Collection Date: 01/11/06 16:35

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: 1-RA-N3956.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND		21000	130	µg/Kg-dry	10	01/31/06 0:18
Benzoic acid	ND		110000	6700	µg/Kg-dry	10	01/31/06 0:18
Benzyl alcohol	ND		21000	230	µg/Kg-dry	10	01/31/06 0:18
bis(2-Chloroethoxy)methane	ND		21000	80	µg/Kg-dry	10	01/31/06 0:18
bis(2-chloroethyl)ether	ND		21000	120	µg/Kg-dry	10	01/31/06 0:18
bis(2-chloroisopropyl)ether	ND		21000	120	µg/Kg-dry	10	01/31/06 0:18
bis(2-Ethylhexyl)phthalate	ND		21000	690	µg/Kg-dry	10	01/31/06 0:18
Butyl benzyl phthalate	ND		21000	140	µg/Kg-dry	10	01/31/06 0:18
Chrysene	ND		21000	99	µg/Kg-dry	10	01/31/06 0:18
Di-n-butyl phthalate	ND		21000	170	µg/Kg-dry	10	01/31/06 0:18
Di-n-octyl phthalate	ND		21000	99	µg/Kg-dry	10	01/31/06 0:18
Dibenz[a,h]anthracene	ND		21000	84	µg/Kg-dry	10	01/31/06 0:18
Dibenzofuran	ND		21000	92	µg/Kg-dry	10	01/31/06 0:18
Diethyl phthalate	ND		21000	150	µg/Kg-dry	10	01/31/06 0:18
Dimethyl phthalate	ND		21000	110	µg/Kg-dry	10	01/31/06 0:18
Fluoranthene	2900 J		21000	97	µg/Kg-dry	10	01/31/06 0:18
Fluorene	ND		21000	100	µg/Kg-dry	10	01/31/06 0:18
Hexachlorobenzene	ND		21000	170	µg/Kg-dry	10	01/31/06 0:18
Hexachlorobutadiene	ND		21000	220	µg/Kg-dry	10	01/31/06 0:18
Hexachlorocyclopentadiene	ND		21000	810	µg/Kg-dry	10	01/31/06 0:18
Hexachloroethane	ND		21000	230	µg/Kg-dry	10	01/31/06 0:18
Indeno[1,2,3-cd]pyrene	ND		21000	84	µg/Kg-dry	10	01/31/06 0:18
Isophorone	ND		21000	100	µg/Kg-dry	10	01/31/06 0:18
N-Nitroso-di-n-propylamine	ND		21000	180	µg/Kg-dry	10	01/31/06 0:18
N-Nitrosodiphenylamine	ND		21000	99	µg/Kg-dry	10	01/31/06 0:18
Naphthalene	ND		21000	63	µg/Kg-dry	10	01/31/06 0:18
Nitrobenzene	ND		21000	130	µg/Kg-dry	10	01/31/06 0:18
Pentachlorophenol	ND		110000	1700	µg/Kg-dry	10	01/31/06 0:18
Phenanthrene	3500 J		21000	75	µg/Kg-dry	10	01/31/06 0:18
Phenol	5500 J		21000	85	µg/Kg-dry	10	01/31/06 0:18
Pyrene	2900 J		21000	100	µg/Kg-dry	10	01/31/06 0:18
Surr: 2,4,6-Tribromophenol	76.4		20-143	0	%REC	10	01/31/06 0:18
Surr: 2-Fluorobiphenyl	80.0		46-130	0	%REC	10	01/31/06 0:18
Surr: 2-Fluorophenol	57.4		22-130	0	%REC	10	01/31/06 0:18
Surr: Nitrobenzene-d5	78.0		39-130	0	%REC	10	01/31/06 0:18

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:37:14 A

Sample Size: 30 g

%Moisture: 20.8

TestCode: 8270S TAGML

Lab ID: 0601060-001B

Client Sample ID: BH-30-S

Collection Date: 01/11/06 16:35

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: 1-RA-N3956.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	53.4	33-130	0	%REC	10		01/31/06 0:18
Surr: Terphenyl-d14	68.0	36-146	0	%REC	10		01/31/06 0:18

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:15:49 A

Sample Size: 30 g

%Moisture: 19.5

TestCode: 8270S TAGML

Lab ID: 0601060-002B

Client Sample ID: BH-32-S

Collection Date: 01/12/06 10:15

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3867.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		410	3.3	µg/Kg-dry	1	01/25/06 9:00
1,2-Dichlorobenzene	ND		410	2.9	µg/Kg-dry	1	01/25/06 9:00
1,3-Dichlorobenzene	ND		410	2.0	µg/Kg-dry	1	01/25/06 9:00
1,4-Dichlorobenzene	ND		410	2.3	µg/Kg-dry	1	01/25/06 9:00
2,4,5-Trichlorophenol	ND		2100	41	µg/Kg-dry	1	01/25/06 9:00
2,4,6-Trichlorophenol	ND		410	3.8	µg/Kg-dry	1	01/25/06 9:00
2,4-Dichlorophenol	ND		410	3.8	µg/Kg-dry	1	01/25/06 9:00
2,4-Dimethylphenol	ND		410	3.5	µg/Kg-dry	1	01/25/06 9:00
2,4-Dinitrophenol	ND		2100	75	µg/Kg-dry	1	01/25/06 9:00
2,4-Dinitrotoluene	ND		410	3.4	µg/Kg-dry	1	01/25/06 9:00
2,6-Dinitrotoluene	ND		410	4.0	µg/Kg-dry	1	01/25/06 9:00
2-Chloronaphthalene	ND		410	2.0	µg/Kg-dry	1	01/25/06 9:00
2-Chlorophenol	ND		410	2.7	µg/Kg-dry	1	01/25/06 9:00
2-Methylnaphthalene	ND		410	2.0	µg/Kg-dry	1	01/25/06 9:00
2-Methylphenol	ND		410	2.5	µg/Kg-dry	1	01/25/06 9:00
2-Nitroaniline	ND		2100	4.3	µg/Kg-dry	1	01/25/06 9:00
2-Nitrophenol	ND		410	4.7	µg/Kg-dry	1	01/25/06 9:00
3,3'-Dichlorobenzidine	ND		820	10	µg/Kg-dry	1	01/25/06 9:00
3-Nitroaniline	ND		2100	14	µg/Kg-dry	1	01/25/06 9:00
4,6-Dinitro-2-methylphenol	ND		2100	34	µg/Kg-dry	1	01/25/06 9:00
4-Bromophenyl phenyl ether	ND		410	2.9	µg/Kg-dry	1	01/25/06 9:00
4-Chloro-3-methylphenol	ND		410	3.3	µg/Kg-dry	1	01/25/06 9:00
4-Chloroaniline	ND		410	5.0	µg/Kg-dry	1	01/25/06 9:00
4-Chlorophenyl phenyl ether	ND		410	3.1	µg/Kg-dry	1	01/25/06 9:00
4-Methylphenol	ND		410	2.4	µg/Kg-dry	1	01/25/06 9:00
4-Nitroaniline	ND		2100	6.9	µg/Kg-dry	1	01/25/06 9:00
4-Nitrophenol	ND		2100	16	µg/Kg-dry	1	01/25/06 9:00
Acenaphthene	ND		410	1.5	µg/Kg-dry	1	01/25/06 9:00
Acenaphthylene	ND		410	1.8	µg/Kg-dry	1	01/25/06 9:00
Aniline	ND		410	5.1	µg/Kg-dry	1	01/25/06 9:00
Anthracene	ND		410	1.7	µg/Kg-dry	1	01/25/06 9:00
Benzo[a]anthracene	75 J		410	1.8	µg/Kg-dry	1	01/25/06 9:00
Benzo[a]pyrene	83 J		410	2.1	µg/Kg-dry	1	01/25/06 9:00
Benzo[b]fluoranthene	140 J		410	3.0	µg/Kg-dry	1	01/25/06 9:00
Benzo[g,h,i]perylene	48 J		410	2.1	µg/Kg-dry	1	01/25/06 9:00

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.5

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601060-002B

Client Sample ID: BH-32-S

Collection Date: 01/12/06 10:15

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3867.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	58	J	410	2.6	µg/Kg-dry	1	01/25/06 9:00
Benzoic acid	ND		2100	130	µg/Kg-dry	1	01/25/06 9:00
Benzyl alcohol	ND		410	4.6	µg/Kg-dry	1	01/25/06 9:00
bis(2-Chloroethoxy)methane	ND		410	1.6	µg/Kg-dry	1	01/25/06 9:00
bis(2-chloroethyl)ether	ND		410	2.3	µg/Kg-dry	1	01/25/06 9:00
bis(2-chloroisopropyl)ether	ND		410	2.3	µg/Kg-dry	1	01/25/06 9:00
bis(2-Ethylhexyl)phthalate	53	J	410	14	µg/Kg-dry	1	01/25/06 9:00
Butyl benzyl phthalate	ND		410	2.7	µg/Kg-dry	1	01/25/06 9:00
Chrysene	120	J	410	2.0	µg/Kg-dry	1	01/25/06 9:00
Di-n-butyl phthalate	ND		410	3.4	µg/Kg-dry	1	01/25/06 9:00
Di-n-octyl phthalate	ND		410	2.0	µg/Kg-dry	1	01/25/06 9:00
Dibenz[a,h]anthracene	ND		410	1.7	µg/Kg-dry	1	01/25/06 9:00
Dibenzofuran	ND		410	1.8	µg/Kg-dry	1	01/25/06 9:00
Diethyl phthalate	ND		410	3.0	µg/Kg-dry	1	01/25/06 9:00
Dimethyl phthalate	ND		410	2.1	µg/Kg-dry	1	01/25/06 9:00
Fluoranthene	170	J	410	1.9	µg/Kg-dry	1	01/25/06 9:00
Fluorene	ND		410	2.1	µg/Kg-dry	1	01/25/06 9:00
Hexachlorobenzene	ND		410	3.3	µg/Kg-dry	1	01/25/06 9:00
Hexachlorobutadiene	ND		410	4.4	µg/Kg-dry	1	01/25/06 9:00
Hexachlorocyclopentadiene	ND		410	16	µg/Kg-dry	1	01/25/06 9:00
Hexachloroethane	ND		410	4.4	µg/Kg-dry	1	01/25/06 9:00
Indeno[1,2,3-cd]pyrene	ND		410	1.7	µg/Kg-dry	1	01/25/06 9:00
Isophorone	ND		410	2.0	µg/Kg-dry	1	01/25/06 9:00
N-Nitroso-di-n-propylamine	ND		410	3.5	µg/Kg-dry	1	01/25/06 9:00
N-Nitrosodiphenylamine	ND		410	2.0	µg/Kg-dry	1	01/25/06 9:00
Naphthalene	ND		410	1.2	µg/Kg-dry	1	01/25/06 9:00
Nitrobenzene	ND		410	2.5	µg/Kg-dry	1	01/25/06 9:00
Pentachlorophenol	ND		2100	34	µg/Kg-dry	1	01/25/06 9:00
Phenanthrene	100	J	410	1.5	µg/Kg-dry	1	01/25/06 9:00
Phenol	ND		410	1.7	µg/Kg-dry	1	01/25/06 9:00
Pyrene	200	J	410	2.0	µg/Kg-dry	1	01/25/06 9:00
Surr: 2,4,6-Tribromophenol	90.0		20-143	0	%REC	1	01/25/06 9:00
Surr: 2-Fluorobiphenyl	76.8		46-130	0	%REC	1	01/25/06 9:00
Surr: 2-Fluorophenol	64.9		22-130	0	%REC	1	01/25/06 9:00
Surr: Nitrobenzene-d5	68.6		39-130	0	%REC	1	01/25/06 9:00

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:15:49 A

Sample Size: 30 g

%Moisture: 19.5

TestCode: 8270S TAGML

Lab ID: 0601060-002B

Client Sample ID: BH-32-S

Collection Date: 01/12/06 10:15

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3867.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	64.4	33-130	0	%REC	1		01/25/06 9:00
Surr: Terphenyl-d14	87.3	36-146	0	%REC	1		01/25/06 9:00

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.5

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601060-002B

Client Sample ID: BH-32-S

Collection Date: 01/12/06 10:15

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: I-RA-N3953.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		410	3.3	µg/Kg-dry	1	01/30/06 22:25
1,2-Dichlorobenzene	ND		410	2.9	µg/Kg-dry	1	01/30/06 22:25
1,3-Dichlorobenzene	ND		410	2.0	µg/Kg-dry	1	01/30/06 22:25
1,4-Dichlorobenzene	ND		410	2.3	µg/Kg-dry	1	01/30/06 22:25
2,4,5-Trichlorophenol	ND		2100	41	µg/Kg-dry	1	01/30/06 22:25
2,4,6-Trichlorophenol	ND		410	3.8	µg/Kg-dry	1	01/30/06 22:25
2,4-Dichlorophenol	ND		410	3.6	µg/Kg-dry	1	01/30/06 22:25
2,4-Dimethylphenol	ND		410	3.5	µg/Kg-dry	1	01/30/06 22:25
2,4-Dinitrophenol	ND		2100	75	µg/Kg-dry	1	01/30/06 22:25
2,4-Dinitrotoluene	ND		410	3.4	µg/Kg-dry	1	01/30/06 22:25
2,6-Dinitrotoluene	ND		410	4.0	µg/Kg-dry	1	01/30/06 22:25
2-Chloronaphthalene	ND		410	2.0	µg/Kg-dry	1	01/30/06 22:25
2-Chlorophenol	ND		410	2.7	µg/Kg-dry	1	01/30/06 22:25
2-Methylnaphthalene	ND		410	2.0	µg/Kg-dry	1	01/30/06 22:25
2-Methylphenol	ND		410	2.5	µg/Kg-dry	1	01/30/06 22:25
2-Nitroaniline	ND		2100	4.3	µg/Kg-dry	1	01/30/06 22:25
2-Nitrophenol	ND		410	4.7	µg/Kg-dry	1	01/30/06 22:25
3,3'-Dichlorobenzidine	ND		620	10	µg/Kg-dry	1	01/30/06 22:25
3-Nitroaniline	ND		2100	14	µg/Kg-dry	1	01/30/06 22:25
4,6-Dinitro-2-methylphenol	ND		2100	34	µg/Kg-dry	1	01/30/06 22:25
4-Bromophenyl phenyl ether	ND		410	2.9	µg/Kg-dry	1	01/30/06 22:25
4-Chloro-3-methylphenol	ND		410	3.3	µg/Kg-dry	1	01/30/06 22:25
4-Chloroaniline	ND		410	5.0	µg/Kg-dry	1	01/30/06 22:25
4-Chlorophenyl phenyl ether	ND		410	3.1	µg/Kg-dry	1	01/30/06 22:25
4-Methylphenol	ND		410	2.4	µg/Kg-dry	1	01/30/06 22:25
4-Nitroaniline	ND		2100	6.9	µg/Kg-dry	1	01/30/06 22:25
4-Nitrophenol	ND		2100	16	µg/Kg-dry	1	01/30/06 22:25
Acenaphthene	ND		410	1.5	µg/Kg-dry	1	01/30/06 22:25
Acenaphthylene	ND		410	1.8	µg/Kg-dry	1	01/30/06 22:25
Aniline	ND		410	5.1	µg/Kg-dry	1	01/30/06 22:25
Anthracene	ND		410	1.7	µg/Kg-dry	1	01/30/06 22:25
Benzo[a]anthracene	78 J		410	1.8	µg/Kg-dry	1	01/30/06 22:25
Benzo[a]pyrene	75 J		410	2.1	µg/Kg-dry	1	01/30/06 22:25
Benzo[b]fluoranthene	150 J		410	3.0	µg/Kg-dry	1	01/30/06 22:25
Benzo[g,h,i]perylene	42 J		410	2.1	µg/Kg-dry	1	01/30/06 22:25

Qualifiers:

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 19.5

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601060-002B

Client Sample ID: BH-32-S

Collection Date: 01/12/06 10:15

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: 1-RA-N3953.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	47	J	410	2.6	µg/Kg-dry	1	01/30/06 22:25
Benzoic acid	ND		2100	130	µg/Kg-dry	1	01/30/06 22:25
Benzyl alcohol	ND		410	4.6	µg/Kg-dry	1	01/30/06 22:25
bis(2-Chloroethoxy)methane	ND		410	1.6	µg/Kg-dry	1	01/30/06 22:25
bis(2-chloroethyl)ether	ND		410	2.3	µg/Kg-dry	1	01/30/06 22:25
bis(2-chloroisopropyl)ether	ND		410	2.3	µg/Kg-dry	1	01/30/06 22:25
bis(2-Ethylhexyl)phthalate	53	J	410	14	µg/Kg-dry	1	01/30/06 22:25
Butyl benzyl phthalate	ND		410	2.7	µg/Kg-dry	1	01/30/06 22:25
Chrysene	100	J	410	2.0	µg/Kg-dry	1	01/30/06 22:25
Di-n-butyl phthalate	42	J	410	3.4	µg/Kg-dry	1	01/30/06 22:25
Di-n-octyl phthalate	ND		410	2.0	µg/Kg-dry	1	01/30/06 22:25
Dibenz[a,h]anthracene	ND		410	1.7	µg/Kg-dry	1	01/30/06 22:25
Dibenzofuran	ND		410	1.8	µg/Kg-dry	1	01/30/06 22:25
Diethyl phthalate	ND		410	3.0	µg/Kg-dry	1	01/30/06 22:25
Dimethyl phthalate	ND		410	2.1	µg/Kg-dry	1	01/30/06 22:25
Fluoranthene	170	J	410	1.9	µg/Kg-dry	1	01/30/06 22:25
Fluorene	ND		410	2.1	µg/Kg-dry	1	01/30/06 22:25
Hexachlorobenzene	ND		410	3.3	µg/Kg-dry	1	01/30/06 22:25
Hexachlorobutadiene	ND		410	4.4	µg/Kg-dry	1	01/30/06 22:25
Hexachlorocyclopentadiene	ND		410	16	µg/Kg-dry	1	01/30/06 22:25
Hexachloroethane	ND		410	4.4	µg/Kg-dry	1	01/30/06 22:25
Indeno[1,2,3-cd]pyrene	ND		410	1.7	µg/Kg-dry	1	01/30/06 22:25
Isophorone	ND		410	2.0	µg/Kg-dry	1	01/30/06 22:25
N-Nitroso-di-n-propylamine	ND		410	3.5	µg/Kg-dry	1	01/30/06 22:25
N-Nitrosodiphenylamine	ND		410	2.0	µg/Kg-dry	1	01/30/06 22:25
Naphthalene	ND		410	1.2	µg/Kg-dry	1	01/30/06 22:25
Nitrobenzene	ND		410	2.5	µg/Kg-dry	1	01/30/06 22:25
Pentachlorophenol	ND		2100	34	µg/Kg-dry	1	01/30/06 22:25
Phenanthrene	96	J	410	1.5	µg/Kg-dry	1	01/30/06 22:25
Phenol	ND		410	1.7	µg/Kg-dry	1	01/30/06 22:25
Pyrene	140	J	410	2.0	µg/Kg-dry	1	01/30/06 22:25
Surr: 2,4,6-Tribromophenol	106		20-143	0	%REC	1	01/30/06 22:25
Surr: 2-Fluorobiphenyl	83.0		46-130	0	%REC	1	01/30/06 22:25
Surr: 2-Fluorophenol	62.8		22-130	0	%REC	1	01/30/06 22:25
Surr: Nitrobenzene-d5	69.2		39-130	0	%REC	1	01/30/06 22:25

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:37:14 A

Sample Size: 30 g

%Moisture: 19.5

TestCode: 8270S TAGML

Lab ID: 0601060-002B

Client Sample ID: BH-32-S

Collection Date: 01/12/06 10:15

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: 1-RA-N3953.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	60.0	33-130	0		%REC	1	01/30/06 22:25
Surr: Terphenyl-d14	73.1	36-146	0		%REC	1	01/30/06 22:25

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 15.1

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601060-003B

Client Sample ID: BH-32-D

Collection Date: 01/12/06 10:30

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3868.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		390	3.1	µg/Kg-dry	1	01/25/06 9:38
1,2-Dichlorobenzene	ND		390	2.8	µg/Kg-dry	1	01/25/06 9:38
1,3-Dichlorobenzene	ND		390	1.9	µg/Kg-dry	1	01/25/06 9:38
1,4-Dichlorobenzene	ND		390	2.2	µg/Kg-dry	1	01/25/06 9:38
2,4,5-Trichlorophenol	ND		2000	39	µg/Kg-dry	1	01/25/06 9:38
2,4,6-Trichlorophenol	ND		390	3.6	µg/Kg-dry	1	01/25/06 9:38
2,4-Dichlorophenol	ND		390	3.6	µg/Kg-dry	1	01/25/06 9:38
2,4-Dimethylphenol	ND		390	3.3	µg/Kg-dry	1	01/25/06 9:38
2,4-Dinitrophenol	ND		2000	71	µg/Kg-dry	1	01/25/06 9:38
2,4-Dinitrotoluene	ND		390	3.3	µg/Kg-dry	1	01/25/06 9:38
2,6-Dinitrotoluene	ND		390	3.8	µg/Kg-dry	1	01/25/06 9:38
2-Chloronaphthalene	ND		390	1.9	µg/Kg-dry	1	01/25/06 9:38
2-Chlorophenol	ND		390	2.6	µg/Kg-dry	1	01/25/06 9:38
2-Methylnaphthalene	ND		390	1.9	µg/Kg-dry	1	01/25/06 9:38
2-Methylphenol	ND		390	2.4	µg/Kg-dry	1	01/25/06 9:38
2-Nitroaniline	ND		2000	4.1	µg/Kg-dry	1	01/25/06 9:38
2-Nitrophenol	ND		390	4.5	µg/Kg-dry	1	01/25/06 9:38
3,3'-Dichlorobenzidine	ND		780	9.6	µg/Kg-dry	1	01/25/06 9:38
3-Nitroaniline	ND		2000	13	µg/Kg-dry	1	01/25/06 9:38
4,6-Dinitro-2-methylphenol	ND		2000	32	µg/Kg-dry	1	01/25/06 9:38
4-Bromophenyl phenyl ether	ND		390	2.7	µg/Kg-dry	1	01/25/06 9:38
4-Chloro-3-methylphenol	ND		390	3.1	µg/Kg-dry	1	01/25/06 9:38
4-Chloroaniline	ND		390	4.8	µg/Kg-dry	1	01/25/06 9:38
4-Chlorophenyl phenyl ether	ND		390	3.0	µg/Kg-dry	1	01/25/06 9:38
4-Methylphenol	ND		390	2.2	µg/Kg-dry	1	01/25/06 9:38
4-Nitroaniline	ND		2000	6.5	µg/Kg-dry	1	01/25/06 9:38
4-Nitrophenol	ND		2000	16	µg/Kg-dry	1	01/25/06 9:38
Acenaphthene	ND		390	1.4	µg/Kg-dry	1	01/25/06 9:38
Acenaphthylene	ND		390	1.7	µg/Kg-dry	1	01/25/06 9:38
Aniline	ND		390	4.8	µg/Kg-dry	1	01/25/06 9:38
Anthracene	ND		390	1.6	µg/Kg-dry	1	01/25/06 9:38
Benzo[a]anthracene	70 J		390	1.7	µg/Kg-dry	1	01/25/06 9:38
Benzo[a]pyrene	81 J		390	1.9	µg/Kg-dry	1	01/25/06 9:38
Benzo[b]fluoranthene	140 J		390	2.8	µg/Kg-dry	1	01/25/06 9:38
Benzo[g,h,i]perylene	ND		390	2.0	µg/Kg-dry	1	01/25/06 9:38

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

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Project Supervisor: Thomas A. Alexander



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Analytical Results

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CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 15.1

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601060-003B

Client Sample ID: BH-32-D

Collection Date: 01/12/06 10:30

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3868.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	46	J	390	2.5	µg/Kg-dry	1	01/25/06 9:38
Benzoic acid	ND		2000	120	µg/Kg-dry	1	01/25/06 9:38
Benzyl alcohol	ND		390	4.3	µg/Kg-dry	1	01/25/06 9:38
bis(2-Chloroethoxy)methane	ND		390	1.5	µg/Kg-dry	1	01/25/06 9:38
bis(2-chloroethyl)ether	ND		390	2.2	µg/Kg-dry	1	01/25/06 9:38
bis(2-chloroisopropyl)ether	ND		390	2.2	µg/Kg-dry	1	01/25/06 9:38
bis(2-Ethylhexyl)phthalate	ND		390	13	µg/Kg-dry	1	01/25/06 9:38
Butyl benzyl phthalate	ND		390	2.6	µg/Kg-dry	1	01/25/06 9:38
Chrysene	86	J	390	1.8	µg/Kg-dry	1	01/25/06 9:38
DI-n-butyl phthalate	ND		390	3.2	µg/Kg-dry	1	01/25/06 9:38
DI-n-octyl phthalate	ND		390	1.8	µg/Kg-dry	1	01/25/06 9:38
Dibenz[a,h]anthracene	ND		390	1.6	µg/Kg-dry	1	01/25/06 9:38
Dibenzofuran	ND		390	1.7	µg/Kg-dry	1	01/25/06 9:38
Diethyl phthalate	ND		390	2.8	µg/Kg-dry	1	01/25/06 9:38
Dimethyl phthalate	ND		390	2.0	µg/Kg-dry	1	01/25/06 9:38
Fluoranthene	100	J	390	1.8	µg/Kg-dry	1	01/25/06 9:38
Fluorene	ND		390	1.9	µg/Kg-dry	1	01/25/06 9:38
Hexachlorobenzene	ND		390	3.1	µg/Kg-dry	1	01/25/06 9:38
Hexachlorobutadiene	ND		390	4.1	µg/Kg-dry	1	01/25/06 9:38
Hexachlorocyclopentadiene	ND		390	15	µg/Kg-dry	1	01/25/06 9:38
Hexachloroethane	ND		390	4.2	µg/Kg-dry	1	01/25/06 9:38
Indeno[1,2,3-cd]pyrene	ND		390	1.6	µg/Kg-dry	1	01/25/06 9:38
Isophorone	ND		390	1.9	µg/Kg-dry	1	01/25/06 9:38
N-Nitroso-di-n-propylamine	ND		390	3.3	µg/Kg-dry	1	01/25/06 9:38
N-Nitrosodiphenylamine	ND		390	1.8	µg/Kg-dry	1	01/25/06 9:38
Naphthalene	ND		390	1.2	µg/Kg-dry	1	01/25/06 9:38
Nitrobenzene	ND		390	2.3	µg/Kg-dry	1	01/25/06 9:38
Pentachlorophenol	ND		2000	32	µg/Kg-dry	1	01/25/06 9:38
Phenanthrene	47	J	390	1.4	µg/Kg-dry	1	01/25/06 9:38
Phenol	ND		390	1.6	µg/Kg-dry	1	01/25/06 9:38
Pyrene	120	J	390	1.9	µg/Kg-dry	1	01/25/06 9:38
Surr: 2,4,6-Tribromophenol	91.0		20-143	0	%REC	1	01/25/06 9:38
Surr: 2-Fluorobiphenyl	77.9		46-130	0	%REC	1	01/25/06 9:38
Surr: 2-Fluorophenol	64.5		22-130	0	%REC	1	01/25/06 9:38
Surr: Nitrobenzene-d5	68.8		39-130	0	%REC	1	01/25/06 9:38

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 15.1

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601060-003B

Client Sample ID: BH-32-D

Collection Date: 01/12/06 10:30

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3868.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	65.2	33-130	0		%REC	1	01/25/06 9:38
Surr: Terphenyl-d14	83.2	36-146	0		%REC	1	01/25/06 9:38

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

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Analytical Results

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CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 15.1

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601060-003B

Client Sample ID: BH-32-D

Collection Date: 01/12/06 10:30

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: 1-RA-N3951.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		390	3.1	µg/Kg-dry	1	01/30/06 21:10
1,2-Dichlorobenzene	ND		390	2.8	µg/Kg-dry	1	01/30/06 21:10
1,3-Dichlorobenzene	ND		390	1.9	µg/Kg-dry	1	01/30/06 21:10
1,4-Dichlorobenzene	ND		390	2.2	µg/Kg-dry	1	01/30/06 21:10
2,4,5-Trichlorophenol	ND		2000	39	µg/Kg-dry	1	01/30/06 21:10
2,4,6-Trichlorophenol	ND		390	3.6	µg/Kg-dry	1	01/30/06 21:10
2,4-Dichlorophenol	ND		390	3.6	µg/Kg-dry	1	01/30/06 21:10
2,4-Dimethylphenol	ND		390	3.3	µg/Kg-dry	1	01/30/06 21:10
2,4-Dinitrophenol	ND		2000	71	µg/Kg-dry	1	01/30/06 21:10
2,4-Dinitrotoluene	ND		390	3.3	µg/Kg-dry	1	01/30/06 21:10
2,6-Dinitrotoluene	ND		390	3.8	µg/Kg-dry	1	01/30/06 21:10
2-Chloronaphthalene	ND		390	1.9	µg/Kg-dry	1	01/30/06 21:10
2-Chlorophenol	ND		390	2.6	µg/Kg-dry	1	01/30/06 21:10
2-Methylnaphthalene	ND		390	1.9	µg/Kg-dry	1	01/30/06 21:10
2-Methylphenol	ND		390	2.4	µg/Kg-dry	1	01/30/06 21:10
2-Nitroaniline	ND		2000	4.1	µg/Kg-dry	1	01/30/06 21:10
2-Nitrophenol	ND		390	4.5	µg/Kg-dry	1	01/30/06 21:10
3,3'-Dichlorobenzidine	ND		780	9.6	µg/Kg-dry	1	01/30/06 21:10
3-Nitroaniline	ND		2000	13	µg/Kg-dry	1	01/30/06 21:10
4,6-Dinitro-2-methylphenol	ND		2000	32	µg/Kg-dry	1	01/30/06 21:10
4-Bromophenyl phenyl ether	ND		390	2.7	µg/Kg-dry	1	01/30/06 21:10
4-Chloro-3-methylphenol	ND		390	3.1	µg/Kg-dry	1	01/30/06 21:10
4-Chloroaniline	ND		390	4.8	µg/Kg-dry	1	01/30/06 21:10
4-Chlorophenyl phenyl ether	ND		390	3.0	µg/Kg-dry	1	01/30/06 21:10
4-Methylphenol	ND		390	2.2	µg/Kg-dry	1	01/30/06 21:10
4-Nitroaniline	ND		2000	6.5	µg/Kg-dry	1	01/30/06 21:10
4-Nitrophenol	ND		2000	16	µg/Kg-dry	1	01/30/06 21:10
Acenaphthene	ND		390	1.4	µg/Kg-dry	1	01/30/06 21:10
Acenaphthylene	ND		390	1.7	µg/Kg-dry	1	01/30/06 21:10
Aniline	ND		390	4.8	µg/Kg-dry	1	01/30/06 21:10
Anthracene	ND		390	1.6	µg/Kg-dry	1	01/30/06 21:10
Benzo[a]anthracene	71 J		390	1.7	µg/Kg-dry	1	01/30/06 21:10
Benzo[a]pyrene	73 J		390	1.9	µg/Kg-dry	1	01/30/06 21:10
Benzo[b]fluoranthene	120 J		390	2.8	µg/Kg-dry	1	01/30/06 21:10
Benzo[g,h,i]perylene	ND		390	2.0	µg/Kg-dry	1	01/30/06 21:10

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:37:14 A

Sample Size: 30 g

%Moisture: 15.1

TestCode: 8270S TAGML

Lab ID: 0601060-003B

Client Sample ID: BH-32-D

Collection Date: 01/12/06 10:30

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: 1-RA-N3951.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	ND		390	2.5	µg/Kg-dry	1	01/30/06 21:10
Benzoic acid	ND		2000	120	µg/Kg-dry	1	01/30/06 21:10
Benzyl alcohol	ND		390	4.3	µg/Kg-dry	1	01/30/06 21:10
bis(2-Chloroethoxy)methane	ND		390	1.5	µg/Kg-dry	1	01/30/06 21:10
bis(2-chloroethyl)ether	ND		390	2.2	µg/Kg-dry	1	01/30/06 21:10
bis(2-chloroisopropyl)ether	ND		390	2.2	µg/Kg-dry	1	01/30/06 21:10
bis(2-Ethylhexyl)phthalate	ND		390	13	µg/Kg-dry	1	01/30/06 21:10
Butyl benzyl phthalate	ND		390	2.6	µg/Kg-dry	1	01/30/06 21:10
Chrysene	79 J		390	1.8	µg/Kg-dry	1	01/30/06 21:10
Di-n-butyl phthalate	ND		390	3.2	µg/Kg-dry	1	01/30/06 21:10
Di-n-octyl phthalate	ND		390	1.8	µg/Kg-dry	1	01/30/06 21:10
Dibenz[a,h]anthracene	ND		390	1.6	µg/Kg-dry	1	01/30/06 21:10
Dibenzofuran	ND		390	1.7	µg/Kg-dry	1	01/30/06 21:10
Diethyl phthalate	ND		390	2.8	µg/Kg-dry	1	01/30/06 21:10
Dimethyl phthalate	ND		390	2.0	µg/Kg-dry	1	01/30/06 21:10
Fluoranthene	95 J		390	1.8	µg/Kg-dry	1	01/30/06 21:10
Fluorene	ND		390	1.9	µg/Kg-dry	1	01/30/06 21:10
Hexachlorobenzene	ND		390	3.1	µg/Kg-dry	1	01/30/06 21:10
Hexachlorobutadiene	ND		390	4.1	µg/Kg-dry	1	01/30/06 21:10
Hexachlorocyclopentadiene	ND		390	15	µg/Kg-dry	1	01/30/06 21:10
Hexachloroethane	ND		390	4.2	µg/Kg-dry	1	01/30/06 21:10
Indeno[1,2,3-cd]pyrene	ND		390	1.6	µg/Kg-dry	1	01/30/06 21:10
Isophorone	ND		390	1.9	µg/Kg-dry	1	01/30/06 21:10
N-Nitroso-di-n-propylamine	ND		390	3.3	µg/Kg-dry	1	01/30/06 21:10
N-Nitrosodiphenylamine	ND		390	1.8	µg/Kg-dry	1	01/30/06 21:10
Naphthalene	ND		390	1.2	µg/Kg-dry	1	01/30/06 21:10
Nitrobenzene	ND		390	2.3	µg/Kg-dry	1	01/30/06 21:10
Pentachlorophenol	ND		2000	32	µg/Kg-dry	1	01/30/06 21:10
Phenanthrene	49 J		390	1.4	µg/Kg-dry	1	01/30/06 21:10
Phenol	ND		390	1.6	µg/Kg-dry	1	01/30/06 21:10
Pyrene	90 J		390	1.9	µg/Kg-dry	1	01/30/06 21:10
Surr: 2,4,6-Tribromophenol	105		20-143	0	%REC	1	01/30/06 21:10
Surr: 2-Fluorobiphenyl	87.1		46-130	0	%REC	1	01/30/06 21:10
Surr: 2-Fluorophenol	62.2		22-130	0	%REC	1	01/30/06 21:10
Surr: Nitrobenzene-d5	73.5		39-130	0	%REC	1	01/30/06 21:10

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:37:14 A

Sample Size: 30 g

%Moisture: 15.1

TestCode: 8270S TAGML

Lab ID: 0601060-003B

Client Sample ID: BH-32-D

Collection Date: 01/12/06 10:30

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: 1-RA-N3951.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Sum: Phenol-d5	59.9	33-130	0	%REC	1		01/30/06 21:10
Sum: Terphenyl-d14	71.6	38-146	0	%REC	1		01/30/06 21:10

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:15:49 A

Sample Size: 30 g

%Moisture: 14.6

TestCode: 8270S TAGML

Lab ID: 0601060-004B

Client Sample ID: BH-33-S

Collection Date: 01/12/06 10:45

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3869.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		390	3.1	µg/Kg-dry	1	01/25/06 10:15
1,2-Dichlorobenzene	ND		390	2.7	µg/Kg-dry	1	01/25/06 10:15
1,3-Dichlorobenzene	ND		390	1.8	µg/Kg-dry	1	01/25/06 10:15
1,4-Dichlorobenzene	ND		390	2.2	µg/Kg-dry	1	01/25/06 10:15
2,4,5-Trichlorophenol	ND		2000	38	µg/Kg-dry	1	01/25/06 10:15
2,4,6-Trichlorophenol	ND		390	3.6	µg/Kg-dry	1	01/25/06 10:15
2,4-Dichlorophenol	ND		390	3.6	µg/Kg-dry	1	01/25/06 10:15
2,4-Dimethylphenol	ND		390	3.3	µg/Kg-dry	1	01/25/06 10:15
2,4-Dinitrophenol	ND		2000	71	µg/Kg-dry	1	01/25/06 10:15
2,4-Dinitrotoluene	ND		390	3.2	µg/Kg-dry	1	01/25/06 10:15
2,6-Dinitrotoluene	ND		390	3.7	µg/Kg-dry	1	01/25/06 10:15
2-Chloronaphthalene	ND		390	1.8	µg/Kg-dry	1	01/25/06 10:15
2-Chlorophenol	ND		390	2.5	µg/Kg-dry	1	01/25/06 10:15
2-Methylnaphthalene	210 J		390	1.9	µg/Kg-dry	1	01/25/06 10:15
2-Methylphenol	ND		390	2.4	µg/Kg-dry	1	01/25/06 10:15
2-Nitroaniline	ND		2000	4.1	µg/Kg-dry	1	01/25/06 10:15
2-Nitrophenol	ND		390	4.4	µg/Kg-dry	1	01/25/06 10:15
3,3'-Dichlorobenzidine	ND		770	9.5	µg/Kg-dry	1	01/25/06 10:15
3-Nitroaniline	ND		2000	13	µg/Kg-dry	1	01/25/06 10:15
4,6-Dinitro-2-methylphenol	ND		2000	32	µg/Kg-dry	1	01/25/06 10:15
4-Bromophenyl phenyl ether	ND		390	2.7	µg/Kg-dry	1	01/25/06 10:15
4-Chloro-3-methylphenol	ND		390	3.1	µg/Kg-dry	1	01/25/06 10:15
4-Chloroaniline	ND		390	4.7	µg/Kg-dry	1	01/25/06 10:15
4-Chlorophenyl phenyl ether	ND		390	3.0	µg/Kg-dry	1	01/25/06 10:15
4-Methylphenol	ND		390	2.2	µg/Kg-dry	1	01/25/06 10:15
4-Nitroaniline	ND		2000	6.5	µg/Kg-dry	1	01/25/06 10:15
4-Nitrophenol	ND		2000	15	µg/Kg-dry	1	01/25/06 10:15
Acenaphthene	420		390	1.4	µg/Kg-dry	1	01/25/06 10:15
Acenaphthylene	170 J		390	1.7	µg/Kg-dry	1	01/25/06 10:15
Aniline	ND		390	4.8	µg/Kg-dry	1	01/25/06 10:15
Anthracene	1100		390	1.6	µg/Kg-dry	1	01/25/06 10:15
Benzo[a]anthracene	2800		390	1.7	µg/Kg-dry	1	01/25/06 10:15
Benzo[a]pyrene	2300		390	1.9	µg/Kg-dry	1	01/25/06 10:15
Benzo[b]fluoranthene	3400		390	2.8	µg/Kg-dry	1	01/25/06 10:15
Benzo[g,h,i]perylene	880		390	2.0	µg/Kg-dry	1	01/25/06 10:15

Qualifiers: B Analyte detected in the associated Method Blank E Value exceeds the instrument calibration range
H Holding times for preparation or analysis exceeded J Analyte detected below the PQL
ND Not Detected at the Practical Quantitation Limit (PQL) P Prim./Conf. column %D or RPD exceeds limit
S Spike Recovery outside accepted recovery limits



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 14.6

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601060-004B

Client Sample ID: BH-33-S

Collection Date: 01/12/06 10:45

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3869.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	1200	390		2.5	µg/Kg-dry	1	01/25/06 10:15
Benzoic acid	ND	2000		120	µg/Kg-dry	1	01/25/06 10:15
Benzyl alcohol	ND	390		4.3	µg/Kg-dry	1	01/25/06 10:15
bis(2-Chloroethoxy)methane	ND	390		1.5	µg/Kg-dry	1	01/25/06 10:15
bis(2-chloroethyl)ether	ND	390		2.2	µg/Kg-dry	1	01/25/06 10:15
bis(2-chloroisopropyl)ether	ND	390		2.2	µg/Kg-dry	1	01/25/06 10:15
bis(2-Ethylhexyl)phthalate	92 J	390		13	µg/Kg-dry	1	01/25/06 10:15
Butyl benzyl phthalate	ND	390		2.5	µg/Kg-dry	1	01/25/06 10:15
Chrysene	2400	390		1.8	µg/Kg-dry	1	01/25/06 10:15
Di-n-butyl phthalate	59 J	390		3.2	µg/Kg-dry	1	01/25/06 10:15
Di-n-octyl phthalate	ND	390		1.8	µg/Kg-dry	1	01/25/06 10:15
Dibenz[a,h]anthracene	330 J	390		1.6	µg/Kg-dry	1	01/25/06 10:15
Dibenzofuran	300 J	390		1.7	µg/Kg-dry	1	01/25/06 10:15
Diethyl phthalate	ND	390		2.8	µg/Kg-dry	1	01/25/06 10:15
Dimethyl phthalate	ND	390		2.0	µg/Kg-dry	1	01/25/06 10:15
Fluoranthene	4400	390		1.8	µg/Kg-dry	1	01/25/06 10:15
Fluorene	440	390		1.9	µg/Kg-dry	1	01/25/06 10:15
Hexachlorobenzene	ND	390		3.1	µg/Kg-dry	1	01/25/06 10:15
Hexachlorobutadiene	ND	390		4.1	µg/Kg-dry	1	01/25/06 10:15
Hexachlorocyclopentadiene	ND	390		15	µg/Kg-dry	1	01/25/06 10:15
Hexachloroethane	ND	390		4.2	µg/Kg-dry	1	01/25/06 10:15
Indeno[1,2,3-cd]pyrene	470	390		1.6	µg/Kg-dry	1	01/25/06 10:15
Isophorone	ND	390		1.9	µg/Kg-dry	1	01/25/06 10:15
N-Nitroso-di-n-propylamine	ND	390		3.3	µg/Kg-dry	1	01/25/06 10:15
N-Nitrosodiphenylamine	ND	390		1.8	µg/Kg-dry	1	01/25/06 10:15
Naphthalene	310 J	390		1.2	µg/Kg-dry	1	01/25/06 10:15
Nitrobenzene	ND	390		2.3	µg/Kg-dry	1	01/25/06 10:15
Pentachlorophenol	ND	2000		32	µg/Kg-dry	1	01/25/06 10:15
Phenanthrene	2900	390		1.4	µg/Kg-dry	1	01/25/06 10:15
Phenol	ND	390		1.6	µg/Kg-dry	1	01/25/06 10:15
Pyrene	5200	390		1.9	µg/Kg-dry	1	01/25/06 10:15
Surr: 2,4,6-Tribromophenol	83.9	20-143		0	%REC	1	01/25/06 10:15
Surr: 2-Fluorobiphenyl	74.0	46-130		0	%REC	1	01/25/06 10:15
Surr: 2-Fluorophenol	58.5	22-130		0	%REC	1	01/25/06 10:15
Surr: Nitrobenzene-d5	61.0	39-130		0	%REC	1	01/25/06 10:15

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander

255



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 14.6

Revision: 01/31/06 10:15:49 A

TestCode: 8270S TAGML

Lab ID: 0601060-004B

Client Sample ID: BH-33-S

Collection Date: 01/12/06 10:45

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4377

FileID: 1-SAMP-N3869.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	60.1		33-130	0	%REC	1	01/25/06 10:15
Surr: Terphenyl-d14	93.8		36-146	0	%REC	1	01/25/06 10:15

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded.
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander



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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 14.6

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601060-004B

Client Sample ID: BH-33-S

Collection Date: 01/12/06 10:45

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: 1-RA-N3958.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
1,2,4-Trichlorobenzene	ND		390	3.1	µg/Kg-dry	1	01/31/06 1:33
1,2-Dichlorobenzene	ND		390	2.7	µg/Kg-dry	1	01/31/06 1:33
1,3-Dichlorobenzene	ND		390	1.8	µg/Kg-dry	1	01/31/06 1:33
1,4-Dichlorobenzene	ND		390	2.2	µg/Kg-dry	1	01/31/06 1:33
2,4,5-Trichlorophenol	ND		2000	38	µg/Kg-dry	1	01/31/06 1:33
2,4,6-Trichlorophenol	ND		390	3.6	µg/Kg-dry	1	01/31/06 1:33
2,4-Dichlorophenol	ND		390	3.6	µg/Kg-dry	1	01/31/06 1:33
2,4-Dimethylphenol	ND		390	3.3	µg/Kg-dry	1	01/31/06 1:33
2,4-Dinitrophenol	ND		2000	71	µg/Kg-dry	1	01/31/06 1:33
2,4-Dinitrotoluene	ND		390	3.2	µg/Kg-dry	1	01/31/06 1:33
2,6-Dinitrotoluene	ND		390	3.7	µg/Kg-dry	1	01/31/06 1:33
2-Chloronaphthalene	ND		390	1.8	µg/Kg-dry	1	01/31/06 1:33
2-Chlorophenol	ND		390	2.5	µg/Kg-dry	1	01/31/06 1:33
2-Methylnaphthalene	180 J		390	1.9	µg/Kg-dry	1	01/31/06 1:33
2-Methylphenol	ND		390	2.4	µg/Kg-dry	1	01/31/06 1:33
2-Nitroaniline	ND		2000	4.1	µg/Kg-dry	1	01/31/06 1:33
2-Nitrophenol	ND		390	4.4	µg/Kg-dry	1	01/31/06 1:33
3,3'-Dichlorobenzidine	ND		770	9.5	µg/Kg-dry	1	01/31/06 1:33
3-Nitroaniline	ND		2000	13	µg/Kg-dry	1	01/31/06 1:33
4,6-Dinitro-2-methylphenol	ND		2000	32	µg/Kg-dry	1	01/31/06 1:33
4-Bromophenyl phenyl ether	ND		390	2.7	µg/Kg-dry	1	01/31/06 1:33
4-Chloro-3-methylphenol	ND		390	3.1	µg/Kg-dry	1	01/31/06 1:33
4-Chloroaniline	ND		390	4.7	µg/Kg-dry	1	01/31/06 1:33
4-Chlorophenyl phenyl ether	ND		390	3.0	µg/Kg-dry	1	01/31/06 1:33
4-Methylphenol	ND		390	2.2	µg/Kg-dry	1	01/31/06 1:33
4-Nitroaniline	ND		2000	6.5	µg/Kg-dry	1	01/31/06 1:33
4-Nitrophenol	ND		2000	15	µg/Kg-dry	1	01/31/06 1:33
Acenaphthene	400		390	1.4	µg/Kg-dry	1	01/31/06 1:33
Acenaphthylene	150 J		390	1.7	µg/Kg-dry	1	01/31/06 1:33
Aniline	ND		390	4.8	µg/Kg-dry	1	01/31/06 1:33
Anthracene	1100		390	1.6	µg/Kg-dry	1	01/31/06 1:33
Benzo[a]anthracene	2700		390	1.7	µg/Kg-dry	1	01/31/06 1:33
Benzo[a]pyrene	2300		390	1.9	µg/Kg-dry	1	01/31/06 1:33
Benzo[b]fluoranthene	3200		390	2.8	µg/Kg-dry	1	01/31/06 1:33
Benzo[g,h,i]perylene	790		390	2.0	µg/Kg-dry	1	01/31/06 1:33

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prin./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

ColumnID: ZB-5

Revision: 01/31/06 10:37:14 A

Sample Size: 30 g

%Moisture: 14.6

TestCode: 8270S TAGML

Lab ID: 0601060-004B

Client Sample ID: BH-33-S

Collection Date: 01/12/06 10:45

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: 1-RA-N3958.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C	(SW3550B)		
Benzo[k]fluoranthene	1200		390	2.5	µg/Kg-dry	1	01/31/06 1:33
Benzoic acid	ND		2000	120	µg/Kg-dry	1	01/31/06 1:33
Benzyl alcohol	ND		390	4.3	µg/Kg-dry	1	01/31/06 1:33
bis(2-Chloroethoxy)methane	ND		390	1.5	µg/Kg-dry	1	01/31/06 1:33
bis(2-chloroethyl)ether	ND		390	2.2	µg/Kg-dry	1	01/31/06 1:33
bis(2-chloroisopropyl)ether	ND		390	2.2	µg/Kg-dry	1	01/31/06 1:33
bis(2-Ethylhexyl)phthalate	76 J		390	13	µg/Kg-dry	1	01/31/06 1:33
Butyl benzyl phthalate	ND		390	2.5	µg/Kg-dry	1	01/31/06 1:33
Chrysene	2200		390	1.8	µg/Kg-dry	1	01/31/06 1:33
Di-n-butyl phthalate	57 J		390	3.2	µg/Kg-dry	1	01/31/06 1:33
Di-n-octyl phthalate	ND		390	1.8	µg/Kg-dry	1	01/31/06 1:33
Dibenz[a,h]anthracene	290 J		390	1.6	µg/Kg-dry	1	01/31/06 1:33
Dibenzofuran	270 J		390	1.7	µg/Kg-dry	1	01/31/06 1:33
Diethyl phthalate	ND		390	2.8	µg/Kg-dry	1	01/31/06 1:33
Dimethyl phthalate	ND		390	2.0	µg/Kg-dry	1	01/31/06 1:33
Fluoranthene	5400		390	1.8	µg/Kg-dry	1	01/31/06 1:33
Fluorene	440		390	1.9	µg/Kg-dry	1	01/31/06 1:33
Hexachlorobenzene	ND		390	3.1	µg/Kg-dry	1	01/31/06 1:33
Hexachlorobutadiene	ND		390	4.1	µg/Kg-dry	1	01/31/06 1:33
Hexachlorocyclopentadiene	ND		390	15	µg/Kg-dry	1	01/31/06 1:33
Hexachloroethane	ND		390	4.2	µg/Kg-dry	1	01/31/06 1:33
Indeno[1,2,3-cd]pyrene	440		390	1.6	µg/Kg-dry	1	01/31/06 1:33
Isophorone	ND		390	1.9	µg/Kg-dry	1	01/31/06 1:33
N-Nitroso-di-n-propylamine	ND		390	3.3	µg/Kg-dry	1	01/31/06 1:33
N-Nitrosodiphenylamine	ND		390	1.8	µg/Kg-dry	1	01/31/06 1:33
Naphthalene	280 J		390	1.2	µg/Kg-dry	1	01/31/06 1:33
Nitrobenzene	ND		390	2.3	µg/Kg-dry	1	01/31/06 1:33
Pentachlorophenol	ND		2000	32	µg/Kg-dry	1	01/31/06 1:33
Phenanthrene	3300		390	1.4	µg/Kg-dry	1	01/31/06 1:33
Phenol	ND		390	1.6	µg/Kg-dry	1	01/31/06 1:33
Pyrene	5100		390	1.9	µg/Kg-dry	1	01/31/06 1:33
Surr: 2,4,6-Tribromophenol	90.3		20-143	0	%REC	1	01/31/06 1:33
Surr: 2-Fluorobiphenyl	83.3		46-130	0	%REC	1	01/31/06 1:33
Surr: 2-Fluorophenol	55.1		22-130	0	%REC	1	01/31/06 1:33
Surr: Nitrobenzene-d5	63.1		39-130	0	%REC	1	01/31/06 1:33

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: MS05 26

Sample Size: 30 g

ColumnID: ZB-5

%Moisture: 14.6

Revision: 01/31/06 10:37:14 A

TestCode: 8270S TAGML

Lab ID: 0601060-004B

Client Sample ID: BH-33-S

Collection Date: 01/12/06 10:45

Date Received: 01/12/06 15:35

PrepDate: 01/17/06 12:00 A

BatchNo: 2379/R4381

FileID: 1-RA-N3958.D

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
SEMIVOLATILE ORGANIC COMPOUNDS BY GC/MS				SW8270C		(SW3550B)	
Surr: Phenol-d5	55.7	33-130	0	%REC	1		01/31/06 1:33
Surr: Terphenyl-d14	82.8	36-146	0	%REC	1		01/31/06 1:33

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 11:40

Project Supervisor: Thomas A. Alexander

Life Science Laboratories, Inc.

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ANALYTICAL QC SUMMARY REPORT

Method: SW6010B

Work Order: 0601050

Project: Geneva Foundry

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: 0601050-001BMS SampType: MS TestCode: 6010S Units: mg/Kg-dry Prep Date: 1/19/2006 RunNo: 4293
 Client ID: BH-37 Batch ID: 2421 Method: SW6010B (SW3050B) Analysis Date: 1/23/2006 SeqNo: 125625
 Instrument: ColumnID:

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	4X 3186	60	238.2	2176	424	60	140				S
Antimony	33.08	36	47.64	1.778	65.7	60	120				J
Arsenic	58.48	3.0	47.64	6.117	110	75	120				
Barium	85.39	60	47.64	31.36	113	60	140				
Beryllium	47.66	6.0	47.64	0.1763	99.7	80	120				
Cadmium	48.04	6.0	47.64	1.128	98.5	75	120				
Calcium	4X 18080	600	2382	22860	0	60	140				S
Chromium	268.4	6.0	47.64	94.83	364	69	124				S
Cobalt	58.94	30	47.64	6.335	110	75	120				
Copper	261.7	6.0	47.64	94.94	350	78	123				S
Iron	4X 116800	30	238.2	63110	22500	60	140				S
Lead	4X 308.1	3.0	47.64	198.7	230	60	140				S
Magnesium	5572	600	2382	4725	35.6	60	140				S
Manganese	869.2	30	47.64	549.1	672	60	140				S
Nickel	201.2	30	47.64	78.09	258	73	120				S
Potassium	2723	3000	2382	426.7	96.4	80	127				J
Selenium	48.05	3.0	47.64	0	101	73	120				
Silver	13.46	6.0	11.91	0	113	80	120				
Sodium	2360	600	2382	51.03	96.9	74	120				
Thallium	49.25	6.0	47.64	2.197	98.8	77	120				
Vanadium	61.02	30	47.64	7.567	112	80	120				
Zinc	208.2	6.0	47.64	137.7	148	60	135				S

Qualifiers: E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits

e:

24-Jan-06

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW6010B

Work Order: 0601050

Project: Geneva Foundry

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: 0601050-001BMSD Sample Type: MSD Test Code: 6010S Units: mg/Kg-dry Prep Date: 1/19/2006 Run No: 4293
 Client ID: BH-37 Batch ID: 2421 Method: SW6010B (SW3050B) Analysis Date: 1/23/2006 Seq No: 125626
 Instrument: Column ID:

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	4X 3222	60	238.2	2176	439	60	140	3186	1.14	20	S
Antimony	31.98	36	47.64	1.778	63.4	60	120	33.08	3.39	20	J
Arsenic	57.31	3.0	47.64	6.117	107	75	120	58.48	2.03	20	
Barium	86.44	60	47.64	31.36	116	60	140	85.39	1.22	20	
Beryllium	47.80	6.0	47.64	0.1763	100	80	120	47.66	0.29	20	
Cadmium	48.03	6.0	47.64	1.128	98.5	75	120	48.04	0.01	20	
Calcium	4X 18010	600	2382	22860	0	60	140	18080	0.40	20	S
Chromium	262.1	6.0	47.64	94.83	351	69	124	268.4	2.40	20	S
Cobalt	58.71	30	47.64	6.335	110	75	120	58.94	0.38	20	
Copper	254.1	6.0	47.64	94.94	334	78	123	261.7	2.94	20	S
Iron	4X 116100	30	238.2	63110	22300	60	140	116800	0.60	27	S
Lead	4X 291.5	3.0	47.64	198.7	195	60	140	308.1	5.54	20	S
Magnesium	5882	600	2382	4725	48.6	60	140	5572	5.41	20	S
Manganese	882.1	30	47.64	549.1	699	60	140	869.2	1.48	20	S
Nickel	209.0	30	47.64	78.09	275	73	120	201.2	3.79	20	S
Potassium	2714	3000	2382	426.7	96.0	80	127	2723	0.35	20	J
Selenium	48.80	3.0	47.64	0	102	73	120	48.05	1.55	20	
Silver	12.72	6.0	11.91	0	107	80	120	13.46	5.66	20	
Sodium	2363	600	2382	51.03	97.1	74	120	2360	0.15	20	
Thallium	47.65	6.0	47.64	2.197	95.4	77	120	49.25	3.30	20	
Vanadium	61.40	30	47.64	7.567	113	80	120	61.02	0.62	20	
Zinc	205.1	6.0	47.64	137.7	141	60	135	208.2	1.48	20	S

Qualifiers: E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits

ie:

24-Jan-06

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

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ANALYTICAL QC SUMMARY REPORT

Method: SW6010B

Work Order: 0601050

Project: Geneva Foundry

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: 0601050-001B		SampleType: PDS		TestCode: 6010S	Units: mg/Kg-dry	Prep Date: 1/19/2006	RunNo: 4293				
Client ID: BH-37		Batch ID: 2421		Method: SW6010B	(SW3050B)	Analysis Date: 1/23/2006	SeqNo: 125627				
Instrument:		ColumnID:									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	3212	50	1191	2176	87.0	75	125				
Antimony	227.3	30	238.2	1.778	94.7	75	125				
Arsenic	236.2	2.5	238.2	6.117	96.6	75	125				
Barium	260.2	50	238.2	31.36	96.1	75	125				
Beryllium	233.4	5.0	238.2	0.1763	97.9	75	125				
Cadmium	227.1	5.0	238.2	1.128	94.9	75	125				
Calcium	30770	500	11910	22860	66.4	75	125				
Chromium	327.2	5.0	238.2	94.83	97.5	75	125				S
Cobalt	235.1	25	238.2	6.335	96.1	75	125				
Copper	330.1	5.0	238.2	94.94	98.7	75	125				
Iron	60700	25	1191	63110	0	75	125				S
Lead	415.9	2.5	238.2	198.7	91.2	75	125				
Magnesium	15780	500	11910	4725	92.8	75	125				
Manganese	743.4	25	238.2	549.1	81.6	75	125				
Nickel	308.9	25	238.2	78.09	96.9	75	125				
Potassium	12170	2500	11910	426.7	98.6	75	125				
Selenium	230.3	2.5	238.2	0	96.7	75	125				
Silver	58.75	5.0	59.55	0	98.7	75	125				
Sodium	12210	500	11910	51.03	102	75	125				
Thallium	227.3	5.0	238.2	2.197	94.5	75	125				
Vanadium	252.8	25	238.2	7.567	103	75	125				
Zinc	352.6	5.0	238.2	137.7	90.2	75	125				

Qualifiers: E Value exceeds the instrument calibration range

ND Not Detected at the Practical Quantitation Limit (PQL)

H Holding times for preparation or analysis exceeded

R RPD exceeds accepted precision limit

J Analyte detected below the PQL

S Spike Recovery outside accepted recovery limits

re:

24-Jan-06

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW6010B

Work Order: 0601049

Project: Geneva Foundry

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID:	0601049-002BMS	Sample Type:	MS	Test Code:	6010S	Units:	mg/Kg-dry	Prep Date:	1/19/2006	Run No:	4293
Client ID:	BH-20-D	Batch ID:	2422	Method:	SW6010B	(SW3050B)		Analysis Date:	1/23/2006	Seq No:	125577
Instrument:		Column ID:									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	8095	12	230.4	8221	0	60	140				S
Antimony	29.14	6.9	46.08	0.9147	61.3	60	120				
Arsenic	50.12	0.58	46.08	6.388	94.9	75	120				
Barium	101.8	12	46.08	63.48	83.2	60	140				
Beryllium	45.67	1.2	46.08	0.6013	97.8	80	120				
Cadmium	43.23	1.2	46.08	0.02995	93.8	75	120				
Calcium	41910	120	2304	40050	81.0	60	140				
Chromium	57.63	1.2	46.08	12.2	98.6	69	124				
Cobalt	48.73	5.8	46.08	5.04	94.8	75	120				
Copper	63.98	1.2	46.08	18.18	99.4	78	123				
Iron	32710	5.8	230.4	41600	0	60	140				S
Lead	71.69	0.58	46.08	27.81	95.2	60	140				
Magnesium	8753	120	2304	8220	23.1	60	140				S
Manganese	1024	5.8	46.08	1227	0	60	140				S
Nickel	56.74	5.8	46.08	12.3	96.4	73	120				S
Potassium	3859	580	2304	1254	113	80	127				
Selenium	43.19	0.58	46.08	1.523	90.4	73	120				
Silver	11.88	1.2	11.52	0.1129	102	80	120				
Sodium	2782	120	2304	390.1	104	74	120				
Thallium	42.97	1.2	46.08	1.452	90.1	77	120				
Vanadium	67.97	5.8	46.08	22.99	97.6	80	120				
Zinc	80.75	1.2	46.08	35.2	98.8	60	135				

Qualifiers:	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	R	RPD exceeds accepted precision limit	S	Spike Recovery outside accepted recovery limits

re:

24-Jan-06

Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057 (315) 437-0200

CLIENT: O'Brien & Gere Engineers, Inc.

ANALYTICAL QC SUMMARY REPORT

Method: SW6010B

Work Order: 0601049

Project: Geneva Foundry

Sample ID:	0601049-002BMSD	SampType:	MSD	TestCode:	6010S	Units:	mg/Kg-dry	Prep Date:	1/19/2006	RunNo:	4293
Client ID:	BH-20-D	Batch ID:	2422	Method:	SW6010B	(SW3050B)		Analysis Date:	1/23/2006	SeqNo:	125578
Instrument:		ColumnID:									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	44X 8305	12	230.4	8221	36.7	60	140	8095	2.56	20	S
Antimony	28.91	6.9	46.08	0.9147	60.8	60	120	29.14	0.80	20	
Arsenic	50.01	0.58	46.08	6.388	94.7	75	120	50.12	0.22	20	
Barium	103.6	12	46.08	63.48	87.0	60	140	101.8	1.69	20	
Beryllium	45.63	1.2	46.08	0.6013	97.7	80	120	45.67	0.08	20	
Cadmium	43.23	1.2	46.08	0.02995	93.8	75	120	43.23	0.01	20	
Calcium	41840	120	2304	40050	77.8	60	140	41910	0.18	20	
Chromium	57.84	1.2	46.08	12.2	99.1	69	124	57.63	0.38	20	
Cobalt	48.78	5.8	46.08	5.04	94.9	75	120	48.73	0.12	20	
Copper	64.04	1.2	46.08	18.18	99.5	78	123	63.98	0.10	20	
Iron	44X 32070	5.8	230.4	41600	0	60	140	32710	2.00	27	S
Lead	72.20	0.58	46.08	27.81	96.3	60	140	71.69	0.70	20	
Magnesium	8776	120	2304	8220	24.1	60	140	8753	0.26	20	S
Manganese	44X 1076	5.8	46.08	1227	0	60	140	1024	4.99	20	S
Nickel	56.81	5.8	46.08	12.3	96.6	73	120	56.74	0.13	20	
Potassium	3868	580	2304	1254	113	80	127	3859	0.22	20	
Selenium	43.52	0.58	46.08	1.523	91.1	73	120	43.19	0.76	20	
Silver	11.89	1.2	11.52	0.1129	102	80	120	11.88	0.05	20	
Sodium	2794	120	2304	390.1	104	74	120	2782	0.45	20	
Thallium	43.11	1.2	46.08	1.452	90.4	77	120	42.97	0.33	20	
Vanadium	68.44	5.8	46.08	22.99	98.6	80	120	67.97	0.70	20	
Zinc	80.79	1.2	46.08	35.2	98.9	60	135	80.75	0.05	20	

Qualifiers: E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded J Analytic detected below the PQL
 ND Not Detected at the Practical Qualification Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits

le:

24-Jan-06

Life Science Laboratories, Inc.
 5000 Brittonfield Parkway, Suite 200
 East Syracuse, NY 13057 (315) 437-0200

ANALYTICAL QC SUMMARY REPORT

Method: SW6010B
 Work Order: 0601049
 Project: Geneva Foundry

CLIENT: O'Brien & Gere Engineers, Inc.

Sample ID: 0601049-002B SampType: PDS TestCode: 6010S Units: mg/Kg-dry Prep Date: 11/9/2006 RunNo: 4293
 Client ID: BH-20-D Batch ID: 2422 Method: SW6010B (SW3050B) Analysis Date: 1/23/2006 SeqNo: 125582
 Instrument: ColumnID:

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	7990	10	230.4	8221	0	75	125				S
Antimony	44.38	6.0	46.08	0.9147	94.3	75	125				
Arsenic	49.57	0.50	46.08	6.388	93.7	75	125				
Barium	103.7	10	46.08	63.48	87.3	75	125				
Beryllium	43.95	1.0	46.08	0.6013	94.1	75	125				
Cadmium	41.74	1.0	46.08	0.02995	90.5	75	125				
Calcium	40010	100	2304	40050	0	75	125				S
Chromium	55.79	1.0	46.08	12.2	94.6	75	125				
Cobalt	47.32	5.0	46.08	5.04	91.8	75	125				
Copper	63.04	1.0	46.08	18.18	97.3	75	125				
Iron	39430	5.0	230.4	41600	0	75	125				S
Lead	69.37	0.50	46.08	27.81	90.2	75	125				
Magnesium	9916	100	2304	8220	73.6	75	125				S
Manganese	1199	5.0	46.08	1227	0	75	125				S
Nickel	55.10	5.0	46.08	12.3	92.9	75	125				ES
Potassium	3585	500	2304	1254	101	75	125				
Selenium	43.57	0.50	46.08	1.523	91.2	75	125				
Silver	11.30	1.0	11.52	0.1129	97.1	75	125				
Sodium	2722	100	2304	390.1	101	75	125				
Thallium	43.55	1.0	46.08	1.452	91.4	75	125				
Vanadium	67.79	5.0	46.08	22.99	97.2	75	125				
Zinc	74.84	1.0	46.08	35.2	86.0	75	125				

Qualifiers: E Value exceeds the instrument calibration range H Holding times for preparation or analysis exceeded J Analyte detected below the PQL
 ND Not Detected at the Practical Quantitation Limit (PQL) R RPD exceeds accepted precision limit S Spike Recovery outside accepted recovery limits

e: 24-Jan-06

Date Digested: 1/13/06

QC Batch #:

234

Date Digested:

1/13/06

266

1/19/08

QC Batch #:

2421

Date Digested:

267

2422

QC Batch #:

Date Digested:

11/19/06

268



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

Sample Size: 0.5 g

ColumnID:

%Moisture: 12.7

Revision: 01/25/06 8:22:44 A

TestCode: 6010S

Lab ID: 0601049-001B

Client Sample ID: BH-20-S

Collection Date: 01/11/06 7:55

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10947

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)		
Aluminum	4900		11	1.7	mg/Kg-dry	1	01/23/06 15:01
Antimony	0.74	J	6.9	0.22	mg/Kg-dry	1	01/23/06 15:01
Arsenic	9.3		0.57	0.25	mg/Kg-dry	1	01/23/06 15:01
Barium	63		11	0.039	mg/Kg-dry	1	01/23/06 15:01
Beryllium	0.39	J	1.1	0.0055	mg/Kg-dry	1	01/23/06 15:01
Cadmium	0.055	J	1.1	0.027	mg/Kg-dry	1	01/23/06 15:01
Calcium	97000		110	1.6	mg/Kg-dry	1	01/23/06 15:01
Chromium	10		1.1	0.14	mg/Kg-dry	1	01/23/06 15:01
Cobalt	5.2	J	5.7	0.12	mg/Kg-dry	1	01/23/06 15:01
Copper	25		1.1	0.19	mg/Kg-dry	1	01/23/06 15:01
Iron	39000		5.7	0.45	mg/Kg-dry	1	01/23/06 15:01
Lead	69		0.57	0.068	mg/Kg-dry	1	01/23/06 15:01
Magnesium	17000		110	0.80	mg/Kg-dry	1	01/23/06 15:01
Manganese	500		5.7	0.038	mg/Kg-dry	1	01/23/06 15:01
Nickel	15		5.7	0.15	mg/Kg-dry	1	01/23/06 15:01
Potassium	1300		570	9.2	mg/Kg-dry	1	01/23/06 15:01
Selenium	1.1		0.57	0.28	mg/Kg-dry	1	01/23/06 15:01
Silver	ND		1.1	0.092	mg/Kg-dry	1	01/23/06 15:01
Sodium	480		110	0.72	mg/Kg-dry	1	01/23/06 15:01
Thallium	0.51	J	1.1	0.24	mg/Kg-dry	1	01/23/06 15:01
Vanadium	18		5.7	0.092	mg/Kg-dry	1	01/23/06 15:01
Zinc	31		1.1	0.25	mg/Kg-dry	1	01/23/06 15:01

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:50

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 0.5 g

%Moisture: 13.2

TestCode: 6010S

Lab ID: 0601049-002B

Client Sample ID: BH-20-D

Collection Date: 01/11/06 8:05

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10948

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)		
Aluminum	8200		12	1.7	mg/Kg-dry	1	01/23/06 15:05
Antimony	0.91	J	6.9	0.22	mg/Kg-dry	1	01/23/06 15:05
Arsenic	6.4		0.58	0.25	mg/Kg-dry	1	01/23/06 15:05
Barium	63		12	0.039	mg/Kg-dry	1	01/23/06 15:05
Beryllium	0.60	J	1.2	0.0055	mg/Kg-dry	1	01/23/06 15:05
Cadmium	0.030	J	1.2	0.027	mg/Kg-dry	1	01/23/06 15:05
Calcium	40000		120	1.6	mg/Kg-dry	1	01/23/06 15:05
Chromium	12		1.2	0.14	mg/Kg-dry	1	01/23/06 15:05
Cobalt	5.0	J	5.8	0.12	mg/Kg-dry	1	01/23/06 15:05
Copper	18		1.2	0.19	mg/Kg-dry	1	01/23/06 15:05
Iron	42000		5.8	0.45	mg/Kg-dry	1	01/23/06 15:05
Lead	28		0.58	0.068	mg/Kg-dry	1	01/23/06 15:05
Magnesium	8200		120	0.80	mg/Kg-dry	1	01/23/06 15:05
Manganese	1200	E	5.8	0.039	mg/Kg-dry	1	01/23/06 15:05
Nickel	12		5.8	0.15	mg/Kg-dry	1	01/23/06 15:05
Potassium	1300		580	9.3	mg/Kg-dry	1	01/23/06 15:05
Silver	0.11	J	1.2	0.093	mg/Kg-dry	1	01/23/06 15:05
Sodium	390		120	0.72	mg/Kg-dry	1	01/23/06 15:05
Vanadium	23		5.8	0.092	mg/Kg-dry	1	01/23/06 15:05
Zinc	35		1.2	0.25	mg/Kg-dry	1	01/23/06 15:05

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:50

Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

Sample Size: 0.5 g

ColumnID:

%Moisture: 13.2

Revision: 01/25/06 8:22:44 A

TestCode: 6010S

Lab ID: 0601049-002B

Client Sample ID: BH-20-D

Collection Date: 01/11/06 8:05

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: I-DL-11003

Analyte	Result Qual PQL		MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP			SW6010B	(SW3050B)		
Manganese	1200	12	0.077	mg/Kg-dry 2		01/23/06 18:43
Selenium	0.77 J	1.2	0.56	mg/Kg-dry 2		01/23/06 18:43
Thallium	1.4 J	2.3	0.49	mg/Kg-dry 2		01/23/06 18:43

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:50

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

Sample Size: 0.5 g

ColumnID:

%Moisture: 13.5

Revision: 01/25/06 8:22:44 A

TestCode: 6010S

Lab ID: 0601049-003B

Client Sample ID: BH-21-S

Collection Date: 01/10/06 15:15

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10958

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)		
Aluminum	6400	12		1.7	mg/Kg-dry	1	01/23/06 15:38
Antimony	ND	6.9		0.22	mg/Kg-dry	1	01/23/06 15:38
Arsenic	2.8	0.58		0.25	mg/Kg-dry	1	01/23/06 15:38
Barium	220	12		0.039	mg/Kg-dry	1	01/23/06 15:38
Beryllium	0.32 J	1.2		0.0055	mg/Kg-dry	1	01/23/06 15:38
Cadmium	1.0 J	1.2		0.027	mg/Kg-dry	1	01/23/06 15:38
Calcium	200000	120		1.6	mg/Kg-dry	1	01/23/06 15:38
Chromium	8.6	1.2		0.14	mg/Kg-dry	1	01/23/06 15:38
Cobalt	3.3 J	5.8		0.12	mg/Kg-dry	1	01/23/06 15:38
Copper	6.0	1.2		0.19	mg/Kg-dry	1	01/23/06 15:38
Iron	8200	5.8		0.46	mg/Kg-dry	1	01/23/06 15:38
Lead	21	0.58		0.069	mg/Kg-dry	1	01/23/06 15:38
Magnesium	61000	120		0.80	mg/Kg-dry	1	01/23/06 15:38
Manganese	300	5.8		0.039	mg/Kg-dry	1	01/23/06 15:38
Nickel	12	5.8		0.15	mg/Kg-dry	1	01/23/08 15:38
Potassium	2200	580		9.3	mg/Kg-dry	1	01/23/06 15:38
Selenium	ND	0.58		0.28	mg/Kg-dry	1	01/23/06 15:38
Silver	ND	1.2		0.093	mg/Kg-dry	1	01/23/06 15:38
Sodium	250	120		0.73	mg/Kg-dry	1	01/23/06 15:38
Thallium	0.68 J	1.2		0.25	mg/Kg-dry	1	01/23/06 15:38
Vanadium	10	5.8		0.092	mg/Kg-dry	1	01/23/06 15:38
Zinc	91	1.2		0.25	mg/Kg-dry	1	01/23/06 15:38

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:50

Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.**Project:** Geneva Foundry**W Order:** 0601049**Matrix:** SOIL**Inst. ID:** ICAP 61E**Sample Size:** 0.5 g**ColumnID:****%Moisture:** 15.0**Revision:** 01/25/06 8:22:44 A**TestCode:** 6010S**Lab ID:** 0601049-004B**Client Sample ID:** BH-21-D**Collection Date:** 01/10/06 15:25**Date Received:** 01/12/06 7:50**PrepDate:** 01/19/06 12:00 A**BatchNo:** 2422/R4293**FileID:** 1-SAMP-10959

Analyte	Result	Qual	PQL	MDL	Units · DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)	
Aluminum	4900	12		1.8	mg/Kg-dry 1	01/23/06 15:42
Antimony	0.49 J	7.1		0.22	mg/Kg-dry 1	01/23/06 15:42
Arsenic	7.4	0.59		0.26	mg/Kg-dry 1	01/23/06 15:42
Barium	110	12		0.040	mg/Kg-dry 1	01/23/06 15:42
Beryllium	0.32 J	1.2		0.0056	mg/Kg-dry 1	01/23/06 15:42
Cadmium	ND	1.2		0.028	mg/Kg-dry 1	01/23/06 15:42
Calcium	130000	120		1.6	mg/Kg-dry 1	01/23/06 15:42
Chromium	9.4	1.2		0.15	mg/Kg-dry 1	01/23/06 15:42
Cobalt	3.4 J	5.9		0.13	mg/Kg-dry 1	01/23/06 15:42
Copper	12	1.2		0.19	mg/Kg-dry 1	01/23/06 15:42
Iron	18000	5.9		0.46	mg/Kg-dry 1	01/23/06 15:42
Lead	15	0.59		0.070	mg/Kg-dry 1	01/23/06 15:42
Magnesium	19000	120		0.82	mg/Kg-dry 1	01/23/06 15:42
Manganese	280	5.9		0.039	mg/Kg-dry 1	01/23/06 15:42
Nickel	10	5.9		0.15	mg/Kg-dry 1	01/23/06 15:42
Potassium	1600	590		9.5	mg/Kg-dry 1	01/23/06 15:42
Selenium	0.41 J	0.59		0.28	mg/Kg-dry 1	01/23/06 15:42
Silver	ND	1.2		0.094	mg/Kg-dry 1	01/23/06 15:42
Sodium	170	120		0.74	mg/Kg-dry 1	01/23/06 15:42
Thallium	0.31 J	1.2		0.25	mg/Kg-dry 1	01/23/06 15:42
Vanadium	15	5.9		0.094	mg/Kg-dry 1	01/23/06 15:42
Zinc	39	1.2		0.26	mg/Kg-dry 1	01/23/06 15:42

Qualifiers:**B** Analyte detected in the associated Method Blank**H** Holding times for preparation or analysis exceeded**ND** Not Detected at the Practical Quantitation Limit (PQL)**S** Spike Recovery outside accepted recovery limits**E** Value exceeds the instrument calibration range**J** Analyte detected below the PQL**P** Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:50

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 0.5 g

%Moisture: 14.8

TestCode: 6010S

Lab ID: 0601049-005B

Client Sample ID: BH-22-S

Collection Date: 01/10/06 13:00

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10960

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)		
Aluminum	5100	12		1.8	mg/Kg-dry	1	01/23/06 15:50
Antimony	1.0 J	7.0		0.22	mg/Kg-dry	1	01/23/06 15:50
Arsenic	9.6	0.59		0.26	mg/Kg-dry	1	01/23/06 15:50
Barium	85	12		0.039	mg/Kg-dry	1	01/23/06 15:50
Beryllium	0.35 J	1.2		0.0056	mg/Kg-dry	1	01/23/06 15:50
Cadmium	1.3	1.2		0.027	mg/Kg-dry	1	01/23/06 15:50
Calcium	63000	120		1.6	mg/Kg-dry	1	01/23/06 15:50
Chromium	20	1.2		0.15	mg/Kg-dry	1	01/23/06 15:50
Cobalt	4.6 J	5.9		0.13	mg/Kg-dry	1	01/23/06 15:50
Copper	53	1.2		0.19	mg/Kg-dry	1	01/23/06 15:50
Iron	29000	5.9		0.46	mg/Kg-dry	1	01/23/06 15:50
Lead	320	0.59		0.070	mg/Kg-dry	1	01/23/06 15:50
Magnesium	19000	120		0.82	mg/Kg-dry	1	01/23/06 15:50
Manganese	560	5.9		0.039	mg/Kg-dry	1	01/23/06 15:50
Nickel	19	5.9		0.15	mg/Kg-dry	1	01/23/06 15:50
Potassium	1100	590		9.4	mg/Kg-dry	1	01/23/06 15:50
Selenium	1.2	0.59		0.28	mg/Kg-dry	1	01/23/06 15:50
Silver	0.43 J	1.2		0.094	mg/Kg-dry	1	01/23/06 15:50
Sodium	77 J	120		0.74	mg/Kg-dry	1	01/23/06 15:50
Thallium	ND	1.2		0.25	mg/Kg-dry	1	01/23/06 15:50
Vanadium	14	5.9		0.094	mg/Kg-dry	1	01/23/06 15:50
Zinc	290	1.2		0.26	mg/Kg-dry	1	01/23/06 15:50

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

.S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:50

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 0.5 g

%Moisture: 14.3

TestCode: 6010S

Lab ID: 0601049-006B

Client Sample ID: BH-22-D

Collection Date: 01/10/06 13:20

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10961

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)		
Aluminum	5100		12	1.8	mg/Kg-dry	1	01/23/06 15:53
Antimony	0.38	J	7.0	0.22	mg/Kg-dry	1	01/23/06 15:53
Arsenic	8.9		0.58	0.26	mg/Kg-dry	1	01/23/06 15:53
Barium	160		12	0.039	mg/Kg-dry	1	01/23/06 15:53
Beryllium	0.44	J	1.2	0.0056	mg/Kg-dry	1	01/23/06 15:53
Cadmium	0.24	J	1.2	0.027	mg/Kg-dry	1	01/23/06 15:53
Calcium	38000		120	1.6	mg/Kg-dry	1	01/23/06 15:53
Chromium	11		1.2	0.15	mg/Kg-dry	1	01/23/06 15:53
Cobalt	5.1	J	5.8	0.13	mg/Kg-dry	1	01/23/06 15:53
Copper	25		1.2	0.19	mg/Kg-dry	1	01/23/06 15:53
Iron	14000		5.8	0.46	mg/Kg-dry	1	01/23/06 15:53
Lead	150		0.58	0.069	mg/Kg-dry	1	01/23/06 15:53
Magnesium	9200		120	0.81	mg/Kg-dry	1	01/23/06 15:53
Manganese	330		5.8	0.039	mg/Kg-dry	1	01/23/06 15:53
Nickel	13		5.8	0.15	mg/Kg-dry	1	01/23/06 15:53
Potassium	940		580	9.4	mg/Kg-dry	1	01/23/06 15:53
Selenium	0.68		0.58	0.28	mg/Kg-dry	1	01/23/06 15:53
Silver	0.54	J	1.2	0.094	mg/Kg-dry	1	01/23/06 15:53
Sodium	77	J	120	0.73	mg/Kg-dry	1	01/23/06 15:53
Thallium	ND		1.2	0.25	mg/Kg-dry	1	01/23/06 15:53
Vanadium	16		5.8	0.093	mg/Kg-dry	1	01/23/06 15:53
Zinc	100		1.2	0.26	mg/Kg-dry	1	01/23/06 15:53

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

Sample Size: 0.5 g

ColumnID:

%Moisture: 6.2

Revision: 01/25/06 8:22:44 A

TestCode: 6010S

Lab ID: 0601049-007B

Client Sample ID: BH-23-S

Collection Date: 01/10/06 14:00

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10962

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)		
Aluminum	2400		11	1.6	mg/Kg-dry	1	01/23/06 15:57
Antimony	0.73 J		6.4	0.20	mg/Kg-dry	1	01/23/06 15:57
Arsenic	6.6		0.53	0.23	mg/Kg-dry	1	01/23/06 15:57
Barium	46		11	0.036	mg/Kg-dry	1	01/23/06 15:57
Beryllium	0.29 J		1.1	0.0051	mg/Kg-dry	1	01/23/06 15:57
Cadmium	0.34 J		1.1	0.025	mg/Kg-dry	1	01/23/06 15:57
Calcium	130000		110	1.4	mg/Kg-dry	1	01/23/06 15:57
Chromium	8.1		1.1	0.13	mg/Kg-dry	1	01/23/06 15:57
Cobalt	3.0 J		5.3	0.12	mg/Kg-dry	1	01/23/06 15:57
Copper	25		1.1	0.17	mg/Kg-dry	1	01/23/06 15:57
Iron	9700		5.3	0.42	mg/Kg-dry	1	01/23/06 15:57
Lead	160		0.53	0.063	mg/Kg-dry	1	01/23/06 15:57
Magnesium	6100		110	0.74	mg/Kg-dry	1	01/23/06 15:57
Manganese	310		5.3	0.036	mg/Kg-dry	1	01/23/06 15:57
Nickel	12		5.3	0.14	mg/Kg-dry	1	01/23/06 15:57
Potassium	920		530	8.6	mg/Kg-dry	1	01/23/06 15:57
Selenium	0.73		0.53	0.26	mg/Kg-dry	1	01/23/06 15:57
Silver	0.12 J		1.1	0.086	mg/Kg-dry	1	01/23/06 15:57
Sodium	96 J		110	0.67	mg/Kg-dry	1	01/23/06 15:57
Thallium	ND		1.1	0.23	mg/Kg-dry	1	01/23/06 15:57
Vanadium	14		5.3	0.085	mg/Kg-dry	1	01/23/06 15:57
Zinc	100		1.1	0.23	mg/Kg-dry	1	01/23/06 15:57

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/26/06 15:50

Project Supervisor: Thomas A. Alexander

276



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

Sample Size: 0.5 g

ColumnID:

%Moisture: 19.7

Revision: 01/25/06 8:22:44 A

TestCode: 6010S

Lab ID: 0601049-008B

Client Sample ID: BH-24-S

Collection Date: 01/11/06 9:40

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10963

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)		
Aluminum	9300		12	1.9	mg/Kg-dry	1	01/23/06 16:00
Antimony	0.74 J		7.5	0.24	mg/Kg-dry	1	01/23/06 16:00
Arsenic	10		0.62	0.27	mg/Kg-dry	1	01/23/06 16:00
Barium	140		12	0.042	mg/Kg-dry	1	01/23/06 16:00
Beryllium	0.69 J		1.2	0.0060	mg/Kg-dry	1	01/23/06 16:00
Cadmium	0.99 J		1.2	0.029	mg/Kg-dry	1	01/23/06 16:00
Calcium	12000		120	1.7	mg/Kg-dry	1	01/23/06 16:00
Chromium	18		1.2	0.16	mg/Kg-dry	1	01/23/06 16:00
Cobalt	6.9		6.2	0.13	mg/Kg-dry	1	01/23/06 16:00
Copper	38		1.2	0.20	mg/Kg-dry	1	01/23/06 16:00
Iron	22000		6.2	0.49	mg/Kg-dry	1	01/23/06 16:00
Lead	290		0.62	0.074	mg/Kg-dry	1	01/23/06 16:00
Magnesium	3100		120	0.87	mg/Kg-dry	1	01/23/06 16:00
Manganese	470		6.2	0.042	mg/Kg-dry	1	01/23/06 16:00
Nickel	17		6.2	0.16	mg/Kg-dry	1	01/23/06 16:00
Potassium	1700		620	10	mg/Kg-dry	1	01/23/06 16:00
Selenium	1.8		0.62	0.30	mg/Kg-dry	1	01/23/06 16:00
Silver	0.15 J		1.2	0.10	mg/Kg-dry	1	01/23/06 16:00
Sodium	190		120	0.78	mg/Kg-dry	1	01/23/06 16:00
Thallium	0.47 J		1.2	0.26	mg/Kg-dry	1	01/23/06 16:00
Vanadium	21		6.2	0.10	mg/Kg-dry	1	01/23/06 16:00
Zinc	190		1.2	0.27	mg/Kg-dry	1	01/23/06 16:00

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

Sample Size: 0.5 g

ColumnID:

%Moisture: 28.5

Revision: 01/25/06 8:22:44 A

TestCode: 6010S

Lab ID: 0601049-009B

Client Sample ID: BH-24-D

Collection Date: 01/11/06 9:50

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10964

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)		
Aluminum	19000		14	2.1	mg/Kg-dry	1	01/23/06 16:03
Antimony	ND		8.4	0.26	mg/Kg-dry	1	01/23/06 16:03
Arsenic	5.5		0.70	0.31	mg/Kg-dry	1	01/23/06 16:03
Barium	210		14	0.047	mg/Kg-dry	1	01/23/06 16:03
Beryllium	1.3 J		1.4	0.0067	mg/Kg-dry	1	01/23/06 16:03
Cadmium	0.52 J		1.4	0.033	mg/Kg-dry	1	01/23/06 16:03
Calcium	5000		140	1.9	mg/Kg-dry	1	01/23/06 16:03
Chromium	24		1.4	0.17	mg/Kg-dry	1	01/23/06 16:03
Cobalt	12		7.0	0.15	mg/Kg-dry	1	01/23/06 16:03
Copper	24		1.4	0.23	mg/Kg-dry	1	01/23/06 16:03
Iron	24000		7.0	0.55	mg/Kg-dry	1	01/23/06 16:03
Lead	27		0.70	0.083	mg/Kg-dry	1	01/23/06 16:03
Magnesium	4100		140	0.97	mg/Kg-dry	1	01/23/06 16:03
Manganese	1400		7.0	0.047	mg/Kg-dry	1	01/23/06 16:03
Nickel	27		7.0	0.18	mg/Kg-dry	1	01/23/06 16:03
Potassium	5000		700	11	mg/Kg-dry	1	01/23/06 16:03
Selenium	0.96		0.70	0.34	mg/Kg-dry	1	01/23/06 16:03
Silver	ND		1.4	0.11	mg/Kg-dry	1	01/23/06 16:03
Sodium	100 J		140	0.88	mg/Kg-dry	1	01/23/06 16:03
Thallium	1.8		1.4	0.30	mg/Kg-dry	1	01/23/06 16:03
Vanadium	34		7.0	0.11	mg/Kg-dry	1	01/23/06 16:03
Zinc	73		1.4	0.31	mg/Kg-dry	1	01/23/06 16:03

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 0.5 g

%Moisture: 19.1

TestCode: 6010S

Lab ID: 0601049-010B

Client Sample ID: BH-25-S

Collection Date: 01/11/06 12:10

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10965

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B		(SW3050B)	
Aluminum	4800	12		1.9	mg/Kg-dry	1	01/23/06 16:07
Antimony	1.2 J	7.4		0.23	mg/Kg-dry	1	01/23/06 16:07
Arsenic	10	0.62		0.27	mg/Kg-dry	1	01/23/06 16:07
Barium	110	12		0.042	mg/Kg-dry	1	01/23/06 16:07
Beryllium	0.44 J	1.2		0.0059	mg/Kg-dry	1	01/23/06 16:07
Cadmium	1.4	1.2		0.029	mg/Kg-dry	1	01/23/06 16:07
Calcium	35000	120		1.7	mg/Kg-dry	1	01/23/06 16:07
Chromium	22	1.2		0.15	mg/Kg-dry	1	01/23/06 16:07
Cobalt	5.1 J	6.2		0.13	mg/Kg-dry	1	01/23/06 16:07
Copper	91	1.2		0.20	mg/Kg-dry	1	01/23/06 16:07
Iron	33000	6.2		0.49	mg/Kg-dry	1	01/23/06 16:07
Lead	370	0.62		0.073	mg/Kg-dry	1	01/23/06 16:07
Magnesium	7300	120		0.86	mg/Kg-dry	1	01/23/06 16:07
Manganese	430	6.2		0.041	mg/Kg-dry	1	01/23/06 16:07
Nickel	17	6.2		0.16	mg/Kg-dry	1	01/23/06 16:07
Potassium	990	620		9.9	mg/Kg-dry	1	01/23/06 16:07
Selenium	2.3	0.62		0.30	mg/Kg-dry	1	01/23/06 16:07
Silver	0.22 J	1.2		0.099	mg/Kg-dry	1	01/23/06 16:07
Sodium	220	120		0.78	mg/Kg-dry	1	01/23/06 16:07
Thallium	0.36 J	1.2		0.26	mg/Kg-dry	1	01/23/06 16:07
Vanadium	16	6.2		0.099	mg/Kg-dry	1	01/23/06 16:07
Zinc	520	1.2		0.27	mg/Kg-dry	1	01/23/06 16:07

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:51

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 0.5 g

%Moisture: 19.8

TestCode: 6010S

Lab ID: 0601049-011B

Client Sample ID: BH-25-D

Collection Date: 01/11/06 12:20

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10969

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)		
Aluminum	6500	12		1.9	mg/Kg-dry	1	01/23/06 16:20
Antimony	ND	7.5		0.24	mg/Kg-dry	1	01/23/06 16:20
Arsenic	6.1	0.62		0.27	mg/Kg-dry	1	01/23/06 16:20
Barium	100	12		0.042	mg/Kg-dry	1	01/23/06 16:20
Beryllium	0.57 J	1.2		0.0060	mg/Kg-dry	1	01/23/06 16:20
Cadmium	0.19 J	1.2		0.029	mg/Kg-dry	1	01/23/06 16:20
Calcium	12000	120		1.7	mg/Kg-dry	1	01/23/06 16:20
Chromium	9.3	1.2		0.16	mg/Kg-dry	1	01/23/06 16:20
Cobalt	6.6	6.2		0.13	mg/Kg-dry	1	01/23/06 16:20
Copper	21	1.2		0.20	mg/Kg-dry	1	01/23/06 16:20
Iron	13000	6.2		0.49	mg/Kg-dry	1	01/23/06 16:20
Lead	58	0.62		0.074	mg/Kg-dry	1	01/23/06 16:20
Magnesium	3100	120		0.87	mg/Kg-dry	1	01/23/06 16:20
Manganese	550	6.2		0.042	mg/Kg-dry	1	01/23/06 16:20
Nickel	14	6.2		0.16	mg/Kg-dry	1	01/23/06 16:20
Potassium	1600	620		10	mg/Kg-dry	1	01/23/06 16:20
Seienium	3.2	0.62		0.30	mg/Kg-dry	1	01/23/06 16:20
Silver	0.34 J	1.2		0.10	mg/Kg-dry	1	01/23/06 16:20
Sodium	74 J	120		0.78	mg/Kg-dry	1	01/23/06 16:20
Thallium	0.30 J	1.2		0.26	mg/Kg-dry	1	01/23/06 16:20
Vanadium	15	6.2		0.10	mg/Kg-dry	1	01/23/06 16:20
Zinc	57	1.2		0.27	mg/Kg-dry	1	01/23/06 16:20

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 0.5 g

%Moisture: 12.7

TestCode: 6010S

Lab ID: 0601049-012B

Client Sample ID: BH-26-S

Collection Date: 01/11/06 12:35

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10970

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP			SW6010B		(SW3050B)		
Aluminum	6800	11		1.7	mg/Kg-dry	1	01/23/06 16:24
Antimony	0.60 J	6.9		0.22	mg/Kg-dry	1	01/23/06 16:24
Arsenic	5.2	0.57		0.25	mg/Kg-dry	1	01/23/06 16:24
Barium	49	11		0.038	mg/Kg-dry	1	01/23/06 16:24
Beryllium	0.37 J	1.1		0.0055	mg/Kg-dry	1	01/23/06 16:24
Cadmium	0.30 J	1.1		0.027	mg/Kg-dry	1	01/23/06 16:24
Calcium	25000	110		1.6	mg/Kg-dry	1	01/23/06 16:24
Chromium	12	1.1		0.14	mg/Kg-dry	1	01/23/06 16:24
Cobalt	3.8 J	5.7		0.12	mg/Kg-dry	1	01/23/06 16:24
Copper	14	1.1		0.19	mg/Kg-dry	1	01/23/06 16:24
Iron	38000	5.7		0.45	mg/Kg-dry	1	01/23/06 16:24
Lead	25	0.57		0.068	mg/Kg-dry	1	01/23/06 16:24
Magnesium	3600	110		0.80	mg/Kg-dry	1	01/23/06 16:24
Manganese	810	5.7		0.038	mg/Kg-dry	1	01/23/06 16:24
Nickel	9.7	5.7		0.15	mg/Kg-dry	1	01/23/06 16:24
Potassium	950	570		9.2	mg/Kg-dry	1	01/23/06 16:24
Selenium	1.1	0.57		0.28	mg/Kg-dry	1	01/23/06 16:24
Silver	ND	1.1		0.092	mg/Kg-dry	1	01/23/06 16:24
Sodium	160	110		0.72	mg/Kg-dry	1	01/23/06 16:24
Thallium	0.69 J	1.1		0.24	mg/Kg-dry	1	01/23/06 16:24
Vanadium	21	5.7		0.092	mg/Kg-dry	1	01/23/06 16:24
Zinc	51	1.1		0.25	mg/Kg-dry	1	01/23/06 16:24

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

Sample Size: 0.5 g

ColumnID:

%Moisture: 24.3

Revision: 01/25/06 8:22:44 A

TestCode: 6010S

Lab ID: 0601049-013B

Client Sample ID: BH-27-S

Collection Date: 01/11/06 13:40

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10971

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP			SW6010B		(SW3050B)		
Aluminum	5300	13		2.0	mg/Kg-dry	1	01/23/06 16:27
Antimony	0.30 J	7.9		0.25	mg/Kg-dry	1	01/23/06 16:27
Arsenic	3.5	0.66		0.29	mg/Kg-dry	1	01/23/06 16:27
Barium	40	13		0.044	mg/Kg-dry	1	01/23/06 16:27
Beryllium	0.28 J	1.3		0.0063	mg/Kg-dry	1	01/23/06 16:27
Cadmium	0.24 J	1.3		0.031	mg/Kg-dry	1	01/23/06 16:27
Calcium	22000	130		1.8	mg/Kg-dry	1	01/23/06 16:27
Chromium	11	1.3		0.17	mg/Kg-dry	1	01/23/06 16:27
Cobalt	2.6 J	6.6		0.14	mg/Kg-dry	1	01/23/06 16:27
Copper	13	1.3		0.21	mg/Kg-dry	1	01/23/06 16:27
Iron	14000	6.6		0.52	mg/Kg-dry	1	01/23/06 16:27
Lead	53	0.66		0.079	mg/Kg-dry	1	01/23/06 16:27
Magnesium	3700	130		0.92	mg/Kg-dry	1	01/23/06 16:27
Manganese	240	6.6		0.044	mg/Kg-dry	1	01/23/06 16:27
Nickel	8.6	6.6		0.17	mg/Kg-dry	1	01/23/06 16:27
Potassium	800	660		11	mg/Kg-dry	1	01/23/06 16:27
Selenium	0.48 J	0.66		0.32	mg/Kg-dry	1	01/23/06 16:27
Silver	ND	1.3		0.11	mg/Kg-dry	1	01/23/06 16:27
Sodium	150	130		0.63	mg/Kg-dry	1	01/23/06 16:27
Thallium	ND	1.3		0.26	mg/Kg-dry	1	01/23/06 16:27
Vanadium	13	6.6		0.11	mg/Kg-dry	1	01/23/06 16:27
Zinc	85	1.3		0.29	mg/Kg-dry	1	01/23/06 16:27

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:51

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

Sample Size: 0.5 g

ColumnID:

%Moisture: 20.7

Revision: 01/25/06 8:22:44 A

TestCode: 6010S

Lab ID: 0601049-014B

Client Sample ID: BH-27-D

Collection Date: 01/11/06 13:55

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10972

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP			SW6010B	(SW3050B)			
Aluminum	12000	13	1.9	mg/Kg-dry	1		01/23/06 16:30
Antimony	ND	7.6	0.24	mg/Kg-dry	1		01/23/06 16:30
Arsenic	6.5	0.63	0.28	mg/Kg-dry	1		01/23/06 16:30
Barium	99	13	0.042	mg/Kg-dry	1		01/23/06 16:30
Beryllium	0.65 J	1.3	0.0061	mg/Kg-dry	1		01/23/06 16:30
Cadmium	0.17 J	1.3	0.030	mg/Kg-dry	1		01/23/06 16:30
Calcium	5600	130	1.7	mg/Kg-dry	1		01/23/06 16:30
Chromium	20	1.3	0.16	mg/Kg-dry	1		01/23/06 16:30
Cobalt	8.9	6.3	0.14	mg/Kg-dry	1		01/23/06 16:30
Copper	25	1.3	0.21	mg/Kg-dry	1		01/23/06 16:30
Iron	23000	6.3	0.50	mg/Kg-dry	1		01/23/06 16:30
Lead	74	0.63	0.075	mg/Kg-dry	1		01/23/06 16:30
Magnesium	4100	130	0.88	mg/Kg-dry	1		01/23/06 16:30
Manganese	510	6.3	0.042	mg/Kg-dry	1		01/23/06 16:30
Nickel	18	6.3	0.16	mg/Kg-dry	1		01/23/06 16:30
Potassium	1900	630	10	mg/Kg-dry	1		01/23/06 16:30
Selenium	1.2	0.63	0.30	mg/Kg-dry	1		01/23/06 16:30
Silver	ND	1.3	0.10	mg/Kg-dry	1		01/23/06 16:30
Sodium	63 J	130	0.79	mg/Kg-dry	1		01/23/06 16:30
Thallium	1.2 J	1.3	0.27	mg/Kg-dry	1		01/23/06 16:30
Vanadium	27	6.3	0.10	mg/Kg-dry	1		01/23/06 16:30
Zinc	97	1.3	0.28	mg/Kg-dry	1		01/23/06 16:30

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 0.5 g

%Moisture: 12.3

TestCode: 6010S

Lab ID: 0601049-015B

Client Sample ID: BH-28-S

Collection Date: 01/11/06 15:10

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10973

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B		(SW3050B)	
Aluminum	5500	11		1.7	mg/Kg-dry 1		01/23/06 16:34
Antimony	3.2 J	6.8		0.22	mg/Kg-dry 1		01/23/06 16:34
Arsenic	7.5	0.57		0.25	mg/Kg-dry 1		01/23/06 16:34
Barium	130	11		0.038	mg/Kg-dry 1		01/23/06 16:34
Beryllium	0.29 J	1.1		0.0055	mg/Kg-dry 1		01/23/06 16:34
Cadmium	0.67 J	1.1		0.027	mg/Kg-dry 1		01/23/06 16:34
Calcium	35000	110		1.5	mg/Kg-dry 1		01/23/06 16:34
Chromium	30	1.1		0.14	mg/Kg-dry 1		01/23/06 16:34
Cobalt	4.4 J	5.7		0.12	mg/Kg-dry 1		01/23/06 16:34
Copper	53	1.1		0.19	mg/Kg-dry 1		01/23/06 16:34
Iron	35000	5.7		0.45	mg/Kg-dry 1		01/23/06 16:34
Lead	120	0.57		0.068	mg/Kg-dry 1		01/23/06 16:34
Magnesium	8000	110		0.79	mg/Kg-dry 1		01/23/06 16:34
Manganese	560	5.7		0.038	mg/Kg-dry 1		01/23/06 16:34
Nickel	26	5.7		0.15	mg/Kg-dry 1		01/23/06 16:34
Potassium	810	570		9.2	mg/Kg-dry 1		01/23/06 16:34
Selenium	1.1	0.57		0.28	mg/Kg-dry 1		01/23/06 16:34
Silver	0.23 J	1.1		0.092	mg/Kg-dry 1		01/23/06 16:34
Sodium	140	110		0.72	mg/Kg-dry 1		01/23/06 16:34
Thallium	0.40 J	1.1		0.24	mg/Kg-dry 1		01/23/06 16:34
Vanadium	25	5.7		0.091	mg/Kg-dry 1		01/23/06 16:34
Zinc	160	1.1		0.25	mg/Kg-dry 1		01/23/06 16:34

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:51

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

Sample Size: 0.5 g

ColumnID:

%Moisture: 19.6

Revision: 01/25/06 8:22:44 A

TestCode: 6010S

Lab ID: 0601049-016B

Client Sample ID: BH-28-D

Collection Date: 01/11/06 15:20

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10974

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)		
Aluminum	10000		12	1.9	mg/Kg-dry	1	01/23/06 16:37
Antimony	0.29	J	7.5	0.24	mg/Kg-dry	1	01/23/06 16:37
Barium	74		12	0.042	mg/Kg-dry	1	01/23/06 16:37
Beryllium	0.50	J	1.2	0.0060	mg/Kg-dry	1	01/23/06 16:37
Cadmium	0.25	J	1.2	0.029	mg/Kg-dry	1	01/23/06 16:37
Calcium	10000		120	1.7	mg/Kg-dry	1	01/23/06 16:37
Chromium	15		1.2	0.16	mg/Kg-dry	1	01/23/06 16:37
Cobalt	6.8		6.2	0.13	mg/Kg-dry	1	01/23/06 16:37
Copper	62		1.2	0.20	mg/Kg-dry	1	01/23/06 16:37
Iron	19000		6.2	0.49	mg/Kg-dry	1	01/23/06 16:37
Lead	98		0.62	0.074	mg/Kg-dry	1	01/23/06 16:37
Magnesium	3200		120	0.87	mg/Kg-dry	1	01/23/06 16:37
Manganese	670		6.2	0.042	mg/Kg-dry	1	01/23/06 16:37
Nickel	14		6.2	0.16	mg/Kg-dry	1	01/23/06 16:37
Potassium	1100		620	10	mg/Kg-dry	1	01/23/06 16:37
Selenium	0.63		0.62	0.30	mg/Kg-dry	1	01/23/06 16:37
Silver	ND		1.2	0.10	mg/Kg-dry	1	01/23/06 16:37
Sodium	80	J	120	0.78	mg/Kg-dry	1	01/23/06 16:37
Thallium	0.68	J	1.2	0.26	mg/Kg-dry	1	01/23/06 16:37
Vanadium	24		6.2	0.099	mg/Kg-dry	1	01/23/06 16:37
Zinc	110		1.2	0.27	mg/Kg-dry	1	01/23/06 16:37

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 0.5 g

%Moisture: 12.3

TestCode: 6010S

Lab ID: 0601049-017B

Client Sample ID: BH-29-S

Collection Date: 01/11/06 16:05

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10975

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)		
Aluminum	5000		11	1.7	mg/Kg-dry	1	01/23/06 16:41
Antimony	ND		6.8	0.22	mg/Kg-dry	1	01/23/06 16:41
Arsenic	3.4		0.57	0.25	mg/Kg-dry	1	01/23/06 16:41
Barium	39		11	0.038	mg/Kg-dry	1	01/23/06 16:41
Beryllium	0.24 J		1.1	0.0055	mg/Kg-dry	1	01/23/06 16:41
Cadmium	0.029 J		1.1	0.027	mg/Kg-dry	1	01/23/06 16:41
Calcium	36000		110	1.5	mg/Kg-dry	1	01/23/06 16:41
Chromium	9.4		1.1	0.14	mg/Kg-dry	1	01/23/06 16:41
Cobalt	2.3 J		5.7	0.12	mg/Kg-dry	1	01/23/06 16:41
Copper	14		1.1	0.19	mg/Kg-dry	1	01/23/06 16:41
Iron	14000		5.7	0.45	mg/Kg-dry	1	01/23/06 16:41
Lead	25		0.57	0.068	mg/Kg-dry	1	01/23/06 16:41
Magnesium	9100		110	0.79	mg/Kg-dry	1	01/23/06 16:41
Manganese	310		5.7	0.038	mg/Kg-dry	1	01/23/06 16:41
Nickel	7.8		5.7	0.15	mg/Kg-dry	1	01/23/06 16:41
Potassium	830		570	9.2	mg/Kg-dry	1	01/23/06 16:41
Selenium	ND		0.57	0.28	mg/Kg-dry	1	01/23/06 16:41
Silver	ND		1.1	0.092	mg/Kg-dry	1	01/23/06 16:41
Sodium	90 J		110	0.72	mg/Kg-dry	1	01/23/06 16:41
Thallium	ND		1.1	0.24	mg/Kg-dry	1	01/23/06 16:41
Vanadium	14		5.7	0.091	mg/Kg-dry	1	01/23/06 16:41
Zinc	45		1.1	0.25	mg/Kg-dry	1	01/23/06 16:41

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

Sample Size: 0.5 g

ColumnID:

%Moisture: 20.4

Revision: 01/25/06 8:22:44 A

TestCode: 6010S

Lab ID: 0601049-018B

Client Sample ID: BH-29-D

Collection Date: 01/11/06 16:20

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10976

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B		(SW3050B)	
Aluminum	12000	13		1.9	mg/Kg-dry 1		01/23/06 16:44
Antimony	ND	7.5		0.24	mg/Kg-dry 1		01/23/06 16:44
Arsenic	5.0	0.63		0.27	mg/Kg-dry 1		01/23/06 16:44
Barium	86	13		0.042	mg/Kg-dry 1		01/23/06 16:44
Beryllium	0.71 J	1.3		0.0060	mg/Kg-dry 1		01/23/06 16:44
Cadmium	0.13 J	1.3		0.029	mg/Kg-dry 1		01/23/06 16:44
Calcium	11000	130		1.7	mg/Kg-dry 1		01/23/06 16:44
Chromium	17	1.3		0.16	mg/Kg-dry 1		01/23/06 16:44
Cobalt	9.7	6.3		0.14	mg/Kg-dry 1		01/23/06 16:44
Copper	16	1.3		0.20	mg/Kg-dry 1		01/23/06 16:44
Iron	22000	6.3		0.50	mg/Kg-dry 1		01/23/06 16:44
Lead	33	0.63		0.075	mg/Kg-dry 1		01/23/06 16:44
Magnesium	5100	130		0.88	mg/Kg-dry 1		01/23/06 16:44
Manganese	810	6.3		0.042	mg/Kg-dry 1		01/23/06 16:44
Nickel	16	6.3		0.16	mg/Kg-dry 1		01/23/06 16:44
Potassium	1200	630		10	mg/Kg-dry 1		01/23/06 16:44
Selenium	0.83	0.63		0.30	mg/Kg-dry 1		01/23/06 16:44
Silver	0.18 J	1.3		0.10	mg/Kg-dry 1		01/23/06 16:44
Sodium	140	130		0.79	mg/Kg-dry 1		01/23/06 16:44
Thallium	1.0 J	1.3		0.27	mg/Kg-dry 1		01/23/06 16:44
Vanadium	27	6.3		0.10	mg/Kg-dry 1		01/23/06 16:44
Zinc	59	1.3		0.28	mg/Kg-dry 1		01/23/06 16:44

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 0.5 g

%Moisture: 18.6

TestCode: 6010S

Lab ID: 0601049-019B

Client Sample ID: BH-34-S

Collection Date: 01/11/06 14:30

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10977

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)		
Aluminum	3500		12	1.9	mg/Kg-dry	1	01/23/06 16:47
Antimony	0.34	J	7.4	0.23	mg/Kg-dry	1	01/23/06 16:47
Arsenic	5.5		0.61	0.27	mg/Kg-dry	1	01/23/06 16:47
Barium	120		12	0.041	mg/Kg-dry	1	01/23/06 16:47
Beryllium	0.27	J	1.2	0.0059	mg/Kg-dry	1	01/23/06 16:47
Cadmium	1.5		1.2	0.029	mg/Kg-dry	1	01/23/06 16:47
Calcium	6800		120	1.7	mg/Kg-dry	1	01/23/06 16:47
Chromium	48		1.2	0.15	mg/Kg-dry	1	01/23/06 16:47
Cobalt	3.0	J	6.1	0.13	mg/Kg-dry	1	01/23/06 16:47
Copper	64		1.2	0.20	mg/Kg-dry	1	01/23/06 16:47
Iron	35000		6.1	0.48	mg/Kg-dry	1	01/23/06 16:47
Lead	110		0.61	0.073	mg/Kg-dry	1	01/23/06 16:47
Magnesium	1800		120	0.86	mg/Kg-dry	1	01/23/06 16:47
Manganese	380		6.1	0.041	mg/Kg-dry	1	01/23/06 16:47
Nickel	40		6.1	0.16	mg/Kg-dry	1	01/23/06 16:47
Potassium	420	J	610	9.9	mg/Kg-dry	1	01/23/06 16:47
Selenium	0.97		0.61	0.30	mg/Kg-dry	1	01/23/06 16:47
Silver	0.31	J	1.2	0.099	mg/Kg-dry	1	01/23/06 16:47
Sodium	260		120	0.77	mg/Kg-dry	1	01/23/06 16:47
Thallium	0.70	J	1.2	0.26	mg/Kg-dry	1	01/23/06 16:47
Vanadium	9.0		6.1	0.098	mg/Kg-dry	1	01/23/06 16:47
Zinc	300		1.2	0.27	mg/Kg-dry	1	01/23/06 16:47

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:51

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: ICAP 61E

Sample Size: 0.5 g

ColumnID:

%Moisture: 8.0

Revision: 01/25/06 8:22:44 A

TestCode: 6010S

Lab ID: 0601049-020B

Client Sample ID: BH-34-D

Collection Date: 01/11/06 14:40

Date Received: 01/12/06 7:50

PrepDate: 01/19/06 12:00 A

BatchNo: 2422/R4293

FileID: 1-SAMP-10978

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B		(SW3050B)	
Aluminum	680	11		1.6	mg/Kg-dry 1		01/23/06 16:51
Antimony	ND	6.5		0.21	mg/Kg-dry 1		01/23/06 16:51
Arsenic	0.78	0.54		0.24	mg/Kg-dry 1		01/23/06 16:51
Barium	5.8 J	11		0.037	mg/Kg-dry 1		01/23/06 16:51
Beryllium	0.052 J	1.1		0.0052	mg/Kg-dry 1		01/23/06 16:51
Cadmium	0.049 J	1.1		0.025	mg/Kg-dry 1		01/23/06 16:51
Calcium	480	110		1.5	mg/Kg-dry 1		01/23/06 16:51
Chromium	2.1	1.1		0.14	mg/Kg-dry 1		01/23/06 16:51
Cobalt	0.50 J	5.4		0.12	mg/Kg-dry 1		01/23/06 16:51
Copper	2.8	1.1		0.18	mg/Kg-dry 1		01/23/06 16:51
Iron	4400	5.4		0.43	mg/Kg-dry 1		01/23/06 16:51
Lead	3.3	0.54		0.065	mg/Kg-dry 1		01/23/06 16:51
Magnesium	290	110		0.76	mg/Kg-dry 1		01/23/06 16:51
Manganese	41	5.4		0.036	mg/Kg-dry 1		01/23/06 16:51
Nickel	1.7 J	5.4		0.14	mg/Kg-dry 1		01/23/06 16:51
Potassium	94 J	540		8.7	mg/Kg-dry 1		01/23/06 16:51
Selenium	ND	0.54		0.26	mg/Kg-dry 1		01/23/06 16:51
Silver	ND	1.1		0.087	mg/Kg-dry 1		01/23/06 16:51
Sodium	65 J	110		0.68	mg/Kg-dry 1		01/23/06 16:51
Thallium	ND	1.1		0.23	mg/Kg-dry 1		01/23/06 16:51
Vanadium	1.8 J	5.4		0.087	mg/Kg-dry 1		01/23/06 16:51
Zinc	12	1.1		0.24	mg/Kg-dry 1		01/23/06 16:51

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.**Project:** Geneva Foundry**W Order:** 0601050**Matrix:** SOIL**Inst. ID:** ICAP 61E**Sample Size:** 0.5 g**ColumnID:****%Moisture:** 16.0**Revision:** 01/25/06 8:22:44 A**TestCode:** 6010S**Lab ID:** 0601050-001B**Client Sample ID:** BH-37**Collection Date:** 01/11/06 8:30**Date Received:** 01/12/06 0:00**PrepDate:** 01/19/06 12:00 A**BatchNo:** 2421/R4293**FileID:** 1-SAMP-10988

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B		(SW3050B)	
Aluminum	2200		60	9.0	mg/Kg-dry	5	01/23/06 17:39
Antimony	1.8 J		36	1.1	mg/Kg-dry	5	01/23/06 17:39
Arsenic	6.1		3.0	1.3	mg/Kg-dry	5	01/23/06 17:39
Barium	31 J		60	0.20	mg/Kg-dry	5	01/23/06 17:39
Beryllium	0.18 J		6.0	0.029	mg/Kg-dry	5	01/23/06 17:39
Cadmium	1.1 J		6.0	0.14	mg/Kg-dry	5	01/23/06 17:39
Calcium	23000		600	6.1	mg/Kg-dry	5	01/23/06 17:39
Chromium	95		6.0	0.74	mg/Kg-dry	5	01/23/06 17:39
Cobalt	6.3 J		30	0.64	mg/Kg-dry	5	01/23/06 17:39
Copper	95		6.0	0.97	mg/Kg-dry	5	01/23/06 17:39
Iron	63000		30	2.3	mg/Kg-dry	5	01/23/06 17:39
Lead	200		3.0	0.35	mg/Kg-dry	5	01/23/06 17:39
Magnesium	4700		600	4.1	mg/Kg-dry	5	01/23/06 17:39
Manganese	550		30	0.20	mg/Kg-dry	5	01/23/06 17:39
Nickel	78		30	0.77	mg/Kg-dry	5	01/23/06 17:39
Potassium	430 J		3000	48	mg/Kg-dry	5	01/23/06 17:39
Selenium	ND		3.0	1.4	mg/Kg-dry	5	01/23/06 17:39
Silver	ND		6.0	0.48	mg/Kg-dry	5	01/23/06 17:39
Sodium	51 J		600	3.7	mg/Kg-dry	5	01/23/06 17:39
Thallium	2.2 J		6.0	1.3	mg/Kg-dry	5	01/23/06 17:39
Vanadium	7.6 J		30	0.48	mg/Kg-dry	5	01/23/06 17:39
Zinc	140		6.0	1.3	mg/Kg-dry	5	01/23/06 17:39

NOTES:

* The reporting limits were raised due to sample matrix interference.

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit



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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 0.5 g

%Moisture: 18.3

TestCode: 6010S

Lab ID: 0601050-002B

Client Sample ID: BH-35-S

Collection Date: 01/11/06 8:55

Date Received: 01/12/06 0:00

PrepDate: 01/19/06 12:00 A

BatchNo: 2421/R4293

FileID: 1-SAMP-10930

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B		(SW3050B)	
Aluminum	17000	12		1.9	mg/Kg-dry 1		01/23/06 13:54
Antimony	0.23 J	7.3		0.23	mg/Kg-dry 1		01/23/06 13:54
Arsenic	6.8	0.61		0.27	mg/Kg-dry 1		01/23/06 13:54
Barium	110	12		0.041	mg/Kg-dry 1		01/23/06 13:54
Beryllium	0.96 J	1.2		0.0059	mg/Kg-dry 1		01/23/06 13:54
Cadmium	0.071 J	1.2		0.029	mg/Kg-dry 1		01/23/06 13:54
Calcium	59000	120		1.7	mg/Kg-dry 1		01/23/06 13:54
Chromium	23	1.2		0.15	mg/Kg-dry 1		01/23/06 13:54
Cobalt	14	6.1		0.13	mg/Kg-dry 1		01/23/06 13:54
Copper	27	1.2		0.20	mg/Kg-dry 1		01/23/06 13:54
Iron	29000	6.1		0.48	mg/Kg-dry 1		01/23/06 13:54
Lead	16	0.61		0.073	mg/Kg-dry 1		01/23/06 13:54
Magnesium	9500	120		0.85	mg/Kg-dry 1		01/23/06 13:54
Manganese	500	6.1		0.041	mg/Kg-dry 1		01/23/06 13:54
Nickel	37	6.1		0.18	mg/Kg-dry 1		01/23/06 13:54
Potassium	2900	610		9.8	mg/Kg-dry 1		01/23/06 13:54
Selenium	0.88	0.61		0.30	mg/Kg-dry 1		01/23/06 13:54
Silver	ND	1.2		0.098	mg/Kg-dry 1		01/23/06 13:54
Sodium	65 J	120		0.77	mg/Kg-dry 1		01/23/06 13:54
Thallium	0.26 J	1.2		0.26	mg/Kg-dry 1		01/23/06 13:54
Vanadium	31	6.1		0.098	mg/Kg-dry 1		01/23/06 13:54
Zinc	68	1.2		0.27	mg/Kg-dry 1		01/23/06 13:54

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 16:05

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: ICAP 61E

Sample Size: 0.5 g

ColumnID:

%Moisture: 20.9

Revision: 01/25/06 8:22:44 A

TestCode: 6010S

Lab ID: 0601050-003B

Client Sample ID: BH-35-D

Collection Date: 01/11/06 9:05

Date Received: 01/12/06 0:00

PrepDate: 01/19/06 12:00 A

BatchNo: 2421/R4293

FileID: 1-SAMP-10931

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B		(SW3050B)	
Aluminum	19000	13		1.9	mg/Kg-dry 1		01/23/06 13:58
Antimony	ND	7.6		0.24	mg/Kg-dry 1		01/23/06 13:58
Arsenic	6.4	0.63		0.28	mg/Kg-dry 1		01/23/06 13:58
Barium	130	13		0.042	mg/Kg-dry 1		01/23/06 13:58
Beryllium	0.93 J	1.3		0.0061	mg/Kg-dry 1		01/23/06 13:58
Cadmium	0.21 J	1.3		0.030	mg/Kg-dry 1		01/23/06 13:58
Calcium	4300	130		1.7	mg/Kg-dry 1		01/23/06 13:58
Chromium	25	1.3		0.16	mg/Kg-dry 1		01/23/06 13:58
Cobalt	11	6.3		0.14	mg/Kg-dry 1		01/23/06 13:58
Copper	21	1.3		0.21	mg/Kg-dry 1		01/23/06 13:58
Iron	30000	6.3		0.50	mg/Kg-dry 1		01/23/06 13:58
Lead	53	0.63		0.075	mg/Kg-dry 1		01/23/06 13:58
Magnesium	5400	130		0.88	mg/Kg-dry 1		01/23/06 13:58
Manganese	540	6.3		0.042	mg/Kg-dry 1		01/23/06 13:58
Nickel	28	6.3		0.16	mg/Kg-dry 1		01/23/06 13:58
Potassium	2000	630		10	mg/Kg-dry 1		01/23/06 13:58
Selenium	0.90	0.63		0.31	mg/Kg-dry 1		01/23/06 13:58
Silver	ND	1.3		0.10	mg/Kg-dry 1		01/23/06 13:58
Sodium	39 J	130		0.80	mg/Kg-dry 1		01/23/06 13:58
Thallium	2.0	1.3		0.27	mg/Kg-dry 1		01/23/06 13:58
Vanadium	34	6.3		0.10	mg/Kg-dry 1		01/23/06 13:58
Zinc	62	1.3		0.28	mg/Kg-dry 1		01/23/06 13:58

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: ICAP 61E

Sample Size: 0.5 g

ColumnID:

%Moisture: 3.9

Revision: 01/25/06 8:22:44 A

TestCode: 6010S

Lab ID: 0601050-004B

Client Sample ID: BH-36-S

Collection Date: 01/10/06 14:20

Date Received: 01/12/06 0:00

PrepDate: 01/19/06 12:00 A

BatchNo: 2421/R4293

FileID: 1-SAMP-10932

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B		(SW3050B)	
Aluminum	2300	10		1.6	mg/Kg-dry	1	01/23/06 14:01
Antimony	ND	6.2		0.20	mg/Kg-dry	1	01/23/06 14:01
Arsenic	3.8	0.52		0.23	mg/Kg-dry	1	01/23/06 14:01
Barium	6.0 J	10		0.035	mg/Kg-dry	1	01/23/06 14:01
Beryllium	0.29 J	1.0		0.0050	mg/Kg-dry	1	01/23/06 14:01
Cadmium	ND	1.0		0.024	mg/Kg-dry	1	01/23/06 14:01
Calcium	290000 E	100		1.4	mg/Kg-dry	1	01/23/06 14:01
Chromium	5.1	1.0		0.13	mg/Kg-dry	1	01/23/06 14:01
Cobalt	9.0	5.2		0.11	mg/Kg-dry	1	01/23/06 14:01
Copper	9.3	1.0		0.17	mg/Kg-dry	1	01/23/06 14:01
Iron	6200	5.2		0.41	mg/Kg-dry	1	01/23/06 14:01
Lead	3.2	0.52		0.062	mg/Kg-dry	1	01/23/06 14:01
Magnesium	14000	100		0.72	mg/Kg-dry	1	01/23/06 14:01
Manganese	460	5.2		0.035	mg/Kg-dry	1	01/23/06 14:01
Nickel	21	5.2		0.13	mg/Kg-dry	1	01/23/06 14:01
Selenium	ND	0.52		0.25	mg/Kg-dry	1	01/23/06 14:01
Silver	ND	1.0		0.084	mg/Kg-dry	1	01/23/06 14:01
Sodium	160	100		0.66	mg/Kg-dry	1	01/23/06 14:01
Vanadium	8.0	5.2		0.083	mg/Kg-dry	1	01/23/06 14:01
Zinc	27	1.0		0.23	mg/Kg-dry	1	01/23/06 14:01

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 16:05

Project Supervisor: Thomas A. Alexander

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 0.5 g

%Moisture: 3.9

TestCode: 6010S

Lab ID: 0601050-004B

Client Sample ID: BH-36-S

Collection Date: 01/10/06 14:20

Date Received: 01/12/06 0:00

PrepDate: 01/19/06 12:00 A

BatchNo: 2421/R4293

FileID: 1-DL-10995

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B		(SW3050B)	
Calcium	280000		520	7.1	mg/Kg-dry	5	01/23/06 18:09
Potassium	1500	J	2600	42	mg/Kg-dry	5	01/23/06 18:09
Thallium	ND		5.2	1.1	mg/Kg-dry	5	01/23/06 18:09

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 16:05

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 0.5 g

%Moisture: 12.9

TestCode: 6010S

Lab ID: 0601050-005B

Client Sample ID: BH-36-D

Collection Date: 01/10/06 14:30

Date Received: 01/12/06 0:00

PrepDate: 01/19/06 12:00 A

BatchNo: 2421/R4293

FileID: 1-SAMP-10933

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP			SW6010B		(SW3050B)		
Aluminum	5300	11		1.7	mg/Kg-dry 1		01/23/06 14:04
Antimony	0.53 J	6.9		0.22	mg/Kg-dry 1		01/23/06 14:04
Arsenic	4.2	0.57		0.25	mg/Kg-dry 1		01/23/06 14:04
Barium	48	11		0.039	mg/Kg-dry 1		01/23/06 14:04
Beryllium	0.44 J	1.1		0.0055	mg/Kg-dry 1		01/23/06 14:04
Cadmium	0.093 J	1.1		0.027	mg/Kg-dry 1		01/23/06 14:04
Calcium	23000	110		1.6	mg/Kg-dry 1		01/23/06 14:04
Chromium	19	1.1		0.14	mg/Kg-dry 1		01/23/06 14:04
Cobalt	3.8 J	5.7		0.12	mg/Kg-dry 1		01/23/06 14:04
Copper	40	1.1		0.19	mg/Kg-dry 1		01/23/06 14:04
Iron	29000	5.7		0.45	mg/Kg-dry 1		01/23/06 14:04
Lead	14	0.57		0.068	mg/Kg-dry 1		01/23/06 14:04
Magnesium	2400	110		0.80	mg/Kg-dry 1		01/23/06 14:04
Manganese	870	5.7		0.038	mg/Kg-dry 1		01/23/06 14:04
Nickel	12	5.7		0.15	mg/Kg-dry 1		01/23/06 14:04
Potassium	670	570		9.2	mg/Kg-dry 1		01/23/06 14:04
Selenium	0.54 J	0.57		0.28	mg/Kg-dry 1		01/23/06 14:04
Silver	0.12 J	1.1		0.092	mg/Kg-dry 1		01/23/06 14:04
Sodium	150	110		0.72	mg/Kg-dry 1		01/23/06 14:04
Thallium	0.92 J	1.1		0.24	mg/Kg-dry 1		01/23/06 14:04
Vanadium	18	5.7		0.092	mg/Kg-dry 1		01/23/06 14:04
Zinc	27	1.1		0.25	mg/Kg-dry 1		01/23/06 14:04

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/26/06 16:05

Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: WATER

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 50 mL

%Moisture:

TestCode: 6010W05

Lab ID: 0601050-006C

Client Sample ID: 1/10 EQUIP BLANK

Collection Date: 01/10/06 16:00

Date Received: 01/12/06 0:00

PrepDate: 01/13/06 12:00 A

BatchNo: 2388/R4293

FileID: 1-SAMP-10912

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B		(SW3005A)	
Aluminum	0.036	J	0.10	0.013	mg/L	1	01/23/06 12:51
Antimony	ND		0.060	0.0023	mg/L	1	01/23/06 12:51
Arsenic	ND		0.0050	0.0019	mg/L	1	01/23/06 12:51
Barium	0.00043	J	0.10	0.00031	mg/L	1	01/23/06 12:51
Beryllium	ND		0.010	0.00014	mg/L	1	01/23/06 12:51
Cadmium	0.00030	J	0.010	0.00027	mg/L	1	01/23/06 12:51
Calcium	0.045	J	1.0	0.014	mg/L	1	01/23/06 12:51
Chromium	ND		0.010	0.0013	mg/L	1	01/23/06 12:51
Cobalt	ND		0.050	0.0012	mg/L	1	01/23/06 12:51
Copper	ND		0.010	0.0016	mg/L	1	01/23/06 12:51
Iron	ND		0.050	0.0053	mg/L	1	01/23/06 12:51
Lead	ND		0.0050	0.00084	mg/L	1	01/23/06 12:51
Magnesium	ND		1.0	0.011	mg/L	1	01/23/06 12:51
Manganese	ND		0.050	0.00018	mg/L	1	01/23/06 12:51
Nickel	0.0013	J	0.050	0.0012	mg/L	1	01/23/06 12:51
Potassium	ND		5.0	0.089	mg/L	1	01/23/06 12:51
Selenium	ND		0.0050	0.0022	mg/L	1	01/23/06 12:51
Silver	0.0015	J	0.010	0.00095	mg/L	1	01/23/06 12:51
Sodium	0.025	J	1.0	0.0050	mg/L	1	01/23/06 12:51
Thallium	ND		0.010	0.0046	mg/L	1	01/23/06 12:51
Vanadium	ND		0.050	0.0014	mg/L	1	01/23/06 12:51
Zinc	ND		0.010	0.0017	mg/L	1	01/23/06 12:51

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 16:05

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: WATER

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 50 mL

%Moisture:

TestCode: 6010W05

Lab ID: 0601050-007C

Client Sample ID: 1/11 EQUIP BLANK

Collection Date: 01/11/06 16:00

Date Received: 01/12/06 0:00

PrepDate: 01/13/06 12:00 A

BatchNo: 2388/R4293

FileID: 1-SAMP-10913

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B		(SW3005A)	
Aluminum	0.034	J	0.10	0.013	mg/L	1	01/23/06 12:54
Antimony	ND		0.060	0.0023	mg/L	1	01/23/06 12:54
Arsenic	ND		0.0050	0.0019	mg/L	1	01/23/06 12:54
Barium	ND		0.10	0.00031	mg/L	1	01/23/06 12:54
Beryllium	ND		0.010	0.00014	mg/L	1	01/23/06 12:54
Cadmium	ND		0.010	0.00027	mg/L	1	01/23/06 12:54
Calcium	0.026	J	1.0	0.014	mg/L	1	01/23/06 12:54
Chromium	ND		0.010	0.0013	mg/L	1	01/23/06 12:54
Cobalt	ND		0.050	0.0012	mg/L	1	01/23/06 12:54
Copper	ND		0.010	0.0016	mg/L	1	01/23/06 12:54
Iron	ND		0.050	0.0053	mg/L	1	01/23/06 12:54
Lead	ND		0.0050	0.00084	mg/L	1	01/23/06 12:54
Magnesium	ND		1.0	0.011	mg/L	1	01/23/06 12:54
Manganese	ND		0.050	0.00018	mg/L	1	01/23/06 12:54
Nickel	ND		0.050	0.0012	mg/L	1	01/23/06 12:54
Potassium	ND		5.0	0.089	mg/L	1	01/23/06 12:54
Selenium	ND		0.0050	0.0022	mg/L	1	01/23/06 12:54
Silver	ND		0.010	0.00095	mg/L	1	01/23/06 12:54
Sodium	0.0059	J	1.0	0.0050	mg/L	1	01/23/06 12:54
Thallium	ND		0.010	0.0046	mg/L	1	01/23/06 12:54
Vanadium	ND		0.050	0.0014	mg/L	1	01/23/06 12:54
Zinc	ND		0.010	0.0017	mg/L	1	01/23/06 12:54

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 0.5 g

%Moisture: 20.8

TestCode: 6010S

Lab ID: 0601060-001B

Client Sample ID: BH-30-S

Collection Date: 01/11/06 16:35

Date Received: 01/12/06 15:35

PrepDate: 01/19/06 12:00 A

BatchNo: 2421/R4293

FileID: 1-SAMP-10996

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)		
Aluminum	4900		63	9.6	mg/Kg-dry	5	01/23/06 18:13
Antimony	3.3 J		38	1.2	mg/Kg-dry	5	01/23/06 18:13
Arsenic	13		3.2	1.4	mg/Kg-dry	5	01/23/06 18:13
Barium	260		63	0.21	mg/Kg-dry	5	01/23/06 18:13
Beryllium	0.28 J		6.3	0.030	mg/Kg-dry	5	01/23/06 18:13
Cadmium	2.6 J		6.3	0.15	mg/Kg-dry	5	01/23/06 18:13
Calcium	47000		630	8.6	mg/Kg-dry	5	01/23/06 18:13
Chromium	70		6.3	0.79	mg/Kg-dry	5	01/23/06 18:13
Cobalt	6.2 J		32	0.68	mg/Kg-dry	5	01/23/06 18:13
Copper	150		6.3	1.0	mg/Kg-dry	5	01/23/06 18:13
Iron	67000		32	2.5	mg/Kg-dry	5	01/23/06 18:13
Lead	590		3.2	0.38	mg/Kg-dry	5	01/23/06 18:13
Magnesium	6300		630	4.4	mg/Kg-dry	5	01/23/06 18:13
Manganese	550		32	0.21	mg/Kg-dry	5	01/23/06 18:13
Nickel	50		32	0.82	mg/Kg-dry	5	01/23/06 18:13
Potassium	850 J		3200	51	mg/Kg-dry	5	01/23/06 18:13
Selenium	ND		3.2	1.5	mg/Kg-dry	5	01/23/06 18:13
Silver	0.71 J		6.3	0.51	mg/Kg-dry	5	01/23/06 18:13
Sodium	220 J		630	4.0	mg/Kg-dry	5	01/23/06 18:13
Thallium	ND		6.3	1.3	mg/Kg-dry	5	01/23/06 18:13
Vanadium	28 J		32	0.50	mg/Kg-dry	5	01/23/06 18:13
Zinc	610		6.3	1.4	mg/Kg-dry	5	01/23/06 18:13

NOTES:

* The reporting limits were raised due to sample matrix interference.

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/26/06 16:19

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: ICAP 61E

Sample Size: 0.5 g

ColumnID:

%Moisture: 19.5

Revision: 01/25/06 8:22:44 A

TestCode: 6010S

Lab ID: 0601060-002B

Client Sample ID: BH-32-S

Collection Date: 01/12/06 10:15

Date Received: 01/12/06 15:35

PrepDate: 01/19/06 12:00 A

BatchNo: 2421/R4293

FileID: I-SAMP-10935

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)		
Aluminum	12000		12	1.9	mg/Kg-dry	1	01/23/06 14:11
Antimony	0.89 J		7.5	0.24	mg/Kg-dry	1	01/23/06 14:11
Arsenic	11		0.62	0.27	mg/Kg-dry	1	01/23/06 14:11
Barium	110		12	0.042	mg/Kg-dry	1	01/23/06 14:11
Beryllium	0.59 J		1.2	0.0060	mg/Kg-dry	1	01/23/06 14:11
Cadmium	0.32 J		1.2	0.029	mg/Kg-dry	1	01/23/06 14:11
Calcium	35000		120	1.7	mg/Kg-dry	1	01/23/06 14:11
Chromium	23		1.2	0.16	mg/Kg-dry	1	01/23/06 14:11
Cobalt	8.4		6.2	0.13	mg/Kg-dry	1	01/23/06 14:11
Copper	61		1.2	0.20	mg/Kg-dry	1	01/23/06 14:11
Iron	59000		6.2	0.49	mg/Kg-dry	1	01/23/06 14:11
Lead	150		0.62	0.074	mg/Kg-dry	1	01/23/06 14:11
Magnesium	6600		120	0.87	mg/Kg-dry	1	01/23/06 14:11
Manganese	580		6.2	0.042	mg/Kg-dry	1	01/23/06 14:11
Nickel	22		6.2	0.16	mg/Kg-dry	1	01/23/06 14:11
Potassium	1800		620	10	mg/Kg-dry	1	01/23/06 14:11
Selenium	2.3		0.62	0.30	mg/Kg-dry	1	01/23/06 14:11
Silver	0.12 J		1.2	0.10	mg/Kg-dry	1	01/23/06 14:11
Sodium	150		120	0.78	mg/Kg-dry	1	01/23/06 14:11
Thallium	1.2		1.2	0.26	mg/Kg-dry	1	01/23/06 14:11
Vanadium	38		6.2	0.099	mg/Kg-dry	1	01/23/06 14:11
Zinc	1100 E		1.2	0.27	mg/Kg-dry	1	01/23/06 14:11

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 16:19

Project Supervisor: Thomas A. Alexander



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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 0.5 g

%Moisture: 19.5

TestCode: 6010S

Lab ID: 0601060-002B

Client Sample ID: BH-32-S

Collection Date: 01/12/06 10:15

Date Received: 01/12/06 15:35

PrepDate: 01/19/06 12:00 A

BatchNo: 2421/R4293

FileID: 1-DL-10997

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B		(SW3050B)	
Zinc	1200	6.2		1.4	mg/Kg-dry	5	01/23/06 18:17

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/26/06 16:19

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 0.5 g

%Moisture: 15.1

TestCode: 6010S

Lab ID: 0601060-003B

Client Sample ID: BH-32-D

Collection Date: 01/12/06 10:30

Date Received: 01/12/06 15:35

PrepDate: 01/19/06 12:00 A

BatchNo: 2421/R4293

FileID: 1-SAMP-10936

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)		
Aluminum	6100		12	1.8	mg/Kg-dry	1	01/23/06 14:15
Antimony	0.25	J	7.1	0.22	mg/Kg-dry	1	01/23/06 14:15
Arsenic	5.9		0.59	0.26	mg/Kg-dry	1	01/23/06 14:15
Barium	64		12	0.040	mg/Kg-dry	1	01/23/06 14:15
Beryllium	0.36	J	1.2	0.0057	mg/Kg-dry	1	01/23/06 14:15
Cadmium	0.25	J	1.2	0.028	mg/Kg-dry	1	01/23/06 14:15
Calcium	6900		120	1.6	mg/Kg-dry	1	01/23/06 14:15
Chromium	9.3		1.2	0.15	mg/Kg-dry	1	01/23/06 14:15
Cobalt	4.1	J	5.9	0.13	mg/Kg-dry	1	01/23/06 14:15
Copper	43		1.2	0.19	mg/Kg-dry	1	01/23/06 14:15
Iron	18000		5.9	0.46	mg/Kg-dry	1	01/23/06 14:15
Lead	40		0.59	0.070	mg/Kg-dry	1	01/23/06 14:15
Magnesium	2700		120	0.82	mg/Kg-dry	1	01/23/06 14:15
Manganese	260		5.9	0.039	mg/Kg-dry	1	01/23/06 14:15
Nickel	8.7		5.9	0.15	mg/Kg-dry	1	01/23/06 14:15
Potassium	820		590	9.5	mg/Kg-dry	1	01/23/06 14:15
Selenium	0.58	J	0.59	0.28	mg/Kg-dry	1	01/23/06 14:15
Silver	0.20	J	1.2	0.095	mg/Kg-dry	1	01/23/06 14:15
Sodium	100	J	120	0.74	mg/Kg-dry	1	01/23/06 14:15
Thallium	0.67	J	1.2	0.25	mg/Kg-dry	1	01/23/06 14:15
Vanadium	18		5.9	0.094	mg/Kg-dry	1	01/23/06 14:15
Zinc	89		1.2	0.26	mg/Kg-dry	1	01/23/06 14:15

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 16:19

Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: ICAP 61E

ColumnID:

Revision: 01/25/06 8:22:44 A

Sample Size: 0.5 g

%Moisture: 14.6

TestCode: 6010S

Lab ID: 0601060-004B

Client Sample ID: BH-33-S

Collection Date: 01/12/06 10:45

Date Received: 01/12/06 15:35

PrepDate: 01/19/06 12:00 A

BatchNo: 2421/R4293

FileID: 1-SAMP-10937

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
TOTAL METALS BY ICP				SW6010B	(SW3050B)		
Aluminum	6500	12		1.8	mg/Kg-dry	1	01/23/06 14:18
Antimony	3.4 J	7.0		0.22	mg/Kg-dry	1	01/23/06 14:18
Arsenic	10	0.59		0.26	mg/Kg-dry	1	01/23/06 14:18
Barium	77	12		0.039	mg/Kg-dry	1	01/23/06 14:18
Beryllium	0.33 J	1.2		0.0056	mg/Kg-dry	1	01/23/06 14:18
Cadmium	0.43 J	1.2		0.027	mg/Kg-dry	1	01/23/06 14:18
Calcium	48000	120		1.6	mg/Kg-dry	1	01/23/06 14:18
Chromium	18	1.2		0.15	mg/Kg-dry	1	01/23/06 14:18
Cobalt	3.8 J	5.9		0.13	mg/Kg-dry	1	01/23/06 14:18
Copper	41	1.2		0.19	mg/Kg-dry	1	01/23/06 14:18
Iron	48000	5.9		0.46	mg/Kg-dry	1	01/23/06 14:18
Lead	170	0.59		0.070	mg/Kg-dry	1	01/23/06 14:18
Magnesium	5900	120		0.82	mg/Kg-dry	1	01/23/06 14:18
Manganese	460	5.9		0.039	mg/Kg-dry	1	01/23/06 14:18
Nickel	12	5.9		0.15	mg/Kg-dry	1	01/23/06 14:18
Potassium	1200	590		9.4	mg/Kg-dry	1	01/23/06 14:18
Selenium	1.7	0.59		0.28	mg/Kg-dry	1	01/23/06 14:18
Silver	0.15 J	1.2		0.094	mg/Kg-dry	1	01/23/06 14:18
Sodium	120	120		0.74	mg/Kg-dry	1	01/23/06 14:18
Thallium	0.49 J	1.2		0.25	mg/Kg-dry	1	01/23/06 14:18
Vanadium	18	5.9		0.094	mg/Kg-dry	1	01/23/06 14:18
Zinc	240	1.2		0.26	mg/Kg-dry	1	01/23/06 14:18

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 16:19

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 12.7

TestCode: HG7471S

Lab ID: 0601049-001B

Client Sample ID: BH-20-S

Collection Date: 01/11/06 7:55

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.43	0.11		0.0026	mg/Kg-dry 1		01/16/06 18:07

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 13.2

TestCode: HG7471S

Lab ID: 0601049-002B

Client Sample ID: BH-20-D

Collection Date: 01/11/06 8:05

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.086	J	0.12	0.0026	mg/Kg-dry 1		01/16/06 18:09

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 12:03:45 P

Sample Size: 0.3 g

%Moisture: 13.2

TestCode: HG7471S

Lab ID: 0601049-002B

Client Sample ID: BH-20-D

Collection Date: 01/11/06 8:05

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4231

FileID: 1-RA-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.082	J	0.12	0.0026	mg/Kg-dry 1		01/17/06 13:24

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits
E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 13.5

TestCode: HG7471S

Lab ID: 0601049-003B

Client Sample ID: BH-21-S

Collection Date: 01/10/06 15:15

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.11	J	0.12	0.0027	mg/Kg-dry 1		01/16/06 18:21

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 15.0

TestCode: HG7471S

Lab ID: 0601049-004B

Client Sample ID: BH-21-D

Collection Date: 01/10/06 15:25

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.060	J	0.12	0.0027	mg/Kg-dry 1		01/16/06 18:23

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 14.8

TestCode: HG7471S

Lab ID: 0601049-005B

Client Sample ID: BH-22-S

Collection Date: 01/10/06 13:00

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.39	0.12		0.0027	mg/Kg-dry 1		01/16/06 18:25

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 14.3

TestCode: HG7471S

Lab ID: 0601049-006B

Client Sample ID: BH-22-D

Collection Date: 01/10/06 13:20

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	1.0	0.12		0.0027	mg/Kg-dry 1		01/16/06 18:27

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 6.2

TestCode: HG7471S

Lab ID: 0601049-007B

Client Sample ID: BH-23-S

Collection Date: 01/10/06 14:00

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.11	0.11		0.0025	mg/Kg-dry 1		01/16/06 18:29

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	Lab ID:	0601049-008B
Project:	Geneva Foundry	Client Sample ID:	BH-24-S
W Order:	0601049	Collection Date:	01/11/06 9:40
Matrix:	SOIL	Date Received:	01/12/06 7:50
Inst. ID:	FIMS 100	Sample Size:	0.3 g
ColumnID:		PrepDate:	01/16/06 2:45 P
Revision:	01/18/06 11:49:01 A	BatchNo:	2396/R4230
		FileID:	1-SAMP-
		%Moisture:	19.7
		TestCode:	HG7471S

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.46	0.12		0.0029	mg/Kg-dry 1		01/16/06 18:31

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
S	Spike Recovery outside accepted recovery limits		

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	Lab ID:	0601049-009B
Project:	Geneva Foundry	Client Sample ID:	BH-24-D
W Order:	0601049	Collection Date:	01/11/06 9:50
Matrix:	SOIL	Date Received:	01/12/06 7:50
Inst. ID:	FIMS 100	Sample Size:	0.3 g
ColumnID:		%Moisture:	28.5
Revision:	01/18/06 11:49:01 A	TestCode:	HG7471S
		PrepDate:	01/16/06 2:45 P
		BatchNo:	2396/R4230
		FileID:	1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.12	J	0.14	0.0032	mg/Kg-dry 1		01/16/06 18:33

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

Sample Size: 0.3 g

ColumnID:

%Moisture: 19.1

Revision: 01/18/06 11:49:01 A

TestCode: HG7471S

Lab ID: 0601049-010B

Client Sample ID: BH-25-S

Collection Date: 01/11/06 12:10

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	1.2	0.12		0.0028	mg/Kg-dry 1		01/16/06 18:35

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 19.8

TestCode: HG7471S

Lab ID: 0601049-011B

Client Sample ID: BH-25-D

Collection Date: 01/11/06 12:20

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.52	0.12		0.0029	mg/Kg-dry 1		01/16/06 18:37

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 12.7

TestCode: HG7471S

Lab ID: 0601049-012B

Client Sample ID: BH-26-S

Collection Date: 01/11/06 12:35

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.039	J	0.11	0.0026	mg/Kg-dry	1	01/16/06 18:43

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	Lab ID:	0601049-013B
Project:	Geneva Foundry	Client Sample ID:	BH-27-S
W Order:	0601049	Collection Date:	01/11/06 13:40
Matrix:	SOIL	Date Received:	01/12/06 7:50
Inst. ID:	FIMS 100	Sample Size:	0.3 g
ColumnID:		%Moisture:	24.3
Revision:	01/18/06 11:49:01 A	TestCode:	HG7471S
		PrepDate:	01/16/06 2:45 P
		BatchNo:	2396/R4230
		FileID:	1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.057	J	0.13	0.0030	mg/Kg-dry 1		01/16/06 18:45

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 20.7

TestCode: HG7471S

Lab ID: 0601049-014B

Client Sample ID: BH-27-D

Collection Date: 01/11/06 13:55

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.39	0.13		0.0029	mg/Kg-dry 1		01/16/06 18:47

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 12.3

TestCode: HG7471S

Lab ID: 0601049-015B

Client Sample ID: BH-28-S

Collection Date: 01/11/06 15:10

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.16	0.11		0.0026	mg/Kg-dry 1		01/16/06 18:49

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 19.6

TestCode: HG7471S

Lab ID: 0601049-016B

Client Sample ID: BH-28-D

Collection Date: 01/11/06 15:20

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.29	0.12		0.0029	mg/Kg-dry 1		01/16/06 18:51

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 12.3

TestCode: HG7471S

Lab ID: 0601049-017B

Client Sample ID: BH-29-S

Collection Date: 01/11/06 16:05

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.042	J	0.11	0.0026	mg/Kg-dry 1		01/16/06 18:53

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 20.4

TestCode: HG7471S

Lab ID: 0601049-018B

Client Sample ID: BH-29-D

Collection Date: 01/11/06 16:20

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.24	0.13		0.0029	mg/Kg-dry 1		01/16/06 18:55

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Practical Quantitation Limit (PQL)
S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range
J Analyte detected below the PQL
P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 18.6

TestCode: HG7471S

Lab ID: 0601049-019B

Client Sample ID: BH-34-S

Collection Date: 01/11/06 14:30

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.12	J	0.12	0.0028	mg/Kg-dry 1		01/16/06 18:57

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601049

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 8.0

TestCode: HG7471S

Lab ID: 0601049-020B

Client Sample ID: BH-34-D

Collection Date: 01/11/06 14:40

Date Received: 01/12/06 7:50

PrepDate: 01/16/06 2:45 P

BatchNo: 2396/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.018	J	0.11	0.0025	mg/Kg-dry 1		01/16/06 18:59

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 15:59

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 16.0

TestCode: HG7471S

Lab ID: 0601050-001B

Client Sample ID: BH-37

Collection Date: 01/11/06 8:30

Date Received: 01/12/06 0:00

PrepDate: 01/16/06 2:45 P

BatchNo: 2395/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.14	0.12		0.0027	mg/Kg-dry 1		01/16/06 17:34

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 16:05

Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 18.3

TestCode: HG7471S

Lab ID: 0601050-002B

Client Sample ID: BH-35-S

Collection Date: 01/11/06 8:55

Date Received: 01/12/06 0:00

PrepDate: 01/16/06 2:45 P

BatchNo: 2395/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.037	J	0.12	0.0028	mg/Kg-dry 1		01/18/06 17:42

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 16:05

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 20.9

TestCode: HG7471S

Lab ID: 0601050-003B

Client Sample ID: BH-35-D

Collection Date: 01/11/06 9:05

Date Received: 01/12/06 0:00

PrepDate: 01/16/06 2:45 P

BatchNo: 2395/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.060	J	0.13	0.0029	mg/Kg-dry 1		01/16/06 17:44

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/26/06 16:05

Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	Lab ID:	0601050-004B
Project:	Geneva Foundry	Client Sample ID:	BH-36-S
W Order:	0601050	Collection Date:	01/10/06 14:20
Matrix:	SOIL	Date Received:	01/12/06 0:00
Inst. ID:	FIMS 100	Sample Size:	0.3 g
ColumnID:		%Moisture:	3.9
Revision:	01/18/06 11:49:01 A	TestCode:	HG7471S
		PrepDate:	01/16/06 2:45 P
		BatchNo:	2395/R4230
		FileID:	1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.018	J	0.10	0.0024	mg/Kg-dry 1		01/16/06 17:47

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/26/06 16:05

Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 12.9

TestCode: HG7471S

Lab ID: 0601050-005B

Client Sample ID: BH-36-D

Collection Date: 01/10/06 14:30

Date Received: 01/12/06 0:00

PrepDate: 01/16/06 2:45 P

BatchNo: 2395/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.075	J	0.11	0.0026	mg/Kg-dry 1		01/16/06 17:49

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 16:05

Project Supervisor: Thomas A. Alexander

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Analytical Results

StateCertNo: 10155

CLIENT:	O'Brien & Gere Engineers, Inc.	Lab ID:	0601050-006C
Project:	Geneva Foundry	Client Sample ID:	1/10 EQUIP BLANK
W Order:	0601050	Collection Date:	01/10/06 16:00
Matrix:	WATER	Date Received:	01/12/06 0:00
Inst. ID:	FIMS 100	Sample Size:	50 mL
ColumnID:		%Moisture:	
Revision:	02/01/06 8:55:47 A	TestCode:	HG7470W
		PrepDate:	01/17/06 12:00 A
		BatchNo:	2405/R4225
		FileID:	1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7470A		(SW7470A)	
Mercury	ND		0.00020	0.000026	mg/L	1	01/17/06 15:25

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 02/01/06 8:56

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601050

Matrix: WATER

Inst. ID: FIMS 100

Sample Size: 50 mL

ColumnID:

%Moisture:

Revision: 02/01/06 8:55:47 A

TestCode: HG7470W

Lab ID: 0601050-007C

Client Sample ID: 1/11 EQUIP BLANK

Collection Date: 01/11/06 16:00

Date Received: 01/12/06 0:00

PrepDate: 01/17/06 12:00 A

BatchNo: 2405/R4225

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7470A		(SW7470A)	
Mercury	ND		0.00020	0.000026	mg/L	1	01/17/06 15:27

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 02/01/06 8:56

Project Supervisor: Thomas A. Alexander



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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 20.8

TestCode: HG7471S

Lab ID: 0601060-001B

Client Sample ID: BH-30-S

Collection Date: 01/11/06 16:35

Date Received: 01/12/06 15:35

PrepDate: 01/16/06 2:45 P

BatchNo: 2395/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.59	0.13		0.0029	mg/Kg-dry 1		01/16/06 17:55

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 16:19

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 19.5

TestCode: HG7471S

Lab ID: 0601060-002B

Client Sample ID: BH-32-S

Collection Date: 01/12/06 10:15

Date Received: 01/12/06 15:35

PrepDate: 01/16/06 2:45 P

BatchNo: 2395/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.16	0.12		0.0029	mg/Kg-dry 1		01/16/06 17:56

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 16:19

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 15.1

TestCode: HG7471S

Lab ID: 0601060-003B

Client Sample ID: BH-32-D

Collection Date: 01/12/06 10:30

Date Received: 01/12/06 15:35

PrepDate: 01/16/06 2:45 P

BatchNo: 2395/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.093	J	0.12	0.0027	mg/Kg-dry 1		01/18/06 17:59

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 01/26/06 16:19

Project Supervisor: Thomas A. Alexander



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5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601060

Matrix: SOIL

Inst. ID: FIMS 100

ColumnID:

Revision: 01/18/06 11:49:01 A

Sample Size: 0.3 g

%Moisture: 14.6

TestCode: HG7471S

Lab ID: 0601060-004B

Client Sample ID: BH-33-S

Collection Date: 01/12/06 10:45

Date Received: 01/12/06 15:35

PrepDate: 01/16/06 2:45 P

BatchNo: 2395/R4230

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7471A		(SW7471A)	
Mercury	0.15	0.12		0.0027	mg/Kg-dry 1		01/16/06 18:01

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/26/06 16:19

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

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East Syracuse, NY 13057

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Analytical Results

StateCertNo: 10155

CLIENT: O'Brien & Gere Engineers, Inc.

Project: Geneva Foundry

W Order: 0601149

Matrix: WATER

Inst. ID: FIMS 100

ColumnID:

Revision: 01/30/06 9:28:33 A

Sample Size: 50 mL

%Moisture:

TestCode: HG7470W

Lab ID: 0601149-002A

Client Sample ID: MW-01

Collection Date: 01/26/06 13:00

Date Received: 01/27/06 8:30

PrepDate: 01/27/06 12:00 A

BatchNo: 2501/R4364

FileID: 1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7470A		(SW7470A)	
Mercury	0.00022	0.00020		0.000026	mg/L	1	01/27/06 17:50

Qualifiers:

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Practical Quantitation Limit (PQL)

S Spike Recovery outside accepted recovery limits

E Value exceeds the instrument calibration range

J Analyte detected below the PQL

P Prim./Conf. column %D or RPD exceeds limit

Print Date: 01/31/06 10:58

Project Supervisor: Thomas A. Alexander



Life Science Laboratories, Inc.

5000 Brittonfield Parkway, Suite 200

East Syracuse, NY 13057

(315) 437-0200

Analytical Results

StateCertNo: 10155

CLIENT	O'Brien & Gere Engineers, Inc.	Lab ID:	0601149-001A
Project:	Geneva Foundry	Client Sample ID:	MW-01 Lab Filtered
W Order:	0601149	Collection Date:	01/26/06 12:50
Matrix:	WATER	Date Received:	01/27/06 8:30
Inst. ID:	FIMS 100	Sample Size:	50 mL
ColumnID:		%Moisture:	
Revision:	02/06/06 9:02:42 A	TestCode:	HG7470W
		PrepDate:	01/27/06 12:00 A
		BatchNo:	2501/R4364
		FileID:	1-SAMP-

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
MERCURY				SW7470A		(SW7470A)	
Mercury	ND		0.00020	0.000026	mg/L	1	01/27/06 17:48

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value exceeds the instrument calibration range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below the PQL
	ND	Not Detected at the Practical Quantitation Limit (PQL)	P	Prim./Conf. column %D or RPD exceeds limit
	S	Spike Recovery outside accepted recovery limits		

Print Date: 02/16/06 7:03

Project Supervisor: Thomas A. Alexander

ATTACHMENT 2

DATA USABILITY SUMMARY REPORT (DUSR)

To: File
From: Karen Storne
Re: Geneva Foundry Investigation DUSR
File: 1740/33239
Date: June 30, 2006

cc: D Meixell
S Spiegel

A usability review of analytical data was performed for the analyses that were performed for the Geneva Foundry Site located in Geneva, New York. The samples were analyzed using United States Environmental Protection Agency (USEPA) methods. The following table summarizes the analysis performed for this investigation.

Table 1-1. Analytical methods and references		
Parameter	Method	Reference
VOCs	USEPA Method 5030A/5030B/8260B	1
SVOCs	USEPA Method 3520C/3550B/8270C	1
Metals	USEPA Method 3005B/6010B	1
Mercury	USEPA Method 7470A/7471A	1
Percent Total Solids	2540-G	2
Note:		
1	United States Environmental Protection Agency (USEPA). 2004. <i>Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, SW-846</i> , 3rd Edition, Update IIIB. Washington D.C.	
2	American Water Works Association (AWWA), American Public Health Association (APHA) and Water Environment Federation (WEF). 1992. <i>Standard Methods for the Examination of Water and Wastewater</i> , 18th Edition. Washington, D.C.	

The samples submitted for data validation are summarized in Table 1-2 provided in Attachment A.

The laboratory packages generated by Life Science Laboratories, Inc. contained summary forms for quality control analysis and supportive raw data. Full validation was performed on the aqueous and soil samples collected for this investigation. The analytical data generated for this investigation were evaluated by O'Brien & Gere using the quality assurance/quality control (QA/QC) criteria established in the USEPA Methods.

Data affected by excursions from criteria presented in the USEPA Methods were qualified using guidance provided in the following document and professional judgment:

- United States Environmental Protection Agency (USEPA). 1992. *USEPA Region II Evaluation of Metals Data for the CLP Program, SOP HW-2* Revision 11, (modified for SW-846 methods). New York, NY.
- United States Environmental Protection Agency (USEPA). 2001. *USEPA Region II Validating Semivolatile Organic Compounds by SW-846 Method 8270B, SOP HW-22*. New York, NY.
- United States Environmental Protection Agency (USEPA). 1999. *USEPA Region II Standard Operating Procedure For the Validation of Organic Data Acquired Using SW-846 Method 8260B, SOP HW-24*. New York, NY

The data review included evaluating the following parameters:

- Chain-of-custody records
- Sample collection issues
- Holding times and sample preservation
- Calibrations

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- Blank analysis
- Matrix spike/matrix spike duplicate (MS/MSD) analysis
- Laboratory control sample (LCS) analysis
- Field duplicate analysis
- Surrogate recoveries
- Internal standards performance
- Gas chromatography/mass spectrometry (GC/MS) instrument check
- Inductively Coupled Plasma (ICP) interference check sample analysis
- ICP serial dilution analysis
- Target analyte quantification, identification, and reported detection limits
- Documentation completeness
- Overall data assessment

O'Brien & Gere applies the following general approaches for application of data validation qualifiers when control limits are exceeded:

- If percent recoveries are less than laboratory control limits but greater than ten percent, non-detected, and detected results are qualified as approximate for organics (UJ, J).
- If percent recoveries are greater than laboratory control limits, detected results are qualified as approximate (J).
- If percent recoveries are less than ten percent, detected results are qualified as approximate (J) and non-detected results are qualified as rejected (R).
- If relative percent differences (RPDs) for matrix spikes (MSs) and matrix spike duplicates (MSDs) are outside of laboratory control limits, detected results are qualified as approximate (J).
- If RPDs for field duplicates are outside of validation criteria, detected and non-detected results are qualified as approximate (UJ, J).

For USEPA Method 8260B, target analytes were evaluated using the criteria of 15 percent relative standard deviation, (%RSD) for initial calibrations, or correlation coefficient of 0.990 for calibration curves, 20 percent difference (%D) for calibration verifications, and response factors (RFs) greater than or equal to 0.05 for target analytes and RFs greater than 0.01 for ketones.

For USEPA Method 8270C, target analytes were evaluated using the criteria of 15 percent relative standard deviation, (%RSD) for initial calibrations, or correlation coefficient of 0.990 for calibration curves, 20 percent difference (%D) for calibration verifications, and response factors (RFs) greater than or equal to 0.05 for target analytes.

For USEPA Methods 8260B and 8270C, sample result internal standard areas were evaluated using control limits of 50 percent to 200 percent recovery of the areas in the associated calibration verifications.

Field duplicate data were evaluated against relative percent difference (RPD) criteria of less than 50 percent for aqueous samples and less than 100 percent for solid samples when results were greater than five times the

reporting limit. When sample results for field duplicate pairs were less than five times the reporting limit, the data were evaluated using control limits of plus or minus two times the reporting limit.

The following sections of this memorandum presents the results of the comparison of the analytical data to the QA/QC criteria specified in USEPA Methods, the validation criteria applied to this analysis, and the qualifiers assigned to the data when the QA/QC criteria were not met. Excursions that resulted in the qualification of samples and additional observations are presented in the following sections.

SAMPLE COLLECTION ISSUES

Field duplicates were not collected as part of this investigation. Therefore, precision of the field collection process could not be evaluated during the validation task. Laboratory precision was measured through the evaluation of matrix spike/ matrix spike duplicate analyses.

DOCUMENTATION COMPLETENESS

During the validation process, the laboratory provided clarification information to supplement the data package material. This information was necessary to complete the validation process.

VOLATILE ORGANIC COMPOUND DATA EVALUATION SUMMARY

Excursions from quality control criteria and additional observations are summarized below.

I. Chain-of-custody records

The chain-of-custody records were completed properly.

II. Holding times

The method and validation holding time criterion for volatile organic analyses was met.

III. Blank analysis

Trip blanks, equipment blanks and method blanks were analyzed to evaluate the potential of introduced concentrations of target compounds. As a result of contamination in the in the method blanks, the result for acetone in samples BH-25-D, BH-25-S, BH-20-D, BH-21-S, BH-21-D, BH-27-D, BH-24-S, BH-22-S, BH-22-D, BH-23-S, BH-24-D, BH-27-S, BH-26-S, BH-28-S, BH-28-D, BH-29-S, BH-29-D, BH-34-S, BH-35-D, BH-37, BH-35-S, BH-36-D, BH-20-S, BH-34-D, BH-30-S, BH-32-D, BH-33-S, BH-32-S, and BH-36-S were qualified as undetected (U). As a result of contamination in the in the method blanks, the result for methylene chloride in samples BH-21-S, BH-21-D, BH-22-S, BH-23-S, BH-36-D, BH-20-S, BH-20-D, BH-24-S, BH-25-S, BH-25-D, BH-26-S, BH-27-D, BH-28-S, BH-34-S, BH-34-D, BH-30-S, BH-32-S, BH-32-D, BH-33-S, and BH-36-S were qualified as undetected (U).

IV. Calibrations

Calibration data were evaluated using the validation and USEPA Method 8260B criteria. The initial calibrations met the validation and USEPA Method 8260B criteria. As a result of a minor percent deviation excursions in the associated calibration verification, the results for dichlorodifluoromethane, bromomethane, carbon disulfide, methyl tert butyl ether, and naphthalene in samples BH-20-D, BH-21-S, BH-21-D, BH-22-S, BH-22-D, BH-23-S, BH-24-S, BH-24-D, BH-25-S, BH-25-D, BH-26-S, BH-27-S were qualified as approximate (UJ, J).

As a result of minor percent deviation excursions in the associated calibration verification, results for dichlorodifluoromethane, chloroethane, carbon disulfide, methyl tert butyl ether, and naphthalene in samples BH-28-S, BH-28-D, BH-29-S, BH-29-D, BH-34-S, BH-37, BH-35-S, BH-35-D, BH-36-D, Equipment Blank 1/10/06, and Equipment Blank 1/11/06 were qualified as approximate (UJ). As a result of a minor percent deviation excursion in the associated calibration verification the results for dichlorodifluoromethane, chloromethane, trichlorofluoromethane, and bromoform in samples BH-36-S, BH-20-S, BH-34-D, BH-30-S, BH-32-D, BH-33-S, BH-32-S, Trip Blank 1/10/06, and Trip Blank 1/11/06 were qualified as approximate (UJ).

V. GC/MS instrument check

GC/MS instrument checks met USEPA Method 8260B criteria; therefore, qualification of sample results for instrument check excursions was not required.

VI. Surrogate recoveries

Surrogates were evaluated using the laboratory control limits during the validation process. Surrogate recoveries were within the laboratory control limits with the following exceptions: Target analytes in samples BH-21-S, BH-22-S, BH-22-D, BH-23-S, BH-24-S, BH-25-S, BH-28-S, BH-34-S, and BH-30-S were qualified as approximate (UJ, J) due to low surrogate recoveries.

VII. MS/MSD analysis

The laboratory used spikes containing the complete target analyte list to generate the MS/MSD data. MS/MSD recoveries and relative percent difference (RPD) values were within the laboratory control limits for the majority of the MS/MSD samples. Results for naphthalene in sample BH-37, and results for 1,1-dichloropropene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2-dibromoethane, 1,2-dichloroethane, 1,4-dichlorobenzene, bromochloromethane, cis-1,2-dichloroethene, dibromomethane, methyl tert butyl ether, methylene chloride, naphthalene, styrene, toluene and trans-1,2-dichloroethene in sample BH-20-D were qualified as approximate (UJ) due to minor MS/MSD recovery excursions..

VIII. LCS analysis

The laboratory used spikes containing the complete target analyte list to generate the LCS data. LCS recoveries were evaluated using the laboratory control limits during the validation process. LCS recoveries were within the laboratory control limits with the following exception: Results for 1,1-dichloropropene and trans-1,2-dichloroethene in samples BH-20-D, BH-21-D, BH-21-S, BH-22-S, BH-22-D, BH-23-S, BH-24-S, BH-24-D, BH-25-S, BH-25-D, BH-26-S, BH-27-S, BH-27-D were qualified as approximate (UJ) due to minor LCS recovery excursions.

IX. Internal standards performance

Internal standard recoveries and retention time consistency were evaluated during the validation process. Results for 1,1,2,2-tetrachloroethene, isopropylbenzene, 1,2,3-trichloropropane, bromobenzene, n-propylbenzene, 2-chlorotoluene, 4-chlorotoluene, 1,3,5-trimethylbenzene, tert-butylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, 1,3-dichlorobenzene, p-isopropyltoluene, 1,4-dichlorobenzene, n-butylbenzene, 1,2-dichlorobenzene, 1,2-dibromo-3-chloropropane, 1,2,4-trichlorobenzene, hexachlorobutadiene, naphthalene and 1,2,3-trichlorobenzene in samples BH-20-S, BH-20-D, BH-21-S, BH-21-D, BH-22-S, BH-22-D, BH-24-S, BH-24-D, BH-23-S, BH-28-S, BH-37, BH-36-S, BH-34-D, BH-30-S were qualified as approximate (UJ, J) due to minor internal standard recovery excursions. Results for 1,3-dichloropropane, dibromochloromethane, tetrachloroethene, 1-chlorohexane, 1-chlorobenzene, ethylbenzene, xylenes, styrene, 1,1,1,2-tetrachlorobenzene, and bromoform in samples BH-25-S and BH-34-S were qualified as approximate (UJ, J) due to minor internal standard recovery excursions. Results for 1,1,2,2-tetrachloroethene, isopropylbenzene, 1,2,3-trichloropropane, bromobenzene, n-propylbenzene, 2-chlorotoluene, 4-chlorotoluene, 1,3,5-trimethylbenzene, naphthalene, tert-butylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, 1,3-dichlorobenzene, p-isopropyltoluene, 1,4-dichlorobenzene, n-butylbenzene, 1,2-dichlorobenzene, 1,2-dibromo-3-chloropropane, 1,2,4-trichlorobenzene, hexachlorobutadiene, and 1,2,3-trichlorobenzene in samples BH-25-S and BH-34-S were rejected (R) due to major internal standard recovery excursions. Re-analyses of the impacted samples confirmed the internal standard excursions.

X. Field duplicates

Field duplicate results were not collected during this investigation.

XI. Target analyte quantitation, identification and reported detection limits

A dilution was performed for sample BH-23-S as a result of matrix interference.

The qualifier "J" was applied by the laboratory when the analyte concentration was greater than the MDL but less than the practical quantitation limit (PQL). This qualifier has been retained during the validation process to indicate that the result is considered to be approximate.

XII. Overall assessment

- Target analytes were qualified as non-detected (U) due to method blank contamination.
- Target analytes were qualified as approximate (UJ, J) due to minor calibration verification excursions.
- Target analytes were qualified as approximate (UJ, J) due to minor surrogate recovery excursions.
- Target analytes were qualified as approximate (UJ) due to minor MS/MSD recovery excursions.
- Target analytes were qualified as approximate (UJ) due to minor LCS recovery excursions.
- Target analytes were qualified as approximate (UJ, J) due to minor internal standard recovery excursions.
- Results for 1,1,2,2-tetrachloroethene, isopropylbenzene, 1,2,3-trichloropropane, bromobenzene, n-propylbenzene, 2-chlorotoluene, 4-chlorotoluene, 1,3,5-trimethylbenzene, tert-butylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, 1,3-dichlorobenzene, p-isopropyltoluene, 1,4-dichlorobenzene, n-butylbenzene, 1,2-dichlorobenzene, 1,2-dibromo-3-chloropropane, naphthalene, 1,2,4-trichlorobenzene, hexachlorobutadiene, and 1,2,3-trichlorobenzene in samples BH-25-S and BH-34-S were rejected (R) due to major internal standard recovery excursions.
- The analyte concentrations reported by the laboratory that were greater than the MDL but less than the laboratory PQL, were qualified as approximate (J).

SEMIVOLATILE ORGANIC COMPOUND DATA EVALUATION SUMMARY

Excursions from quality control criteria and additional observations are summarized below.

I. Chain-of-custody records

The chain-of-custody records were completed properly.

II. Holding times

The method and validation holding time criterion for semivolatile organic analyses was met for the samples.

III. Blank analysis

Equipment blanks and method blanks were analyzed to evaluate the potential of introduced concentrations of target compounds. Results for di-n-butyl phthalate in samples BH-20-S, BH-20-D, BH-21-S, BH-21-D, BH-22-S, BH-24-D, BH-27-S, BH-29-S, and BH-34-D were qualified as non-detected (U) due to method blank contamination.

IV. Calibrations

Calibration data were evaluated using the validation and USEPA Method 8270C criteria. The initial calibrations met the validation and USEPA Method 8260B criteria. Results for aniline and bis (2-chloroisopropyl) ether in samples BH-24-S, Equipment Blank 1/10/06, Equipment Blank 1/11/06, BH-20-S, BH-20-D, BH-21-S, BH-21-D, BH-22-S, and BH-22-D were qualified as approximate (UJ) due to minor calibration verification excursions. Results for benzoic acid in samples BH-24-D, BH-26-S, BH-28-S, BH-34-S, BH-25-D, BH-27-S, BH-29-S, and BH-34-D were qualified as approximate (UJ) due to minor calibration verification excursions. Results for aniline, bis (2-chloroisopropyl) ether, hexachlorobutadiene, and 4-nitrophenol in samples BH-27-D, BH-28-D, BH-29-D, BH-25-S, BH-32-S, and BH-32-D were qualified as approximate (UJ) due to minor calibration verification excursions.

V. GC/MS instrument check

GC/MS instrument checks met USEPA Method 8270C criteria; therefore, qualification of sample results for instrument check excursions was not required.

VI. Surrogate recoveries

Surrogates were evaluated using the laboratory control limits during the validation process. Surrogate recoveries were within the laboratory control limits with the following exceptions: Base neutral target analytes in sample BH-27-D were qualified as approximate (UJ, J) due to low surrogate recoveries. The re-analysis of the sample confirmed the surrogate recovery excursions.

VII. MS/MSD analysis

The laboratory used spikes containing the complete target analyte list to generate the MS/MSD data. MS/MSD recoveries and relative percent difference (RPD) values were within the laboratory control limits for the majority of the MS/MSD samples. The result for aniline in sample BH-37 was qualified as approximate (UJ) due to minor MS/MSD recovery excursions.

VIII. LCS analysis

The laboratory used spikes containing the complete target analyte list to generate the LCS data. LCS recoveries were evaluated using the laboratory control limits during the validation process. Results for 4-chloroaniline in samples BH-37, BH-35-S, BH-35-D, BH-36-S, BH-36-D, BH-30-S, BH-32-S, BH-32-D, and BH-33-S were qualified as approximate (UJ) due to minor LCS recovery excursions. The non-detected results for benzoic acid in Equipment Blank 1/10/06 and Equipment Blank 1/11/06 were rejected (R) due to major LCS recovery excursions.

IX. Internal standards performance

Internal standard recoveries and retention time consistency were evaluated during the validation process. Results for benzo(b) fluoroanthene, benzo(k) fluoroanthene, benzo (g,h,i) perylene, benzo(a) perylene and dibenz(a,h) anthracene in samples BH-36-S, BH-36-D, BH-30-S, BH-33-S, BH-24-S, BH-27-S, BH-29-S, BH-34-D, BH-34-S, and BH-28-S were qualified as approximate (UJ, J) due to minor internal standard recovery excursions. Results for benzo(a)anthracene, bis (2-ethylhexyl) phthalate, butyl benzyl phthalate, chrysene, 3,3'-dichlorobenzidine, pyrene, di-n-octyl phthalate and indeno (1,2,3-cd) pyrene in samples BH-34-D, BH-34-S, and BH-28-S were qualified as approximate (UJ, J) due to minor internal standard recovery excursions.

X. Field duplicates

Field duplicate results were not collected during this investigation.

XI. Target analyte quantitation, identification and reported detection limits

Dilutions were performed for samples as a result of high concentrations of target analytes detected in the samples and matrix interferences.

The qualifier "J" was applied by the laboratory when the analyte concentration was greater than the MDL but less than the practical quantitation limit (PQL). This qualifier has been retained during the validation process to indicate that the result is considered to be approximate.

XII. Overall assessment

- Target analytes were qualified as non-detected (U) due to method blank contamination.
- Target analytes were qualified as approximate (UJ) due to minor calibration verification excursions.
- Target analytes were qualified as approximate (UJ, J) due to minor surrogate recovery excursions.
- The result for aniline was qualified as approximate (UJ) due to a minor MS/MSD recovery excursion.
- Target analytes were qualified as approximate (UJ) due to minor LCS recovery excursions.
- The non-detected results for benzoic acid in Equipment Blank 1/10/06 and Equipment Blank 1/11/06 were rejected (R) due to major LCS recovery excursions.
- Target analytes were qualified as approximate (UJ, J) due to minor internal standard recovery excursions.

- The analyte concentrations reported by the laboratory that were greater than the MDL but less than the laboratory PQL, were qualified as approximate (J).

METALS DATA EVALUATION SUMMARY

Excursions from quality control criteria and additional observations are summarized below.

I. Chain-of-custody records

The chain-of-custody records were completed properly.

II. Holding times

The method and validation holding time criterion for metals and mercury was met; therefore qualification of sample results for holding time excursions was not required.

III. Blank analysis

Equipment blanks and method blanks were analyzed to evaluate the potential of introduced concentrations of target compounds. The results for cadmium in sample BH-36-D and for silver in samples BH-22-S, BH-22-D, BH-23-S, and BH-36-D were qualified as non-detected due to equipment blank contamination.

IV. Calibrations

Calibration data were evaluated using the validation and method criteria. The initial calibrations and calibration verifications met the validation and method criteria; therefore qualification of sample results for calibration excursions was not required.

V. MS/MSD analysis

MS/MSD recoveries and relative percent difference (RPD) values were evaluated. The results for magnesium in samples BH-20-S, BH-20-D, BH-21-S, BH-21-D, BH-22-S, BH-22-D, BH-23-S, BH-24-S, BH-24-D, BH-25-S, BH-25-D, BH-26-S, BH-27-S, BH-27-D, BH-28-S, BH-28-D, BH-29-S, BH-29-D, BH-34-S, and BH-34-D were qualified as approximate (J) due to a minor MS recovery excursion.

VI. LCS analysis

LCS recoveries were evaluated using the laboratory control limits during the validation process. LCS recoveries were within the laboratory control limits; therefore qualification of sample results for LCS excursions was not required.

VII. Serial dilution analysis

Serial dilution analyses were evaluated. The results for arsenic in samples BH-27-D, BH-28-S, BH-20-S, BH-20-D, BH-21-D, BH-22-S, BH-22-D, BH-23-S, BH-24-S, and BH-25-S were qualified as approximate (J) due to a minor serial dilution excursion. The results for chromium in samples BH-20-D, BH-22-S, BH-24-S, BH-24-D, BH-25-S, BH-26-S, BH-27-D, BH-28-S, BH-28-D, BH-29-D, and BH-34-S were qualified as approximate (J) due to a minor serial dilution excursion.

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VIII. Field duplicates

Field duplicate results were not collected during this investigation.

IX. Target analyte quantitation, identification and reported detection limits

Dilutions were performed for samples as a result of high concentrations of target analytes detected in the samples.

The qualifier "J" was applied by the laboratory when the analyte concentration was greater than the MDL but less than the practical quantitation limit (PQL). This qualifier has been retained during the validation process to indicate that the result is considered to be approximate.

X. Overall assessment

- Target analytes were qualified as non-detected (U) due to equipment blank contamination.
- Results for magnesium were qualified as approximate (J) due to minor MS/MSD recovery excursions.
- Target analytes were qualified as approximate (J) due to minor serial dilution excursions.
- The analyte concentrations reported by the laboratory that were greater than the MDL but less than the laboratory PQL, were qualified as approximate (J).

DATA USABILITY

The aqueous and soil samples, trip blanks, and equipment blanks collected as part of the Geneva Foundry Investigation were evaluated based on QA/QC criteria established by USEPA Methods as listed in Table 1-1. Data validation qualifiers were applied utilizing the USEPA Region II data validation guidance and professional judgment. Major deficiencies in the data generation process resulted in data points being rejected, indicating that the data are considered unusable for either quantitative or qualitative purposes. Minor deficiencies in the data generation process resulted in sample data being characterized as approximate. Identification of a data point as approximate indicates uncertainty in the reported concentration of the chemical, but not its assigned identity.

Rejected Data

The following table summarizes the sample results that were rejected as a result of the data validation process that was performed on the data, based on method criteria, validation guidance, and professional judgment.

Table 1-5. Summary of Rejected Sample Results

Analysis type (impacted analytes)	Sample Identification	Qualifier	Excursion
VOC (1,1,2,2-tetrachloroethene, isopropylbenzene, 1,2,3-trichloropropane, bromobenzene, n-propylbenzene, 2-chlorotoluene, 4-chlorotoluene, 1,3,5-trimethylbenzene, tert-butylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, 1,3-dichlorobenzene, p-isopropyltoluene, 1,4-dichlorobenzene, n-butylbenzene, 1,2-dichlorobenzene, 1,2-dibromo-3-chloropropane, 1,2,4-trichlorobenzene, , hexachlorobutadiene, naphthalene, 1,2,3-trichlorobenzene)	BH-25-S and BH-34-S	R	Major internal standard recovery excursion

Table 1-5. Summary of Rejected Sample Results

Analysis type (impacted analytes)	Sample Identification	Qualifier	Excursion
SVOC (benzoic acid)	Equipment Blank 1/10/06 and Equipment Blank 1/11/06	R	Major LCS recovery excursion.
Note: VOC indicates volatile organic compound. SVOC indicates semivolatile organic compound.			

A discussion of the data quality with regard to the parameters follows:

Precision: Data usability with respect to precision is 100 percent for the VOC, SVOC and metal data. None of the VOC, SVOC and metal data were rejected for precision excursions.

Sensitivity: Sensitivity is established by reported detection limits which represent measurable concentrations of analytes which can be determined with a designated level of confidence. With the exception of dilutions performed during the analyses, sensitivity requirements were met for the sample data in this project.

Accuracy: Data usability with respect to accuracy is 100 percent for the metal data and greater than 95 percent for the VOC and SVOC data. VOC and SVOC data were rejected due to major internal standard and LCS recovery excursions.

Representativeness: Data usability with respect to representativeness is 100 percent for VOC, SVOC and metal data. None of the VOC, SVOC and metal data were rejected for representativeness excursions.

Comparability: Data usability with respect to comparability is 100 percent, as standardized analytical methods, reporting limits, reference materials, and data deliverables were used throughout the data generation process for this project.

Completeness: Overall data usability with respect to completeness is 100 percent for the metal data and greater than 95 percent for the VOC and SVOC data. Therefore, the majority of the data were determined to be usable for qualitative and quantitative purposes.

Table A

**RI/AA Report
300, 304-308 Andrews St and 25 Evans St
Rochester, New York**

Comparison of Remedial Alternatives

Remediation Criteria	Remedial Alternative #1	Remedial Alternative #2	Remedial Alternative #3
Protection of Human Health and Environment	NO	YES	YES
Compliance with SCGs	NO	YES	YES
Long-Term Effectiveness and Permanence	NO	YES	YES
Reduction of Toxicity, Mobility, and Volume	Low	Moderate	High
Short-Term Impacts and Effectiveness	Impacts - NO Effectiveness - NO	Impacts - NO Effectiveness - YES	Impacts - YES Effectiveness - YES
Implementability	Easy	Moderate	Difficult
Acceptable for Planned Future Use	NO	YES	YES
Total Present Worth Cost	\$0.00	\$368,951	\$8,905,413

Table B

**RI/AA Report
300, 304-308 Andrews St and 25 Evans St
Rochester, New York**

Alternative #1 - No Further Action

This alternative assumes no further action will be taken at a cost of \$0.00

Table C

**RI/AA Report
300, 304-308 Andrews St and 25 Evans St
Rochester, New York**

Alternative #2 - Implement Existing Institutional Controls; and Engineering Controls

Capital/Initial Costs

Decommissioning of Select Existing Wells	\$10,200
Engineering Controls (SSDS on 50,000 SF Bldg)	\$178,500
20% Contingency	\$37,740
Total	\$226,440

Operation/Maintenance/Annual Costs

Years 1 and 2 Groundwater Monitoring (\$44,000 X 2 yrs)	\$88,000
Years 3 and 4 Groundwater Monitoring (\$22,000 X 2 yrs)	\$44,000
Years 1 through 4 Periodic Review Reports (\$3,000 X 4 yrs)	\$12,000
10% Contingency	\$14,400
Total Operation/Maintenance/Annual Costs	\$158,400

Present Worth Cost

Capital/Initial Costs	\$226,440
Years 1-2 Groundwater Monitoring Present Worth ($F=1.85941$)	\$89,995
Years 3-4 Groundwater Monitoring Present Worth ($F=3.54595-1.85941$)	\$40,814
Years 1-4 Periodic Review Reports Present Worth ($F=3.54595$)	\$11,702
Total Present Worth Cost	\$368,951

Assumptions

- Closeout costs adjusted for 4 years at 5% discount factor
- F = Discount Factor of 5% at the n^{th} year of the project
- Conduct long-term groundwater monitoring for 4 years (quarterly for 30 wells for yrs 1-2, bi-annually for 30 wells for yrs 3-4)
- Prevailing Wage Rates Apply
- Contingencies applied to present worth costs

Table D

**RI/AA Report
300, 304-308 Andrews St and 25 Evans St
Rochester, New York**

**Alternative #3 - Full Removal of Impacted Fill Material and Soil,
Groundwater Remediation; and Groundwater Monitoring**

Capital/Initial Costs

Remediation Work Plan,. HASP, QAPP, CPP	\$60,000
Decommissioning of Select Existing Wells/Installation of New Wells	\$101,500
Complete Contaminated Soil and Fill Removal	\$5,829,500
In-Situ Remediation	\$1,148,000
20% Contingency	\$1,427,800
Total	\$8,566,800

Operation/Maintenance/Annual Costs

Years 1-2 Groundwater Monitoring (\$87,000 X 2 yrs)	\$174,000
Years 3-4 Groundwater Monitoring (\$43,500 X 2 yrs)	\$87,000
10% Contingency	\$26,100
Total Operation/Maintenance/Annual Costs	\$287,100

Closeout Costs

Final Engineering Report	\$81,000
20% Contingency	\$16,200
Total Closeout Costs	\$97,200

Present Worth Cost

Capital/Initial Costs	\$8,566,800
Years 1-2 Groundwater Monitoring Present Worth (F=1.85941)	\$177,946
Years 3-4 Groundwater Monitoring Present Worth (F=3.54595-1.85941)	\$80,701
Closeout Costs (F= 0.82270)	\$79,966
Total Present Worth Cost	\$8,905,413

Assumptions

- Closeout costs adjusted for 4 years at 5% discount factor
- F = Discount Factor of 5% at the nth year of the project
- Conduct long-term groundwater monitoring for 4 years (quarterly for 19 wells yrs 1-2, bi-annually for 19 wells yrs 3-4)
- In-situ remediation in Overburden and Bedrock
- Prevailing Wage Rates Apply
- Contingencies applied to present worth costs