March 5, 2013

Mr. Brian Cass
OHM Holdings, Inc.
W229 N2494 Hwy F
Waukesha, Wisconsin 53186

Re: Progress Report and Work Scope for Further Site Investigations
One Hour Martinizing
13405 Watertown Plank Road
Elm Grove, Wisconsin
BRRTS#: 02-68-552102

Dear Mr. Cass:

Environmental Forensic Investigations, Inc. (EnviroForensics) is pleased to provide this Further Site Investigation (FSI) progress report for the One Hour Martinizing (OHM) facility located at 13405 Watertown Plank Road in Elm Grove, Wisconsin (Site). The FSI was performed in accordance with Wisconsin Department of Natural Resources (WDNR) regulations and guidance regarding environmental investigations, and in accordance with the procedures presented in the *Status Report, Work Scope and Cost Estimate for Further Site Investigation*, dated August 15, 2012. On-going investigation activities are being performed to fully define the nature and extent of impacts as required by NR-716 of the Wisconsin Administrative Code (WAC).

1.0 SITE DESCRIPTION

The Site is located at 13405 Water Town Plank Road, Elm Grove, Waukesha County, Wisconsin. The Site is occupied by a dry cleaning business owned and operated by OHM Holdings, Inc. Historical use of tetrachloroethylene (PCE) as a dry cleaning solvent was stopped at this facility in 2007, and the facility is now used as a drop off location for clothes that are now cleaned only at a single facility that operates in Waukesha, Wisconsin. The location of the Site is depicted on a U.S.G.S. 1:24,000 scale topographic quadrangle map (Figure 1). Site improvements consist of a slab-on-grade, one-story commercial facility and an asphalt parking area. The Site is bound by Watertown Plank Road to the northwest, an asphalt parking lot and

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storm culvert to the southwest, asphalt parking lot followed by commercial properties to the southeast, and a railroad right-of-way to the northeast. The surrounding neighborhood consists of mixed commercial and residential properties. A Site layout map is presented on Figure 2, which also indicates the locations of all previous and current data collection points.

2.0 SUMMARY OF PAST INVESTIGATIONS

2.1 Soil Sampling

ARCADIS U.S., Inc. (ARCADIS) conducted an initial subsurface investigation at the Site in February 2006 as part of due diligence activities. The investigation included the collection of groundwater and soil samples in the vicinity of the dry cleaning machine located on the east side of the building. Soil samples were collected at GP-1 through GP-4, and groundwater grab samples were collected at GP-1 and GP-2 (Figure 2). Concentrations of the chlorinated solvent PCE were detected in these samples at levels exceeding the applicable public health standards. This prompted a subsequent investigation to determine the extent of impacts. The locations of borings and concentrations of compounds detected are presented in Tables 1, 2, and 3, and on Figures 3 and 4.

EnviroForensics began additional site investigation activities in November 2009. Eight (8) direct-push soil borings (DP-1 through DP-8) were advanced to characterize soil properties and collect soil samples for laboratory analysis (Tables 1 and 2, and Figure 3). Four (4) of the eight (8) soil borings (DP-1 through DP-4) were converted to groundwater monitoring wells MW-1 through MW-4 (refer to monitoring well construction data in Table 4). In addition two (2) groundwater grab samples were collected from borings DP-5 and DP-6 (refer to analytical results in Table 3. Groundwater elevations were measured in the wells (Table 5) to determine the direction of groundwater flow, which has been consistently to the southeast across the Site. There were no volatile organic compounds (VOC) detected in the groundwater monitoring wells at that time (see Table 6). Based on detected soil impacts during this investigation, EnviroForensics recommended additional soil sampling to better define the vertical limits of soil impacts and to conduct a vapor intrusion assessment.

In June 2011, EnviroForensics advanced a total of six (6) borings (B-9 through B-14) using direct-push methods to a total depth of approximately 20 feet below ground surface (bgs). A total of 12 soil samples, two (2) from each boring, were collected for laboratory analysis.

Site soil was found to generally consist of silty to sandy clay extending from the near surface to a depth of 3 to 7 feet bgs. Sand and gravel was found to extend from beneath this unit to at least 21 feet bgs. Groundwater was observed at a depth of approximately 16 to 17 feet bgs in soil samples collected during the investigation. The locations of borings and concentrations of compounds detected are presented in Tables 1, and 2, and on Figure 3.

Soil samples collected from B-10, B-11, and B-12 contained concentrations of PCE and its breakdown products above the WDNR's Residual Contaminant Levels (RCLs). These borings were advanced east of the Site building and adjacent to the storage shed. PCE in soil was also discovered in soil boring B-9 at 13-15 feet bgs. This boring was advanced west of the building.

2.2 Grab Groundwater Sampling

Groundwater was encountered approximately 16-17 feet bgs at each of the six (6) soil boring locations. Immediately following soil sampling activities, a 1-inch diameter PVC temporary groundwater sampling point with a five-foot section of slotted screen was installed in each borehole. Groundwater samples collected from B-9, B-10, and B-11 contained concentrations of VOCs greater than NR 140 Enforcement Standards (ES). (See Table 3 and Figure 4 for the locations and analytical results of grab groundwater samples.)

2.3 Quarterly Groundwater Monitoring

Quarterly groundwater monitoring was conducted on April 28, September 7, and December 21, 2011; and on February 24, 2012 as outlined in the *Groundwater Sampling Work Scope and Cost Estimate* dated September 17, 2010. Water levels were measured during each past sampling event and are presented in Table 5. Samples were collected from all four (4) existing monitoring wells (MW-1 through MW-4) during each monitoring event. A summary of groundwater analytical results is presented in Table 6. As can be seen in Table 6, there have been one-time periodic, trace level, detections of PCE in wells MW-1 through MW-3, and benzene in well MW-2 over time. The concentrations of these compounds have exceeded the WDNR NR 140 Preventative Action Limits (PAL), but are below the ES.

3.0 SUMMARY OF CURRENT FURTHER SITE INVESTIGATION

3.1 Scope of Field Investigations

EnviroForensics staff conducted field data collection activities from October 22, 2012 through October 24, 2012 as presented in their *Status Report, Work Scope & Cost Estimate* dated September 24, 2012. Data collection activities included:

- Advancing six (6) direct-push soil borings (B-15 through B-18; HA-1 and HA-2) located outside the building to further define the extent of soil impacts;
- Installing one (1) temporary well in boring B-17 to facilitate collection of a grab groundwater sample;
- The installation of two (2) monitoring wells (MW-5 and MW-6);
- One round of groundwater monitoring from the four (4) existing groundwater monitoring wells and two (2) new monitoring wells;
- The collection of two (2) sub-slab vapor samples (SS-1 and SS-2);
- The collection of two (2) soil gas samples (SG-1 and SG-2); and
- Surveying of all new boring and well locations, well elevations, and property boundaries; and
- Identification of potable supply wells within 1,200 feet of the Site.

Soil and Grab Groundwater Sampling

Soil samples were collected continuously from direct-push borings B-15 through B-18 (see Figure 2). The samples were screened for volatile organic compounds (VOCs) in the field using a photo-ionization detector (PID) and the instrument readings recorded on the soil boring logs included in Attachment A. Soil samples for laboratory analysis were collected from intervals exhibiting the highest PID readings and from other intervals determined by the field geologist to potentially represent a migration pathway, a confining layer, the smear zone just above the water table, or other interval in an attempt to define the vertical distribution and extent of soil impacts. In addition, one groundwater grab sample was collected through a temporary well at boring B-17. The temporary well was immediately abandoned after sample collection. All soil samples and the grab groundwater sample were sent to Test America laboratory and analyzed for total VOCs by EPA Method 8260.

Monitoring Well Installation

Two (2) new permanent groundwater monitoring wells (MW-5 and MW-6) were installed during the FSI. Well construction details are presented in Table 4, and monitoring well construction forms are presented in Attachment A. The locations of the new wells are depicted on Figure 2. The new monitoring wells were drilled to depth using hollow stem auger (HSA) methods. The wells are constructed of 2-inch ID PVC riser and 10 feet of 2-inch ID, 0.010-inch slotted PVC well screen set from 15 to 25 feet bgs. Sand filter pack materials were placed from the bottom of the screen up to two feet above the well screen and a bentonite seal was placed from two feet above the filter pack to the ground surface seal. The wells were completed at the surface with flush-mount covers set in concrete. An expandable locking cap and lock was placed on each well. The newly installed monitoring wells were developed in accordance with the requirements of WAC Chapter NR 141. The soil and purge water generated by the well installation and development activities was placed in DOT 17H-rated 55 gallon drums for subsequent characterization and management.

Surveying Associates, Inc of Wauwatosa, Wisconsin was retained to record the elevation and location of the monitoring wells according to standard surveying methods. The horizontal and vertical grid coordinates of each monitoring well and soil boring location were recorded to within 0.1 foot and 0.01 foot, respectively. Horizontal locations were referenced to the State Plane Coordinate System. A property boundary survey was also performed and includes the most recent legal description of the Site. All current reporting figures were updated with the new property boundary survey data.

Groundwater Monitoring

Samples were collected from all six (6) Site monitoring wells during this FSI. Prior to sampling, the wells were opened and allowed to equilibrate to atmospheric pressure. Depth to water was then measured to the nearest 0.01 foot with an electronic water level indicator. Groundwater samples were collected using low flow methodologies. Geochemical parameters including specific conductance, temperature, pH, dissolved oxygen, total dissolved solids, oxidation reduction potential and turbidity were measured and recorded at the start of purging and at definite intervals until parameters stabilized. The water quality parameters for each event were recorded on field forms, which are included in Attachment B. All groundwater and associated QA/AC samples were submitted under appropriate chain-of-custody procedures to Test America,

Inc., University Park, Illinois (Test America) for analysis of VOCs using EPA Method SW-846 8260.

Vapor Intrusion Assessment

In the last few years, there has been much attention paid to the vapor migration pathway by regulators due to the relative mobility of chlorinated solvents within the subsurface and the ability of these solvents to off-gas vapors from soil and groundwater. These vapors can migrate along utility lines, move with groundwater, move through fill and other coarse-grained soil, and even move through clay soil which has fractures to reach and penetrate the foundations of on-site and nearby off-site structures. Adverse human health effects can occur to persons breathing indoor air that has been contaminated by volatile organic compounds at concentrations exceeding toxicity screening levels established by the U.S. Environmental Protection Agency.

The Wisconsin Administrative Code (WAC), Section NR 716.11(5)(a) "**requires all field investigations to evaluate buried utility and drainage improvements as potential contaminant migration pathways**". The Wisconsin Department of Natural Resources (WDNR) has developed procedures for investigating utility corridors. These procedures are presented in the WDNR guidance document, PUB-RR-649, *Guidance for Documenting the Investigation of Utility Corridors,* dated March, 2000.

In addition, the WDNR has developed guidance procedures for screening chlorinated volatile organic (CVOC) solvent releases to the environment in order to address concerns regarding the vapor intrusion (VI) pathway. These procedures are contained in the WDNR guidance document, PUB-RR-800, *Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin*, dated December, 2010. The guidance specifically states that "**The vapor intrusion pathway should be investigated at all source properties where a release of CVOC has occurred.**" The VI screening criteria apply to developed properties as well as to undeveloped properties (where no buildings currently exist). In addition to CVOC source properties, the PUB-RR-800 requires that the VI pathway must be investigated in the following situations, regardless of whether these conditions exist on or off the source property:

- Any buildings overlying a CVOC soil source
- Any buildings within 100 feet of a CVOC soil source
- Any buildings overlying a CVOC groundwater plume located at the water table with groundwater concentrations above Wisconsin's groundwater enforcement standards (ES)

- CVOC contaminated groundwater above Wisconsin's groundwater preventive action limit (PAL) is entering a building or in contact with the building's foundation, or is in water intercepted by the building's foundation drain system, including sumps
- CVOC vapors have the potential to enter preferential pathways (sewer lines, fractured bedrock, foundation cracks or openings, etc.) that connect contaminated areas to a building and migrate into that building

Enviroforensics is in the process of performing on-going investigations to assess potential impacts to on-site and off-site properties from VOC vapors. The investigative procedures that we have followed, along with the most recent vapor intrusion investigative results are presented in the proceeding sections of this report.

Soil Gas Sampling

Soil gas sampling probes were installed in soil borings HA-1 and HA-2, which were located immediately adjacent to the sanitary sewer and natural gas utility corridors, respectively. The depth to the sanitary sewer lateral was estimated at 14-16 feet bgs and the depth to the natural gas line estimated at 3-4 feet bgs by the private utility subcontractor during efforts to locate on-site utilities. The probes were placed strategically within the fill material surrounding the utility lines. The probes were constructed of small diameter stainless steel screens connected to tubing that extended to the ground surface. Sand was added to the borehole until the screen was completely covered. Above the sand pack, hydrated bentonite was placed to seal the screened area off from the ambient air. Samples were collected in 1-liter Summa® canisters according to the procedures described in WDNR Publication RR-800. Soil gas samples SG-1 and SG-2 were sent to Test America and analyzed for VOCs by EPA Method TO-15. The locations of soil-gas samples are indicated on Figure 2. Soil gas field sampling forms are included in Attachment B.

Sub-Slab Vapor Sampling

Sub-slab vapor samples were collected using Vapor Pin™ sample ports, which allow immediate collection of the vapor samples following installation of the ports. Sample collection and associated quality control testing was completed in accordance with the procedures described in WDNR Publication RR-800. Vapor samples SS-1 and SS-2 were collected in 1-liter Summa® canisters and sent to Test America for analysis of VOCs by EPA Method TO-15. The locations of sub-slab vapor samples are indicated on Figure 2. Sub-slab field sampling forms are included in Attachment B.

3.2 Deviations from Scope

The proposed FSI work scope included two soil borings advanced using a hand auger along the sanitary sewer utility corridor. Instead, these two borings (HA-1 and HA-2) were advanced immediately adjacent to the sanitary sewer and natural gas utility corridors, respectively, using direct-push methodologies.

3.3 Investigative Results

Geology

The upper layer of bedrock in the Site area is Silurian-age Niagara Dolomite. Most water supply wells in the area are constructed within this aquifer, based on our review of well construction reports of local potable water supply wells. However, several private water supply wells were also found to be constructed within the unconsolidated sand and gravel overlying bedrock. The depth to bedrock in the area is highly variable and may be anywhere from 55 to 100 feet within a few hundred lateral feet of the Site, base on the well construction reports.

The Niagara Dolomite is overlain by glacial till. Glacial till is typically associated with undifferentiated mixes of silt, clay, sand, gravel, cobbles, and boulders deposited in place by melting glaciers. Under certain flowing water conditions this material can be deposited, or re-worked into deposits, which are more uniform and well-sorted. The glacial till was deposited during the Woodfordian Substage of the Late Wisconsinan Stage of glaciation. There were several advances and retreats of the continental glacier during this Stage, which resulted in several moraine deposits aligned parallel to Lake Michigan in Milwaukee and Waukesha Counties. Unconsolidated soil at the Site is expected to be associated with the Tinley Moraine and of the Oak Creek Formation.

Soil samples for lithological classification were collected from all direct-push borings. The soil boring logs are presented in Attachment A. Site soil at B-15 through B-18 was observed to consist of between one (1) to two (2) feet of fill at the surface. The upper seven (7) to nine (9) feet of material consists of moderately-sorted layers and lenses of silt, clay, sand, and gravel. Below roughly nine (9) feet bgs, the layers and lenses become coarser in texture and are composed mainly of sand to the total depth of the borings, with some layers or lenses of gravel present. Groundwater was encountered at approximately 18 feet bgs in the soil borings.

The moderately-sorted layers and lenses of soil is not typical of glacially-deposited till and may be the result of glacio-fluvial deposition, or repeated erosion and subsequent deposition caused by nearby Underwood Creek during historic flood stage conditions. This creek flows within approximately 50 feet of the Site to the west. The creek has been urbanized for storm water control, and is currently contained within a concrete-lined channel. The creek flows under the access roadway and parking lot immediately adjacent to the Site to the west.

Soil and Grab Groundwater Sample Analytical Results

Soil sample analytical results are summarized in Tables 1 and 2, depicted on Figure 3, and a summary of laboratory analytical results is presented in Attachment C. Tetrachloroethylene (PCE) was detected in a shallow soil sample collected from boring B-15 at a concentration exceeding the industrial direct contact residual contaminant level (RCL). PCE was also detected in a deeper sample collected from B-15 as well as B-16, B-18, and HA-1 at concentrations exceeding the RCL for protection of groundwater. Trichloroethylene (TCE) was detected in samples collected from B-15 and B-16 at concentrations exceeding the RCL for protection of groundwater. Additionally, 1,1,1,2-tetrachloroethane was detected in a sample collected from B-15 at a concentration exceeding the RCL for the protection of groundwater. No other VOCs were detected in soil samples.

A grab groundwater sample was collected from a temporary well placed in soil boring B-17, located as shown on Figure 4. VOCs were not detected in this grab groundwater sample as indicated on Figure 4, in Table 4, and analytical results in Attachment C.

Groundwater Monitoring Well Results

Groundwater elevation data are summarized in Table 5. A potentiometric surface contour map for October 24, 2012 was constructed from the Table 5 data and the direction of groundwater flow is depicted on Figure 5. The groundwater elevation data indicate that shallow groundwater flow at the Site is toward the southeast.

Analytical results of groundwater samples collected from Site monitoring wells are summarized in Table 6 and depicted on Figure 6. The laboratory report associated with the groundwater monitoring data is provided in Attachment C. Samples collected from monitoring wells MW-1, MW-3, MW-5, and MW-6 contained PCE at concentrations exceeding WDNR Preventative Action Limits (PAL). Wells MW-2 and MW-4 did not contain VOC in concentrations exceeding the laboratory detection limits. The groundwater sample collected from MW-6 contained PCE,

TCE, and vinyl chloride at concentrations of 540 ug/l, 11 ug/l, and 0.8 ug/l, respectively, which exceed the applicable WDNR Enforcement Standards (ES) for these compounds.

Soil Gas Analytical Results

Soil gas analytical results are summarized in Table 7 and depicted on Figure 7. The laboratory report associated with the soil gas samples is provided in Attachment C. The compounds detected in soil gas samples were PCE and TCE in SG-1, and PCE and chloroform in SG-2. Sample SG-1 contained PCE at a concentration of 29,000 micrograms per cubic meter (ug/m^3), which exceeds the industrial Regional Screening Level (RSL) of 18,000 ug/m^3. Sample SG-1 also contained TCE at a concentration of 270 ug/m^3, below the industrial RSL of 880 ug/m^3 but exceeding the residential RSL of 210 ug/m^3. No other detected compounds exceeded their respective RSL.

Sub-slab Vapor Analytical Results

Sub-slab vapor analytical results are summarized in Table 8 and depicted on Figure 7. The laboratory report associated with the sub-slab vapor samples is provided in Attachment C. PCE was detected in samples SS-1 and SS-2 at concentrations of 970 ug/m^3 and 3,900 ug/m^3, respectively. The concentration in SS-1 only exceeded the residential RSL of 420 ug/m^3, and the concentration in SS-2 exceeded the applicable industrial RSL of 1,800 ug/m^3. Methylene chloride was detected in sample SS-1 at a concentration of 150 ug/m^3, which is less than its RSL. No other compounds were detected in the sub-slab vapor samples.

Potable Well Survey

EnviroForensics performed a potable well survey within 1,200 feet of the Site. The survey was based on publically available well constructor's reports (or well construction reports) submitted to the state by well drillers after installation of a water well. The reporting requirement began in 1936. The reports are available in databases maintained by the Wisconsin Department of Trade, Agriculture, and Consumer Protection (DATCP) and WDNR, respectively. EnviroForensics did not confirm the status or condition of all the individual potable wells or the accuracy or completeness of the information provided on the well constructor's reports.

Currently, potable drinking water is supplied exclusively by private wells in Elm Grove. Based on communications with the public works department of Elm Grove, the Village is in the process of seeking an agreement with the City of Brookfield to supply municipal potable water in the

future, and a single water supply pipe has been installed along Elm Grove Road for potential connection to a proposed assisted living development that is planned for the Village of Elm Grove.

The well survey results are presented in Table 9. Based on the available data, a total of 51 wells were identified within 1,200 feet of the Site. In addition to the on-site well, the nearest reported wells are located at 13395 Watertown Plank Road, approximately 100 feet east of the Site. Another well was reportedly installed within the shopping center immediately south, in the down-gradient direction of groundwater flow, from the Site (highlighted in Table 9, well identifier WK6279). Like several wells within the survey radius, this well is installed within unconsolidated sand and gravel, not bedrock. A well constructor's report for the private water well at the Site was not available in either database.

4.0 CONCLUSIONS

Based on the current and historical investigative data, which adds to the Site Conceptual Model, EnviroForensics concludes the following:

- The primary contaminant detected in the subsurface (soil, groundwater, soil gas, and sub-slab vapor) at the Site is the dry cleaning solvent Tetrachloroethylene (PCE) and the breakdown products of naturally occurring microbial degradation including: Trichloroethylene (TCE), cis-1,2-dichloroethylene (DCE), and vinyl chloride;
- Concentrations of PCE in sub-slab soil gas samples collected beneath the floor slab of the dry cleaning building exceed the EPA Residual Screening Level for industrial/commercial environments;
- Based on detections of VOC in soil and soil gas, it appears that some Site utility lines are acting as transport conduits for the migration of VOC away from the source area located beneath the building slab. This possibility is supported by elevated detections of VOC in close proximity to, and at the relative depths of, sanitary sewer lines, natural gas lines, underground electric lines, and a water supply line, as can be seen on Figure 3. Soil and soil gas impacts detected northwest of the dry cleaning building at HA-1 may indicate transport of PCE, and PCE vapors, along the sanitary sewer corridor, which extends downward from the dry cleaning building to a depth of 14 to 16 feet at the location of HA-1. This preferential migration may account for the concentrations of PCE detected at both B-9 and B-16/MW-6, as some lateral migration of PCE would be expected

and could be accentuated by a fluctuating groundwater table. Further site investigations are needed in and around these utility corridors to determine the magnitude and extent of impacts;

- Concentrations of VOC in newly installed monitoring well MW-6 exceed WDNR Enforcement Standards for groundwater. Additional off-site and on-site investigations are needed to determine the magnitude and extent of groundwater impacts;
- If in pure phase, PCE is heavier than water and can sink through the water table. If this occurs, then samples from shallow water table wells may show less contamination than samples collected deeper within the water column. The potable well survey indicated several nearby water supply wells, some of which are installed within the sand and gravel overburden, with the majority installed within bedrock. These two geologic units are hydraulically connected and may be at risk of contamination if PCE impacts at the Site have migrated deeper within the aquifer. Further investigations of the vertical extent of PCE migration within soil of the source area and deeper groundwater are necessary to determine this risk and/or if dense non-aqueous phase liquid (DNAPL) is present.
- The on-site water supply well is located within an area of PCE soil impacts and the water supply line may have acted as a conduit for migration of PCE. It is possible that PCE could migrate vertically along the well casing and cause impacts to the private water supply. Construction records for the on-site water supply well were not identified in the WDNR database or available from the owner.

5.0 RECOMMENDATIONS

EnviroForensics recommends that the following Site investigation activities be performed to further delineate the full nature and extent of subsurface impacts and further develop the Conceptual Site Model (the locations of proposed further data collection points are presented on Figure 8):

- Conduct a review of publically available historical records (e.g. city directories, aerial photos, fire insurance maps) and the WDNR contaminated lands database to identify former uses of surrounding properties and potential up-gradient sources of contamination. Perform a detailed WDNR records review of one known historic dry cleaning site located approximately 100 feet south and 300 feet west of the OHM property;

- Review Village of Elm Grove utility maps 200 feet east of the Site and 200 feet west of the Site along Watertown Plank Road to determine placement of utilities and locations of laterals that supply nearby buildings;
- Conduct quarterly groundwater monitoring for four (4) quarters from all existing and proposed new monitoring wells to provide data regarding seasonal variations in groundwater flow direction and contaminant concentrations;
- Perform additional soil sampling along the buried utility lines that extend from the Site building at B-19, B-21, B-22, B-23, and B-25 using direct-push methods to better define the distribution and magnitude of soil impacts. In addition, collect groundwater grab samples and soil gas samples from B-22 and B-23 to determine the concentrations of CVOC vapors that may be entering the main utility corridors within Watertown Plank Road, and to better determine the lateral extent of groundwater impacts detected at MW-6;
- Sample soil at boring B-24 using direct-push methods and install monitoring well MW-8 to better determine whether soil or groundwater impacts have spread laterally to this location from impacts detected within Site natural gas and sanitary sewer utility corridors;
- Sample soil at boring B-26 using direct-push methods and install monitoring well MW-9 to better determine the extent of impacts in the up-gradient direction of groundwater flow;
- Sample soil at boring B-20 within the dry cleaner building using direct-push methods to determine the vertical extent of soil impacts within the suspected source area and collect a groundwater grab sample;
- Install a deep piezometer (PZ-1) near existing water table well MW-4. The piezometer will be utilized to determine deep groundwater impacts in this area, which is in a down-gradient direction of groundwater flow from the suspected source area. Groundwater elevations measured in both MW-4 and PZ-1 will be utilized to determine the vertical gradient of groundwater flow;
- Collect samples of groundwater supplied to the building from the on-site potable well. One (1) sample should be collected directly from the water supply well, and another sample from the first accessible spigot from inside the building; and
- Perform in-situ permeability (slug) testing in three monitoring wells to determine the hydraulic conductivity of the uppermost saturated interval.

6.0 WORK SCOPE & COST ESTIMATE

All services provided in support of this proposal will be billed on a time-and-materials basis. The cost estimate to complete this scope of work is **$69,709.** Costs are itemized by Phase in Table 10.

It should be recognized that some limitations are inherent in the evaluation of subsurface conditions, and that certain conditions may not be detected. Thus, this investigation cannot provide a guarantee that all possible on-site impacts will be discovered. The proposed cost assumes that normal conditions will be encountered; and that any delays, obstructions, or other limitations outside the control of EnviroForensics may result in additional costs.

We appreciate the opportunity to provide you with this Work Scope and Cost Estimate and look forward to working with you on this project. If you have any questions or require additional information, please don't hesitate to contact me at 414-982-3988.

Sincerely yours,

Wayne P Fassbender

Wayne Fassbender, P.G., P.M.P.
Senior Project Manager

cc: Andrew Skwierawski, Friebert, Finerty & St. John, S.C.
Ted Warpinski, Friebert, Finerty & St. John, S.C.
Jene Bastian, Travelers Insurance
Daniel Graves, Travelers Insurance

Attachments

TABLES

TABLE 1

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS INDICATING CONCENTRATIONS EXCEEDING THE MIGRATION TO GROUNDWATER RESIDUAL CONTAMINANT LEVELS

One Hour Martinizing
Elm Grove, Wisconsin

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Location	Sample Name	Sample Date	Sample Depth	Tetrachloroetheylene	Trichloroethylene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Vinyl Chloride	Ethylbenzene	Hexachloro-1,3-butadiene	Methylene Chloride	Napthalene	1,1,1,2-Tetrachloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Toluene	n-Propylbenzene	Xylenes, Total
2	Soil to Groundwater Residual Contaminant Level *				4.5	3.6	41.2	58.8	0.1	1,570	0.5	2.6	659	0.2	1,394	1,380	1,384	990	19,700
3	GP-1	6142-GP-1	2/20/2006	2-4	25,000	280	370	<28	<39	<28	<39	<55	79	<28	<28	<28	<28	<28	<94
4	GP-2	6142-GP-2	2/20/2006	8-10	13,000	<27	<27	<27	<38	30	<38	<54	120	<27	92	40	83	<27	120
5	GP-3	6142-GP-3	2/20/2006	2-4	97,000	130	<27	<27	<38	<27	<38	<55	100	<27	42	<27	46	<27	<93
6	GP-4	6142-GP-4	2/20/2006	4-6	1,600	<30	<42	<30	<30	<30	<42	<60	<60	<30	<30	<30	<30	<30	<100
7	MW-1	6142-MW-1	11/10/2009	4-6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	77.6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
8				8-10	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	84.3	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
9	MW-2	6142-MW-2	11/10/2009	2-4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	134	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
10				12-14	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	107	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
11	MW-3	6142-MW-3	11/10/2009	4-6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	109	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
12				8-10	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	116	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
13	MW-4	6142-MW-4	11/10/2009	4-6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	178	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
14				10-12	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	89.7	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
15	DUP-2 (MW-3)	6142-DUP-2	11/10/2009	8-10	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	83.6	79.5	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
16	DP-5	6142-DP-5	11/10/2009	4-6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	32.2 J	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
17				8-10	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
18	DP-6	6142-DP-6	11/10/2009	2-4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	27.9 J	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
19				12-14	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	30.5 J	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
20	DP-7	6142-DP-7	11/10/2009	4-6	1,000	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	119	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
21				10-12	148	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	84.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
22	DP-8	6142-DP-8	11/10/2009	6-8	2,020	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	76.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
23				10-12	5,950	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	97.5	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
24	DUP-1 (MW-3)	6142-DUP-1	11/10/2009	4-6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	123	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
25	B-9	6142-B-9	6/17/2011	2-4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	43.1 J	<25.0	29.5 J	<25.0	42.8 J	<25.0	32.1 J
26				13-15	494	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
27	B-10	6142-B-10	6/17/2011	4-6	5,420	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
28				12-14	49,500	<250	<250	<250	<250	<250	<264	<250	<250	<250	<250	<250	<250	<25.0	<500
29	B-11	6142-B-11	6/17/2011	4-6	21,900	<100	<100	<100	<100	<100	<106	<100	<100	<100	<100	<100	<100	<25.0	<200
30				10-12	1,200	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
31	B-12	6142-B-12	6/17/2011	7-9	364	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
32				13-15	121	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
33	B-13	6142-B-13	6/17/2011	2-4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
34				11-13	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	47.1 J	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0

TABLE 1

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS INDICATING CONCENTRATIONS EXCEEDING THE MIGRATION TO GROUNDWATER RESIDUAL CONTAMINANT LEVELS

One Hour Martinizing
Elm Grove, Wisconsin

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	**Location**	**Sample Name**	**Sample Date**	**Sample Depth**	**Tetrachloroetheylene**	**Trichloroethylene**	**cis-1,2-Dichloroethylene**	**trans-1,2-Dichloroethylene**	**Vinyl Chloride**	**Ethylbenzene**	**Hexachloro-1,3-butadiene**	**Methylene Chloride**	**Napthalene**	**1,1,1,2-Tetrachloroethane**	**1,2,4-Trimethylbenzene**	**1,3,5-Trimethylbenzene**	**Toluene**	**n-Propylbenzene**	**Xylenes, Total**
2	**Soil to Groundwater Residual Contaminant Level ***				**4.5**	**3.6**	**41.2**	**58.8**	**0.1**	**1,570**	**0.5**	**2.6**	**659**	**0.2**	**1,394**	**1,380**	**1,384**	**990**	**19,700**
35	**B-14**	6142-B-14	6/17/2011	4-6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	87.9	<25.0	126	44.9 J	<25.0	33.8 J	<50.0
36				13-15	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
37	**DUP-1 (B-10)**	6142-DUP-1	6/17/2011	4-6	**3,690**	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
38	**DUP-2 (B-12)**	6142-DUP-2	6/17/2011	7-9	**577**	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
39	**B-15**	6142-B-15	10/22/2012	2.5-5	**360,000**	**400**	<32	<66	<27	<13	<91	<180	<130	**110**	<55	<54	<30	<46	<18
40				10-12.5	**6,000**	<17	<11	<23	<9.6	<12	<32	<63	<46	<32	<20	<19	<11	<16	<6.3
41	**B-16**	6142-B-16	10/22/2012	2.5-5	**79**	<20	<37	<27	<11	<14	<37	<73	<53	<37	<23	<22	<12	<19	<7.3
42				10-12.5	**180**	<9.8	<6.5	<13	<5.5	<6.6	<18	<36	<26	<18	<11	<11	<6.1	<9.2	<3.6
43				15-17.5	**17,000**	**39.0 J**	<11	<23	<9.4	<11	<31	<62	<45	<31	<19	<19	<10	<16	<6.2
44	**B-17**	6142-B-17	10/22/2012	2.5-5	<20	<22	<15	<30	<12	<15	<41	<82	<59	<41	<25	<25	<14	<21	<8.2
45				12.5-15	<19	<21	<14	<28	<12	<14	<39	<78	<56	<39	<24	<23	<13	<20	<7.8
46	**B-18**	6142-B-18	10/22/2012	5-7.5	**540**	<20	<13	<27	<11	<14	<37	<74	<53	<37	<23	<22	<12	<19	<7.4
47				12.5-15	**1,700**	<18	<12	<24	<9.9	<12	<33	<65	<47	<33	<20	<20	<11	<17	<6.5
48	**HA-1**	6142-HA-1	10/22/2012	2.5-5	**120**	<15	<10	<21	<8.6	<10	<29	<56	<41	<29	<17	<17	<9.5	<14	<5.6
49				12.5-14.5	**4,200**	<16	<10	<21	<8.8	<11	<29	<58	<42	<29	<18	<17	<9.7	<15	<5.8
50	**HA-2**	6142-HA-2	10/22/2012	2-4.25	<24	<26	<17	<35	<15	<18	<49	<96	79 J	<49	<30	<29	<16	<25	100

Notes:

* = WDNR Residual Contaminant Level (RCL) based on United States Environmental Protection Agency Region 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites (July 30, 2012). http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm

Samples analyzed using EPA SW-846 Method 8260 with Prep Method 5030B

All concentrations reported in units of micrograms per kilogram (ug/kg)

Bolded and Shaded values exceed the WDNR Soil to Groundwater Residual Contaminant Level

J = Results is less than the reporting limit, but greater than the method detection limit and the concentration is an approximate value.

TABLE 2

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS INDICATING CONCENTRATIONS EXCEEDING THE DIRECT CONTACT RESIDUAL CONTAMINANT LEVELS

One Hour Martinizing
Elm Grove, Wisconsin

Location	Sample Name	Sample Date	Sample Depth	Tetrachloroethylene	Trichloroethylene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Vinyl Chloride	Ethylbenzene	Hexachloro-1,3-butadiene	Methylene Chloride	Napthalene	1,1,1,2-Tetrachloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Toluene	n-Prpylbenzene	Xylenes, Total
Residential Residual Contaminant Level *				**30,700**	**644**	**156,000**	**211,000**	**67**	**7,470**	**6,230**	**60,700**	**5,150**	**2,590**	**89,800**	**182,000**	**818,000**	**3,400,000**	**258,000**
Industrial Residual Contaminant Level *				**153,000**	**8,810**	**2,040,000**	**976,000**	**2,030**	**37,000**	**22,100**	**1,070,000**	**26,000**	**12,900**	**219,000**	**182,000**	**818,000**	**21,000,000**	**258,000**
GP-1	6142-GP-1	2/20/2006	2-4	25,000	280	370	<28	<39	<28	<39	<55	79	<28	<28	<28	<28	<28	<94
GP-2	6142-GP-2	2/20/2006	8-10	13,000	<27	<27	<27	<38	30	<38	<54	120	<27	92	40	83	<27	120
GP-3	6142-GP-3	2/20/2006	2-4	**97,000**	130	<27	<27	<38	<27	<38	<55	100	<27	42	<27	46	<27	<93
GP-4	6142-GP-4	2/20/2006	4-6	1,600	<30	<42	<30	<30	<30	<42	<60	<60	<30	<30	<30	<30	<30	<100
MW-1	6142-MW-1	11/10/2009	4-6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	77.6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
			8-10	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	84.3	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
MW-2	6142-MW-2	11/10/2009	2-4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	134	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
			12-14	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	107	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
MW-3	6142-MW-3	11/10/2009	4-6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	109	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
			8-10	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	116	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
MW-4	6142-MW-4	11/10/2009	4-6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	178	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
			10-12	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	89.7	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
DUP-2 (MW-3)	6142-DUP-2	11/10/2009	8-10	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	83.6	79.5	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
DP-5	6142-DP-5	11/10/2009	4-6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	32.2 J	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
			8-10	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
DP-6	6142-DP-6	11/10/2009	2-4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	27.9 J	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
			12-14	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	30.5 J	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
DP-7	6142-DP-7	11/10/2009	4-6	1,000	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	119	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
			10-12	148	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	84.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
DP-8	6142-DP-8	11/10/2009	6-8	2,020	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	76.2	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
			10-12	5,950	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	97.5	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
DUP-1 (MW-3)	6142-DUP-1	11/10/2009	4-6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	123	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
B-9	6142-B-9	6/17/2011	2-4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	43.1 J	<25.0	29.5 J	<25.0	42.8 J	<25.0	32.1 J
			13-15	494	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
B-10	6142-B-10	6/17/2011	4-6	5,420	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
			12-14	**49,500**	<250	<250	<250	<250	<250	<264	<250	<250	<250	<250	<250	<250	<25.0	<500
B-11	6142-B-11	6/17/2011	4-6	21,900	<100	<100	<100	<100	<100	<106	<100	<100	<100	<100	<100	<100	<25.0	<200
			10-12	1,200	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
B-12	6142-B-12	6/17/2011	7-9	364	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
			13-15	121	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
B-13	6142-B-13	6/17/2011	2-4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
			11-13	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	47.1 J	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
B-14	6142-B-14	6/17/2011	4-6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	87.9	<25.0	126	44.9 J	<25.0	33.8 J	<50.0
			13-15	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
DUP-1 (B-10)	6142-DUP-1	6/17/2011	4-6	3,690	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0
DUP-2 (B-12)	6142-DUP-2	6/17/2011	7-9	577	<25.0	<25.0	<25.0	<25.0	<25.0	<26.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0

TABLE 2

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS INDICATING CONCENTRATIONS EXCEEDING THE DIRECT CONTACT RESIDUAL CONTAMINANT LEVELS

One Hour Martinizing

Elm Grove, Wisconsin

Location	Sample Name	Sample Date	Sample Depth	Tetrachloroethylene	Trichloroethylene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Vinyl Chloride	Ethylbenzene	Hexachloro-1,3-butadiene	Methylene Chloride	Napthalene	1,1,1,2-Tetrachloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Toluene	n-Prpylbenzene	Xylenes, Total
Residential Residual Contaminant Level *				**30,700**	**644**	**156,000**	**211,000**	**67**	**7,470**	**6,230**	**60,700**	**5,150**	**2,590**	**89,800**	**182,000**	**818,000**	**3,400,000**	**258,000**
Industrial Residual Contaminant Level *				**153,000**	**8,810**	**2,040,000**	**976,000**	**2,030**	**37,000**	**22,100**	**1,070,000**	**26,000**	**12,900**	**219,000**	**182,000**	**818,000**	**21,000,000**	**258,000**
B-15	6142-B-15	10/22/2012	2.5-5	**360,000**	400	<32	<66	<27	<13	<91	<180	<130	110	<55	<54	<30	<46	<18
			10-12.5	6,000	<17	<11	<23	<9.6	<12	<32	<63	<46	<32	<20	<19	<11	<16	<6.3
B-16	6142-B-16	10/22/2012	2.5-5	79	<20	<37	<27	<11	<14	<37	<73	<53	<37	<23	<22	<12	<19	<7.3
			10-12.5	180	<9.8	<6.5	<13	<5.5	<6.6	<18	<36	<26	<18	<11	<11	<6.1	<9.2	<3.6
			15-17.5	17,000	39.0 J	<11	<23	<9.4	<11	<31	<62	<45	<31	<19	<19	<10	<16	<6.2
B-17	6142-B-17	10/22/2012	2.5-5	<20	<22	<15	<30	<12	<15	<41	<82	<59	<41	<25	<25	<14	<21	<8.2
			12.5-15	<19	<21	<14	<28	<12	<14	<39	<78	<56	<39	<24	<23	<13	<20	<7.8
B-18	6142-B-18	10/22/2012	5-7.5	540	<20	<13	<27	<11	<14	<37	<74	<53	<37	<23	<22	<12	<19	<7.4
			12.5-15	1,700	<18	<12	<24	<9.9	<12	<33	<65	<47	<33	<20	<20	<11	<17	<6.5
HA-1	6142-HA-1	10/22/2012	2.5-5	120	<15	<10	<21	<8.6	<10	<29	<56	<41	<29	<17	<17	<9.5	<14	<5.6
			12.5-14.5	4,200	<16	<10	<21	<8.8	<11	<29	<58	<42	<29	<18	<17	<9.7	<15	<5.8
HA-2	6142-HA-2	10/22/2012	2-4.25	<24	<26	<17	<35	<15	<18	<49	<96	79 J	<49	<30	<29	<16	<25	100

Notes:

* = WDNR Residual Contaminant Level (RCL) based on United States Environmental Protection Agency Region 3, 6, and 9 Regional Screening Levels for Chemical Contaminants at Superfund Sites (July 30, 2012). http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/index.htm

Samples analyzed using EPA SW-846 Method 8260 with Prep Method 5030B

All concentrations reported in units of micrograms per kilogram (ug/kg)

Bolded and Shaded values exceed the WDNR generic Industrial Residual Contaminant Levels

Bolded values exceed the WDNR generic Residential Residual Contaminant Levels

TABLE 3
SUMMARY OF GRAB GROUNDWATER SAMPLE ANALYTICAL RESULTS
Elm Grove - Martinizing Cleaners
Elm Grove, Wisconsin

Sample Location	Sample ID	Sample Date	Sample Depth (ft)	Tetrachloroethylene	Trichloroethylene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Vinyl Chloride	Benzene	Chloromethane	Toluene
Public Health Enforcement Standard (ug/l)				**5**	**5**	**70**	**100**	**0.2**	**5**	**30**	**1,000**
Public Health Preventive Action Limit (ug/l)				**0.5**	**0.5**	**7**	**20**	**0.02**	**0.5**	**3**	**200**
GP-1	6142-GP-1	2/20/2006	20.0	**1.8**	0.32	1.9	< 0.50	< 0.20	< 0.20	< 0.24	0.53
GP-2	6142-GP-2	2/20/2006	20.0	< 0.5	< 0.20	< 0.50	< 0.50	< 0.20	0.21	< 0.24	0.46
DP-5	6142-DP-5	11/9/2009	20.0	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18	< 0.45	0.72	< 0.45
DP-6	6142-DP-6	11/9/2009	20.0	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18	< 0.45	< 0.24	< 0.45
B-9-(17W)	6142-B-9-(17W)	6/17/2011	20.0	**11.8**	**0.81 J**	**41.7**	4.7	**2.0**	< 0.20	< 0.24	< 0.45
B-10-(16W)	6142-B-10-(16W)	6/17/2011	20.0	**451**	**6.1**	< 0.50	< 0.50	< 0.20	**49.6**	< 0.24	< 0.45
B-11-(17W)	6142-B-11-(17W)	6/17/2011	20.0	**51.3**	**0.95 J**	< 0.83	< 0.89	< 0.18	< 0.45	0.72	< 0.45
B-12-(17W)	6142-B-12-(17W)	6/17/2011	20.0	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18	< 0.45	< 0.24	< 0.45
B-13-(17W)	6142-B-13-(17W)	6/17/2011	20.0	< 0.5	< 0.20	< 0.50	< 0.50	< 0.20	< 0.45	< 0.24	< 0.45
B-14-(17W)	6142-B-14-(17W)	6/17/2011	20.0	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18	< 0.45	< 0.24	< 0.45
B-17-(16.5W)	6142-B-17(16.5)	10/22/2012	20.0	< 0.17	< 0.19	< 0.12	< 0.25	< 0.10	< 0.074	< 0.34	< 0.11

Notes:

Samples analyzed using EPA SW-846 Method 8260

All concentrations reported in units of micrograms per liter (ug/l)

Bolded and Shaded values exceed the Public Health Enforcement Standard

Bolded values exceed the Public Health Preventive Action Limit

TABLE 4
MONITORING WELL CONSTRUCTION SUMMARY
One Hour Martinizing Cleaners
Elm Grove, Wisconsin

Monitoring Well ID	Date Installed	Northing	Easting	Top of Casing Elevation (amsl)	Ground Elevation (amsl)	Total Depth (ft bgs)	Screened Interval (ft bgs)
MW-1	11/09/09	2,513,553.97	385,917.65	741.88	742.14	20	10-20
MW-2	11/09/09	2,513,583.23	385,990.56	743.40	743.87	20	10-20
MW-3	11/10/09	2,513,570.64	385,944.57	742.94	743.33	20	10-20
MW-4	11/10/09	2,513,624.16	385,907.67	741.88	742.20	20	10-20
MW-5	10/23/12	2,513,621.20	385,961.16	742.96	743.36	25	15-25
MW-6	10/23/12	2,513,534.92	386,018.16	744.05	744.51	25	15-25

Notes:

All well were installed by On-Site Environmental using hollow stem auger methods
All wells 2-inch diameter
Horizontal coordinates are State Plane, Wisconsin Southern Zone, NAD 27
ft bgs = feet below ground surface
amsl = feet above mean sea level

TABLE 5
GROUNDWATER ELEVATION DATA
One Hour Martinizing
Elm Grove, Wisconsin

Well	Date	TOC Elevation	DTW (feet)	Groundwater Elevation (feet amsl)
MW-1	11/19/2009	741.88	15.50	726.38
	9/16/2010	741.88	14.24	727.64
	4/25/2011	741.88	14.40	727.48
	9/7/2011	741.88	15.38	726.50
	12/21/2011	741.88	15.79	726.09
	2/12/2012	741.88	16.26	725.62
	10/24/2012	741.88	17.04	724.84
MW-2	11/19/2009	743.40	16.94	726.46
	9/16/2010	743.40	15.60	727.80
	4/25/2011	743.40	16.03	727.37
	9/7/2011	743.40	16.82	726.58
	12/21/2011	743.40	17.27	726.13
	2/12/2012	743.40	17.74	725.66
	10/24/2012	743.40	18.52	724.88
MW-3	11/19/2009	742.94	16.53	726.41
	9/16/2010	742.94	15.25	727.69
	4/25/2011	742.94	15.66	727.28
	9/7/2011	742.94	16.44	726.50
	12/21/2011	742.94	16.50	726.44
	2/12/2012	742.94	17.32	725.62
	10/24/2012	742.94	18.10	724.84
MW-4	11/19/2009	741.88	15.51	726.37
	9/16/2010	741.88	14.28	727.60
	4/25/2011	741.88	14.63	727.25
	9/7/2011	741.88	15.46	726.42
	12/21/2011	741.88	15.89	725.99
	2/12/2012	741.88	16.36	725.52
	10/24/2012	741.88	17.11	724.77
MW-5	10/24/2012	742.96	18.12	724.84
MW-6	10/24/2012	744.05	19.14	724.91

Notes:
amsl = above mean sea level
DTW = depth to water, below top of casing (TOC)
TOC = Top of Casing in feet above mean sea level (amsl)

TABLE 6
GROUNDWATER MONITORING WELL SAMPLE ANALYTICAL RESULTS
One Hour Martinizing
Elm Grove, Wisconsin

Boring Identification	Date Sampled	Tetrachloroethylene	Trichloroethylene	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Vinyl chloride	Benzene	Naphthalene	1,2,4-Trimethylbenzene
Enforcement Standard (ug/l)		**5**	**5**	**70**	**100**	**0.2**	**5**	**100**	**480**
Preventive Action Limit (ug/l)		**0.5**	**0.5**	**7**	**20**	**0.02**	**0.5**	**10**	**96**
MW-1	11/19/2009	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18	< 0.24	< 0.25	< 0.20
	9/16/2010	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18	< 0.24	< 0.25	< 0.20
	4/28/2011	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18	< 0.24	< 0.25	< 0.20
	9/7/2011	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18	< 0.41	< 0.89	< 0.97
	12/21/2011	< 0.50	< 0.20	1.1	< 0.50	< 0.20	< 0.20	0.45	0.48 J
	2/24/2012	< 0.50	< 0.20	0.95 J	< 0.50	< 0.20	< 0.20	<0.25	< 0.25
	10/24/2012	**1.1**	< 0.19	1.4	< 0.25	< 0.10	< 0.074	< 0.16	< 0.14
MW-2	11/19/2009	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18	< 0.24	< 0.25	< 0.20
	9/16/2010	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18	< 0.24	< 0.25	< 0.20
	4/28/2011	**1.2**	< 0.48	< 0.83	< 0.89	< 0.18	**1.2**	< 0.25	< 0.20
	9/7/2011	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18	**2.1**	< 0.89	< 0.97
	12/21/2011	< 0.50	< 0.20	< 0.50	< 0.50	< 0.20	**0.58 J**	< 0.25	0.29 J
	2/24/2012	< 0.50	< 0.20	< 0.50	< 0.50	< 0.20	< 0.20	< 0.25	< 0.25
	10/24/2012	< 0.17	< 0.19	< 0.12	< 0.25	< 0.10	< 0.074	< 0.16	< 0.14
MW-3	11/19/2009	< 0.45	< 0.48	1.3	< 0.89	< 0.18	< 0.24	< 0.25	< 0.20
	9/16/2010	< 0.45	< 0.48	2.5	< 0.89	< 0.18	< 0.24	< 0.25	< 0.20
	4/28/2011	< 0.45	< 0.48	0.96 J	< 0.89	< 0.18	< 0.24	< 0.25	< 0.20
	9/7/2011	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18	< 0.41	< 0.89	< 0.97
	12/21/2011	< 0.50	< 0.20	0.73 J	< 0.50	< 0.20	< 0.20	< 0.25	0.26 J
	2/24/2012	< 0.50	< 0.20	0.58 J	< 0.50	< 0.20	< 0.20	< 0.25	<0.25
	10/24/2012	**0.83**	< 0.19	< 0.12	< 0.25	< 0.10	< 0.074	< 0.16	< 0.14
MW-4	11/19/2009	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18	< 0.24	< 0.25	< 0.20
	9/16/2010	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18	< 0.24	< 0.25	< 0.20
	4/28/2011	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18	< 0.24	< 0.25	< 0.20
	9/7/2011	< 0.45	< 0.48	< 0.83	< 0.89	< 0.18	< 0.41	< 0.89	< 0.97
	12/21/2011	< 0.50	< 0.20	< 0.50	< 0.50	< 0.20	< 0.20	< 0.25	0.37 J
	2/24/2012	< 0.50	< 0.20	< 0.50	< 0.50	< 0.20	< 0.20	< 0.25	0.28 J
	10/24/2012	< 0.17	< 0.19	< 0.12	< 0.25	< 0.10	< 0.074	< 0.16	< 0.14
MW-5	10/24/2012	**0.95 J**	<0.19	<0.12	<0.25	<0.10	<0.074	<0.16	<0.14
MW-6	10/24/2012	**540**	**11**	5.1	0.73 J	**0.8**	<0.074	<0.16	<0.14

Notes:

All concentrations reported in units of micrograms per liter (ug/l)

Samples analyzed using EPA SW-846 Method 8260

Bolded and Shaded values exceed the Public Health Enforcement Standard

Bolded values exceed the Public Health Preventive Action Limit

J=Analyte concentration detected between the laboratory Reporting Limit and the laboratory Method Detection Limit

TABLE 7
SUMMARY OF SOIL GAS ANALYTICAL RESULTS
One Hour Martinizing
Elm Grove, Wisconsin

Sample Identification	Sample Date	Sample Depth (feet BGS)	Tetrachloroethylene	Trichloroethylene	Chloroform
6142-SG-1	10/23/2012	14	**29,000**	**270**	<200
6142-SG-2	10/23/2012	4	1,600	<21	29
Soil Gas Regional Screening Level (Industrial)			**18,000**	**880**	**530**
Soil Gas Regional Screening Level (Residential)			**4,200**	**210**	**110**

Notes:

All concentrations are reported in units in micrograms per cubic meter (ug/m3)

The Regional Screeing Levels are based on an attenuation factor of 0.01 for utility corridor samples

Bolded and Shaded values exceed the U.S. EPA's Industrial Regional Screening Level

Bolded values exceed the U.S. EPA Residential Regional Screening Level

BGS = below ground surface

N.E. = Not Established

TABLE 8
SUMMARY OF SUB-SLAB VAPOR ANALYTICAL RESULTS
One Hour Martinizing
Elm Grove, Wisconsin

Sampling Identification	Date Sampled	Tetrachloroethylene	Trichloroethylene	Methylene Chloride
6142-SS-1	10/23/2012	**970**	<36	150
6142-SS-2	10/23/2012	**3,900**	<130	<210
Sub-Slab Vapor Regional Screening Levels (Industrial)		**1,800**	**88**	**26,000**
Sub-Slab Vapor Regional Screening Levels (Residential)		**420**	**21**	**6,300**

Notes:

All concentrations are reported in units in micrograms per cubic meter (ug/m3)

The Regional Screeing Levels are based on an attenuation factor of 0.1 for sub-slab samples

Bolded and Shaded values exceed the U.S. EPA's Industrial Regional Screening Level

Bolded values exceed the U.S. EPA Residential Regional Screening Level

N.E. = Not Established

TABLE 9
POTABLE WELL SURVEY
One Hour Martinizing
Elm Grove, Wisconsin

WI Unique Well No	Well Constructor's Report No	Public Land Survey System Information							Municipality	Well Address	Distance and Direction from Site (Approx ft)		Completion Date (mm/dd/yyyy)	Constructor	Well Depth (ft)	Source
		Q	Q	Q	Q	Sec	T	R								
	WK6189				NW	25	7N	20E	Brookfield	East Side of Park Lane	1,100	SW	05/01/1946	Knaack & Son Co.	187	DATCP
	WK6190					25	7N	20E	Brookfield	Elm Grove St between Watertown Plank Road and Juneau Ave	700	NE	01/17/1940			DATCP
	WK6219			SE	NW	25	7N	20E	Brookfield	Near Watertown Plank Road and Elm Grove Road	400	SW	07/11/1939	A. F. Leissning & Son		DATCP
	WK6226		SW	SE	NW	25	7N	20E	Elm Grove	13500 Highwood Dr	1,200	SW	05/28/1976	Groth Tischendorf Drilling, Inc.	249	DATCP
	WK6227		SW	SE	NW	25	7N	20E	Elm Grove	South Side of Morningside Lane - south of Watertown Plank Road	900	SW	06/09/1939	Knaack & Son Co.		DATCP
	WK6228		SW	SE	NW	25	7N	20E	Elm Grove	Morningside Lane - One block south of Watertown Plank Road	900	SW	12/18/1941	Knaack & Son Co.		DATCP
	WK6231		NW	SE	NW	25	7N	20E	Brookfield	Watertown Plank Road & Morningside Lane	800	SW	08/10/1953	A. F. Leissning & Son	149	DATCP
	WK6232		NW	SE	NW	25	7N	20E	Elm Grove	13435 Watertown Plank Road	200	SW	05/11/1967		144	DATCP
	WK6233		NW	SE	NW	25	7N	20E	Elm Grove	13425 Watertown Plank Road	200	SW	08/10/1967	Ronald Roschi	220	DATCP
	WK6234		NW	SE	NW	25	7N	20E	Elm Grove	Morningside Lane - One block south of Watertown Plank Road	800	SW		Knaack & Son Co.		DATCP
	WK6235		NW	SE	NW	25	7N	20E	Elm Grove	Morningside Dr	800	SW	05/01/1956	Gus Beyer	191	DATCP
	WK6236		NW	SE	NW	25	7N	20E	Elm Grove	West side of Elm Grove Road - One block south of Watertown Plank Road	600	SW	07/29/1942	Knaack & Son Co.		DATCP
	WK6237		NW	SE	NW	25	7N	20E	Elm Grove	890 Elm Grove Road	800	S	05/06/1970	Berkholtz Drilling Co., Inc.	300	DATCP
	WK6238		NW	SE	NW	25	7N	20E	Elm Grove	Elm Grove			10/20/1938	Earl Acker	73	DATCP
	WK6239		NW	SE	NW	25	7N	20E	Elm Grove	Watertown Plank Road at Elm Grove Road	400	SW	11/23/1955	G. J. Schant	45	DATCP
	WK6240		NW	SE	NW	25	7N	20E	Elm Grove	North of Watertown Plank Road - East Side of Morningside Lane	800	W	04/01/1956	Knaack & Son Co.	137	DATCP
	WK6241		NE	SE	NW	25	7N	20E	Elm Grove	Watertown Plank Road			09/25/1957	G. J. Schant	92	DATCP
	WK6242		NE	SE	NW	25	7N	20E	Elm Grove	800 Wall Street	1,000	SE	09/19/1968	Berkholtz Drilling Co., Inc.	217	DATCP
	WK6243		NE	SE	NW	25	7N	20E	Elm Grove	850 Elm Grove Road	1,000	S	02/27/1969	Berkholtz Drilling Co., Inc.	233	DATCP
	WK6244	SW	NE	SE	NW	25	7N	20E	Elm Grove	Intersection of Elm Grove and Park Shop Rd			07/01/1957	LAYNE NORTHWEST COMPANY	296	DATCP
	WK6245	NW	NE	SE	NW	25	7N	20E	Elm Grove	13425 Watertown Plank Road	200	SW	12/12/1969	Egerer-Galloway Well Corp.	125	DATCP
	WK6247			NW	NW	25	7N	20E	Elm Grove	Elm Grove Road - Two blocks north of Watertown Plank Road	900	NW	07/05/1950	Earl Acker	98	DATCP
	WK6255		SE	NW	NW	25	7N	20E	Elm Grove	915 Katherine Dr	900	W	04/13/1950	Martin Hall	97	DATCP
	WK6259		SE	NW	NW	25	7N	20E	Elm Grove	955 Katherine Dr	1,200	NW	04/19/1956	Myron Acker	148	DATCP
	WK6261		SE	NW	NW	25	7N	20E	Elm Grove	945 Elm Grove Rd	500	NW	06/11/1971	Richard Roschi	304	DATCP
	WK6273			NE	NW	25	7N	20E	Elm Grove	13310 Watertown Plank Road	300	NE	04/01/1965	Modern Pump Well Drilling	80	DATCP

TABLE 9
POTABLE WELL SURVEY
One Hour Martinizing
Elm Grove, Wisconsin

WI Unique Well No	Well Constructor's Report No	Public Land Survey System Information							Municipality	Well Address	Distance and Direction from Site (Approx ft)		Completion Date (mm/dd/yyyy)	Constructor	Well Depth (ft)	Source
		Q	Q	Q	Q	Sec	T	R								
	WK6274			NE	NW	25	7N	20E	Elm Grove	13310 Watertown Plank Road	300	NE	04/01/1965	Modern Pump Well Drilling	80	DATCP
	WK6275		SW	NE	NW	25	7N	20E	Elm Grove	North Side of Watertown Plank Road - East of Elm Grove Road	300	W	07/20/1946	Knaack & Son Co.	110	DATCP
	WK6276		SW	NE	NW	25	7N	20E	Elm Grove	Watertown Plank and Elm Grove Road	400	W	04/30/1953	Earl Acker	56	DATCP
	WK6277		SW	NE	NW	25	7N	20E	Elm Grove	NW Corner of Watertown Plank and Elm Grove Street	500	NE	10/30/1957	Knaack & Son Co.	75	DATCP
	WK6278		SW	NE	NW	25	7N	20E	Elm Grove	NE Corner of Watertown Plank and Elm Grove Road	350	W	12/01/1955	Knaack & Son Co.	52	DATCP
	WK6279		SW	NE	NW	25	7N	20E	Elm Grove	Shopping Center in Elm Grove - A&P Store	200	S	02/01/1956	Knaack & Son Co.	44	DATCP
	WK6281		SE	NE	NW	25	7N	20E	Elm Grove	13395 Watertown Plank Road	100	E	05/17/1971	Clarence Acker	111	DATCP
	WK6282		SE	NE	NW	25	7N	20E	Elm Grove	13395 Watertown Plank Road	100	E	12/02/1972	Berkholtz Drilling Co., Inc.	248	DATCP
	WK6283		SE	NE	NW	25	7N	20E	Elm Grove	Elm Grove Street	600	NE	05/26/1942	Earl Acker		DATCP
	WK6284		NW	NE	NW	25	7N	20E	Elm Grove	1135 Legion Dr	500	N	10/10/1978	GROTH DRILLING CO INC	235	DATCP
	WK6285			NW	NE	25	7N	20E	Elm Grove	13405 Juneau Blvd	1,000	N	08/26/1971	Berkholtz Drilling Co., Inc.	265	DATCP
	WK6286		NW	NE	NW	25	7N	20E	Elm Grove	1055 Legion Dr	350	N	11/13/1967	Ronald Roschi	58	DATCP
	WK6287		NE	NE	NW	25	7N	20E	Elm Grove	1175 Church St	850	NE	05/11/1967	Chas. Podrug	223	DATCP
	WK6288		NE	NE	NW	25	7N	20E	Elm Grove	1185 Church St	900	NE	04/13/1967	Chas. Podrug	216	DATCP
	WK6289		NE	NE	NW	25	7N	20E	Elm Grove	13205 Juneau Blvd	1,200	NE	01/28/1965	Gregory Johnson	210	DATCP
	WK6290		NE	NE	NW	25	7N	20E	Elm Grove	NW Corner of Watertown Plank Road and Church Street	500	NE	07/16/1947	Knaack & Son Co.	96	DATCP
	WK6291		NE	NE	NW	25	7N	20E	Elm Grove	Elm Grove Street	600	NE	04/11/1952	Walter Uecker	75	DATCP
	WK6293		NW	SW	NE	25	7N	20E	Elm Grove	S. side of Wall St., 1/4 mile east of Elm Grove Road	1,000	S	12/09/1970	Garber & Son	201	DATCP
	WK6306		NW	NW	NE	25	7N	20E	Elm Grove	13150 Watertown Plank Road	1,000	NE	03/05/1968	Advance Well Drilling	170	DATCP
	WK6307		NW	NW	NE	25	7N	20E	Elm Grove	13105 Watertown Plank Road	1,150	NE	06/01/1956	D.E. Leicht	1218	DATCP
	WK40022			SE	NW	25	7N	20E	Elm Grove	13305 Highwood Drive	1,150	SW	10/29/1984	Ed Kranz	214	DATCP
AF502						25	7N	20E	Elm Grove	1150 Legion Dr.	600	N	06/16/1988	GROTH DRILLING CO INC	98	WDNR
DU247						25	7N	20E	Elm Grove	13420 Watertown Plank Road	600	NW	11/28/1990	ROSCHI BROS WELLDRLG AND PUMP INC	224	WDNR
DW144		NW	NE	SE	NW	25	7N	20E	Elm Grove	13425 Watertown Plank Road	200	SW	03/26/1993	C T W CORP	300	WDNR
TW098						25	7N	20E	Elm Grove	940 Katherine Dr	1,000	W	01/10/2007	MICHAEL G HARTMAN	57	WDNR

Notes:
DATCP = Wisconsin Department of Agriculture, Trade and Consumer Protection (database address = http://datcpgis.wi.gov/WellLogs/)
WDNR = Wisconsin Department of Natural Resources (database address = http://prodoasext.dnr.wi.gov/inter1/watr$.startup)
Blank indicates information not available
This table consists of water well information readily accessible from state regulatory sources. EnviroForensics makes no claim regarding the accuracy or completeness of the information provided on the well records.

TABLE 10
COST ESTIMATE
One Hour Martinizing
13405 Watertown Plank Road, Elm Grove, Wisconsin

TASK	LABOR COSTS	SUB-CONTRACTOR COSTS	DIRECT COSTS	PHASE COST
Phase 13a				
Historic Records & Utility Map Reviews	$3,376	$354	$40	**$3,770**
Phase 13b				
HASP Revisions	$520	$0	$2	**$522**
Phase 13c				
Access Agreement with Village of Elm Grove	$2,810	$0	$80	**$2,890**
Phase 13d				
Soil Boring/Soil Gas Install & Sample--Monitoring Well Install & Slug Testing	$6,242	$16,279	$1,472	**$23,994**
Phase 13e				
Quarterly Groundwater Monitoring (4-quarters)	$11,016	$3,861	$3,395	**$18,271**
Phase 13f				
Sampling of On-site Water Supply Well	$704	$351	$113	**$1,167**
Phase 13g				
IDM Management	$1,469	$439	$75	**$1,983**
Phase 13h				
Data Evaluation & Reporting	$9,710	$0	$116	**$9,826**
Phase 13i				
Project Management	$4,774	$0	$84	**$4,858**
Phase 13j				
Work Scope Preparation	$4,182	$0	$51	**$4,233**
TOTAL	**$44,803**	**$21,284**	**$5,427**	**$71,514**

Project Title: OHM Elm Grove
Project Number/Name: 6142
Date: 1/31/2013

ENVIROforensics

PHASE 13a: Historic Records & Utility Map Review

Labor - Field	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr			$0.00	
Project Manager	$153.00	hr	8.0		$1,224.00	
Staff Geologist	$91.80	hr	2.0		$183.60	
Drafting	$102.00	hr			$0.00	
Admin	$61.20	hr			$0.00	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$1,407.60	$1,407.60

Labor - Office/Reporting	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr	2.0		$367.20	
Project Manager	$153.00	hr	5.0		$765.00	
Staff Geologist	$91.80	hr	8.0		$734.40	
Drafting	$102.00	hr	1.0		$102.00	
Admin	$61.20	hr			$0.00	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$1,968.60	$1,968.60

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task Total
Utility Locate		LS		1.09	$0.00	
Driller		LS		1.09	$0.00	
Surveyor		LS		1.09	$0.00	
Waste Disposal		LS		1.09	$0.00	
Historical Database Report	$325.00	LS	1.0	1.09	$354.25	
Remediation		LS		1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
					$354.25	$354.25

Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal	
Soil VOC 8260 dry wt	$83.50	ea		1.09	$0.00	
Soil VOC 8260 dry wt QA/QC	$83.50	ea		1.09	$0.00	
GW VOC 8260	$70.00	ea		1.09	$0.00	
GW VOC 8260 QA/QC	$70.00	ea		1.09	$0.00	
Air TO-15 -- Soil Gas	$200.00	ea		1.09	$0.00	
Air TO-15 -- Sub-Slab	$200.00	ea		1.09	$0.00	
Air TO-15 -- Indoor Air	$200.00	ea		1.09	$0.00	
Air - Indivudual Certification	$50.00	ea		1.09	$0.00	
Air - Batch Certification	$50.00	LS		1.09	$0.00	
		ea		1.09	$0.00	
Trip Blank VOCs 8260	$70.00	ea		1.09	$0.00	
Level IV QA/QC (15%)					$0.00	
					$0.00	$0.00

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal	
Hotel		day		0.00	$0.00	
Meals		LS	1.0	0.00	$0.00	
Misc Materials		LS	1.0	0.00	$0.00	
Equipment Rental		LS	1.0	0.00	$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	$0.00

	Direct Costs - Chargeable Equipment Expense	Rate (hr/unit)	# Hrs/Units	Rate (day/use)	# days/use	Subtotal	
Vehicles	Field Vehicle - Full Day	$ 20.00	2.00	$ 125.00		$40.00	
	Mileage at Federal IRS Reimbursement Rate (over 100 miles)	$ 0.55					
	Air Velocity Meter (per use)			$ 25.00			
Meters	Multi-meter Conductivity/pH/Temp/TDS			$ 165.00			
	Dissolved Oxygen Meter			$ 40.00			
	FID Foxboro/Sensidyne (TIP)			$ 155.00			
	Flow Cell			$ 10.00			
	PID or 580 OVM			$ 120.00			
	Turbidity Meter			$ 30.00			
	ORP Meter			$ 30.00			
	Air Pump - Low Flow (Barcad)			$ 25.00			
Pumps	Development Pump			$ 130.00			
	Electric Submersible Pump with Control Box (Units)			$ 130.00			
	Micro Purge Bladder	$ 12.00					
	Peristaltic Pump			$ 50.00			
	Pumping Test Accessory Equipment (Flow Meters/Manifolds	$ 100.00					
	Portable SVE Unit - 1.5 HP			$ 155.00			
	Centrifugal Low-Flow Sampling Kit w/ Flow Cell and Multimeter			$ 235.00			
	Bailers (Disposable)	$ 10.00					
Other	Bailers (Non-Disposable)			$ 15.00			
	Core Boxes	$ 10.00					
	Core Sampler			$ 55.00			
	Data Logger with Transducer			$ 155.00			
	Well Caps	$ 30.00					
	Elec. Well Sounder (Probe)			$ 30.00			
	5035 Sample Kit	$ 16.00					
	Field Book	$ 11.00					
	Filter - Large	$ 18.00					
	Filter - Small	$ 9.00					
	Generator			$ 105.00			
	Hand Auger			$ 30.00			
	Helium QA/QC Kit			$ 235.00			
	Helium QA/QC Accessories	$ 20.00					
	Oil/Water Interface Probe			$ 105.00			
	Padlocks	$ 15.00					
	Steam Cleaner			$ 130.00			
	Transducer (ea)			$ 40.00			
	Hand Drill			$ 75.00			
	Tubing - Polypropylene (Teflon): 1/4" OD (per foot)	$ 1.40					
	Tubing - Polypropylene (Teflon): 1/4" ID (per foot)	$ 1.55					
	Tubing - Polypropylene: 1/4" (per foot)	$ 0.52					
	Tubing - Polypropylene: 1/2" (per foot)	$ 0.78					
	Tubing - Tygon: 3/8" STD (per foot)	$ 4.15					
	Tubing - Silicone: 3/8" STD (per foot)	$ 8.30					
	55-Gallon Drum	$ 55.00					
	Vapor Pin Sub-Slab Sampling Port	$ 75.00					
	Well Cover 8X12"	$ 105.00					
	Measuring Wheel			$ 15.00			
	Camera			$ 25.00			
	1L Tedlar Bag	$ 20.00					
	HAZMAT Exemption Shipper	$ 40.00					
	Manometers	$105.00					
	Westlaw	$105.00					
	Cones, Baracades & Traffic Signs			$ 10.00			
Safety	Gloves (Chemical Resistant)	$ 10.00					
	Level "B": Level "C1" plus SCBA			$ 210.00			
	Level "C1": Level "C2" plus Polycoat Suit			$ 85.00			
	Level "C2": Level "D" plus Respirator			$ 40.00			
	Standby SCBA			$ 130.00			
	All routine Level D safety equip. and routine field equip.			$ 130.00			
Production	1 Inch Binder	$ 9.00					
	2 Inch Binder	$ 12.00					
	3 Inch Binder	$ 15.00					
	4 Inch Binder	$ 22.00					
	Binder Tabs (Set of 8)	$ 5.00					
	Color Copies	$ 0.30					
	B/W Copies	$ 0.15					
	Document - Format/Sending	$ 15.00					
	Report CD Copy	$ 5.00					
						$40.00	**$40.00**
	PHASE TOTAL						**$3,770.45**

Project Title: OHM Elm Grove
Project Number/Name: 6142
Date: 1/31/2013

ENVIRO forensics

PHASE 13b: HASP Revisions

Labor - Field	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr			$0.00	
Project Manager	$153.00	hr			$0.00	
Sr. Geologist/specialist	$127.50	hr			$0.00	
Staff Geologist	$91.80	hr			$0.00	
Drafting	$102.00	hr			$0.00	
Admin	$61.20	hr			$0.00	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$0.00	$0.00

Labor - Office/Reporting	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr			$0.00	
Project Manager	$153.00	hr	1.0		$153.00	
Staff Geologist	$91.80	hr	4.0		$367.20	
Drafting	$102.00	hr			$0.00	
Admin	$61.20	hr			$0.00	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$520.20	$520.20

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task Total
Utility Locate		LS	1.0	1.09	$0.00	
Driller		LS	1.0	1.09	$0.00	
Surveyor		LS	1.0	1.09	$0.00	
Waste Disposal		LS	1.0	1.09	$0.00	
Historical Database Report		LS	1.0	1.09	$0.00	
Remediation		LS	1.0	1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
					$0.00	$0.00

Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal	
Soil VOC 8260 dry wt	$83.50	ea		1.09	$0.00	
Soil VOC 8260 dry wt QA/QC	$83.50	ea		1.09	$0.00	
GW VOC 8260	$70.00	ea		1.09	$0.00	
GW VOC 8260 QA/QC	$70.00	ea		1.09	$0.00	
Air TO-15 -- Soil Gas	$200.00	ea		1.09	$0.00	
Air TO-15 -- Sub-Slab	$200.00	ea		1.09	$0.00	
Air TO-15 -- Indoor Air	$200.00	ea		1.09	$0.00	
Air - Indivudual Certification	$50.00	ea		1.09	$0.00	
Air - Batch Certification	$50.00	LS		1.09	$0.00	
		ea		1.09	$0.00	
Trip Blank VOCs 8260	$70.00	ea		1.09	$0.00	
Level IV QA/QC (15%)					$0.00	
					$0.00	$0.00

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal	
Hotel		day		0.00	$0.00	
Meals		LS		0.00	$0.00	
Misc Materials		LS		0.00	$0.00	
Equipment Rental		LS		0.00	$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	$0.00

	Direct Costs - Chargeable Equipment Expense	Rate (hr/unit)	# Hrs/Units	Rate (day/use)	# days/use	Subtotal	
Vehicles	Field Vehicle - Full Day	$ 20.00		$ 125.00			
	Mileage at Federal IRS Reimbursement Rate (over 100 miles	$ 0.51					
	Air Velocity Meter (per use)			$ 25.00			
Meters	Multi-meter Conductivity/pH/Temp/TDS			$ 165.00			
	Dissolved Oxygen Meter			$ 40.00			
	FID Foxboro/Sensidyne (TIP)			$ 155.00			
	Flow Cell			$ 10.00			
	PID or 580 OVM			$ 120.00			
	Turbidity Meter			$ 30.00			
	ORP Meter			$ 30.00			
	Air Pump - Low Flow (Barcad)			$ 25.00			
Pumps	Development Pump			$ 130.00			
	Electric Submersible Pump with Control Box (Units)			$ 130.00			
	Micro Purge Bladder	$ 12.00					
	Peristaltic Pump			$ 50.00			
	Pumping Test Accessory Equipment (Flow Meters/Manifolds	$ 100.00					
	Portable SVE Unit - 1.5 HP			$ 155.00			
	Centrifugal Low-Flow Sampling Kit w/ Flow Cell and Multimeter			$ 235.00			
	Bailers (Disposable)	$ 10.00					
Other	Bailers (Non-Disposable)			$ 15.00			
	Core Boxes	$ 10.00					
	Core Sampler			$ 55.00			
	Data Logger with Transducer			$ 155.00			
	Well Caps	$ 30.00					
	Elec. Well Sounder (Probe)			$ 30.00			
	5035 Sample Kit	$ 16.00					
	Field Book	$ 11.00					
	Filter - Large	$ 18.00					
	Filter - Small	$ 9.00					
	Generator			$ 105.00			
	Hand Auger			$ 30.00			
	Helium QA/QC Kit			$ 235.00			
	Helium QA/QC Accessories	$ 20.00					
	Oil/Water Interface Probe			$ 105.00			
	Padlocks	$ 15.00					
	Steam Cleaner			$ 130.00			
	Transducer (ea)			$ 40.00			
	Hand Drill			$ 75.00			
	Tubing - Polypropylene (Teflon): 1/4" OD (per foot)	$ 1.40					
	Tubing - Polypropylene (Teflon): 1/4" ID (per foot)	$ 1.55					
	Tubing - Polypropylene: 1/4" (per foot)	$ 0.52					
	Tubing - Polypropylene: 1/2" (per foot)	$ 0.78					
	Tubing - Tygon: 3/8" STD (per foot)	$ 4.15					
	Tubing - Silicone: 3/8" STD (per foot)	$ 8.30					
	55-Gallon Drum	$ 55.00					
	Vapor Pin Sub-Slab Sampling Port	$ 75.00					
	Well Cover 8X12"	$ 105.00					
	Measuring Wheel			$ 15.00			
	Camera			$ 25.00			
	1L Tedlar Bag	$ 20.00					
	HAZMAT Exemption Shipper	$ 40.00					
	Manometers	$105.00					
	Westlaw	$105.00					
	Cones, Baracades & Traffic Signs			$ 10.00			
Safety	Gloves (Chemical Resistant)	$ 10.00					
	Level "B": Level "C1" plus SCBA			$ 210.00			
	Level "C1": Level "C2" plus Polycoat Suit			$ 85.00			
	Level "C2": Level "D" plus Respirator			$ 40.00			
	Standby SCBA			$ 130.00			
	All routine Level D safety equip. and routine field equip.			$ 130.00			
Production	1 Inch Binder	$ 9.00					
	2 Inch Binder	$ 12.00					
	3 Inch Binder	$ 15.00					
	4 Inch Binder	$ 22.00					
	Binder Tabs (Set of 8)	$ 5.00					
	Color Copies	$ 0.30					
	B/W Copies	$ 0.15	12			$1.80	
	Document - Format/Sending	$ 15.00					
	Report CD Copy	$ 5.00					
						$1.80	$1.80
	PHASE TOTAL						$522.00

Project Title: OHM Elm Grove
Project Number/Name: 6142
Date: 1/31/2013

ENVIRO forensics

PHASE 13c: Access Agreement with Village of Elm Grove

Labor - Field	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr			$0.00	
Project Manager	$153.00	hr			$0.00	
Staff Geologist	$91.80	hr			$0.00	
Drafting	$102.00	hr			$0.00	
Admin	$61.20	hr			$0.00	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$0.00	$0.00

Labor - Office/Reporting	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr			$0.00	
Project Manager	$153.00	hr	16.0		$2,448.00	
Staff Geologist	$91.80	hr			$0.00	
Drafting	$102.00	hr	1.0		$102.00	
Admin	$61.20	hr			$0.00	
Counsel	$130.00	hr	2.0		$260.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$2,810.00	$2,810.00

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task Total
Utility Locate		LS	1.0	1.09	$0.00	
Driller		LS	1.0	1.09	$0.00	
Surveyor		LS	1.0	1.09	$0.00	
Waste Disposal		LS	1.0	1.09	$0.00	
Historical Database Report		LS	1.0	1.09	$0.00	
Remediation		LS	1.0	1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
					$0.00	$0.00

Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal
Soil VOC 8260 dry wt	$83.50	ea		1.09	$0.00
Soil VOC 8260 dry wt QA/QC	$83.50	ea		1.09	$0.00
GW VOC 8260	$70.00	ea		1.09	$0.00
GW VOC 8260 QA/QC	$70.00	ea		1.09	$0.00
Air TO-15 -- Soil Gas	$200.00	ea		1.09	$0.00
Air TO-15 -- Sub-Slab	$200.00	ea		1.09	$0.00
Air TO-15 -- Indoor Air	$200.00	ea		1.09	$0.00
Air - Indivudual Certification	$50.00	ea		1.09	$0.00
Air - Batch Certification	$50.00	LS		1.09	$0.00
		ea		1.09	$0.00
Trip Blank VOCs 8260	$70.00	ea		1.09	$0.00
Level IV QA/QC (15%)					$0.00
					$0.00	$0.00

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal
Hotel		day		0.00	$0.00
Meals		LS		0.00	$0.00
Misc Materials		LS	1.0	0.00	$0.00
Equipment Rental		LS	1.0	0.00	$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00	$0.00

	Direct Costs - Chargeable Equipment Expense	Rate (hr/unit)	# Hrs/Units	Rate (day/use)	# days/use	Subtotal	
Vehicles	Field Vehicle - Full Day	$ 20.00	4.00	$ 125.00		$80.00	
	Mileage at Federal IRS Reimbursement Rate (over 100 miles)	$ 0.51					
	Air Velocity Meter (per use)			$ 25.00			
Meters	Multi-meter Conductivity/pH/Temp/TDS			$ 155.00			
	Dissolved Oxygen Meter			$ 40.00			
	FID Foxboro/Sensidyne (TIP)			$ 155.00			
	Flow Cell			$ 10.00			
	PID or 580 OVM			$ 120.00			
	Turbidity Meter			$ 30.00			
	Water Level Meter			$ 30.00			
	Air Pump - Low Flow (Barcad)			$ 25.00			
Pumps	Development Pump			$ 130.00			
	Electric Submersible Pump with Control Box (Units)			$ 130.00			
	Micro Purge Bladder	$ 12.00					
	Peristaltic Pump			$ 50.00			
	Pumping Test Accessory Equipment (Flow Meters/Manifolds/Tubing)	$ 100.00					
	Portable SVE Unit - 1.5 HP			$ 155.00			
	Bladder Pump, Low-Flow Controller w/ Flow Cell and Multimeter			$ 235.00			
	Bailers (Disposable)	$ 10.00					
Other	Bailers (Non-Disposable)			$ 15.00			
	Core Boxes	$ 10.00					
	Core Sampler			$ 55.00			
	Data Logger with Transducer			$ 155.00			
	Well Caps	$ 30.00					
	Elec. Well Sounder (Probe)			$ 30.00			
	5035 Sample Kit	$ 16.00					
	Field Book	$ 11.00					
	Filter - Large	$ 18.00					
	Filter - Small	$ 9.00					
	Generator			$ 105.00			
	Hand Auger			$ 30.00			
	Helium QA/QC Kit			$ 235.00			
	Helium QA/QC Accessories	$ 20.00					
	Oil/Water Interface Probe			$ 105.00			
	Padlocks	$ 15.00					
	Steam Cleaner			$ 130.00			
	Transducer (ea)			$ 40.00			
	Hand Drill			$ 75.00			
	Tubing - Polypropylene (Teflon): 1/4" OD (per foot)	$ 1.40					
	Tubing - Polypropylene (Teflon): 1/4" ID (per foot)	$ 1.55					
	Tubing - Polypropylene: 1/4" (per foot)	$ 0.52					
	Tubing - Polypropylene: 1/2" (per foot)	$ 0.78					
	Tubing - Tygon: 3/8" STD (per foot)	$ 4.15					
	Tubing - Silicone: 3/8" STD (per foot)	$ 8.30					
	55-Gallon Drum	$ 55.00					
	Vapor Pin Sub-Slab Sampling Port	$ 75.00					
	Disposable Bladders for Bladder Pump	$ 12.00					
	Well Cover 8X12"	$ 105.00					
	Measuring Wheel			$ 15.00			
	Camera			$ 25.00			
	1L Tedlar Bag	$ 20.00					
	HAZMAT Exemption Shipper	$ 40.00					
	Manometers	$105.00					
	Westlaw	$105.00					
	Cones, Baracades & Traffic Signs			$ 10.00			
Safety	Gloves (Chemical Resistant)	$ 10.00					
	Level "B": Level "C1" plus SCBA			$ 210.00			
	Level "C1": Level "C2" plus Polycoat Suit			$ 85.00			
	Level "C2": Level "D" plus Respirator			$ 40.00			
	Standby SCBA			$ 130.00			
	All routine Level D safety equip. and routine field equip.			$ 130.00			
Production	1 Inch Binder	$ 9.00					
	2 Inch Binder	$ 12.00					
	3 Inch Binder	$ 15.00					
	4 Inch Binder	$ 22.00					
	Binder Tabs (Set of 8)	$ 5.00					
	Color Copies	$ 0.40					
	B/W Copies	$ 0.25					
	Document - Format/Sending	$ 15.00					
	Report CD Copy	$ 5.00					
						$80.00	$80.00
	PHASE TOTAL						**$2,890.00**

Project Title: OHM Elm Grove
Project Number/Name: 6142
Date: 1/31/2013

ENVIROforensics

PHASE 13d: Soil Boring/Soil Gas Install & Sample--Monitoring Well Install & Slug Testing

Labor - Field	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr			$0.00	
Project Manager	$153.00	hr	8.0		$1,224.00	
Staff Geologist	$91.80	hr	30.0		$2,754.00	
Drafting	$102.00	hr			$0.00	
Admin	$61.20	hr			$0.00	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$3,978.00	$3,978.00

Labor - Office/Reporting	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr	1.0		$183.60	
Project Manager	$153.00	hr	4.0		$612.00	
Staff Geologist	$91.80	hr	16.0		$1,468.80	
Drafting	$102.00	hr			$0.00	
Admin	$61.20	hr			$0.00	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$2,264.40	$2,264.40

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task Total
Utility Locate	$550.00	LS	1.0	1.09	$599.50	
Driller	$10,783.00	LS	1.0	1.09	$11,753.47	
Surveyor	$750.00	LS	1.0	1.09	$817.50	
Waste Disposal		LS	1.0	1.09	$0.00	
Historical Database Report		LS	1.0	1.09	$0.00	
Remediation		LS	1.0	1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
					$13,170.47	$13,170.47

Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal	
Soil VOC 8260 dry wt	$70.00	ea	24.0	1.09	$1,831.20	
GW VOC 8260 Grab Samples	$70.00	ea	3.0	1.09	$228.90	
GW VOC 8260	$70.00	ea		1.09	$0.00	
GW VOC 8260 QA/QC	$70.00	ea	1.0	1.09	$76.30	
Air TO-15 -- Soil Gas	$200.00	ea	2.0	1.09	$436.00	
Air TO-15 -- Sub-Slab	$225.00	ea		1.09	$0.00	
Air TO-15 -- Indoor Air	$200.00	ea		1.09	$0.00	
Air - Indivudual Certification	$50.00	ea		1.09	$0.00	
Air - Batch Certification	$50.00	LS	1.0	1.09	$54.50	
GW VOC 8260 Waste Disposal	$70.00	ea		1.09	$0.00	
Soil VOC 8260 Waste Disposal	$70.00	ea		1.09	$0.00	
Trip Blank VOCs 8260	$70.00	ea	1.0	1.09	$76.30	
Level IV QA/QC (15%)					$405.48	
					$3,108.68	$3,108.68

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal	
Hotel		day		0.00	$0.00	
Meals	$10.00	LS	1.0	0.00	$0.00	
Misc Materials		LS	1.0	0.00	$0.00	
Equipment Rental		LS	1.0	0.00	$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	$0.00

	Direct Costs - Chargeable Equipment Expense	Rate (hr/unit)	# Hrs/Units	Rate (day/use)	# days/use	Subtotal	
Vehicles	Field Vehicle - Full Day	$ 20.00		$ 125.00	3.00	$375.00	
	Mileage at Federal IRS Reimbursement Rate (over 100 miles)	$ 0.51					
	Air Velocity Meter (per use)			$ 25.00			
Meters	Multi-meter Conductivity/pH/Temp/TDS			$ 165.00			
	Dissolved Oxygen Meter			$ 40.00			
	FID Foxboro/Sensidyne (TIP)			$ 155.00			
	Flow Cell			$ 10.00			
	PID or 580 OVM			$ 120.00	3.00	$360.00	
	Turbidity Meter			$ 30.00			
	ORP Meter			$ 30.00			
	Air Pump - Low Flow (Barcad)			$ 25.00			
Pumps	Development Pump			$ 130.00			
	Electric Submersible Pump with Control Box (Units)			$ 130.00			
	Micro Purge Bladder	$ 12.00					
	Peristaltic Pump			$ 50.00	1.00	$50.00	
	Pumping Test Accessory Equipment (Flow Meters/Manifolds	$ 100.00					
	Portable SVE Unit - 1.5 HP			$ 155.00			
	Centrifugal Low-Flow Sampling Kit w/ Flow Cell and Multimeter			$ 235.00			
	Bailers (Disposable)	$ 10.00					
Other	Bailers (Non-Disposable)			$ 15.00			
	Core Boxes	$ 10.00					
	Core Sampler			$ 55.00			
	Data Logger with Transducer			$ 155.00	1.00	$155.00	
	Well Caps	$ 30.00					
	Elec. Well Sounder (Probe)			$ 30.00	1.00	$30.00	
	5035 Sample Kit	$ 16.00					
	Field Book	$ 11.00					
	Filter - Large	$ 18.00					
	Filter - Small	$ 9.00					
	Generator			$ 105.00			
	Hand Auger			$ 30.00			
	Helium QA/QC Kit			$ 235.00	1.00	$235.00	
	Helium QA/QC Accessories	$ 20.00					
	Oil/Water Interface Probe			$ 105.00			
	Padlocks	$ 15.00					
	Steam Cleaner			$ 130.00			
	Transducer (ea)			$ 40.00			
	Hand Drill			$ 75.00			
	Tubing - Polypropylene (Teflon): 1/4" OD (per foot)	$ 1.40					
	Tubing - Polypropylene (Teflon): 1/4" ID (per foot)	$ 1.55	25.00			$38.75	
	Tubing - Polypropylene: 1/4" (per foot)	$ 0.52					
	Tubing - Polypropylene: 1/2" (per foot)	$ 0.78					
	Tubing - Tygon: 3/8" STD (per foot)	$ 4.15					
	Tubing - Silicone: 3/8" STD (per foot)	$ 8.30	1.00			$8.30	
	55-Gallon Drum	$ 55.00					
	Vapor Pin Sub-Slab Sampling Port	$ 25.00					
	Well Cover 8X12"	$ 105.00					
	Measuring Wheel			$ 15.00			
	Camera			$ 25.00	2.00	$50.00	
	1L Tedlar Bag	$ 20.00					
	HAZMAT Exemption Shipper	$ 40.00					
	Manometers	$105.00					
	Westlaw	$105.00					
	Cones, Baracades & Traffic Signs			$ 10.00	4.00	$40.00	
Safety	Gloves (Chemical Resistant)	$ 10.00					
	Level "B": Level "C1" plus SCBA			$ 210.00			
	Level "C1": Level "C2" plus Polycoat Suit			$ 85.00			
	Level "C2": Level "D" plus Respirator			$ 40.00			
	Standby SCBA			$ 130.00			
	All routine Level D safety equip. and routine field equip.			$ 130.00	1.00	$130.00	
Production	1 Inch Binder	$ 9.00					
	2 Inch Binder	$ 12.00					
	3 Inch Binder	$ 15.00					
	4 Inch Binder	$ 22.00					
	Binder Tabs (Set of 8)	$ 5.00					
	Color Copies	$ 0.40					
	B/W Copies	$ 0.25					
	Document - Format/Sending	$ 15.00					
	Report CD Copy	$ 5.00					
						$1,472.05	$1,472.05
	PHASE TOTAL						**$23,993.60**

Project Title: OHM Elm Grove
Project Number/Name: 6142
Date: 1/31/2013

ENVIRO forensics

PHASE 13e: Quarterly Groundwater Monitoring (4-quarters)

Labor - Field	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr			$0.00	
Project Manager	$153.00	hr			$0.00	
Staff Geologist	$91.80	hr	40.0		$3,672.00	
Drafting	$102.00	hr			$0.00	
Admin	$61.20	hr			$0.00	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$3,672.00	**$3,672.00**

Labor - Office/Reporting	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr	4.0		$734.40	
Project Manager	$153.00	hr	24.0		$3,672.00	
Staff Geologist	$91.80	hr	16.0		$1,468.80	
Drafting	$102.00	hr	12.0		$1,224.00	
Admin	$61.20	hr	4.0		$244.80	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$7,344.00	**$7,344.00**

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task Total
Utility Locate		LS	1.0	1.09	$0.00	
Driller		LS	1.0	1.09	$0.00	
Surveyor		LS	1.0	1.09	$0.00	
Waste Disposal		LS	1.0	1.09	$0.00	
Historical Database Report		LS	1.0	1.09	$0.00	
Remediation		LS	1.0	1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
					$0.00	**$0.00**

Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal	
Soil VOC 8260 dry wt	$83.50	ea		1.09	$0.00	
Soil VOC 8260 dry wt QA/QC	$83.50	ea		1.09	$0.00	
GW VOC 8260	$70.00	ea	36.0	1.09	$2,746.80	
GW VOC 8260 QA/QC	$70.00	ea	4.0	1.09	$305.20	
Air TO-15 -- Soil Gas	$200.00	ea		1.09	$0.00	
Air TO-15 -- Sub-Slab	$200.00	ea		1.09	$0.00	
Air TO-15 -- Indoor Air	$200.00	ea		1.09	$0.00	
Air - Indivudual Certification	$50.00	ea		1.09	$0.00	
Air - Batch Certification	$50.00	LS		1.09	$0.00	
		ea		1.09	$0.00	
Trip Blank VOCs 8260	$70.00	ea	4.0	1.09	$305.20	
Level IV QA/QC (15%)					$503.58	
					$3,860.78	**$3,860.78**

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal	
Hotel		day		0.00	$0.00	
Meals		LS	1.0	0.00	$0.00	
Misc Materials	$10.00	LS	4.0	1.00	$40.00	
Equipment Rental		LS	1.0	0.00	$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$40.00	**$40.00**

	Direct Costs - Chargeable Equipment Expense	Rate (hr/unit)	# Hrs/Units	Rate (day/use)	# days/use	Subtotal	
Vehicles	Field Vehicle - Full Day	$ 20.00		$ 125.00	4.00	$500.00	
	Mileage at Federal IRS Reimbursement Rate (over 100 miles	$ 0.51					
	Air Velocity Meter (per use)			$ 25.00			
Meters	Multi-meter Conductivity/pH/Temp/TDS			$ 135.00	4.00	$540.00	
	Dissolved Oxygen Meter			$ 40.00			
	FID Foxboro/Sensidyne (TIP)			$ 155.00			
	Flow Cell			$ 10.00			
	PID or 580 OVM			$ 120.00			
	Turbidity Meter			$ 30.00			
	ORP Meter			$ 30.00			
	Air Pump - Low Flow (Barcad)			$ 25.00			
Pumps	Development Pump			$ 130.00			
	Bladder Pump with Compressor and Control Box (Units)			$ 130.00	4.00	$520.00	
	Micro Purge Bladder	$ 12.00	36.00			$432.00	
	Peristaltic Pump			$ 50.00			
	Pumping Test Accessory Equipment (Flow Meters/Manifolds	$ 100.00					
	Portable SVE Unit - 1.5 HP			$ 155.00			
	Centrifugal Low-Flow Sampling Kit w/ Flow Cell and Multimeter			$ 235.00			
	Bailers (Disposable)	$ 10.00					
Other	Bailers (Non-Disposable)			$ 15.00			
	Core Boxes	$ 10.00					
	Core Sampler			$ 55.00			
	Data Logger with Transducer			$ 155.00			
	Well Caps	$ 30.00					
	Elec. Well Sounder (Probe)			$ 30.00	4.00	$120.00	
	5035 Sample Kit	$ 16.00					
	Field Book	$ 11.00					
	Filter - Large	$ 18.00					
	Filter - Small	$ 9.00					
	Generator			$ 105.00			
	Hand Auger			$ 30.00			
	Helium QA/QC Kit			$ 235.00			
	Helium QA/QC Accessories	$ 20.00					
	Oil/Water Interface Probe			$ 105.00			
	Padlocks	$ 15.00					
	Steam Cleaner			$ 130.00			
	Transducer (ea)			$ 40.00			
	Hand Drill			$ 75.00			
	Tubing - Polypropylene (Teflon): 1/4" OD (per foot)	$ 1.40					
	Tubing - Polypropylene (Teflon): 1/4" ID (per foot)	$ 1.55	550.00			$852.50	
	Tubing - Polypropylene: 1/4" (per foot)	$ 0.52					
	Tubing - Polypropylene: 1/2" (per foot)	$ 0.78					
	Tubing - Tygon: 3/8" STD (per foot)	$ 4.15					
	Tubing - Silicone: 3/8" STD (per foot)	$ 8.30					
	55-Gallon Drum	$ 55.00					
	Vapor Pin Sub-Slab Sampling Port	$ 75.00					
	Well Cover 8X12"	$ 105.00					
	Measuring Wheel			$ 15.00			
	Camera			$ 25.00			
	1L Tedlar Bag	$ 20.00					
	HAZMAT Exemption Shipper	$ 40.00					
	Manometers	$105.00					
	Westlaw	$105.00					
	Cones, Baracades & Traffic Signs			$ 10.00			
Safety	Gloves (Chemical Resistant)	$ 10.00					
	Level "B": Level "C1" plus SCBA			$ 210.00			
	Level "C1": Level "C2" plus Polycoat Suit			$ 85.00			
	Level "C2": Level "D" plus Respirator			$ 40.00			
	Standby SCBA			$ 130.00			
	All routine Level D safety equip. and routine field equip.			$ 130.00	3.00	$390.00	
Production	1 Inch Binder	$ 9.00					
	2 Inch Binder	$ 12.00					
	3 Inch Binder	$ 15.00					
	4 Inch Binder	$ 22.00					
	Binder Tabs (Set of 8)	$ 5.00					
	Color Copies	$ 0.40					
	B/W Copies	$ 0.25					
	Document - Format/Sending	$ 15.00					
	Report CD Copy	$ 5.00					
						$3,354.50	$3,354.50
	PHASE TOTAL						**$18,271.28**

Project Title: OHM Elm Grove
Project Number/Name: 6142
Date: 1/31/2013

ENVIROforensics

PHASE 13f: Sampling of On-site Water Supply Well

Labor - Field	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr			$0.00	
Project Manager	$153.00	hr			$0.00	
Staff Geologist	$91.80	hr	4.0		$367.20	
Drafting	$102.00	hr			$0.00	
Admin	$61.20	hr			$0.00	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$367.20	$367.20

Labor - Office/Reporting	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr	0.5		$91.80	
Project Manager	$153.00	hr	1.0		$153.00	
Staff Geologist/Specialist	$95.00	hr			$0.00	
Staff Geologist	$91.80	hr	1.0		$91.80	
Drafting	$102.00	hr			$0.00	
Admin	$61.20	hr			$0.00	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$336.60	$336.60

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task Total
Utility Locate		LS	1.0	1.09	$0.00	
Driller		LS	1.0	1.09	$0.00	
Surveyor		LS	1.0	1.09	$0.00	
Waste Disposal		LS	1.0	1.09	$0.00	
Historical Database Report		LS	1.0	1.09	$0.00	
Remediation		LS	1.0	1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
					$0.00	$0.00

Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal	
Soil VOC 8260 dry wt	$83.50	ea		1.09	$0.00	
Soil VOC 8260 dry wt QA/QC	$83.50	ea		1.09	$0.00	
GW VOC 8260	$70.00	ea	2.0	1.09	$152.60	
GW VOC 8260 QA/QC	$70.00	ea	1.0	1.09	$76.30	
Air TO-15 -- Soil Gas	$200.00	ea		1.09	$0.00	
Air TO-15 -- Sub-Slab	$200.00	ea		1.09	$0.00	
Air TO-15 -- Indoor Air	$200.00	ea		1.09	$0.00	
Air - Indivudual Certification	$50.00	ea		1.09	$0.00	
Air - Batch Certification	$50.00	LS		1.09	$0.00	
		ea		1.09	$0.00	
Trip Blank VOCs 8260	$70.00	ea	1.0	1.09	$76.30	
Level IV QA/QC (15%)					$45.78	
					$350.98	$350.98

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal	
Hotel		day		0.00	$0.00	
Meals		LS	1.0	0.00	$0.00	
Misc Materials	$10.00	LS	1.0	1.00	$10.00	
Equipment Rental		LS	1.0	0.00	$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$10.00	$10.00

	Direct Costs - Chargeable Equipment Expense	Rate (hr/unit)	# Hrs/Units	Rate (day/use)	# days/use	Subtotal	
Vehicles	Field Vehicle - Full Day	$ 20.00		$ 125.00	0.50	$62.50	
	Mileage at Federal IRS Reimbursement Rate (over 100 miles	$ 0.51					
	Air Velocity Meter (per use)			$ 25.00			
Meters	Multi-meter Conductivity/pH/Temp/TDS			$ 165.00			
	Dissolved Oxygen Meter			$ 40.00			
	FID Foxboro/Sensidyne (TIP)			$ 155.00			
	Flow Cell			$ 10.00			
	PID or 580 OVM			$ 120.00			
	Turbidity Meter			$ 30.00			
	ORP Meter			$ 30.00			
	Air Pump - Low Flow (Barcad)			$ 25.00			
Pumps	Development Pump			$ 130.00			
	Electric Submersible Pump with Control Box (Units)			$ 130.00			
	Micro Purge Bladder	$ 12.00					
	Peristaltic Pump			$ 50.00			
	Pumping Test Accessory Equipment (Flow Meters/Manifolds	$ 100.00					
	Portable SVE Unit - 1.5 HP			$ 155.00			
	Centrifugal Low-Flow Sampling Kit w/ Flow Cell and Multimeter			$ 235.00			
	Bailers (Disposable)	$ 10.00	1.00			$10.00	
Other	Bailers (Non-Disposable)			$ 15.00			
	Core Boxes	$ 10.00					
	Core Sampler			$ 55.00			
	Data Logger with Transducer			$ 155.00			
	Well Caps	$ 30.00					
	Elec. Well Sounder (Probe)			$ 30.00	1.00	$30.00	
	5035 Sample Kit	$ 16.00					
	Field Book	$ 11.00					
	Filter - Large	$ 18.00					
	Filter - Small	$ 9.00					
	Generator			$ 105.00			
	Hand Auger			$ 30.00			
	Helium QA/QC Kit			$ 235.00			
	Helium QA/QC Accessories	$ 20.00					
	Oil/Water Interface Probe			$ 105.00			
	Padlocks	$ 15.00					
	Steam Cleaner			$ 130.00			
	Transducer (ea)			$ 40.00			
	Hand Drill			$ 75.00			
	Tubing - Polypropylene (Teflon): 1/4" OD (per foot)	$ 1.40					
	Tubing - Polypropylene (Teflon): 1/4" ID (per foot)	$ 1.55					
	Tubing - Polypropylene: 1/4" (per foot)	$ 0.52					
	Tubing - Polypropylene: 1/2" (per foot)	$ 0.78					
	Tubing - Tygon: 3/8" STD (per foot)	$ 4.15					
	Tubing - Silicone: 3/8" STD (per foot)	$ 8.30					
	55-Gallon Drum	$ 55.00					
	Vapor Pin Sub-Slab Sampling Port	$ 75.00					
	Well Cover 8X12"	$ 105.00					
	Measuring Wheel			$ 15.00			
	Camera			$ 25.00			
	1L Tedlar Bag	$ 20.00					
	HAZMAT Exemption Shipper	$ 40.00					
	Manometers	$105.00					
	Westlaw	$105.00					
	Cones, Baracades & Traffic Signs			$ 10.00			
Safety	Gloves (Chemical Resistant)	$ 10.00					
	Level "B": Level "C1" plus SCBA			$ 210.00			
	Level "C1": Level "C2" plus Polycoat Suit			$ 85.00			
	Level "C2": Level "D" plus Respirator			$ 40.00			
	Standby SCBA			$ 130.00			
	All routine Level D safety equip. and routine field equip.			$ 130.00			
Production	1 Inch Binder	$ 9.00					
	2 Inch Binder	$ 12.00					
	3 Inch Binder	$ 15.00					
	4 Inch Binder	$ 22.00					
	Binder Tabs (Set of 8)	$ 5.00					
	Color Copies	$ 0.40					
	B/W Copies	$ 0.25					
	Document - Format/Sending	$ 15.00					
	Report CD Copy	$ 5.00					
						$102.50	$102.50
	PHASE TOTAL						**$1,167.28**

Project Title: OHM Elm Grove
Project Number/Name: 6142
Date: 1/31/2013

ENVIROforensics

PHASE 13g: IDM Management

Labor - Field	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr			$0.00	
Project Manager	$153.00	hr			$0.00	
Staff Geologist	$91.80	hr	2.0		$183.60	
Drafting	$102.00	hr			$0.00	
Admin	$61.20	hr			$0.00	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$183.60	**$183.60**

Labor - Office/Reporting	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr	0.5		$91.80	
Project Manager	$153.00	hr	3.0		$459.00	
Staff Geologist	$91.80	hr	8.0		$734.40	
Drafting	$102.00	hr			$0.00	
Admin	$61.20	hr			$0.00	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$1,285.20	**$1,285.20**

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task Total
Utility Locate		LS	1.0	1.09	$0.00	
Driller		LS	1.0	1.09	$0.00	
Surveyor		LS	1.0	1.09	$0.00	
Waste Disposal		LS	1.0	1.09	$0.00	
Historical Database Report		LS	1.0	1.09	$0.00	
Remediation		LS	1.0	1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
					$0.00	**$0.00**

Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal
Soil VOC 8260 dry wt	$70.00	ea	3.0	1.09	$228.90
Soil VOC 8260 dry wt QA/QC	$70.00	ea		1.09	$0.00
GW VOC 8260	$70.00	ea	1.0	1.09	$76.30
GW VOC 8260 QA/QC	$70.00	ea		1.09	$0.00
Air TO-15 -- Soil Gas	$200.00	ea		1.09	$0.00
Air TO-15 -- Sub-Slab	$200.00	ea		1.09	$0.00
Air TO-15 -- Indoor Air	$200.00	ea		1.09	$0.00
Air - Indivudual Certification	$50.00	ea		1.09	$0.00
Air - Batch Certification	$50.00	LS		1.09	$0.00
		ea		1.09	$0.00
Trip Blank VOCs 8260	$70.00	ea	1.0	1.09	$76.30
Level IV QA/QC (15%)					$57.23
					$438.73

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal
Hotel		day		0.00	$0.00
Meals		LS	1.0	0.00	$0.00
Misc Materials	$10.00	LS	1.0	1.00	$10.00
Equipment Rental		LS	1.0	0.00	$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$10.00

	Direct Costs - Chargeable Equipment Expense	Rate (hr/unit)	# Hrs/Units	Rate (day/use)	# days/use	Subtotal	
Vehicles	Field Vehicle - Full Day	$ 20.00		$ 130.00	0.50	$65.00	
	Mileage at Federal IRS Reimbursement Rate (over 100 miles)	$ 0.51					
	Air Velocity Meter (per use)			$ 25.00			
Meters	Multi-meter Conductivity/pH/Temp/TDS			$ 165.00			
	Dissolved Oxygen Meter			$ 40.00			
	FID Foxboro/Sensidyne (TIP)			$ 155.00			
	Flow Cell			$ 105.00			
	PID or 580 OVM			$ 120.00			
	Turbidity Meter			$ 30.00			
	ORP Meter			$ 30.00			
	Air Pump - Low Flow (Barcad)			$ 25.00			
Pumps	Development Pump			$ 130.00			
	Electric Submersible Pump with Control Box (Units)			$ 130.00			
	Micro Purge Bladder	$ 12.00					
	Peristaltic Pump			$ 105.00			
	Pumping Test Accessory Equipment (Flow Meters/Manifolds	$ 100.00					
	Portable SVE Unit - 1.5 HP			$ 155.00			
	Centrifugal Low-Flow Sampling Kit w/ Flow Cell and Multimeter			$ 235.00			
	Bailers (Disposable)	$ 10.00					
Other	Bailers (Non-Disposable)			$ 15.00			
	Core Boxes	$ 10.00					
	Core Sampler			$ 55.00			
	Data Logger with Transducer			$ 155.00			
	Well Caps	$ 30.00					
	Elec. Well Sounder (Probe)			$ 30.00			
	5035 Sample Kit	$ 16.00					
	Field Book	$ 11.00					
	Filter - Large	$ 18.00					
	Filter - Small	$ 9.00					
	Generator			$ 105.00			
	Hand Auger			$ 30.00			
	Helium QA/QC Kit			$ 235.00			
	Helium QA/QC Accessories	$ 20.00					
	Oil/Water Interface Probe			$ 105.00			
	Padlocks	$ 15.00					
	Steam Cleaner			$ 130.00			
	Transducer (ea)			$ 40.00			
	Hand Drill			$ 75.00			
	Tubing - Polypropylene (Teflon): 1/4" OD (per foot)	$ 1.40					
	Tubing - Polypropylene (Teflon): 1/4" ID (per foot)	$ 1.55					
	Tubing - Polypropylene: 1/4" (per foot)	$ 0.52					
	Tubing - Polypropylene: 1/2" (per foot)	$ 0.78					
	Tubing - Tygon: 3/8" STD (per foot)	$ 4.15					
	Tubing - Silicone: 3/8" STD (per foot)	$ 8.30					
	55-Gallon Drum	$ 55.00					
	Vapor Pin Sub-Slab Sampling Port	$ 75.00					
	Well Cover 8X12"	$ 105.00					
	Measuring Wheel			$ 15.00			
	Camera			$ 25.00			
	1L Tedlar Bag	$ 20.00					
	HAZMAT Exemption Shipper	$ 40.00					
	Manometers	$105.00					
	Westlaw	$105.00					
	Cones, Baracades & Traffic Signs			$ 10.00			
Safety	Gloves (Chemical Resistant)	$ 10.00					
	Level "B": Level "C1" plus SCBA			$ 210.00			
	Level "C1": Level "C2" plus Polycoat Suit			$ 85.00			
	Level "C2": Level "D" plus Respirator			$ 40.00			
	Standby SCBA			$ 130.00			
	All routine Level D safety equip. and routine field equip.			$ 130.00			
Production	1 Inch Binder	$ 9.00					
	2 Inch Binder	$ 12.00					
	3 Inch Binder	$ 15.00					
	4 Inch Binder	$ 22.00					
	Binder Tabs (Set of 8)	$ 5.00					
	Color Copies	$ 0.40					
	B/W Copies	$ 0.25					
	Document - Format/Sending	$ 15.00					
	Report CD Copy	$ 5.00					
						$65.00	$65.00
	PHASE TOTAL						**$1,982.53**

Project Title: OHM Elm Grove
Project Number/Name: 6142
Date: 1/31/2013

ENVIROforensics

PHASE 13h: Data Evaluation & Reporting

Labor - Field	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr			$0.00	
Project Manager	$153.00	hr			$0.00	
Staff Geologist	$91.80	hr			$0.00	
Drafting	$102.00	hr			$0.00	
Admin	$61.20	hr			$0.00	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$0.00	$0.00

Labor - Office/Reporting	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr	2.0		$367.20	
Project Manager	$153.00	hr	40.0		$6,120.00	
Staff Geologist	$91.80	hr	16.0		$1,468.80	
Drafting	$102.00	hr	16.0		$1,632.00	
Admin	$61.20	hr	2.0		$122.40	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$9,710.40	$9,710.40

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task Total
Utility Locate		LS	1.0	1.09	$0.00	
Driller		LS	1.0	1.09	$0.00	
Surveyor		LS	1.0	1.09	$0.00	
Waste Disposal		LS	1.0	1.09	$0.00	
Historical Database Report		LS	1.0	1.09	$0.00	
Remediation		LS	1.0	1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
					$0.00	$0.00

Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal
Soil VOC 8260 dry wt	$83.50	ea		1.09	$0.00
Soil VOC 8260 dry wt QA/QC	$83.50	ea		1.09	$0.00
GW VOC 8260	$70.00	ea		1.09	$0.00
GW VOC 8260 QA/QC	$70.00	ea		1.09	$0.00
Air TO-15 -- Soil Gas	$200.00	ea		1.09	$0.00
Air TO-15 -- Sub-Slab	$200.00	ea		1.09	$0.00
Air TO-15 -- Indoor Air	$200.00	ea		1.09	$0.00
Air - Indivudual Certification	$50.00	ea		1.09	$0.00
Air - Batch Certification	$50.00	LS		1.09	$0.00
		ea		1.09	$0.00
Trip Blank VOCs 8260	$70.00	ea		1.09	$0.00
Level IV QA/QC (15%)					$0.00
					$0.00

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal
Hotel		day		0.00	$0.00
Meals		LS	1.0	0.00	$0.00
Misc Materials		LS	1.0	0.00	$0.00
Equipment Rental		LS	1.0	0.00	$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00

	Direct Costs - Chargeable Equipment Expense	Rate (hr/unit)	# Hrs/Units	Rate (day/use)	# days/use	Subtotal	
Vehicles	Field Vehicle - Full Day	$ 20.00		$ 125.00			
	Mileage at Federal IRS Reimbursement Rate (over 100 miles)	$ 0.51					
	Air Velocity Meter (per use)			$ 25.00			
Meters	Multi-meter Conductivity/pH/Temp/TDS			$ 165.00			
	Dissolved Oxygen Meter			$ 40.00			
	FID Foxboro/Sensidyne (TIP)			$ 155.00			
	Flow Cell			$ 10.00			
	PID or 580 OVM			$ 120.00			
	Turbidity Meter			$ 30.00			
	ORP Meter			$ 30.00			
	Air Pump - Low Flow (Barcad)			$ 25.00			
Pumps	Development Pump			$ 130.00			
	Electric Submersible Pump with Control Box (Units)			$ 130.00			
	Micro Purge Bladder	$ 12.00					
	Peristaltic Pump			$ 50.00			
	Pumping Test Accessory Equipment (Flow Meters/Manifolds	$ 100.00					
	Portable SVE Unit - 1.5 HP			$ 155.00			
	Centrifugal Low-Flow Sampling Kit w/ Flow Cell and Multimeter			$ 235.00			
	Bailers (Disposable)	$ 10.00					
Other	Bailers (Non-Disposable)			$ 15.00			
	Core Boxes	$ 10.00					
	Core Sampler			$ 55.00			
	Data Logger with Transducer			$ 155.00			
	Well Caps	$ 30.00					
	Elec. Well Sounder (Probe)			$ 30.00			
	5035 Sample Kit	$ 16.00					
	Field Book	$ 11.00					
	Filter - Large	$ 18.00					
	Filter - Small	$ 9.00					
	Generator			$ 105.00			
	Hand Auger			$ 30.00			
	Helium QA/QC Kit			$ 235.00			
	Helium QA/QC Accessories	$ 20.00					
	Oil/Water Interface Probe			$ 105.00			
	Padlocks	$ 15.00					
	Steam Cleaner			$ 130.00			
	Transducer (ea)			$ 40.00			
	Hand Drill			$ 75.00			
	Tubing - Polypropylene (Teflon): 1/4" OD (per foot)	$ 1.40					
	Tubing - Polypropylene (Teflon): 1/4" ID (per foot)	$ 1.55					
	Tubing - Polypropylene: 1/4" (per foot)	$ 0.52					
	Tubing - Polypropylene: 1/2" (per foot)	$ 0.78					
	Tubing - Tygon: 3/8" STD (per foot)	$ 4.15					
	Tubing - Silicone: 3/8" STD (per foot)	$ 8.30					
	55-Gallon Drum	$ 55.00					
	Vapor Pin Sub-Slab Sampling Port	$ 75.00					
	Well Cover 8X12"	$ 105.00					
	Measuring Wheel			$ 15.00			
	Camera			$ 25.00			
	1L Tedlar Bag	$ 20.00					
	HAZMAT Exemption Shipper	$ 40.00					
	Manometers	$105.00					
	Westlaw	$105.00					
	Cones, Baracades & Traffic Signs			$ 10.00			
Safety	Gloves (Chemical Resistant)	$ 10.00					
	Level "B": Level "C1" plus SCBA			$ 210.00			
	Level "C1": Level "C2" plus Polycoat Suit			$ 85.00			
	Level "C2": Level "D" plus Respirator			$ 40.00			
	Standby SCBA			$ 130.00			
	All routine Level D safety equip. and routine field equip.			$ 130.00			
Production	1 Inch Binder	$ 9.00	2.00			$18.00	
	2 Inch Binder	$ 12.00					
	3 Inch Binder	$ 15.00					
	4 Inch Binder	$ 22.00					
	Binder Tabs (Set of 8)	$ 5.00					
	Color Copies	$ 0.30	26			$7.80	
	B/W Copies	$ 0.15	600			$90.00	
	Document - Format/Sending	$ 15.00					
	Report CD Copy	$ 5.00					
						$115.80	$115.80
	PHASE TOTAL						**$9,826.20**

Project Title: OHM Elm Grove
Project Number/Name: 6142
Date: 1/31/2013

ENVIROforensics

PHASE 13i: Project Management (based on 4-month project duration)

Labor - Field	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr			$0.00	
Project Manager	$153.00	hr			$0.00	
Staff Geologist	$91.80	hr			$0.00	
Drafting	$102.00	hr			$0.00	
Admin	$61.20	hr			$0.00	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$0.00	$0.00

Labor - Office/Reporting	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr	2.0		$367.20	
Project Manager	$153.00	hr	26.0		$3,978.00	
Staff Geologist	$91.80	hr	4.0		$367.20	
Drafting	$102.00	hr			$0.00	
Admin	$61.20	hr	1.0		$61.20	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$4,773.60	$4,773.60

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task Total
Utility Locate		LS	1.0	1.09	$0.00	
Driller		LS	1.0	1.09	$0.00	
Surveyor		LS	1.0	1.09	$0.00	
Waste Disposal		LS	1.0	1.09	$0.00	
Historical Database Report		LS	1.0	1.09	$0.00	
Remediation		LS	1.0	1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
					$0.00	$0.00

Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal	
Soil VOC 8260 dry wt	$83.50	ea		1.09	$0.00	
Soil VOC 8260 dry wt QA/QC	$83.50	ea		1.09	$0.00	
GW VOC 8260	$70.00	ea		1.09	$0.00	
GW VOC 8260 QA/QC	$70.00	ea		1.09	$0.00	
Air TO-15 -- Soil Gas	$200.00	ea		1.09	$0.00	
Air TO-15 -- Sub-Slab	$200.00	ea		1.09	$0.00	
Air TO-15 -- Indoor Air	$200.00	ea		1.09	$0.00	
Air - Indivudual Certification	$50.00	ea		1.09	$0.00	
Air - Batch Certification	$50.00	LS		1.09	$0.00	
		ea		1.09	$0.00	
Trip Blank VOCs 8260	$70.00	ea		1.09	$0.00	
Level IV QA/QC (15%)					$0.00	
					$0.00	$0.00

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal	
Hotel		day		0.00	$0.00	
Meals		LS	1.0	0.00	$0.00	
Misc Materials		LS	1.0	0.00	$0.00	
Equipment Rental		LS	1.0	0.00	$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	
					$0.00	$0.00

	Direct Costs - Chargeable Equipment Expense	Rate (hr/unit)	# Hrs/Units	Rate (day/use)	# days/use	Subtotal	
Vehicles	Field Vehicle - Full Day	$ 20.00	4.00	$ 125.00		$80.00	
	Mileage at Federal IRS Reimbursement Rate (over 100 miles)	$ 0.51					
	Air Velocity Meter (per use)			$ 25.00			
Meters	Multi-meter Conductivity/pH/Temp/TDS			$ 165.00			
	Dissolved Oxygen Meter			$ 40.00			
	FID Foxboro/Sensidyne (TIP)			$ 155.00			
	Flow Cell			$ 10.00			
	PID or 580 OVM			$ 120.00			
	Turbidity Meter			$ 30.00			
	ORP Meter			$ 30.00			
	Air Pump - Low Flow (Barcad)			$ 25.00			
Pumps	Development Pump			$ 130.00			
	Electric Submersible Pump with Control Box (Units)			$ 130.00			
	Micro Purge Bladder	$ 12.00					
	Peristaltic Pump			$ 50.00			
	Pumping Test Accessory Equipment (Flow Meters/Manifolds	$ 100.00					
	Portable SVE Unit - 1.5 HP			$ 155.00			
	Centrifugal Low-Flow Sampling Kit w/ Flow Cell and Multimeter			$ 235.00			
	Bailers (Disposable)	$ 10.00					
Other	Bailers (Non-Disposable)			$ 15.00			
	Core Boxes	$ 10.00					
	Core Sampler			$ 55.00			
	Data Logger with Transducer			$ 155.00			
	Well Caps	$ 30.00					
	Elec. Well Sounder (Probe)			$ 30.00			
	5035 Sample Kit	$ 16.00					
	Field Book	$ 11.00					
	Filter - Large	$ 18.00					
	Filter - Small	$ 9.00					
	Generator			$ 105.00			
	Hand Auger			$ 30.00			
	Helium QA/QC Kit			$ 235.00			
	Helium QA/QC Accessories	$ 20.00					
	Oil/Water Interface Probe			$ 105.00			
	Padlocks	$ 15.00					
	Steam Cleaner			$ 130.00			
	Transducer (ea)			$ 40.00			
	Hand Drill			$ 75.00			
	Tubing - Polypropylene (Teflon): 1/4" OD (per foot)	$ 1.40					
	Tubing - Polypropylene (Teflon): 1/4" ID (per foot)	$ 1.55					
	Tubing - Polypropylene: 1/4" (per foot)	$ 0.52					
	Tubing - Polypropylene: 1/2" (per foot)	$ 0.78					
	Tubing - Tygon: 3/8" STD (per foot)	$ 4.15					
	Tubing - Silicone: 3/8" STD (per foot)	$ 8.30					
	55-Gallon Drum	$ 55.00					
	Vapor Pin Sub-Slab Sampling Port	$ 75.00					
	Well Cover 8X12"	$ 105.00					
	Measuring Wheel			$ 15.00			
	Camera			$ 25.00			
	1L Tedlar Bag	$ 20.00					
	HAZMAT Exemption Shipper	$ 40.00					
	Manometers	$105.00					
	Westlaw	$105.00					
	Cones, Baracades & Traffic Signs			$ 10.00			
Safety	Gloves (Chemical Resistant)	$ 10.00					
	Level "B": Level "C1" plus SCBA			$ 210.00			
	Level "C1": Level "C2" plus Polycoat Suit			$ 85.00			
	Level "C2": Level "D" plus Respirator			$ 40.00			
	Standby SCBA			$ 130.00			
	All routine Level D safety equip. and routine field equip.			$ 130.00			
Production	1 Inch Binder	$ 9.00					
	2 Inch Binder	$ 12.00					
	3 Inch Binder	$ 15.00					
	4 Inch Binder	$ 22.00					
	Binder Tabs (Set of 8)	$ 5.00					
	Color Copies	$ 0.30	8			$2.40	
	B/W Copies	$ 0.15	10			$1.50	
	Document - Format/Sending	$ 15.00					
	Report CD Copy	$ 5.00					
						$83.90	$83.90
	PHASE TOTAL						**$4,857.50**

Project Title: OHM Elm Grove
Project Number/Name: 6142
Date: 1/31/2013

ENVIROforensics

PHASE 13j: Work Scope Preparation

Labor - Field	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr			$0.00	
Project Manager	$153.00	hr	1.0		$153.00	
Staff Geologist	$91.80	hr			$0.00	
Drafting	$102.00	hr			$0.00	
Admin	$61.20	hr			$0.00	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$153.00	$153.00

Labor - Office/Reporting	Price	Unit	# Units		Subtotal	Task Total
Principal	$183.60	hr	2.0		$367.20	
Project Manager	$153.00	hr	20.0		$3,060.00	
Staff Geologist	$91.80	hr	4.0		$367.20	
Drafting	$102.00	hr	2.0		$204.00	
Admin	$61.20	hr	0.5		$30.60	
Counsel	$130.00	hr			$0.00	
		hr			$0.00	
		hr			$0.00	
		hr			$0.00	
					$4,029.00	$4,029.00

Contractors/Consultants	Price	Unit	# Units	Markup	Subtotal	Task Total
Utility Locate		LS	1.0	1.09	$0.00	
Driller		LS	1.0	1.09	$0.00	
Surveyor		LS	1.0	1.09	$0.00	
Waste Disposal		LS	1.0	1.09	$0.00	
Historical Database Report		LS	1.0	1.09	$0.00	
Remediation		LS	1.0	1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
				1.09	$0.00	
					$0.00	$0.00

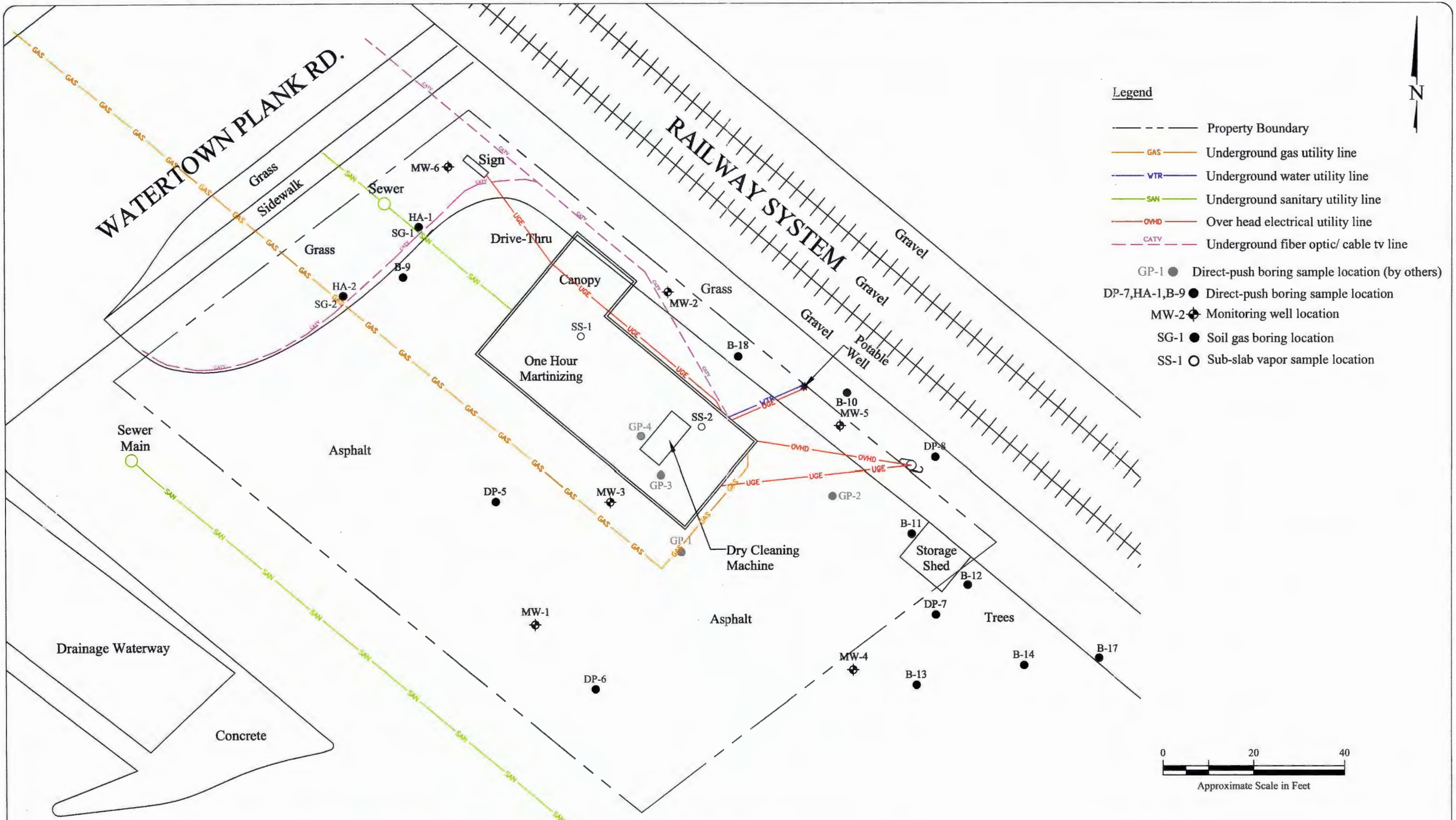
Contractor/Consultant - Laboratory	Price	Unit	# Units	Markup	Subtotal
Soil VOC 8260 dry wt	$83.50	ea		1.09	$0.00
Soil VOC 8260 dry wt QA/QC	$83.50	ea		1.09	$0.00
GW VOC 8260	$70.00	ea		1.09	$0.00
GW VOC 8260 QA/QC	$70.00	ea		1.09	$0.00
Air TO-15 -- Soil Gas	$200.00	ea		1.09	$0.00
Air TO-15 -- Sub-Slab	$200.00	ea		1.09	$0.00
Air TO-15 -- Indoor Air	$200.00	ea		1.09	$0.00
Air - Indivudual Certification	$50.00	ea		1.09	$0.00
Air - Batch Certification	$50.00	LS		1.09	$0.00
		ea		1.09	$0.00
Trip Blank VOCs 8260	$70.00	ea		1.09	$0.00
Level IV QA/QC (15%)					$0.00
					$0.00	$0.00

Direct Costs - Expenses	Price	Unit	# Units	Markup	Subtotal
Hotel		day		0.00	$0.00
Meals		LS	1.0	0.00	$0.00
Misc Materials		LS	1.0	0.00	$0.00
Equipment Rental		LS	1.0	0.00	$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00
					$0.00	$0.00

	Direct Costs - Chargeable Equipment Expense	Rate (hr/unit)	# Hrs/Units	Rate (day/use)	# days/use	Subtotal	
Vehicles	Field Vehicle - Full Day	$ 20.00	2.00	$ 125.00		$40.00	
	Mileage at Federal IRS Reimbursement Rate (over 100 miles)	$ 0.51					
	Air Velocity Meter (per use)			$ 25.00			
Meters	Multi-meter Conductivity/pH/Temp/TDS			$ 165.00			
	Dissolved Oxygen Meter			$ 40.00			
	FID Foxboro/Sensidyne (TIP)			$ 155.00			
	Flow Cell			$ 10.00			
	PID or 580 OVM			$ 120.00			
	Turbidity Meter			$ 30.00			
	ORP Meter			$ 30.00			
	Air Pump - Low Flow (Barcad)			$ 25.00			
Pumps	Development Pump			$ 130.00			
	Electric Submersible Pump with Control Box (Units)			$ 130.00			
	Micro Purge Bladder	$ 12.00					
	Peristaltic Pump			$ 50.00			
	Pumping Test Accessory Equipment (Flow Meters/Manifolds	$ 100.00					
	Portable SVE Unit - 1.5 HP			$ 155.00			
	Centrifugal Low-Flow Sampling Kit w/ Flow Cell and Multimeter			$ 235.00			
	Bailers (Disposable)	$ 10.00					
Other	Bailers (Non-Disposable)			$ 15.00			
	Core Boxes	$ 10.00					
	Core Sampler			$ 55.00			
	Data Logger with Transducer			$ 155.00			
	Well Caps	$ 30.00					
	Elec. Well Sounder (Probe)			$ 30.00			
	5035 Sample Kit	$ 16.00					
	Field Book	$ 11.00					
	Filter - Large	$ 18.00					
	Filter - Small	$ 9.00					
	Generator			$ 105.00			
	Hand Auger			$ 30.00			
	Helium QA/QC Kit			$ 235.00			
	Helium QA/QC Accessories	$ 20.00					
	Oil/Water Interface Probe			$ 105.00			
	Padlocks	$ 15.00					
	Steam Cleaner			$ 130.00			
	Transducer (ea)			$ 40.00			
	Hand Drill			$ 75.00			
	Tubing - Polypropylene (Teflon): 1/4" OD (per foot)	$ 1.40					
	Tubing - Polypropylene (Teflon): 1/4" ID (per foot)	$ 1.55					
	Tubing - Polypropylene: 1/4" (per foot)	$ 0.52					
	Tubing - Polypropylene: 1/2" (per foot)	$ 0.78					
	Tubing - Tygon: 3/8" STD (per foot)	$ 4.15					
	Tubing - Silicone: 3/8" STD (per foot)	$ 8.30					
	55-Gallon Drum	$ 55.00					
	Vapor Pin Sub-Slab Sampling Port	$ 75.00					
	Well Cover 8X12"	$ 105.00					
	Measuring Wheel			$ 15.00			
	Camera			$ 25.00			
	1L Tedlar Bag	$ 20.00					
	HAZMAT Exemption Shipper	$ 40.00					
	Manometers	$105.00					
	Westlaw	$105.00					
	Cones, Baracades & Traffic Signs			$ 10.00			
Safety	Gloves (Chemical Resistant)	$ 10.00					
	Level "B": Level "C1" plus SCBA			$ 210.00			
	Level "C1": Level "C2" plus Polycoat Suit			$ 85.00			
	Level "C2": Level "D" plus Respirator			$ 40.00			
	Standby SCBA			$ 130.00			
	All routine Level D safety equip. and routine field equip.			$ 130.00			
Production	1 Inch Binder	$ 9.00					
	2 Inch Binder	$ 12.00					
	3 Inch Binder	$ 15.00					
	4 Inch Binder	$ 22.00					
	Binder Tabs (Set of 8)	$ 5.00					
	Color Copies	$ 0.30	30			$9.00	
	B/W Copies	$ 0.15	15			$2.25	
	Document - Format/Sending	$ 15.00					
	Report CD Copy	$ 5.00					
						$51.25	$51.25
	PHASE TOTAL						**$4,233.25**

Project Total	**$71,514.09**

FIGURES



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EnviroForensics.com

Date:	12/6/12
Designed:	MM
Drawn:	MMM
Checked:	WF
DWG file:	61155-10

SITE LAYOUT MAP

One Hour Marinizing
13405 Watertown Plank Road
Elm Grove, WI

Figure 2

Project 6142

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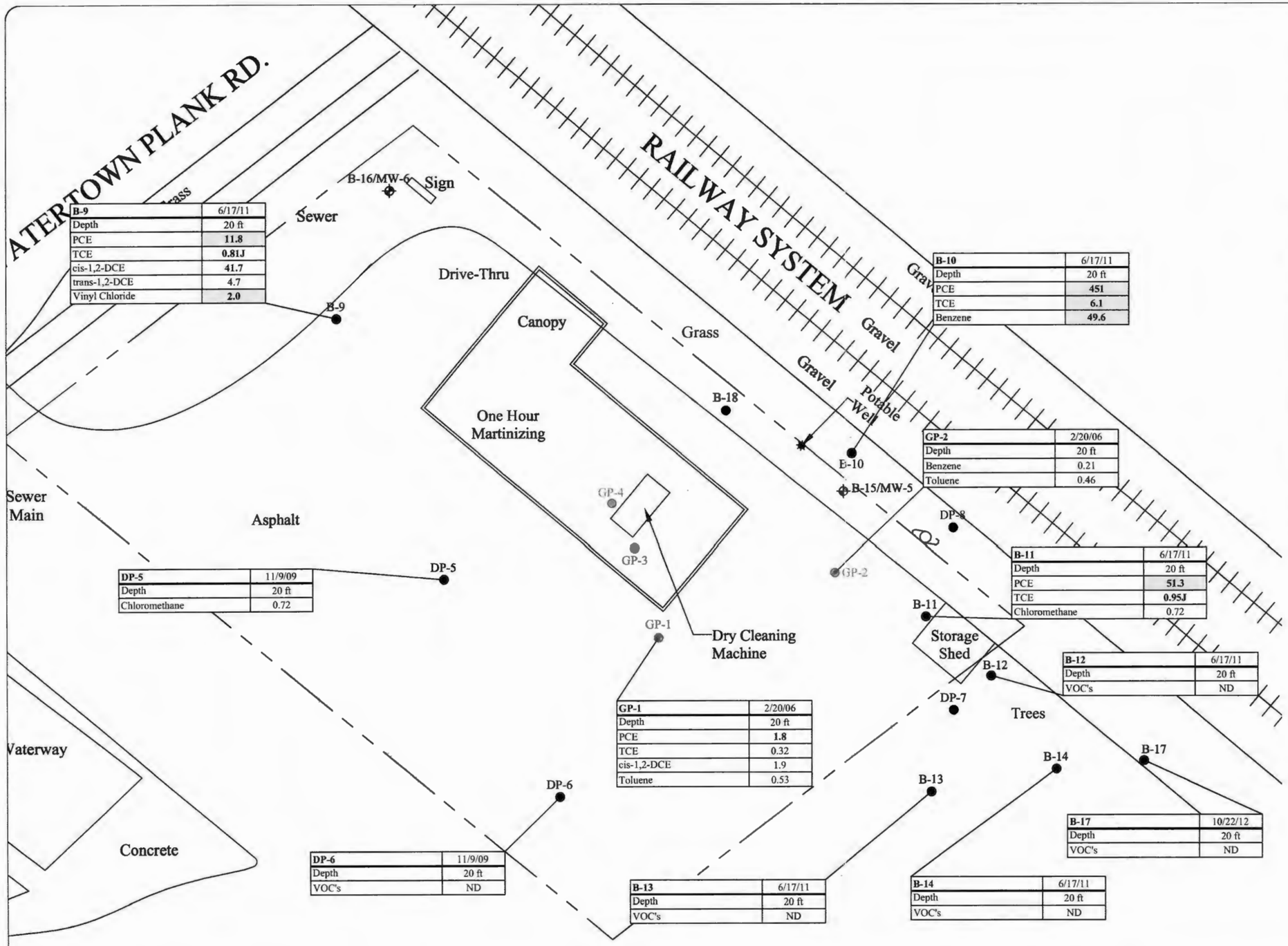

Analytes (ug/L)	Public Health Enforcement Standards	Public Health Preventive Action Limit
PCE	5	0.5
TCE	5	0.5
cis-1,2-DCE	70	7
trans-1,2-DCE	100	20
Vinyl Chloride	0.2	0.02
Benzene	5	0.5
Chloromethane	30	3
Toluene	1,000	200

Notes:

1. Bolded and shaded values are above Public Health Enforcement Standards
2. Bolded Values are above Public Health Preventive Action Limits
3. All concentrations reported in units of micrograms per Liter (ug/L)
4. PCE = Tetrachloroethylene
5. TCE = Trichloroethylene
6. cis-1,2-DCE = cis-1,2-Dichloroethene
7. trans-1,2-DCE = trans-1,2-Dichloroethene
8. VOC's = Volatile Organic Compounds
9. ND = Not Detected

Legend

Property Boundary

GP-1 ● Geoprobe boring sample location (by others)

DP-7,B-9 ● Direct-Push boring sample location

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GRAB GROUNDWATER RESULTS MAP

One Hour Martinizing
13405 Watertown Plank Road
Elm Grove, WI

Figure 4

Project 6142

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ATERTOWN PLANK RD.

RAILWAY SYSTEM

Grass
Sidewalk
Sewer
Grass
Drive-Thru
Canopy
Grass
Gravel
Gravel
Gravel
Gravel
Portable Well
One Hour Martinizing
Sewer Main
Asphalt
Dry Cleaning Machine
Storage Shed
Asphalt
Trees
Waterway
Concrete

MW-6 724.91
Sign
MW-2 724.88
MW-5 724.84
MW-3 724.84
MW-1 724.84
MW-4 724.77

724.90
724.88
724.86
724.84
724.82
724.80
724.78

Legend

- Property Boundary
- MW-2 Monitoring well location
- 724.78 Groundwater elevation contour
- 724.84 Groundwater elevation (feet above mean sea level)
- Approximate groundwater flow direction

N

0 20 40

Approximate Scale in Feet

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POTENTIOMETRIC SURFACE CONTOUR MAP - 4th QTR 2012

One Hour Martinizing
13405 Watertown Plank Road
Elm Grove, WI

Figure 5

Project 6142

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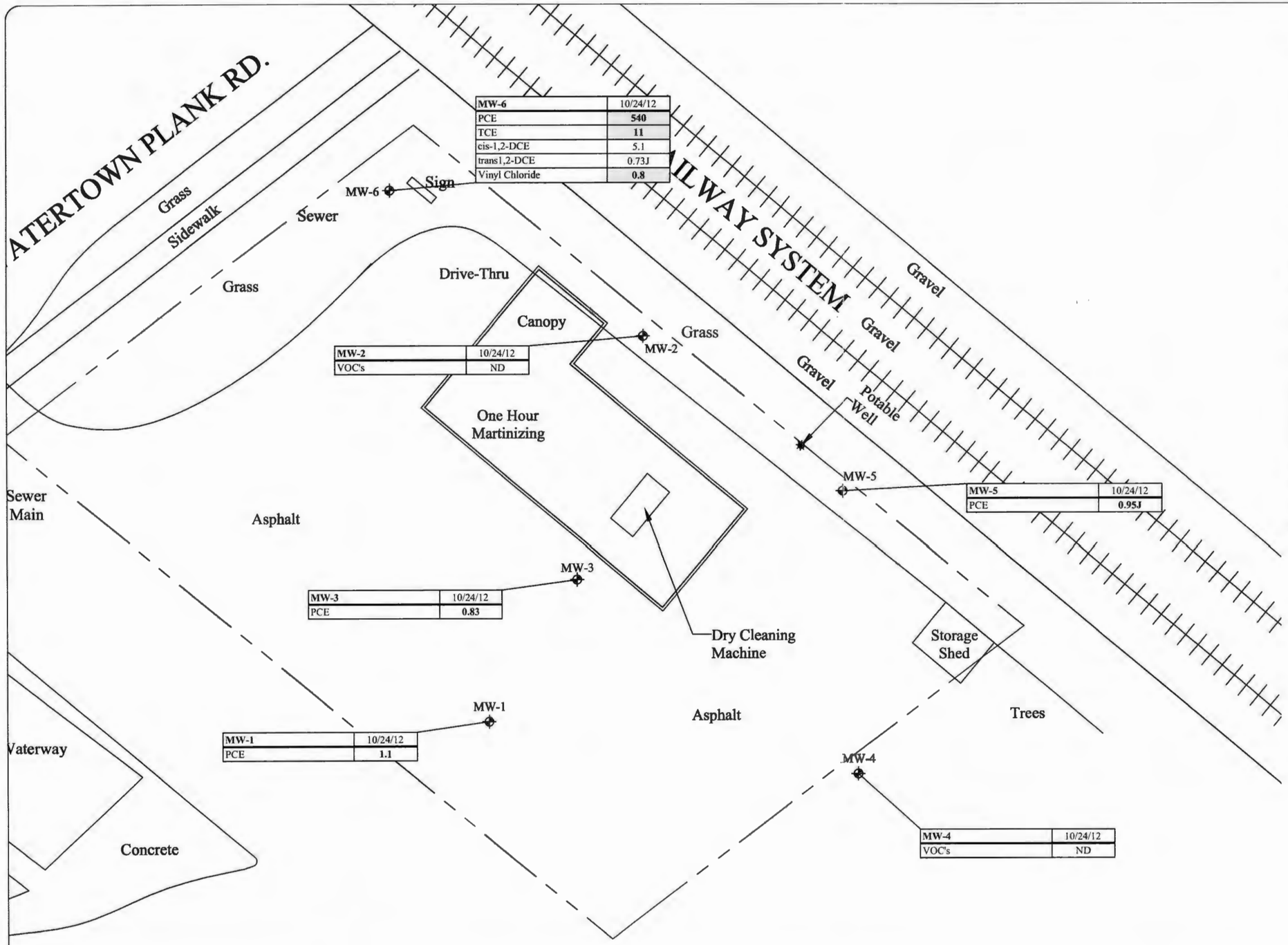

Analytes (ug/L)	Public Health Enforcement Standards	Public Health Preventive Action Limit
PCE	5	0.5
TCE	5	0.5
cis-1,2-DCE	70	7
trans-1,2-DCE	100	20
Vinyl Chloride	0.2	0.02
Benzene	5	0.5
Naphthalene	100	10
1,2,4-Trimethylbenzene	480	96

Notes:

1. Bolded and shaded values are above Public Health Enforcement Standards
2. Bolded Values are above Public Health Preventive Action Limits
3. All concentrations reported in units of micrograms per Liter (ug/L)
4. PCE = Tetrachloroethylene
5. TCE = Trichloroethylene
6. cis-1,2-DCE = cis-1,2-Dichloroethene
7. trans-1,2-DCE = trans-1,2-Dichloroethene
8. VOC's = Volatile Organic Compounds
9. ND = Not Detected

Legend

——— - - ——— Property Boundary

MW-2 ⊕ Monitoring well sample location

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GROUNDWATER ANALYTICAL RESULTS MAP

One Hour Martinizing
13405 Watertown Plank Road
Elm Grove, WI

Figure 6

Project 6142

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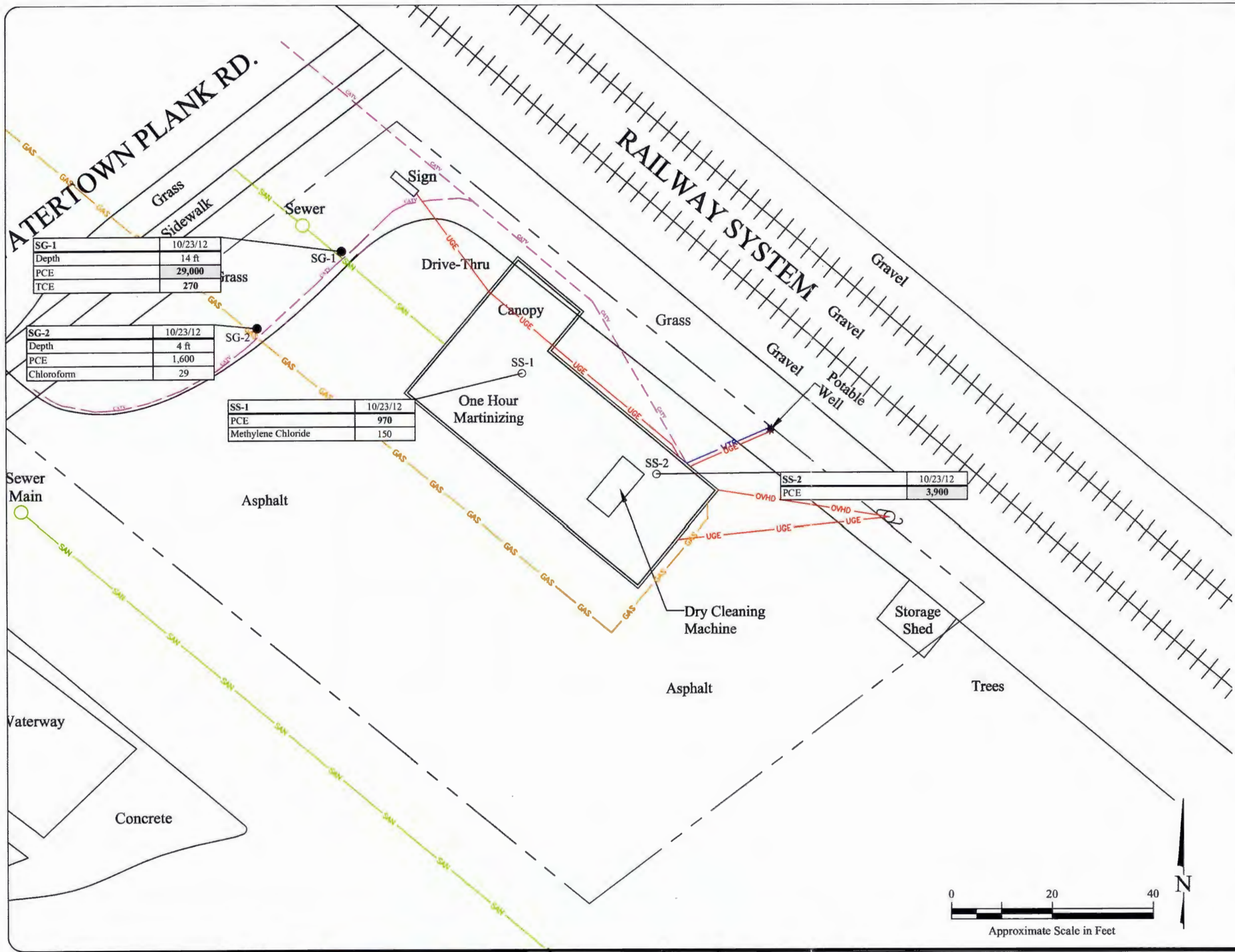

SG-1	10/23/12
Depth	14 ft
PCE	**29,000**
TCE	**270**

SG-2	10/23/12
Depth	4 ft
PCE	1,600
Chloroform	29

SS-1	10/23/12
PCE	**970**
Methylene Chloride	150

SS-2	10/23/12
PCE	**3,900**

Soil Gas Screening Levels		
Analytes (ug/L)	**Industrial**	**Residential**
PCE	**18,000**	**4,200**
TCE	**880**	**210**
Chloroform	**530**	**110**

Notes:

1. Soil gas Screening Levels are based on US EPA Regional Screening Levels (RSLs) with an attenuation factor of 0.01
2. Bolded and shaded values are above Industrial Regional Screening Levels (RSLs)
3. Bolded Values are above Residential Regional Screening Levels (RSLs)
4. All concentrations reported in units of micrograms per cubic meter (ug/m3)
5. PCE = Tetrachloroethylene
6. TCE = Trichloroethylene
7. ND = Not Detected

Sub-Slab Vapor Screening Levels		
Analytes (ug/L)	**Industrial**	**Residential**
PCE	**1,800**	**420**
TCE	**88**	**21**
Methylene Chloride	**26,000**	**6,300**

Notes:

1. Sub-slab vapor Screening Levels are based on US EPA Regional Screening Levels (RSLs) with an attenuation factor of 0.1
2. Bolded and shaded values are above Industrial Regional Screening Levels (RSLs)
3. Bolded Values are above Residential Screening Levels (RSL's)
4. All concentrations reported in units of micrograms per cubic meter (ug/m3)
5. PCE = Tetrachloroethylene
6. TCE = Trichloroethylene
7. ND = Not Detected

Legend

- Property Boundary
- GAS — Underground gas utility line
- VTR — Underground water utility line
- SAN — Underground sanitary utility line
- OVHD — Over head electrical utility line
- CATV — Underground fiber optic/ cable tv line
- SG-1 ● Soil gas boring location
- SS-1 ○ Sub-slab vapor sample location

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SOIL GAS AND SUB-SLAB VAPOR ANALYTICAL RESULTS

One Hour Martinizing
13405 Watertown Plank Road
Elm Grove, WI

Figure
7
Project
6142

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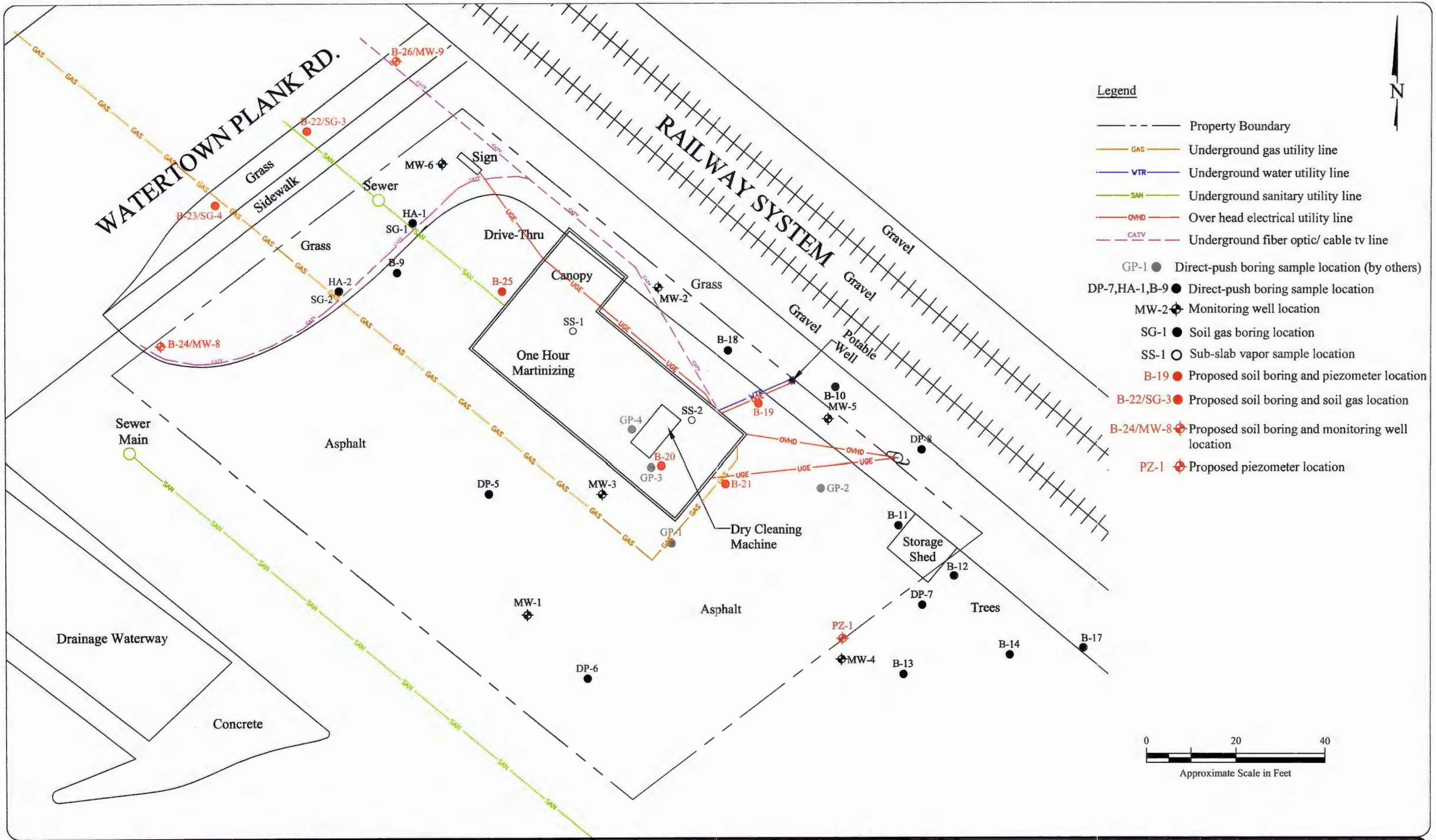

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DWG file:	61155-10

SITE MAP SHOWING THE LOCATIONS OF PROPOSED SOIL BORINGS AND GROUNDWATER MONITORING WELLS

One Hour Marinizing
13405 Watertown Plank Road
Elm Grove, WI

Figure 8

Project 6142

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State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: OHM-Elm Grove	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-5
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☒) or Well Location ☒ Lat. 43 ° 2 ' 34.13 " Long. 88 ° 4 ' 43.41 " or	Wis. Unique Well No.: OO001 / DNR Well ID No.:
Facility ID: 02-68-552102	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed: 10 / 23 / 2012 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: _____ 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Tony Kapugi, On-Site Environmental
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 743.36 ft. MSL
B. Well casing, top elevation 742.96 ft. MSL
C. Land surface elevation 743.36 ft. MSL
D. Surface seal, bottom 1 ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☐ No

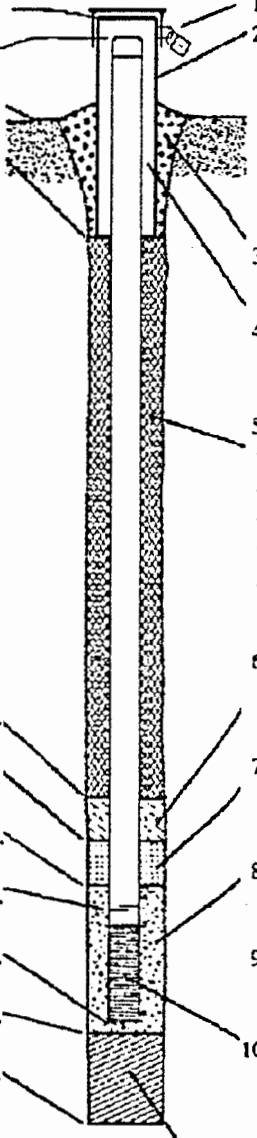
14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐ _____

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or _____ ft.
F. Fine sand, top _____ ft. MSL or _____ ft.
G. Filter pack, top 13 ft. MSL or _____ ft.
H. Screen joint, top 15 ft. MSL or _____ ft.
I. Well bottom 25 ft. MSL or _____ ft.
J. Filter pack, bottom 25 ft. MSL or _____ ft.
K. Borehole, bottom 25 ft. MSL or _____ ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.25 in.
N. I.D. well casing 2 in.



1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel ☐ 04
Flush Mount Cover _____ Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☐ 01
Flush Mount Cover Other ☐ _____
4. Material between well casing and protective pipe:
Bentonite ☐ 30
_____ Other ☐ _____
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 4.12 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☐ 32
c. _____ Other ☐ _____
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
_____ Other ☐ _____
10. Screen material: _____
a. Screen type: Factory cut ☒ 11
Continuous slot ☒ 01
_____ Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.
11. Backfill material (below filter pack): None ☐ 14
_____ Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Enviroforensics

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

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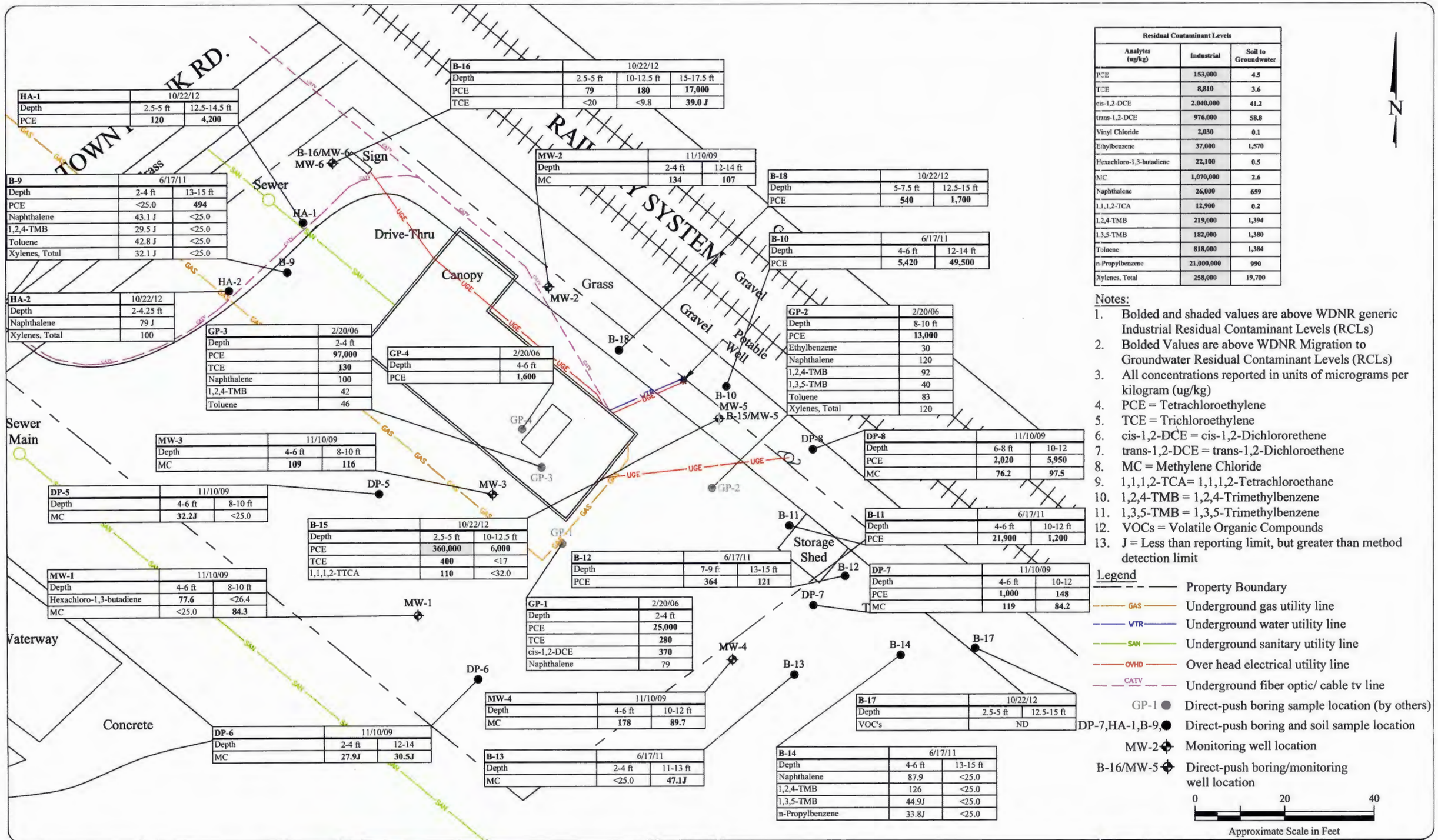
ATTACHMENT A

Monitoring Well Construction Forms and Soil Boring Logs



HA-1	10/22/12	
Depth	2.5-5 ft	12.5-14.5 ft
PCE	**120**	**4,200**

B-16	10/22/12		
Depth	2.5-5 ft	10-12.5 ft	15-17.5 ft
PCE	**79**	**180**	**17,000**
TCE	<20	<9.8	**39.0 J**

MW-2	11/10/09	
Depth	2-4 ft	12-14 ft
MC	**134**	**107**

B-18	10/22/12	
Depth	5-7.5 ft	12.5-15 ft
PCE	**540**	**1,700**

B-9	6/17/11	
Depth	2-4 ft	13-15 ft
PCE	<25.0	**494**
Naphthalene	43.1 J	<25.0
1,2,4-TMB	29.5 J	<25.0
Toluene	42.8 J	<25.0
Xylenes, Total	32.1 J	<25.0

B-10	6/17/11	
Depth	4-6 ft	12-14 ft
PCE	**5,420**	**49,500**

HA-2	10/22/12
Depth	2-4.25 ft
Naphthalene	79 J
Xylenes, Total	100

GP-3	2/20/06
Depth	2-4 ft
PCE	**97,000**
TCE	**130**
Naphthalene	100
1,2,4-TMB	42
Toluene	46

GP-4	2/20/06
Depth	4-6 ft
PCE	**1,600**

GP-2	2/20/06
Depth	8-10 ft
PCE	**13,000**
Ethylbenzene	30
Naphthalene	120
1,2,4-TMB	92
1,3,5-TMB	40
Toluene	83
Xylenes, Total	120

MW-3	11/10/09	
Depth	4-6 ft	8-10 ft
MC	**109**	**116**

DP-8	11/10/09	
Depth	6-8 ft	10-12
PCE	**2,020**	**5,950**
MC	**76.2**	**97.5**

DP-5	11/10/09	
Depth	4-6 ft	8-10 ft
MC	**32.2J**	<25.0

B-15	10/22/12	
Depth	2.5-5 ft	10-12.5 ft
PCE	**360,000**	**6,000**
TCE	**400**	<17
1,1,1,2-TTCA	**110**	<32.0

B-11	6/17/11	
Depth	4-6 ft	10-12 ft
PCE	**21,900**	**1,200**

B-12	6/17/11	
Depth	7-9 ft	13-15 ft
PCE	**364**	**121**

DP-7	11/10/09	
Depth	4-6 ft	10-12
PCE	**1,000**	**148**
MC	**119**	**84.2**

MW-1	11/10/09	
Depth	4-6 ft	8-10 ft
Hexachloro-1,3-butadiene	**77.6**	<26.4
MC	<25.0	**84.3**

GP-1	2/20/06
Depth	2-4 ft
PCE	**25,000**
TCE	**280**
cis-1,2-DCE	**370**
Naphthalene	79

MW-4	11/10/09	
Depth	4-6 ft	10-12 ft
MC	**178**	**89.7**

B-17	10/22/12	
Depth	2.5-5 ft	12.5-15 ft
VOC's	ND	

DP-6	11/10/09	
Depth	2-4 ft	12-14
MC	**27.9J**	**30.5J**

B-13	6/17/11	
Depth	2-4 ft	11-13 ft
MC	<25.0	**47.1J**

B-14	6/17/11	
Depth	4-6 ft	13-15 ft
Naphthalene	87.9	<25.0
1,2,4-TMB	126	<25.0
1,3,5-TMB	44.9J	<25.0
n-Propylbenzene	33.8J	<25.0

Residual Contaminant Levels		
Analytes (ug/kg)	Industrial	Soil to Groundwater
PCE	153,000	4.5
TCE	8,810	3.6
cis-1,2-DCE	2,040,000	41.2
trans-1,2-DCE	976,000	58.8
Vinyl Chloride	2,030	0.1
Ethylbenzene	37,000	1,570
Hexachloro-1,3-butadiene	22,100	0.5
MC	1,070,000	2.6
Naphthalene	26,000	659
1,1,1,2-TCA	12,900	0.2
1,2,4-TMB	219,000	1,394
1,3,5-TMB	182,000	1,380
Toluene	818,000	1,384
n-Propylbenzene	21,000,000	990
Xylenes, Total	258,000	19,700

Notes:

1. Bolded and shaded values are above WDNR generic Industrial Residual Contaminant Levels (RCLs)
2. Bolded Values are above WDNR Migration to Groundwater Residual Contaminant Levels (RCLs)
3. All concentrations reported in units of micrograms per kilogram (ug/kg)
4. PCE = Tetrachloroethylene
5. TCE = Trichloroethylene
6. cis-1,2-DCE = cis-1,2-Dichlororethene
7. trans-1,2-DCE = trans-1,2-Dichloroethene
8. MC = Methylene Chloride
9. 1,1,1,2-TCA= 1,1,1,2-Tetrachloroethane
10. 1,2,4-TMB = 1,2,4-Trimethylbenzene
11. 1,3,5-TMB = 1,3,5-Trimethylbenzene
12. VOCs = Volatile Organic Compounds
13. J = Less than reporting limit, but greater than method detection limit

Legend

- Property Boundary
- GAS — Underground gas utility line
- VTR — Underground water utility line
- SAN — Underground sanitary utility line
- OVHD — Over head electrical utility line
- CATV — Underground fiber optic/ cable tv line
- GP-1 — Direct-push boring sample location (by others)
- DP-7,HA-1,B-9 — Direct-push boring and soil sample location
- MW-2 — Monitoring well location
- B-16/MW-5 — Direct-push boring/monitoring well location

0 20 40

Approximate Scale in Feet

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Date:	12/6/12
Designed:	MM
Drawn:	MMM
Checked:	WF
DWG file:	61155-10

SOIL ANALYTICAL RESULTS MAP

One Hour Martinizing
13405 Watertown Plank Road
Elm Grove, WI

Figure 3

Project 6142

K:\Drawings\6142 Elm Grove-OHM\Drawing\61155-10.dwg

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: OHM-Elm Grove	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-6
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: [X]) or Well Location [X]: Lat. 43 ° 2 ' 34.53 " Long. 88 ° 4 ' 44.18 " or	Wis. Unique Well No.: OO001 / DNR Well ID No.:
Facility ID: 268552102	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 10 / 23 / 2012 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: _____ 1/4 of _____ 1/4 of Sec. _____, T. _____ N, R. _____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Tony Kapugi, On-Site Environmental
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number:	

A. Protective pipe, top elevation 744.51 ft. MSL
B. Well casing, top elevation 744.05 ft. MSL
C. Land surface elevation 744.51 ft. MSL
D. Surface seal, bottom 1. ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☐ No

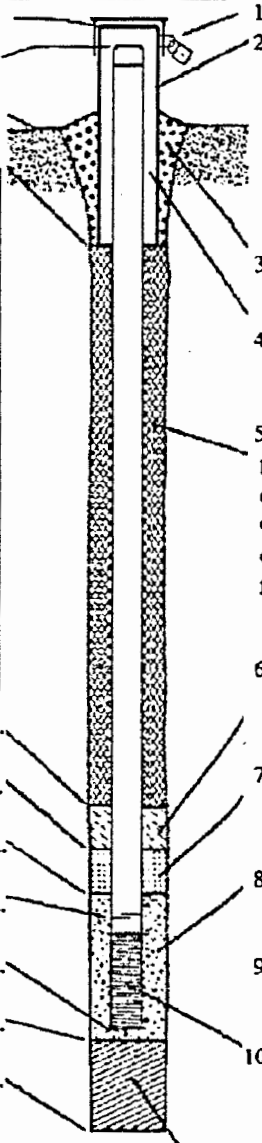
14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger [X] 41 / Other ☐ ____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☐ 99

16. Drilling additives used? ☐ Yes ☐ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or _____ ft.
F. Fine sand, top _____ ft. MSL or _____ ft.
G. Filter pack, top 13 ft. MSL or _____ ft.
H. Screen joint, top 15 ft. MSL or _____ ft.
I. Well bottom 25 ft. MSL or _____ ft.
J. Filter pack, bottom 25 ft. MSL or _____ ft.
K. Borehole, bottom 25 ft. MSL or _____ ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.25 in.
N. I.D. well casing 2 in.



1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1. ft.
c. Material: Steel ☐ 04 / Flush Mount Cover _____ / Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ☐ 01 / Flush Mount Cover _____ / Other ☐ ____
4. Material between well casing and protective pipe: Bentonite ☐ 30 / _____ / Other ☐ ____
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 4.12 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☐ 32
c. _____ Other ☐ ____
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 [X] 23 / Flush threaded PVC schedule 80 ☐ 24 / _____ / Other ☐ ____
10. Screen material: _____
a. Screen type: Factory cut [X] 11 / Continuous slot [X] 01 / _____ / Other ☐ ____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.
11. Backfill material (below filter pack): _____ / None ☐ 14 / Other ☐ ____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Enviroforensics

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
OHM Elm Grove	02-68-552102	B-15

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site	10/22/2012	10/22/2012	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			728.0 Feet MSL	746.0 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
1/4 of 1/4 of Section , T N, R
Lat 43° 2' 34.5"
Long 88° 4' 43.9"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Elm Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	**(0'-1') FILL:**FILL material and Organic material.										
			1	**(1'-2') GRAVEL (GW):**Gray GRAVEL, with Silt and Sand, loose, dry.	GW									
			2	**(2'-4.75') SILT (ML):**Black SILT, trace fine Sand, loose, moist.				0.0						
			3		ML									
GB			4					0.2						
			5	**(4.75'-7.25') SAND (SW):**Dark Brown SAND, fine through coarse grained, with Clay, slightly loose, moist.										
			6		SW									
			7					0.7						
			8	**(7.25'-16.25') GRAVEL (GW):**Light Brown GRAVEL, fine and medium grained, with Sand, loose, slightly moist.										
			9					0.4						
			10		GW									
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: 317-972-7870
	Enviroforensics 200 South Executive Drive Brookfield, WI 53005 Suite 101	Fax: 317-972-7875

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number B-15 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GB			13	**(7.25'-16.25') GRAVEL (GW):**Light Brown GRAVEL, fine and medium grained, with Sand, loose, slightly moist. *(continued)*	GW			4.8						
			14					1.8						
			15											
			16											
			17	**(16.25'-25') SAND (SP):**Light Brown SAND, medium grained, very clean, no other grain sizes.	SP		▼	0.4						
			18											
			19					0.2						
			20											
			21											
			22					0.0						
			23											
			24					0.0						
			25											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
OHM Elm Grove	02-68-552102	B-16

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site	10/22/2012	10/22/2012	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			727.5 Feet MSL	746.0 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
1/4 of 1/4 of Section , T N, R
Lat 43° 2' 34.0"
Long 88° 4' 43.1"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Elm Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	**(0'-2') FILL:**FILL, Organic material.										
			2	**(2'-4') SILT (ML):**Brown SILT, with trace Sand and Gravel, loose, dry.	ML			0.0						
GB			4	**(4'-5') CLAY (CL):**Black CLAY, trace Sand, moist, stiff.	CL			0.0						
			5	**(5'-7.5') SILT (ML):**Light Brown SILT, loose fluffy dry.	ML			0.0						
			8	**(7.5'-15') SAND (SW):**Brown SAND, fine through coarse grained, with Gravel, trace Silt, loose, dry.	SW			0.0						
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
	Enviroforensics 200 South Executive Drive Brookfield, WI 53005 Suite 101	Tel: 317-972-7870 Fax: 317-972-7875

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number B-16 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GB			13	**(7.5'-15') SAND (SW):** Brown SAND, fine through coarse grained, with Gravel, trace Silt, loose, dry. *(continued)*	SW			0.2						
			14					2.0						
			15	**(15'-20') SAND (SP):** Brown SAND, fine grained, trace Gravel and large grained Sand, trace Silt, loose..										
GB			16											
			17		SP			3.5						
			18				▼							
			19					3.2						
			20	**(20'-25') SAND (SP):** Brown SAND, fine grained, no trace grain sizes, loose.										
			21											
			22		SP			5.0						
			23											
			24					2.3						
			25											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
OHM Elm Grove	02-68-552102	B-17

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site	10/22/2012	10/22/2012	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			729.5 Feet MSL	746.0 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
1/4 of 1/4 of Section , T N, R
Lat 43° 2' 33.3"
Long 88° 4' 42.3"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Elm Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	**(0'-1.25') ASPHALT (AS):** ASPHALT and Fill material.	AS									
			2	**(1.25'-3.25') FILL:** FILL material.				0.0						
			3											
GB			4	**(3.25'-6.5') SAND (SW):** Light Brown SAND, fine through large grained, with Gravel, some Silt, loose, dry.	SW			0.0						
			5											
			6											
			7	**(6.5'-7.5') SILT (ML):** Brownish Gray SILT, no other grain sizes, moist.	ML			0.0						
			8	**(7.5'-9.5') CLAY (CL):** Dark Gray CLAY, trace Silt, trace Gravel, stiff, moist.	CL									
			9					0.0						
			10	**(9.5'-15') SAND (SW):** Brown SAND, fine through coarse grained, some fine Gravel, loose, moist.	SW									
			11	3' of dry material										
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm		
	Enviroforensics 200 South Executive Drive Brookfield, WI 53005 Suite 101	Tel: 317-972-7870 Fax: 317-972-7875

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number B-17 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13	**(9.5'-15') SAND (SW):**Brown SAND, fine through coarse grained, some fine Gravel, loose, moist. *(continued)*	SW			0.0						
GB			14					0.0						
			15											
			16	**(15'-20') SAND (SW):**Brown SAND, fine through coarse grained, trace Silt, loose, moist.			▼							
			17		SW			0.0						
			18											
			19					0.0						
			20											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
OHM Elm Grove	02-68-552102	B-18

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site	10/22/2012	10/22/2012	Direct Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			728.5 Feet MSL	746.0 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
1/4 of 1/4 of Section , T N, R
Lat 43° 2' 34.1"
Long 88° 4' 43.4"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Elm Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	**(0'-2.25') FILL:**FILL and Organic material.										
			2					0.0						
			3	**(2.25'-7') SAND (SW):**Light brown SAND, fine through coarse, with Gravel and Silt, dry, loose.	SW									
			4					0.0						
			5											
			6											
GB			7	**(7'-9.5') SAND (SP):**Brown SAND, fine grained, with Gravel and Clay, slightly loose, orange mottling, moist.	SP			0.6						
			8											
			9					0.0						
			10	**(9.5'-15') GRAVEL (GW):**Light Brown GRAVEL, fine through medium grained, with Sand, slightly loose, slightly moist.	GW									
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
	Enviroforensics 200 South Executive Drive Brookfield, WI 53005 Suite 101	Tel: 317-972-7870 Fax: 317-972-7875

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number B-18 Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13	**(9.5'-15') GRAVEL (GW):** Light Brown GRAVEL, fine through medium grained, with Sand, slightly loose, slightly moist. *(continued)*	GW			0.2						
GB			14					0.0						
			15											
			16	**(15'-17.5') SAND (SP):** Brown SAND, fine grained, no other grain sizes, loose, moist.	SP									
			17				▼	0.0						
			18	**(17.5'-25') SAND (SP):** Light Brown SAND, fine grained, no trace grain sizes, saturated, loose.										
			19					0.0						
			20											
			21		SP									
			22					0.0						
			23											
			24					0.0						
			25											

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
OHM Elm Grove	02-68-552102	HA-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site	10/22/2012	10/22/2012	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	743.0 Feet MSL	4.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
1/4 of 1/4 of Section , T N, R
Lat 43° 2' 34.0"
Long 88° 4' 44.2"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Elm Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1	**(0'-1') FILL:**FILL, Organic material.										
			2	**(1'-2.5') SAND (SW):**Brown SAND, fine through large grained, some Gravel and trace Silt, loose.	SW			0.0						
			3	**(2.5'-2.6') CLAY (CL):**Black CLAY, no other grain sizes, slightly stiff.	CL									
GB			4	**(2.6'-5') SAND (SP):**Brown SAND, no trace grain sizes, loose, slightly moist.	SP			0.0						
			5	**(5'-7') CLAY (CL):**Brown CLAY, with Sand and trace Silt, loose, moist.	CL			0.0						
			7	**(7'-8') SAND (SP):**Brown SAND, fine grained, no trace grain sizes, loose, moist.	SP			0.0						
			8	**(8'-9') SAND (SW):**Brown SAND, fine through large grains, trace Clay/Silt grains, loose, moist.	SW									
			9	**(9'-14.5') GRAVEL (GW):**Brown GRAVEL, with Sand, fine through medium grained, loose, dry.	GW			0.4						
			11					0.2						
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
	Enviroforensics 200 South Executive Drive Brookfield, WI 53005 Suite 101	Tel: 317-972-7870 Fax: 317-972-7875

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number HA-1 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GB			13 14	**(9'-14.5') GRAVEL (GW):**Brown GRAVEL, with Sand, fine through medium grained, loose, dry. *(continued)*	GW			3.7						

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
OHM Elm Grove	02-68-552102	HA-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Tony Kapugi On-Site	10/22/2012	10/22/2012	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	743.0 Feet MSL	2.3 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
1/4 of 1/4 of Section , T N, R
Lat 43° 2' 34.3"
Long 88° 4' 44.5"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Elm Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				(0'-1') FILL:FIIL, Organic material.										
			1	**(1'-2.25') SAND (SW):**Dark Brown SAND, with Gravel, fine through large grained, trace Silt, loose, moist.	SW			0.0						
			2											
			3	**(2.25'-3.5') SAND (SW):**Brown SAND, with Clay and Gravel, slightly stiff, moist.	SW			0.0						
GB														
			4	**(3.5'-4.25') CLAY (CL):**Black CLAY, with Sand and Gravel, slightly stiff, moist.	CL									

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	
	Enviroforensics 200 South Executive Drive Brookfield, WI 53005 Suite 101	Tel: 317-972-7870 Fax: 317-972-7875

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

ENVIRO-forensics

ATTACHMENT B

Field Sampling Forms

ENVIRO forensics

Sub-Slab Vapor/ Soil Gas Field Sampling Form

200 S. Executive Dr, Suite 101
Brookfield, WI 53005
T: 414-982-3988 F: 262-789-6699

SAMPLER NAME	J.Jordan	SAMPLE ID	6142-SS-1
LOCATION/ADDRESS	13405 Watertwn Plank	SAMPLE TIME	13:10
PROJECT NO./ NAME	OHM-ELM GROVE	CANISTER ID	LA-7212
CLIENT/CONTACT		FLOW CONTROL ID	
DATA COLLECTION: START DATE	10/23/2012	END DATE	10/23/2012

Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature °F	Barometer Hg	Relative Humidity %
13:05	-29.5	NA	NA	71.1	985.5	69.2
13:10	-8.5	NA	NA	74.3	985.8	70.9

Helium Leak Test		Pressure Test	
Date/Time performed:	10/23/2012 12:55	Date/Time performed:	10/23/2012 13:03
Background He concentration (ppm):	0%	Negative pressure of at least -15 in. Hg induced on sampling train?	
Shroud He concentration (%):	13.5%	(circle one):	(yes) no
Sub-slab vapor/soil-gas He concentration (post helium insertion):	0%	Did pressure hold?	(yes) no
Helium Leak Test Passed:	(yes) no		

Notes:

ENVIRO forensics

Sub-Slab Vapor/ Soil Gas Field Sampling Form

200 S. Executive Dr, Suite 101
Brookfield, WI 53005
T: 414-982-3988 F: 262-789-6699

SAMPLER NAME	J.Jordan	**SAMPLE ID**	6142-SS-2
LOCATION/ADDRESS	13405 Watertwn Plank	**SAMPLE TIME**	14:08
PROJECT NO./ NAME	OHM-ELM GROVE	**CANISTER ID**	LA 7072
CLIENT/CONTACT		**FLOW CONTROL ID**	
DATA COLLECTION: START DATE	10/23/2012	**END DATE**	10/23/2012

Time	Vacuum Reading	Wind Direction	Wind Speed	Temperature	Barometer	Relative Humidity
hh:mm	In. of Hg		mph	°F	Hg	%
14:00	-29.5	NA	NA	74.9	985.2	64.1
14:05	-7.0	NA	NA	74.6	985.2	73.9

Helium Leak Test		Pressure Test		
Date/Time performed: 10/23/2012	13:40	Date/Time performed: 10/23/2012		13:50
Background He concentration (ppm):	0	Negative pressure of at least -15 in. Hg induced on sampling train?		
Shroud He concentration (%):	62.7%	(circle one):	(yes)	no
Sub-slab vapor/soil-gas He concentration (post helium insertion):	0	Did pressure hold?	(yes)	no
Helium Leak Test Passed: (yes)	no			

Notes:

ENVIRO forensics

Sub-Slab Vapor/ Soil Gas Field Sampling Form

200 S. Executive Dr, Suite 101
Brookfield, WI 53005
T: 414-982-3988 F: 262-789-6699

SAMPLER NAME	J.Jordan	SAMPLE ID	6142-SG-1
LOCATION/ADDRESS	13405 Watertwn Plank	SAMPLE TIME	14:50
PROJECT NO./ NAME	OHM-ELM GROVE	CANISTER ID	SL-1230
CLIENT/CONTACT		FLOW CONTROL ID	
DATA COLLECTION: START DATE	10/23/2012	END DATE	10/23/2012

Time	Vacuum Reading	Wind Direction	Wind Speed	Temperature	Barometer	Relative Humidity
hh:mm	In. of Hg		mph	°F	Hg	%
14:45	-30	NA				
14:50	-7.5	NA				

Helium Leak Test			Pressure Test		
Date/Time performed:	10/23/2012	14:25	Date/Time performed:	10/23/2012	14:35
Background He concentration (ppm):		0	Negative pressure of at least -15 in. Hg induced on sampling train?		
Shroud He concentration (%):		52.7	(circle one):	(yes)	no
Sub-slab vapor/soil-gas He concentration (post helium insertion):		0	Did pressure hold?	(yes)	no
Helium Leak Test Passed:	(yes)	no			

Notes: Along sanitary, 14.5' deep

ENVIRO forensics

Sub-Slab Vapor/ Soil Gas Field Sampling Form

200 S. Executive Dr, Suite 101
Brookfield, WI 53005
T: 414-982-3988 F: 262-789-6699

SAMPLER NAME	J.Jordan	SAMPLE ID	6142- SB-2
LOCATION/ADDRESS	13405 Watertwn Plank	SAMPLE TIME	15:50
PROJECT NO./ NAME	OHM-ELM GROVE	CANISTER ID	LA-[redacted]7174
CLIENT/CONTACT		FLOW CONTROL ID	
DATA COLLECTION: START DATE	10/23/2012	END DATE	10/23/2012

Time hh:mm	Vacuum Reading In. of Hg	Wind Direction	Wind Speed mph	Temperature °F	Barometer Hg	Relative Humidity %
15:45	-29.5	NA				
15:50	-6	NA				

Helium Leak Test			Pressure Test		
Date/Time performed:	10/23/2012	15:25	Date/Time performed:	10/23/2012	15:35
Background He concentration (ppm):		0	Negative pressure of at least -15 in. Hg induced on sampling train?		
Shroud He concentration (%):		37.6	(circle one):	(yes)	no
Sub-slab vapor/soil-gas He concentration (post helium insertion):		0	Did pressure hold?	(yes)	no
Helium Leak Test Passed:	(yes)	no			

Notes:

ENVIRO forensics

LOW- FLOW GROUNDWATER FIELD SAMPLING DATA FORM

602 N. Capital Ave
Indianapolis, IN 46204
T: 317-972-7870 F: 317-972-7875

PROJECT NAME: OHM-Elm Grove
Well/Surface Station I.D.: MW- 1
LOCATION/ADDRESS: 13405 Watertown Plank Rd. Elm Grove, Wisconsin
Sample Designation: 6142-MW- 1
PROJECT NO.: 6142
Date: 10/24/2012
CLIENT/CONTACT: Brian Cass

WATER LEVEL MEASUREMENTS:

Water Level (MSL): _____ Feet below reference elevation: 17.04 Date: 10/24/2012 Time: _____ 11:35

WELL EVACUATION: Well Depth: 2 feet Well Diameter: 2 inches
Depth to Top of Screen: _____ feet

WELL EVACUATION METHOD: Low-Flow: X Bailer: _____ Other: _____

Stability Parameter Readings:

Time	pH	Specific Conductance (umhos/cm)	Turbidity (NTU)	Dissolved Oxgen (mg/L)	Temperature (Celsius)	Oxidation-Reduction Potential (mV)	Flow Rate (ml/min)	DTW (ft)
14:00	6.94	2.43	93.6	2.80	19.59	-37	250	17.04
14:05	7.09	2.51	15.0	2.70	20.07	-41	↓	17.07
14:10	7.12	2.77	5.1	0.21	18.98	-70	↓	17.08
14:15	7.12	2.78	2.7	0.0	19.04	-67	↓	17.09
14:20	7.12	2.79	2.1	0.0	19.00	-70	↓	17.09

SAMPLING: Date: 10/24/2012 Time: 14:30

Sample Analysis	Volume	Container Type	Number of Containers	Preservative
VOCs	40mL	VOA	3	HCL

SAMPLING METHOD: Low-Flow: X Grab: ___ Bailer: _____
Stainless Steel Bailer: _____

EQUIPMENT DECONTAMINATION PROCEDURES:

DECONTAMINATION METHOD:
- ☒ Non Phosphatic detergent wash/distilled water rinse
- ☐ Methanol rinse

NOTES:

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LOW- FLOW GROUNDWATER FIELD SAMPLING DATA FORM

602 N. Capital Ave
Indianapolis, IN 46204
T: 317-972-7870 F: 317-972-7875

PROJECT NAME: OHM-Elm Grove
Well/Surface Station I.D. MW- 2
LOCATION/ADDRESS: 13405 Watertown Plank Rd. Elm Grove, Wisconsin
Sample Designation 6142-MW- 2
PROJECT NO. 6142
Date 10/24/2012
CLIENT/CONTACT: Brian Cass

WATER LEVEL MEASUREMENTS:

Water Level (MSL): _____ Feet below reference elevation 18.52 Date 10/24/2012 Time _____ 11:35

WELL EVACUATION: Well Depth 18.80 feet Well Diameter 2 inches
Depth to Top of Screen _____ feet

WELL EVACUATION METHOD: Low-Flow ___X___ Bailer _____ Other _____

Stability Parameter Readings:

Time	pH	Specific Conductance (umhos/cm)	Turbidity (NTU)	Dissolved Oxgen (mg/L)	Temperature (Celsius)	Oxidation-Reduction Potential (mV)	Flow Rate (ml/min)	DTW (ft)

SAMPLING: Date 10/24/2012 Time 13:05

Sample Analysis	Volume	Container Type	Number of Containers	Preservative
VOCs	40mL	VOA	3	HCL

SAMPLING METHOD: Low-Flow ___X___ Grab ____ Bailer _____
Stainless Steel Bailer _____

EQUIPMENT DECONTAMINATION PROCEDURES:

DECONTAMINATION METHOD:
☒ Non Phosphatic detergent wash/distilled water rinse
☐ Methanol rinse

NOTES: Not enough water to record parameters
pull sample w/o parameters

ENVIRO forensics

LOW- FLOW GROUNDWATER FIELD SAMPLING DATA FORM

602 N. Capital Ave
Indianapolis, IN 46204
T: 317-972-7870 F: 317-972-7875

PROJECT NAME: OHM-Elm Grove
Well/Surface Station I.D.: MW- 3
LOCATION/ADDRESS: 13405 Watertown Plank Rd. Elm Grove, Wisconsin
Sample Designation: 6142-MW- 3
PROJECT NO.: 6142
Date: 10/24/2012
CLIENT/CONTACT: Brian Cass

WATER LEVEL MEASUREMENTS:

Water Level (MSL): _____ Feet below reference elevation: 18.10 Date: 10/24/2012 Time: _____ 11:35

WELL EVACUATION: Well Depth 19 feet Well Diameter 2 inches
Depth to Top of Screen _____ feet

WELL EVACUATION METHOD: Low-Flow ___X___ Bailer _____ Other _____

Stability Parameter Readings:

Time	pH	Specific Conductance (umhos/cm)	Turbidity (NTU)	Dissolved Oxgen (mg/L)	Temperature (Celsius)	Oxidation-Reduction Potential (mV)	Flow Rate (ml/min)	DTW (ft)
14:40	6.85	1.11	45.2	4.12	20.98	-7	350	18.18
14:45	6.69	3.216	60.1	0.40	19.70	-46		18.23
14:50	6.64	3.49	30.7	0.21	19.51	-44		18.24
14:55	6.60	3.53	17.2	0.14	19.29	-46		18.24
15:00	6.61	3.50	15.1	0.00	19.33	-46		18.24

SAMPLING: Date 10/24/2012 Time 15:15

Sample Analysis	Volume	Container Type	Number of Containers	Preservative
VOCs	40mL	VOA	6	HCL

SAMPLING METHOD: Low-Flow X Grab ___ Bailer _____
Stainless Steel Bailer _____

EQUIPMENT DECONTAMINATION PROCEDURES:

DECONTAMINATION METHOD:
☒ Non Phosphatic detergent wash/distilled water rinse
☐ Methanol rinse

NOTES: Duplicate Collected here

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LOW- FLOW GROUNDWATER FIELD SAMPLING DATA FORM

602 N. Capital Ave
Indianapolis, IN 46204
T: 317-972-7870 F: 317-972-7875

PROJECT NAME: OHM-Elm Grove
Well/Surface Station I.D. MW- ~~4~~ 4
LOCATION/ADDRESS: 13405 Watertown Plank Rd. Elm Grove, Wisconsin
Sample Designation 6142-MW- 4
PROJECT NO. 6142
Date 10/24/2012
CLIENT/CONTACT: Brian Cass

WATER LEVEL MEASUREMENTS:

Water Level (MSL):_____ Feet below reference elevation 17.11 Date 10/24/2012 Time_____ 11:35

WELL EVACUATION: Well Depth _____feet Well Diameter 2 inches
Depth to Top of Screen _____feet

WELL EVACUATION METHOD: Low-Flow ___X Bailer_____ Other _____

Stability Parameter Readings:

Time	pH	Specific Conductance (umhos/cm)	Turbidity (NTU)	Dissolved Oxgen (mg/L)	Temperature (Celsius)	Oxidation-Reduction Potential (mV)	Flow Rate (ml/min)	DTW (ft)
11:40	6.55	3.10	4.5	1.08	19.57	-2	250	17.11
11:45	6.82	3.15	3.3	0.47	19.54	-83	↓	17.16
11:50	6.83	3.13	3.3	0.36	19.54	-89	↓	17.18
11:55	6.83	3.12	3.5	0.33	19.51	-89	↓	17.18
12:00	6.84	3.11	3.3	0.31	19.52	-92	↓	17.18

SAMPLING: Date 10/24/2012 Time 12:10

Sample Analysis	Volume	Container Type	Number of Containers	Preservative
VOCs	40mL	VOA	3	HCL

SAMPLING METHOD: Low-Flow X Grab ___ Bailer_____
Stainless Steel Bailer_____

EQUIPMENT DECONTAMINATION PROCEDURES:

DECONTAMINATION METHOD: ☐Non Phosphatic detergent wash/distilled water rinse
☒Methanol rinse

NOTES:

ENVIRO forensics

LOW- FLOW GROUNDWATER FIELD SAMPLING DATA FORM

602 N. Capital Ave
Indianapolis, IN 46204
T: 317-972-7870 F: 317-972-7875

PROJECT NAME: OHM-Elm Grove — Well/Surface Station I.D. MW- 5

LOCATION/ADDRESS: 13405 Watertown Plank Rd. Elm Grove, Wisconsin — Sample Designation 6142-MW- 5

PROJECT NO. 6142 — Date 10/24/2012

CLIENT/CONTACT: Brian Cass

WATER LEVEL MEASUREMENTS:

Water Level (MSL): _____ Feet below reference elevation 18.12 Date 10/24/2012 Time _____ 11:35

WELL EVACUATION: Well Depth 25 feet Well Diameter 2 inches
Depth to Top of Screen 15 feet

WELL EVACUATION METHOD: Low-Flow ___X___ Bailer _____ Other _____

Stability Parameter Readings:

Time	pH	Specific Conductance (umhos/cm)	Turbidity (NTU)	Dissolved Oxgen (mg/L)	Temperature (Celsius)	Oxidation-Reduction Potential (mV)	Flow Rate (ml/min)	DTW (ft)
12:20	6.64	1.25	37.1	4.20	17.71	-52	300	18.12
12:25	6.72	0.005	23.1	8.65	15.27	28		18.14
12:30	6.53		13.1	8.14	15.29	50		18.15
12:35	6.50		10.1	7.94	15.29	51		18.15
12:40	6.51		9.72	7.91	15.27	51		18.15

SAMPLING: Date 10/24/2012 Time 13:00

Sample Analysis	Volume	Container Type	Number of Containers	Preservative
VOCs	40mL	VOA	3	HCL

SAMPLING METHOD: Low-Flow X Grab ___ Bailer _____
Stainless Steel Bailer _____

EQUIPMENT DECONTAMINATION PROCEDURES:

DECONTAMINATION METHOD:
- ☐ Non Phosphatic detergent wash/distilled water rinse
- ☒ Methanol rinse

NOTES:

ENVIRO forensics

LOW- FLOW GROUNDWATER FIELD SAMPLING DATA FORM

602 N. Capital Ave
Indianapolis, IN 46204
T: 317-972-7870 F: 317-972-7875

PROJECT NAME: OHM-Elm Grove
Well/Surface Station I.D. MW- 6
LOCATION/ADDRESS: 13405 Watertown Plank Rd. Elm Grove, Wisconsin
Sample Designation 6142-MW- 6
PROJECT NO.: 6142
Date: 10/24/2012
CLIENT/CONTACT: Brian Cass

WATER LEVEL MEASUREMENTS:

Water Level (MSL): _____ Feet below reference elevation 19.14 Date 10/24/2012 Time _____ 11:35

WELL EVACUATION: Well Depth _____ feet Well Diameter 2 inches
Depth to Top of Screen _____ feet

WELL EVACUATION METHOD: Low-Flow ___X Bailer _____ Other _____

Stability Parameter Readings:

Time	pH	Specific Conductance (umhos/cm)	Turbidity (NTU)	Dissolved Oxgen (mg/L)	Temperature (Celsius)	Oxidation-Reduction Potential (mV)	Flow Rate (ml/min)	DTW (ft)
13:15	7.04	2.82	419	1.67	19.95	6	200	19.20
13:20	6.95	2.87	215	0.53	19.14	-7		19.21
13:25	6.85	2.93	153	0.0	18.36	-20		19.21
13:30	6.84	2.93	87.6	0.0	18.24	-20		19.21
13:35	6.85	2.94	42.1	0.0	18.20	-21		19.21
13:40	6.86	2.94	21.1	0.0	18.21	-21	↓	19.21

SAMPLING: Date 10/24/2012 Time 13:45

Sample Analysis	Volume	Container Type	Number of Containers	Preservative
VOCs	40mL	VOA	3	HCL

SAMPLING METHOD: Low-Flow X Grab ___ Bailer _____
Stainless Steel Bailer _____

EQUIPMENT DECONTAMINATION PROCEDURES:

DECONTAMINATION METHOD:
☒ Non Phosphatic detergent wash/distilled water rinse
☐ Methanol rinse

NOTES:

ENVIRO forensics

ATTACHMENT C

Laboratory Analytical Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-51822-1
Client Project/Site: One Hour Martinizing Elm Grove - 6142

For:
Environmental Forensic Investigation Inc
200 S. Executive Drive, Ste 101
Brookfield, Wisconsin 53045

Attn: Mr. Wayne Fassbender

Sandie Fredrick

Authorized for release by:
11/6/2012 3:20:09 PM

Sandie Fredrick
Project Manager I
sandie.fredrick@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Case Narrative

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51822-1

Job ID: 500-51822-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-51822-1

Comments
No additional comments.

Receipt
The samples were received on 10/29/2012 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.0° C.

GC/MS VOA
Method(s) 5035: MeOH extract vials have < 8 grams of soil in 10 ml MeOH

Method(s) 8260B: A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batches 168098 and 168479 had 1 analyte outside the control limits; therefore, re-analysis was not performed. These results have been reported and qualified. The associated samples were non-detect for the affected analytes.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51822-1

Client Sample ID: 6142-HA-1 (2.5-5) — Lab Sample ID: 500-51822-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	120		83	14	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: 6142-HA-1 (12.5-14.5) — Lab Sample ID: 500-51822-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	4200		84	14	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: 6142-HA-2 (2-4.25) — Lab Sample ID: 500-51822-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	79	J	280	70	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	100		70	9.6	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-51822-4

No Detections

Method Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51822-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51822-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-51822-1	6142-HA-1 (2.5-5)	Solid	10/22/12 10:35	10/29/12 09:50
500-51822-2	6142-HA-1 (12.5-14.5)	Solid	10/22/12 10:35	10/29/12 09:50
500-51822-3	6142-HA-2 (2-4.25)	Solid	10/22/12 11:10	10/29/12 09:50
500-51822-4	Trip Blank	Water	10/22/12 00:00	10/29/12 09:50

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51822-1

Client Sample ID: 6142-HA-1 (2.5-5)
Date Collected: 10/22/12 10:35
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51822-1
Matrix: Solid
Percent Solids: 91.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		170	29	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,1,1-Trichloroethane	<17		83	17	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,1,2,2-Tetrachloroethane	<19		83	19	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,1,2-Trichloroethane	<23		83	23	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,1-Dichloroethane	<15		83	15	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,1-Dichloroethene	<25		83	25	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,1-Dichloropropene	<28		83	28	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,2,3-Trichlorobenzene	<29		170	29	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,2,3-Trichloropropane	<47		170	47	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,2,4-Trichlorobenzene	<31		170	31	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,2,4-Trimethylbenzene	<17		170	17	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,2-Dibromo-3-Chloropropane	<72		170	72	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,2-Dibromoethane	<26		170	26	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,2-Dichlorobenzene	<17		170	17	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,2-Dichloroethane	<24		83	24	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,2-Dichloropropane	<16		83	16	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,3,5-Trimethylbenzene	<17		170	17	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,3-Dichlorobenzene	<21		170	21	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,3-Dichloropropane	<11		83	11	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
1,4-Dichlorobenzene	<14		170	14	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
2,2-Dichloropropane	<26		83	26	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
2-Chlorotoluene	<17		83	17	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
4-Chlorotoluene	<16		83	16	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Benzene	<6.1		21	6.1	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Bromobenzene	<35		170	35	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Bromochloromethane	<31		170	31	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Bromodichloromethane	<28		170	28	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Bromoform	<36		170	36	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Bromomethane	<56		170	56	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Carbon tetrachloride	<21		83	21	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Chlorobenzene	<12		83	12	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Chloroethane	<36		170	36	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Chloroform	<17		83	17	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Chloromethane	<38		170	38	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
cis-1,2-Dichloroethene	<10		83	10	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
cis-1,3-Dichloropropene	<15		83	15	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Dibromochloromethane	<29		170	29	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Dibromomethane	<40		170	40	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Dichlorodifluoromethane	<42		170	42	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Ethylbenzene	<10		21	10	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Hexachlorobutadiene	<29		170	29	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Isopropyl ether	<12		170	12	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Isopropylbenzene	<21		170	21	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Methyl tert-butyl ether	<35		170	35	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Methylene Chloride	<56		410	56	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Naphthalene	<41		170	41	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
n-Butylbenzene	<11		83	11	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
N-Propylbenzene	<14		170	14	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
p-Isopropyltoluene	<15		170	15	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
sec-Butylbenzene	<13		83	13	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Styrene	<8.2		83	8.2	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50

Client Sample ID: 6142-HA-1 (2.5-5)

Lab Sample ID: 500-51822-1

Date Collected: 10/22/12 10:35
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 91.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<11		83	11	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Tetrachloroethene	**120**		83	14	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Toluene	<9.5		21	9.5	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
trans-1,2-Dichloroethene	<21		83	21	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
trans-1,3-Dichloropropene	<17		83	17	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Trichloroethene	<15		41	15	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Trichlorofluoromethane	<34		170	34	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Vinyl chloride	<8.6		21	8.6	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50
Xylenes, Total	<5.6		41	5.6	ug/Kg	☼	10/22/12 10:35	11/02/12 14:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 131*	*10/22/12 10:35*	*11/02/12 14:42*	*50*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*10/22/12 10:35*	*11/02/12 14:42*	*50*
Dibromofluoromethane	*95*		*74 - 123*	*10/22/12 10:35*	*11/02/12 14:42*	*50*
Toluene-d8 (Surr)	*99*		*80 - 120*	*10/22/12 10:35*	*11/02/12 14:42*	*50*

Client Sample ID: 6142-HA-1 (12.5-14.5)

Lab Sample ID: 500-51822-2

Date Collected: 10/22/12 10:35
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 94.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		170	29	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,1,1-Trichloroethane	<17		84	17	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,1,2,2-Tetrachloroethane	<20		84	20	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,1,2-Trichloroethane	<23		84	23	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,1-Dichloroethane	<16		84	16	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,1-Dichloroethene	<26		84	26	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,1-Dichloropropene	<29		84	29	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,2,3-Trichlorobenzene	<29		170	29	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,2,3-Trichloropropane	<48		170	48	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,2,4-Trichlorobenzene	<32		170	32	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,2,4-Trimethylbenzene	<18		170	18	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,2-Dibromo-3-Chloropropane	<73		170	73	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,2-Dibromoethane	<26		170	26	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,2-Dichlorobenzene	<17		170	17	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,2-Dichloroethane	<24		84	24	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,2-Dichloropropane	<17		84	17	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,3,5-Trimethylbenzene	<17		170	17	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,3-Dichlorobenzene	<22		170	22	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,3-Dichloropropane	<11		84	11	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
1,4-Dichlorobenzene	<15		170	15	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
2,2-Dichloropropane	<27		84	27	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
2-Chlorotoluene	<17		84	17	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
4-Chlorotoluene	<17		84	17	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Benzene	<6.2		21	6.2	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Bromobenzene	<36		170	36	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Bromochloromethane	<32		170	32	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Bromodichloromethane	<28		170	28	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Bromoform	<37		170	37	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Bromomethane	<57		170	57	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50

Client Sample ID: 6142-HA-1 (12.5-14.5)

Lab Sample ID: 500-51822-2

Date Collected: 10/22/12 10:35
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 94.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<22		84	22	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Chlorobenzene	<12		84	12	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Chloroethane	<37		170	37	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Chloroform	<17		84	17	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Chloromethane	<39		170	39	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
cis-1,2-Dichloroethene	<10		84	10	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
cis-1,3-Dichloropropene	<15		84	15	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Dibromochloromethane	<29		170	29	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Dibromomethane	<40		170	40	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Dichlorodifluoromethane	<43		170	43	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Ethylbenzene	<11		21	11	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Hexachlorobutadiene	<29		170	29	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Isopropyl ether	<12		170	12	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Isopropylbenzene	<21		170	21	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Methyl tert-butyl ether	<36		170	36	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Methylene Chloride	<58		420	58	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Naphthalene	<42		170	42	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
n-Butylbenzene	<11		84	11	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
N-Propylbenzene	<15		170	15	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
p-Isopropyltoluene	<16		170	16	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
sec-Butylbenzene	<13		84	13	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Styrene	<8.3		84	8.3	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
tert-Butylbenzene	<11		84	11	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Tetrachloroethene	**4200**		84	14	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Toluene	<9.7		21	9.7	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
trans-1,2-Dichloroethene	<21		84	21	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
trans-1,3-Dichloropropene	<18		84	18	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Trichloroethene	<16		42	16	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Trichlorofluoromethane	<35		170	35	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Vinyl chloride	<8.8		21	8.8	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50
Xylenes, Total	<5.8		42	5.8	ug/Kg	☼	10/22/12 10:35	11/02/12 15:06	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 131*	*10/22/12 10:35*	*11/02/12 15:06*	*50*
4-Bromofluorobenzene (Surr)	*94*		*79 - 120*	*10/22/12 10:35*	*11/02/12 15:06*	*50*
Dibromofluoromethane	*95*		*74 - 123*	*10/22/12 10:35*	*11/02/12 15:06*	*50*
Toluene-d8 (Surr)	*96*		*80 - 120*	*10/22/12 10:35*	*11/02/12 15:06*	*50*

Client Sample ID: 6142-HA-2 (2-4.25)

Lab Sample ID: 500-51822-3

Date Collected: 10/22/12 11:10
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<49		280	49	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,1,1-Trichloroethane	<28		140	28	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,1,2,2-Tetrachloroethane	<33		140	33	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,1,2-Trichloroethane	<39		140	39	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,1-Dichloroethane	<26		140	26	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,1-Dichloroethene	<43		140	43	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,1-Dichloropropene	<48		140	48	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50

Client Sample ID: 6142-HA-2 (2-4.25)
Date Collected: 10/22/12 11:10
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51822-3
Matrix: Solid
Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<49		280	49	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,2,3-Trichloropropane	<81		280	81	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,2,4-Trichlorobenzene	<53		280	53	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,2,4-Trimethylbenzene	<30		280	30	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,2-Dibromo-3-Chloropropane	<120		280	120	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,2-Dibromoethane	<44		280	44	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,2-Dichlorobenzene	<29		280	29	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,2-Dichloroethane	<40		140	40	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,2-Dichloropropane	<28		140	28	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,3,5-Trimethylbenzene	<29		280	29	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,3-Dichlorobenzene	<36		280	36	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,3-Dichloropropane	<19		140	19	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
1,4-Dichlorobenzene	<25		280	25	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
2,2-Dichloropropane	<45		140	45	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
2-Chlorotoluene	<29		140	29	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
4-Chlorotoluene	<28		140	28	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Benzene	<10		35	10	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Bromobenzene	<60		280	60	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Bromochloromethane	<53		280	53	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Bromodichloromethane	<48		280	48	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Bromoform	<62		280	62	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Bromomethane	<96		280	96	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Carbon tetrachloride	<36		140	36	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Chlorobenzene	<20		140	20	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Chloroethane	<61		280	61	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Chloroform	<29		140	29	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Chloromethane	<65		280	65	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
cis-1,2-Dichloroethene	<17		140	17	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
cis-1,3-Dichloropropene	<25		140	25	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Dibromochloromethane	<49		280	49	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Dibromomethane	<68		280	68	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Dichlorodifluoromethane	<72		280	72	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Ethylbenzene	<18		35	18	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Hexachlorobutadiene	<49		280	49	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Isopropyl ether	<21		280	21	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Isopropylbenzene	<35		280	35	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Methyl tert-butyl ether	<61		280	61	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Methylene Chloride	<96		700	96	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Naphthalene	79	J	280	70	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
n-Butylbenzene	<18		140	18	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
N-Propylbenzene	<25		280	25	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
p-Isopropyltoluene	<26		280	26	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
sec-Butylbenzene	<22		140	22	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Styrene	<14		140	14	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
tert-Butylbenzene	<19		140	19	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Tetrachloroethene	<24		140	24	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Toluene	<16		35	16	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
trans-1,2-Dichloroethene	<35		140	35	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
trans-1,3-Dichloropropene	<29		140	29	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Trichloroethene	<26		70	26	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Trichlorofluoromethane	<59		280	59	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50

Client Sample ID: 6142-HA-2 (2-4.25)

Lab Sample ID: 500-51822-3

Date Collected: 10/22/12 11:10
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 86.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<15		35	15	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50
Xylenes, Total	**100**		70	9.6	ug/Kg	☼	10/22/12 11:10	11/02/12 15:31	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 131*	*10/22/12 11:10*	*11/02/12 15:31*	*50*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*	*10/22/12 11:10*	*11/02/12 15:31*	*50*
Dibromofluoromethane	*97*		*74 - 123*	*10/22/12 11:10*	*11/02/12 15:31*	*50*
Toluene-d8 (Surr)	*97*		*80 - 120*	*10/22/12 11:10*	*11/02/12 15:31*	*50*

Client Sample ID: Trip Blank

Lab Sample ID: 500-51822-4

Date Collected: 10/22/12 00:00
Matrix: Water
Date Received: 10/29/12 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/02/12 13:54	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/02/12 13:54	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/02/12 13:54	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/02/12 13:54	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/02/12 13:54	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/02/12 13:54	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/02/12 13:54	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/02/12 13:54	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/02/12 13:54	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/02/12 13:54	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/02/12 13:54	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/02/12 13:54	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/02/12 13:54	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/02/12 13:54	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/02/12 13:54	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/02/12 13:54	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/02/12 13:54	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/02/12 13:54	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/02/12 13:54	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/02/12 13:54	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/02/12 13:54	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/02/12 13:54	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/02/12 13:54	1
Benzene	<0.074		0.50	0.074	ug/L			11/02/12 13:54	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/02/12 13:54	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/02/12 13:54	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/02/12 13:54	1
Bromoform	<0.28		1.0	0.28	ug/L			11/02/12 13:54	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/02/12 13:54	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/02/12 13:54	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/02/12 13:54	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/02/12 13:54	1
Chloroform	<0.20		1.0	0.20	ug/L			11/02/12 13:54	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/02/12 13:54	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			11/02/12 13:54	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/02/12 13:54	1

Client Sample ID: Trip Blank
Date Collected: 10/22/12 00:00
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51822-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/02/12 13:54	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/02/12 13:54	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/02/12 13:54	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/02/12 13:54	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/02/12 13:54	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/02/12 13:54	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/02/12 13:54	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/02/12 13:54	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/02/12 13:54	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/02/12 13:54	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/02/12 13:54	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/02/12 13:54	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/02/12 13:54	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/02/12 13:54	1
Styrene	<0.10		1.0	0.10	ug/L			11/02/12 13:54	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/02/12 13:54	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			11/02/12 13:54	1
Toluene	<0.11		0.50	0.11	ug/L			11/02/12 13:54	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/02/12 13:54	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/02/12 13:54	1
Trichloroethene	<0.19		0.50	0.19	ug/L			11/02/12 13:54	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/02/12 13:54	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/02/12 13:54	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/02/12 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 131*		*11/02/12 13:54*	*1*
4-Bromofluorobenzene (Surr)	*92*		*79 - 120*		*11/02/12 13:54*	*1*
Dibromofluoromethane	*94*		*74 - 123*		*11/02/12 13:54*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*11/02/12 13:54*	*1*

Definitions/Glossary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51822-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration
RL	Reporting Limit or Requested Limit (Radiochemistry only)

QC Association Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51822-1

GC/MS VOA

Prep Batch: 168098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-51822-1	6142-HA-1 (2.5-5)	Total/NA	Solid	5035	
500-51822-2	6142-HA-1 (12.5-14.5)	Total/NA	Solid	5035	
500-51822-3	6142-HA-2 (2-4.25)	Total/NA	Solid	5035	
LB3 500-168098/4-A LB3	Method Blank	Total/NA	Solid	5035	
LCS 500-168098/5-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 168257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-51822-4	Trip Blank	Total/NA	Water	8260B	
LCS 500-168257/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-168257/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 168258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-51822-1	6142-HA-1 (2.5-5)	Total/NA	Solid	8260B	168098
500-51822-2	6142-HA-1 (12.5-14.5)	Total/NA	Solid	8260B	168098
500-51822-3	6142-HA-2 (2-4.25)	Total/NA	Solid	8260B	168098
LCS 500-168098/5-A	Lab Control Sample	Total/NA	Solid	8260B	168098
LCS 500-168258/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-168258/6	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 168479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-168098/4-A LB3	Method Blank	Total/NA	Solid	8260B	168098
LCS 500-168479/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-168479/6	Method Blank	Total/NA	Solid	8260B	

General Chemistry

Analysis Batch: 167782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-51822-1	6142-HA-1 (2.5-5)	Total/NA	Solid	Moisture	
500-51822-2	6142-HA-1 (12.5-14.5)	Total/NA	Solid	Moisture	
500-51822-3	6142-HA-2 (2-4.25)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51822-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-131)	(79-120)	(74-123)	(80-120)
500-51822-1	6142-HA-1 (2.5-5)	97	99	95	99
500-51822-2	6142-HA-1 (12.5-14.5)	95	94	95	96
500-51822-3	6142-HA-2 (2-4.25)	100	97	97	97
LB3 500-168098/4-A LB3	Method Blank	105	89	90	95
LCS 500-168098/5-A	Lab Control Sample	103	93	104	95
LCS 500-168258/4	Lab Control Sample	96	99	98	101
LCS 500-168479/4	Lab Control Sample	98	92	91	96
MB 500-168258/6	Method Blank	99	96	96	97
MB 500-168479/6	Method Blank	102	91	88	95

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-131)	(79-120)	(74-123)	(80-120)
500-51822-4	Trip Blank	97	92	94	94
LCS 500-168257/4	Lab Control Sample	96	99	98	101
MB 500-168257/6	Method Blank	99	96	96	97

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Detection Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51820-1

Client Sample ID: 6142-B-15 (2.5-5) — Lab Sample ID: 500-51820-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1,2-Tetrachloroethane	110	J	530	91	ug/Kg	100	☼	8260B	Total/NA
Trichloroethene	400		130	49	ug/Kg	100	☼	8260B	Total/NA
Tetrachloroethene - DL	360000		2600	440	ug/Kg	1000	☼	8260B	Total/NA

Client Sample ID: 6142-B-15 (10-12.5) — Lab Sample ID: 500-51820-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	6000		93	15	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: 6142-B-16 (2.5-5) — Lab Sample ID: 500-51820-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	79	J	110	18	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: 6142-B-16 (10-12.5) — Lab Sample ID: 500-51820-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	180		53	8.8	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: 6142-B-16 (15-17.5) — Lab Sample ID: 500-51820-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	17000		91	15	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	39	J	45	17	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: 6142-B-17 (2.5-5) — Lab Sample ID: 500-51820-6

No Detections

Client Sample ID: 6142-B-17 (12.5-15) — Lab Sample ID: 500-51820-7

No Detections

Client Sample ID: 6142-B-18 (5-7.5) — Lab Sample ID: 500-51820-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	540		110	18	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: 6142-B-18 (12.5-15) — Lab Sample ID: 500-51820-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1700		95	16	ug/Kg	50	☼	8260B	Total/NA

Method Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51820-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51820-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-51820-1	6142-B-15 (2.5-5)	Solid	10/22/12 14:00	10/29/12 09:50
500-51820-2	6142-B-15 (10-12.5)	Solid	10/22/12 14:00	10/29/12 09:50
500-51820-3	6142-B-16 (2.5-5)	Solid	10/22/12 12:00	10/29/12 09:50
500-51820-4	6142-B-16 (10-12.5)	Solid	10/22/12 12:00	10/29/12 09:50
500-51820-5	6142-B-16 (15-17.5)	Solid	10/22/12 12:00	10/29/12 09:50
500-51820-6	6142-B-17 (2.5-5)	Solid	10/22/12 09:00	10/29/12 09:50
500-51820-7	6142-B-17 (12.5-15)	Solid	10/22/12 09:00	10/29/12 09:50
500-51820-8	6142-B-18 (5-7.5)	Solid	10/22/12 10:00	10/29/12 09:50
500-51820-9	6142-B-18 (12.5-15)	Solid	10/22/12 10:00	10/29/12 09:50

Client Sample ID: 6142-B-15 (2.5-5)
Date Collected: 10/22/12 14:00
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51820-1
Matrix: Solid
Percent Solids: 86.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	110	J	530	91	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,1,1-Trichloroethane	<53		260	53	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,1,2,2-Tetrachloroethane	<61		260	61	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,1,2-Trichloroethane	<73		260	73	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,1-Dichloroethane	<49		260	49	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,1-Dichloroethene	<81		260	81	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,1-Dichloropropene	<90		260	90	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,2,3-Trichlorobenzene	<92		530	92	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,2,3-Trichloropropane	<150		530	150	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,2,4-Trichlorobenzene	<99		530	99	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,2,4-Trimethylbenzene	<55		530	55	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,2-Dibromo-3-Chloropropane	<230		530	230	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,2-Dibromoethane	<82		530	82	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,2-Dichlorobenzene	<54		530	54	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,2-Dichloroethane	<75		260	75	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,2-Dichloropropane	<51		260	51	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,3,5-Trimethylbenzene	<54		530	54	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,3-Dichlorobenzene	<68		530	68	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,3-Dichloropropane	<35		260	35	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
1,4-Dichlorobenzene	<46		530	46	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
2,2-Dichloropropane	<83		260	83	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
2-Chlorotoluene	<54		260	54	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
4-Chlorotoluene	<52		260	52	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Benzene	<19		66	19	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Bromobenzene	<110		530	110	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Bromochloromethane	<99		530	99	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Bromodichloromethane	<89		530	89	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Bromoform	<120		530	120	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Bromomethane	<180		530	180	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Carbon tetrachloride	<68		260	68	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Chlorobenzene	<38		260	38	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Chloroethane	<110		530	110	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Chloroform	<54		260	54	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Chloromethane	<120		530	120	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
cis-1,2-Dichloroethene	<32		260	32	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
cis-1,3-Dichloropropene	<47		260	47	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Dibromochloromethane	<91		530	91	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Dibromomethane	<130		530	130	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Dichlorodifluoromethane	<130		530	130	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Ethylbenzene	<33		66	33	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Hexachlorobutadiene	<91		530	91	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Isopropyl ether	<39		530	39	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Isopropylbenzene	<66		530	66	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Methyl tert-butyl ether	<110		530	110	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Methylene Chloride	<180		1300	180	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Naphthalene	<130		530	130	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
n-Butylbenzene	<34		260	34	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
N-Propylbenzene	<46		530	46	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
p-Isopropyltoluene	<49		530	49	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
sec-Butylbenzene	<40		260	40	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Styrene	<26		260	26	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100

Client Sample ID: 6142-B-15 (2.5-5)

Lab Sample ID: 500-51820-1

Date Collected: 10/22/12 14:00
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 86.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<36		260	36	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Toluene	<30		66	30	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
trans-1,2-Dichloroethene	<66		260	66	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
trans-1,3-Dichloropropene	<55		260	55	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Trichloroethene	400		130	49	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Trichlorofluoromethane	<110		530	110	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Vinyl chloride	<27		66	27	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100
Xylenes, Total	<18		130	18	ug/Kg	☼	10/22/12 14:00	11/02/12 15:55	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 131*	*10/22/12 14:00*	*11/02/12 15:55*	*100*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*	*10/22/12 14:00*	*11/02/12 15:55*	*100*
Dibromofluoromethane	*97*		*74 - 123*	*10/22/12 14:00*	*11/02/12 15:55*	*100*
Toluene-d8 (Surr)	*97*		*80 - 120*	*10/22/12 14:00*	*11/02/12 15:55*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	360000		2600	440	ug/Kg	☼	10/22/12 14:00	11/02/12 16:19	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 131*	*10/22/12 14:00*	*11/02/12 16:19*	*1000*
4-Bromofluorobenzene (Surr)	*96*		*79 - 120*	*10/22/12 14:00*	*11/02/12 16:19*	*1000*
Dibromofluoromethane	*98*		*74 - 123*	*10/22/12 14:00*	*11/02/12 16:19*	*1000*
Toluene-d8 (Surr)	*96*		*80 - 120*	*10/22/12 14:00*	*11/02/12 16:19*	*1000*

Client Sample ID: 6142-B-15 (10-12.5)

Lab Sample ID: 500-51820-2

Date Collected: 10/22/12 14:00
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 95.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		190	32	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,1,1-Trichloroethane	<19		93	19	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,1,2,2-Tetrachloroethane	<22		93	22	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,1,2-Trichloroethane	<26		93	26	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,1-Dichloroethane	<17		93	17	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,1-Dichloroethene	<28		93	28	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,1-Dichloropropene	<32		93	32	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,2,3-Trichlorobenzene	<32		190	32	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,2,3-Trichloropropane	<53		190	53	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,2,4-Trichlorobenzene	<35		190	35	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,2,4-Trimethylbenzene	<20		190	20	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,2-Dibromo-3-Chloropropane	<81		190	81	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,2-Dibromoethane	<29		190	29	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,2-Dichlorobenzene	<19		190	19	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,2-Dichloroethane	<26		93	26	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,2-Dichloropropane	<18		93	18	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,3,5-Trimethylbenzene	<19		190	19	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,3-Dichlorobenzene	<24		190	24	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,3-Dichloropropane	<12		93	12	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
1,4-Dichlorobenzene	<16		190	16	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
2,2-Dichloropropane	<29		93	29	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50

Client Sample ID: 6142-B-15 (10-12.5)
Date Collected: 10/22/12 14:00
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51820-2
Matrix: Solid
Percent Solids: 95.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	<19		93	19	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
4-Chlorotoluene	<18		93	18	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Benzene	<6.9		23	6.9	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Bromobenzene	<39		190	39	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Bromochloromethane	<35		190	35	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Bromodichloromethane	<31		190	31	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Bromoform	<41		190	41	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Bromomethane	<63		190	63	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Carbon tetrachloride	<24		93	24	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Chlorobenzene	<13		93	13	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Chloroethane	<40		190	40	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Chloroform	<19		93	19	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Chloromethane	<43		190	43	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
cis-1,2-Dichloroethene	<11		93	11	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
cis-1,3-Dichloropropene	<16		93	16	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Dibromochloromethane	<32		190	32	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Dibromomethane	<44		190	44	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Dichlorodifluoromethane	<47		190	47	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Ethylbenzene	<12		23	12	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Hexachlorobutadiene	<32		190	32	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Isopropyl ether	<14		190	14	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Isopropylbenzene	<23		190	23	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Methyl tert-butyl ether	<40		190	40	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Methylene Chloride	<63		460	63	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Naphthalene	<46		190	46	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
n-Butylbenzene	<12		93	12	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
N-Propylbenzene	<16		190	16	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
p-Isopropyltoluene	<17		190	17	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
sec-Butylbenzene	<14		93	14	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Styrene	<9.1		93	9.1	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
tert-Butylbenzene	<13		93	13	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Tetrachloroethene	6000		93	15	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Toluene	<11		23	11	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
trans-1,2-Dichloroethene	<23		93	23	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
trans-1,3-Dichloropropene	<19		93	19	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Trichloroethene	<17		46	17	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Trichlorofluoromethane	<38		190	38	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Vinyl chloride	<9.6		23	9.6	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50
Xylenes, Total	<6.3		46	6.3	ug/Kg	☼	10/22/12 14:00	11/02/12 16:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 131*	*10/22/12 14:00*	*11/02/12 16:43*	*50*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*	*10/22/12 14:00*	*11/02/12 16:43*	*50*
Dibromofluoromethane	*98*		*74 - 123*	*10/22/12 14:00*	*11/02/12 16:43*	*50*
Toluene-d8 (Surr)	*99*		*80 - 120*	*10/22/12 14:00*	*11/02/12 16:43*	*50*

Client Sample ID: 6142-B-16 (2.5-5)
Date Collected: 10/22/12 12:00
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51820-3
Matrix: Solid
Percent Solids: 89.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<37		210	37	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,1,1-Trichloroethane	<22		110	22	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,1,2,2-Tetrachloroethane	<25		110	25	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,1,2-Trichloroethane	<30		110	30	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,1-Dichloroethane	<20		110	20	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,1-Dichloroethene	<33		110	33	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,1-Dichloropropene	<37		110	37	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,2,3-Trichlorobenzene	<38		210	38	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,2,3-Trichloropropane	<62		210	62	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,2,4-Trichlorobenzene	<41		210	41	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,2,4-Trimethylbenzene	<23		210	23	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,2-Dibromo-3-Chloropropane	<93		210	93	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,2-Dibromoethane	<34		210	34	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,2-Dichlorobenzene	<22		210	22	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,2-Dichloroethane	<31		110	31	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,2-Dichloropropane	<21		110	21	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,3,5-Trimethylbenzene	<22		210	22	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,3-Dichlorobenzene	<28		210	28	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,3-Dichloropropane	<14		110	14	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
1,4-Dichlorobenzene	<19		210	19	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
2,2-Dichloropropane	<34		110	34	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
2-Chlorotoluene	<22		110	22	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
4-Chlorotoluene	<21		110	21	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Benzene	<8.0		27	8.0	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Bromobenzene	<46		210	46	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Bromochloromethane	<41		210	41	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Bromodichloromethane	<36		210	36	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Bromoform	<47		210	47	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Bromomethane	<73		210	73	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Carbon tetrachloride	<28		110	28	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Chlorobenzene	<15		110	15	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Chloroethane	<47		210	47	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Chloroform	<22		110	22	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Chloromethane	<50		210	50	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
cis-1,2-Dichloroethene	<13		110	13	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
cis-1,3-Dichloropropene	<19		110	19	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Dibromochloromethane	<37		210	37	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Dibromomethane	<51		210	51	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Dichlorodifluoromethane	<55		210	55	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Ethylbenzene	<14		27	14	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Hexachlorobutadiene	<37		210	37	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Isopropyl ether	<16		210	16	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Isopropylbenzene	<27		210	27	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Methyl tert-butyl ether	<46		210	46	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Methylene Chloride	<73		540	73	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Naphthalene	<53		210	53	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
n-Butylbenzene	<14		110	14	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
N-Propylbenzene	<19		210	19	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
p-Isopropyltoluene	<20		210	20	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
sec-Butylbenzene	<17		110	17	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Styrene	<11		110	11	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50

Client Sample ID: 6142-B-16 (2.5-5)

Lab Sample ID: 500-51820-3

Date Collected: 10/22/12 12:00
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 89.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<15		110	15	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Tetrachloroethene	79	J	110	18	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Toluene	<12		27	12	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
trans-1,2-Dichloroethene	<27		110	27	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
trans-1,3-Dichloropropene	<22		110	22	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Trichloroethene	<20		54	20	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Trichlorofluoromethane	<45		210	45	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Vinyl chloride	<11		27	11	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50
Xylenes, Total	<7.3		54	7.3	ug/Kg	☼	10/22/12 12:00	11/02/12 17:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 131*	*10/22/12 12:00*	*11/02/12 17:07*	*50*
4-Bromofluorobenzene (Surr)	*92*		*79 - 120*	*10/22/12 12:00*	*11/02/12 17:07*	*50*
Dibromofluoromethane	*97*		*74 - 123*	*10/22/12 12:00*	*11/02/12 17:07*	*50*
Toluene-d8 (Surr)	*96*		*80 - 120*	*10/22/12 12:00*	*11/02/12 17:07*	*50*

Client Sample ID: 6142-B-16 (10-12.5)

Lab Sample ID: 500-51820-4

Date Collected: 10/22/12 12:00
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 95.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<18		110	18	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,1,1-Trichloroethane	<11		53	11	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,1,2,2-Tetrachloroethane	<12		53	12	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,1,2-Trichloroethane	<15		53	15	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,1-Dichloroethane	<9.7		53	9.7	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,1-Dichloroethene	<16		53	16	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,1-Dichloropropene	<18		53	18	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,2,3-Trichlorobenzene	<18		110	18	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,2,3-Trichloropropane	<30		110	30	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,2,4-Trichlorobenzene	<20		110	20	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,2,4-Trimethylbenzene	<11		110	11	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,2-Dibromo-3-Chloropropane	<46		110	46	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,2-Dibromoethane	<17		110	17	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,2-Dichlorobenzene	<11		110	11	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,2-Dichloroethane	<15		53	15	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,2-Dichloropropane	<10		53	10	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,3,5-Trimethylbenzene	<11		110	11	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,3-Dichlorobenzene	<14		110	14	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,3-Dichloropropane	<7.1		53	7.1	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
1,4-Dichlorobenzene	<9.2		110	9.2	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
2,2-Dichloropropane	<17		53	17	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
2-Chlorotoluene	<11		53	11	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
4-Chlorotoluene	<10		53	10	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Benzene	<3.9		13	3.9	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Bromobenzene	<22		110	22	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Bromochloromethane	<20		110	20	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Bromodichloromethane	<18		110	18	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Bromoform	<23		110	23	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Bromomethane	<36		110	36	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50

Client Sample ID: 6142-B-16 (10-12.5)

Lab Sample ID: 500-51820-4

Date Collected: 10/22/12 12:00
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 95.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<14		53	14	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Chlorobenzene	<7.5		53	7.5	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Chloroethane	<23		110	23	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Chloroform	<11		53	11	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Chloromethane	<24		110	24	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
cis-1,2-Dichloroethene	<6.5		53	6.5	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
cis-1,3-Dichloropropene	<9.4		53	9.4	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Dibromochloromethane	<18		110	18	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Dibromomethane	<25		110	25	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Dichlorodifluoromethane	<27		110	27	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Ethylbenzene	<6.6		13	6.6	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Hexachlorobutadiene	<18		110	18	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Isopropyl ether	<7.7		110	7.7	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Isopropylbenzene	<13		110	13	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Methyl tert-butyl ether	<23		110	23	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Methylene Chloride	<36		260	36	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Naphthalene	<26		110	26	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
n-Butylbenzene	<6.8		53	6.8	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
N-Propylbenzene	<9.2		110	9.2	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
p-Isopropyltoluene	<9.7		110	9.7	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
sec-Butylbenzene	<8.1		53	8.1	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Styrene	<5.2		53	5.2	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
tert-Butylbenzene	<7.2		53	7.2	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Tetrachloroethene	**180**		53	8.8	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Toluene	<6.1		13	6.1	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
trans-1,2-Dichloroethene	<13		53	13	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
trans-1,3-Dichloropropene	<11		53	11	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Trichloroethene	<9.8		26	9.8	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Trichlorofluoromethane	<22		110	22	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Vinyl chloride	<5.5		13	5.5	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50
Xylenes, Total	<3.6		26	3.6	ug/Kg	☼	11/01/12 04:36	11/02/12 17:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 131*	*11/01/12 04:36*	*11/02/12 17:32*	*50*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*	*11/01/12 04:36*	*11/02/12 17:32*	*50*
Dibromofluoromethane	*99*		*74 - 123*	*11/01/12 04:36*	*11/02/12 17:32*	*50*
Toluene-d8 (Surr)	*99*		*80 - 120*	*11/01/12 04:36*	*11/02/12 17:32*	*50*

Client Sample ID: 6142-B-16 (15-17.5)

Lab Sample ID: 500-51820-5

Date Collected: 10/22/12 12:00
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 95.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		180	31	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,1,1-Trichloroethane	<18		91	18	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,1,2,2-Tetrachloroethane	<21		91	21	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,1,2-Trichloroethane	<25		91	25	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,1-Dichloroethane	<17		91	17	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,1-Dichloroethene	<28		91	28	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,1-Dichloropropene	<31		91	31	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50

Client Sample ID: 6142-B-16 (15-17.5)
Date Collected: 10/22/12 12:00
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51820-5
Matrix: Solid
Percent Solids: 95.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<32		180	32	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,2,3-Trichloropropane	<52		180	52	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,2,4-Trichlorobenzene	<34		180	34	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,2,4-Trimethylbenzene	<19		180	19	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,2-Dibromo-3-Chloropropane	<79		180	79	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,2-Dibromoethane	<28		180	28	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,2-Dichlorobenzene	<19		180	19	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,2-Dichloroethane	<26		91	26	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,2-Dichloropropane	<18		91	18	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,3,5-Trimethylbenzene	<19		180	19	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,3-Dichlorobenzene	<23		180	23	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,3-Dichloropropane	<12		91	12	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
1,4-Dichlorobenzene	<16		180	16	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
2,2-Dichloropropane	<29		91	29	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
2-Chlorotoluene	<19		91	19	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
4-Chlorotoluene	<18		91	18	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Benzene	<6.7		23	6.7	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Bromobenzene	<39		180	39	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Bromochloromethane	<34		180	34	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Bromodichloromethane	<31		180	31	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Bromoform	<40		180	40	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Bromomethane	<62		180	62	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Carbon tetrachloride	<23		91	23	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Chlorobenzene	<13		91	13	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Chloroethane	<39		180	39	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Chloroform	<19		91	19	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Chloromethane	<42		180	42	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
cis-1,2-Dichloroethene	<11		91	11	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
cis-1,3-Dichloropropene	<16		91	16	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Dibromochloromethane	<31		180	31	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Dibromomethane	<43		180	43	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Dichlorodifluoromethane	<46		180	46	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Ethylbenzene	<11		23	11	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Hexachlorobutadiene	<31		180	31	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Isopropyl ether	<13		180	13	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Isopropylbenzene	<23		180	23	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Methyl tert-butyl ether	<39		180	39	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Methylene Chloride	<62		450	62	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Naphthalene	<45		180	45	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
n-Butylbenzene	<12		91	12	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
N-Propylbenzene	<16		180	16	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
p-Isopropyltoluene	<17		180	17	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
sec-Butylbenzene	<14		91	14	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Styrene	<9.0		91	9.0	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
tert-Butylbenzene	<12		91	12	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Tetrachloroethene	**17000**		91	15	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Toluene	<10		23	10	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
trans-1,2-Dichloroethene	<23		91	23	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
trans-1,3-Dichloropropene	<19		91	19	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Trichloroethene	**39**	**J**	45	17	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Trichlorofluoromethane	<38		180	38	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50

Client Sample ID: 6142-B-16 (15-17.5)

Lab Sample ID: 500-51820-5

Date Collected: 10/22/12 12:00
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 95.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<9.4		23	9.4	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50
Xylenes, Total	<6.2		45	6.2	ug/Kg	☼	10/22/12 12:00	11/02/12 17:56	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 131*	*10/22/12 12:00*	*11/02/12 17:56*	*50*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*10/22/12 12:00*	*11/02/12 17:56*	*50*
Dibromofluoromethane	*97*		*74 - 123*	*10/22/12 12:00*	*11/02/12 17:56*	*50*
Toluene-d8 (Surr)	*98*		*80 - 120*	*10/22/12 12:00*	*11/02/12 17:56*	*50*

Client Sample ID: 6142-B-17 (2.5-5)

Lab Sample ID: 500-51820-6

Date Collected: 10/22/12 09:00
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 88.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<41		240	41	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,1,1-Trichloroethane	<24		120	24	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,1,2,2-Tetrachloroethane	<28		120	28	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,1,2-Trichloroethane	<33		120	33	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,1-Dichloroethane	<22		120	22	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,1-Dichloroethene	<37		120	37	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,1-Dichloropropene	<41		120	41	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,2,3-Trichlorobenzene	<42		240	42	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,2,3-Trichloropropane	<69		240	69	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,2,4-Trichlorobenzene	<45		240	45	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,2,4-Trimethylbenzene	<25		240	25	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,2-Dibromo-3-Chloropropane	<100		240	100	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,2-Dibromoethane	<38		240	38	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,2-Dichlorobenzene	<25		240	25	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,2-Dichloroethane	<34		120	34	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,2-Dichloropropane	<23		120	23	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,3,5-Trimethylbenzene	<25		240	25	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,3-Dichlorobenzene	<31		240	31	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,3-Dichloropropane	<16		120	16	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
1,4-Dichlorobenzene	<21		240	21	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
2,2-Dichloropropane	<38		120	38	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
2-Chlorotoluene	<25		120	25	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
4-Chlorotoluene	<24		120	24	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Benzene	<8.9		30	8.9	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Bromobenzene	<51		240	51	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Bromochloromethane	<45		240	45	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Bromodichloromethane	<40		240	40	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Bromoform	<53		240	53	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Bromomethane	<82		240	82	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Carbon tetrachloride	<31		120	31	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Chlorobenzene	<17		120	17	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Chloroethane	<52		240	52	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Chloroform	<25		120	25	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Chloromethane	<55		240	55	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
cis-1,2-Dichloroethene	<15		120	15	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
cis-1,3-Dichloropropene	<21		120	21	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50

Client Sample ID: 6142-B-17 (2.5-5)

Lab Sample ID: 500-51820-6

Date Collected: 10/22/12 09:00
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 88.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<41		240	41	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Dibromomethane	<58		240	58	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Dichlorodifluoromethane	<61		240	61	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Ethylbenzene	<15		30	15	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Hexachlorobutadiene	<41		240	41	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Isopropyl ether	<18		240	18	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Isopropylbenzene	<30		240	30	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Methyl tert-butyl ether	<52		240	52	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Methylene Chloride	<82		600	82	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Naphthalene	<59		240	59	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
n-Butylbenzene	<15		120	15	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
N-Propylbenzene	<21		240	21	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
p-Isopropyltoluene	<22		240	22	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
sec-Butylbenzene	<18		120	18	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Styrene	<12		120	12	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
tert-Butylbenzene	<16		120	16	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Tetrachloroethene	<20		120	20	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Toluene	<14		30	14	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
trans-1,2-Dichloroethene	<30		120	30	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
trans-1,3-Dichloropropene	<25		120	25	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Trichloroethene	<22		60	22	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Trichlorofluoromethane	<50		240	50	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Vinyl chloride	<12		30	12	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50
Xylenes, Total	<8.2		60	8.2	ug/Kg	☼	10/22/12 09:00	11/02/12 18:20	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 131*	*10/22/12 09:00*	*11/02/12 18:20*	*50*
4-Bromofluorobenzene (Surr)	*96*		*79 - 120*	*10/22/12 09:00*	*11/02/12 18:20*	*50*
Dibromofluoromethane	*97*		*74 - 123*	*10/22/12 09:00*	*11/02/12 18:20*	*50*
Toluene-d8 (Surr)	*97*		*80 - 120*	*10/22/12 09:00*	*11/02/12 18:20*	*50*

Client Sample ID: 6142-B-17 (12.5-15)

Lab Sample ID: 500-51820-7

Date Collected: 10/22/12 09:00
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 97.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<39		230	39	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,1,1-Trichloroethane	<23		110	23	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,1,2,2-Tetrachloroethane	<27		110	27	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,1,2-Trichloroethane	<32		110	32	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,1-Dichloroethane	<21		110	21	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,1-Dichloroethene	<35		110	35	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,1-Dichloropropene	<39		110	39	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,2,3-Trichlorobenzene	<40		230	40	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,2,3-Trichloropropane	<65		230	65	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,2,4-Trichlorobenzene	<43		230	43	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,2,4-Trimethylbenzene	<24		230	24	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,2-Dibromo-3-Chloropropane	<99		230	99	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,2-Dibromoethane	<36		230	36	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,2-Dichlorobenzene	<23		230	23	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50

Client Sample ID: 6142-B-17 (12.5-15)
Date Collected: 10/22/12 09:00
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51820-7
Matrix: Solid
Percent Solids: 97.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<32		110	32	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,2-Dichloropropane	<22		110	22	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,3,5-Trimethylbenzene	<23		230	23	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,3-Dichlorobenzene	<29		230	29	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,3-Dichloropropane	<15		110	15	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
1,4-Dichlorobenzene	<20		230	20	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
2,2-Dichloropropane	<36		110	36	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
2-Chlorotoluene	<24		110	24	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
4-Chlorotoluene	<22		110	22	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Benzene	<8.4		28	8.4	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Bromobenzene	<48		230	48	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Bromochloromethane	<43		230	43	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Bromodichloromethane	<38		230	38	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Bromoform	<50		230	50	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Bromomethane	<77		230	77	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Carbon tetrachloride	<29		110	29	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Chlorobenzene	<16		110	16	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Chloroethane	<49		230	49	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Chloroform	<23		110	23	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Chloromethane	<52		230	52	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
cis-1,2-Dichloroethene	<14		110	14	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
cis-1,3-Dichloropropene	<20		110	20	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Dibromochloromethane	<39		230	39	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Dibromomethane	<54		230	54	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Dichlorodifluoromethane	<58		230	58	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Ethylbenzene	<14		28	14	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Hexachlorobutadiene	<39		230	39	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Isopropyl ether	<17		230	17	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Isopropylbenzene	<28		230	28	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Methyl tert-butyl ether	<49		230	49	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Methylene Chloride	<78		570	78	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Naphthalene	<56		230	56	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
n-Butylbenzene	<15		110	15	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
N-Propylbenzene	<20		230	20	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
p-Isopropyltoluene	<21		230	21	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
sec-Butylbenzene	<17		110	17	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Styrene	<11		110	11	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
tert-Butylbenzene	<15		110	15	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Tetrachloroethene	<19		110	19	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Toluene	<13		28	13	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
trans-1,2-Dichloroethene	<28		110	28	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
trans-1,3-Dichloropropene	<24		110	24	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Trichloroethene	<21		57	21	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Trichlorofluoromethane	<47		230	47	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Vinyl chloride	<12		28	12	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50
Xylenes, Total	<7.8		57	7.8	ug/Kg	☼	10/22/12 09:00	11/02/12 18:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 131*	*10/22/12 09:00*	*11/02/12 18:44*	*50*
4-Bromofluorobenzene (Surr)	*96*		*79 - 120*	*10/22/12 09:00*	*11/02/12 18:44*	*50*
Dibromofluoromethane	*94*		*74 - 123*	*10/22/12 09:00*	*11/02/12 18:44*	*50*

Client Sample ID: 6142-B-17 (12.5-15)

Lab Sample ID: 500-51820-7

Date Collected: 10/22/12 09:00
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 97.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*	*10/22/12 09:00*	*11/02/12 18:44*	*50*

Client Sample ID: 6142-B-18 (5-7.5)

Lab Sample ID: 500-51820-8

Date Collected: 10/22/12 10:00
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 95.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<37		220	37	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,1,1-Trichloroethane	<22		110	22	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,1,2,2-Tetrachloroethane	<25		110	25	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,1,2-Trichloroethane	<30		110	30	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,1-Dichloroethane	<20		110	20	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,1-Dichloroethene	<33		110	33	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,1-Dichloropropene	<37		110	37	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,2,3-Trichlorobenzene	<38		220	38	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,2,3-Trichloropropane	<62		220	62	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,2,4-Trichlorobenzene	<41		220	41	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,2,4-Trimethylbenzene	<23		220	23	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,2-Dibromo-3-Chloropropane	<94		220	94	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,2-Dibromoethane	<34		220	34	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,2-Dichlorobenzene	<22		220	22	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,2-Dichloroethane	<31		110	31	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,2-Dichloropropane	<21		110	21	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,3,5-Trimethylbenzene	<22		220	22	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,3-Dichlorobenzene	<28		220	28	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,3-Dichloropropane	<14		110	14	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
1,4-Dichlorobenzene	<19		220	19	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
2,2-Dichloropropane	<34		110	34	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
2-Chlorotoluene	<22		110	22	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
4-Chlorotoluene	<21		110	21	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Benzene	<8.0		27	8.0	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Bromobenzene	<46		220	46	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Bromochloromethane	<41		220	41	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Bromodichloromethane	<37		220	37	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Bromoform	<48		220	48	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Bromomethane	<74		220	74	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Carbon tetrachloride	<28		110	28	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Chlorobenzene	<15		110	15	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Chloroethane	<47		220	47	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Chloroform	<22		110	22	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Chloromethane	<50		220	50	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
cis-1,2-Dichloroethene	<13		110	13	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
cis-1,3-Dichloropropene	<19		110	19	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Dibromochloromethane	<37		220	37	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Dibromomethane	<52		220	52	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Dichlorodifluoromethane	<55		220	55	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Ethylbenzene	<14		27	14	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Hexachlorobutadiene	<37		220	37	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Isopropyl ether	<16		220	16	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Isopropylbenzene	<27		220	27	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50

Client Sample ID: 6142-B-18 (5-7.5)

Lab Sample ID: 500-51820-8

Date Collected: 10/22/12 10:00
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 95.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<46		220	46	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Methylene Chloride	<74		540	74	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Naphthalene	<53		220	53	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
n-Butylbenzene	<14		110	14	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
N-Propylbenzene	<19		220	19	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
p-Isopropyltoluene	<20		220	20	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
sec-Butylbenzene	<17		110	17	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Styrene	<11		110	11	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
tert-Butylbenzene	<15		110	15	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Tetrachloroethene	**540**		110	18	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Toluene	<12		27	12	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
trans-1,2-Dichloroethene	<27		110	27	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
trans-1,3-Dichloropropene	<22		110	22	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Trichloroethene	<20		54	20	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Trichlorofluoromethane	<45		220	45	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Vinyl chloride	<11		27	11	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50
Xylenes, Total	<7.4		54	7.4	ug/Kg	☼	10/22/12 10:00	11/02/12 19:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 131*	*10/22/12 10:00*	*11/02/12 19:08*	*50*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*	*10/22/12 10:00*	*11/02/12 19:08*	*50*
Dibromofluoromethane	*98*		*74 - 123*	*10/22/12 10:00*	*11/02/12 19:08*	*50*
Toluene-d8 (Surr)	*97*		*80 - 120*	*10/22/12 10:00*	*11/02/12 19:08*	*50*

Client Sample ID: 6142-B-18 (12.5-15)

Lab Sample ID: 500-51820-9

Date Collected: 10/22/12 10:00
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 94.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<33		190	33	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,1,1-Trichloroethane	<19		95	19	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,1,2,2-Tetrachloroethane	<22		95	22	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,1,2-Trichloroethane	<27		95	27	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,1-Dichloroethane	<18		95	18	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,1-Dichloroethene	<29		95	29	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,1-Dichloropropene	<33		95	33	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,2,3-Trichlorobenzene	<33		190	33	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,2,3-Trichloropropane	<55		190	55	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,2,4-Trichlorobenzene	<36		190	36	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,2,4-Trimethylbenzene	<20		190	20	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,2-Dibromo-3-Chloropropane	<83		190	83	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,2-Dibromoethane	<30		190	30	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,2-Dichlorobenzene	<20		190	20	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,2-Dichloroethane	<27		95	27	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,2-Dichloropropane	<19		95	19	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,3,5-Trimethylbenzene	<20		190	20	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,3-Dichlorobenzene	<24		190	24	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,3-Dichloropropane	<13		95	13	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
1,4-Dichlorobenzene	<17		190	17	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
2,2-Dichloropropane	<30		95	30	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50

Client Sample ID: 6142-B-18 (12.5-15)
Date Collected: 10/22/12 10:00
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51820-9
Matrix: Solid
Percent Solids: 94.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	<20		95	20	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
4-Chlorotoluene	<19		95	19	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Benzene	<7.1		24	7.1	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Bromobenzene	<41		190	41	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Bromochloromethane	<36		190	36	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Bromodichloromethane	<32		190	32	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Bromoform	<42		190	42	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Bromomethane	<65		190	65	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Carbon tetrachloride	<24		95	24	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Chlorobenzene	<14		95	14	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Chloroethane	<41		190	41	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Chloroform	<20		95	20	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Chloromethane	<44		190	44	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
cis-1,2-Dichloroethene	<12		95	12	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
cis-1,3-Dichloropropene	<17		95	17	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Dibromochloromethane	<33		190	33	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Dibromomethane	<46		190	46	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Dichlorodifluoromethane	<49		190	49	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Ethylbenzene	<12		24	12	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Hexachlorobutadiene	<33		190	33	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Isopropyl ether	<14		190	14	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Isopropylbenzene	<24		190	24	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Methyl tert-butyl ether	<41		190	41	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Methylene Chloride	<65		480	65	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Naphthalene	<47		190	47	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
n-Butylbenzene	<12		95	12	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
N-Propylbenzene	<17		190	17	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
p-Isopropyltoluene	<18		190	18	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
sec-Butylbenzene	<15		95	15	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Styrene	<9.4		95	9.4	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
tert-Butylbenzene	<13		95	13	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Tetrachloroethene	**1700**		95	16	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Toluene	<11		24	11	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
trans-1,2-Dichloroethene	<24		95	24	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
trans-1,3-Dichloropropene	<20		95	20	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Trichloroethene	<18		48	18	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Trichlorofluoromethane	<40		190	40	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Vinyl chloride	<9.9		24	9.9	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50
Xylenes, Total	<6.5		48	6.5	ug/Kg	☼	10/22/12 10:00	11/02/12 19:32	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 131*	*10/22/12 10:00*	*11/02/12 19:32*	*50*
4-Bromofluorobenzene (Surr)	*94*		*79 - 120*	*10/22/12 10:00*	*11/02/12 19:32*	*50*
Dibromofluoromethane	*97*		*74 - 123*	*10/22/12 10:00*	*11/02/12 19:32*	*50*
Toluene-d8 (Surr)	*95*		*80 - 120*	*10/22/12 10:00*	*11/02/12 19:32*	*50*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration
RL	Reporting Limit or Requested Limit (Radiochemistry only)

QC Association Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51820-1

GC/MS VOA

Prep Batch: 168097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-51820-1	6142-B-15 (2.5-5)	Total/NA	Solid	5035	
500-51820-1 - DL	6142-B-15 (2.5-5)	Total/NA	Solid	5035	
500-51820-2	6142-B-15 (10-12.5)	Total/NA	Solid	5035	
500-51820-3	6142-B-16 (2.5-5)	Total/NA	Solid	5035	
500-51820-4	6142-B-16 (10-12.5)	Total/NA	Solid	5035	
500-51820-5	6142-B-16 (15-17.5)	Total/NA	Solid	5035	
500-51820-6	6142-B-17 (2.5-5)	Total/NA	Solid	5035	
500-51820-7	6142-B-17 (12.5-15)	Total/NA	Solid	5035	
500-51820-8	6142-B-18 (5-7.5)	Total/NA	Solid	5035	
500-51820-9	6142-B-18 (12.5-15)	Total/NA	Solid	5035	
LB3 500-168097/10-A LB3	Method Blank	Total/NA	Solid	5035	
LCS 500-168097/11-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 168258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-51820-1	6142-B-15 (2.5-5)	Total/NA	Solid	8260B	168097
500-51820-1 - DL	6142-B-15 (2.5-5)	Total/NA	Solid	8260B	168097
500-51820-2	6142-B-15 (10-12.5)	Total/NA	Solid	8260B	168097
500-51820-3	6142-B-16 (2.5-5)	Total/NA	Solid	8260B	168097
500-51820-4	6142-B-16 (10-12.5)	Total/NA	Solid	8260B	168097
500-51820-5	6142-B-16 (15-17.5)	Total/NA	Solid	8260B	168097
500-51820-6	6142-B-17 (2.5-5)	Total/NA	Solid	8260B	168097
500-51820-7	6142-B-17 (12.5-15)	Total/NA	Solid	8260B	168097
500-51820-8	6142-B-18 (5-7.5)	Total/NA	Solid	8260B	168097
500-51820-9	6142-B-18 (12.5-15)	Total/NA	Solid	8260B	168097
LB3 500-168097/10-A LB3	Method Blank	Total/NA	Solid	8260B	168097
LCS 500-168097/11-A	Lab Control Sample	Total/NA	Solid	8260B	168097
LCS 500-168258/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-168258/6	Method Blank	Total/NA	Solid	8260B	

General Chemistry

Analysis Batch: 167779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-51820-1	6142-B-15 (2.5-5)	Total/NA	Solid	Moisture	
500-51820-2	6142-B-15 (10-12.5)	Total/NA	Solid	Moisture	
500-51820-3	6142-B-16 (2.5-5)	Total/NA	Solid	Moisture	
500-51820-4	6142-B-16 (10-12.5)	Total/NA	Solid	Moisture	
500-51820-5	6142-B-16 (15-17.5)	Total/NA	Solid	Moisture	
500-51820-6	6142-B-17 (2.5-5)	Total/NA	Solid	Moisture	
500-51820-7	6142-B-17 (12.5-15)	Total/NA	Solid	Moisture	
500-51820-8	6142-B-18 (5-7.5)	Total/NA	Solid	Moisture	
500-51820-9	6142-B-18 (12.5-15)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51820-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-131)	(79-120)	(74-123)	(80-120)
500-51820-1	6142-B-15 (2.5-5)	99	99	97	97
500-51820-1 - DL	6142-B-15 (2.5-5)	97	96	98	96
500-51820-2	6142-B-15 (10-12.5)	99	98	98	99
500-51820-3	6142-B-16 (2.5-5)	98	92	97	96
500-51820-4	6142-B-16 (10-12.5)	100	97	99	99
500-51820-5	6142-B-16 (15-17.5)	99	100	97	98
500-51820-6	6142-B-17 (2.5-5)	99	96	97	97
500-51820-7	6142-B-17 (12.5-15)	98	96	94	98
500-51820-8	6142-B-18 (5-7.5)	102	97	98	97
500-51820-9	6142-B-18 (12.5-15)	99	94	97	95
LB3 500-168097/10-A LB3	Method Blank	101	96	97	97
LCS 500-168097/11-A	Lab Control Sample	98	99	100	99
LCS 500-168258/4	Lab Control Sample	96	99	98	101
MB 500-168258/6	Method Blank	99	96	96	97

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Case Narrative

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51821-1

Job ID: 500-51821-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-51821-1

Comments
No additional comments.

Receipt
The samples were received on 10/29/2012 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.0° C.

GC/MS VOA
No analytical or quality issues were noted.

Detection Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51821-1

Client Sample ID: 6142-B-17 (16.5W) — **Lab Sample ID: 500-51821-1**

No Detections

Client Sample ID: 6142-DUP — **Lab Sample ID: 500-51821-2**

No Detections

Method Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51821-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51821-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-51821-1	6142-B-17 (16.5W)	Water	10/22/12 09:05	10/29/12 09:50
500-51821-2	6142-DUP	Water	10/22/12 00:00	10/29/12 09:50

Client Sample ID: 6142-B-17 (16.5W)
Date Collected: 10/22/12 09:05
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51821-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/01/12 17:59	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/01/12 17:59	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/01/12 17:59	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/01/12 17:59	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/01/12 17:59	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/01/12 17:59	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/01/12 17:59	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/01/12 17:59	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/01/12 17:59	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/01/12 17:59	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/01/12 17:59	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/01/12 17:59	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/01/12 17:59	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/01/12 17:59	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/01/12 17:59	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/01/12 17:59	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/01/12 17:59	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/01/12 17:59	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/01/12 17:59	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/01/12 17:59	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/01/12 17:59	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/01/12 17:59	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/01/12 17:59	1
Benzene	<0.074		0.50	0.074	ug/L			11/01/12 17:59	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/01/12 17:59	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/01/12 17:59	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/01/12 17:59	1
Bromoform	<0.28		1.0	0.28	ug/L			11/01/12 17:59	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/01/12 17:59	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/01/12 17:59	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/01/12 17:59	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/01/12 17:59	1
Chloroform	<0.20		1.0	0.20	ug/L			11/01/12 17:59	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/01/12 17:59	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			11/01/12 17:59	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/01/12 17:59	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/01/12 17:59	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/01/12 17:59	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/01/12 17:59	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/01/12 17:59	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/01/12 17:59	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/01/12 17:59	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/01/12 17:59	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/01/12 17:59	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/01/12 17:59	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/01/12 17:59	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/01/12 17:59	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/01/12 17:59	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/01/12 17:59	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/01/12 17:59	1
Styrene	<0.10		1.0	0.10	ug/L			11/01/12 17:59	1

Client Sample ID: 6142-B-17 (16.5W)

Lab Sample ID: 500-51821-1

Date Collected: 10/22/12 09:05
Matrix: Water
Date Received: 10/29/12 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/01/12 17:59	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			11/01/12 17:59	1
Toluene	<0.11		0.50	0.11	ug/L			11/01/12 17:59	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/01/12 17:59	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/01/12 17:59	1
Trichloroethene	<0.19		0.50	0.19	ug/L			11/01/12 17:59	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/01/12 17:59	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/01/12 17:59	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/01/12 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 131*		*11/01/12 17:59*	*1*
4-Bromofluorobenzene (Surr)	*92*		*79 - 120*		*11/01/12 17:59*	*1*
Dibromofluoromethane	*101*		*74 - 123*		*11/01/12 17:59*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/01/12 17:59*	*1*

Client Sample ID: 6142-DUP

Lab Sample ID: 500-51821-2

Date Collected: 10/22/12 00:00
Matrix: Water
Date Received: 10/29/12 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/01/12 18:23	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/01/12 18:23	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/01/12 18:23	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/01/12 18:23	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/01/12 18:23	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/01/12 18:23	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/01/12 18:23	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/01/12 18:23	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/01/12 18:23	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/01/12 18:23	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/01/12 18:23	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/01/12 18:23	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/01/12 18:23	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/01/12 18:23	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/01/12 18:23	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/01/12 18:23	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/01/12 18:23	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/01/12 18:23	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/01/12 18:23	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/01/12 18:23	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/01/12 18:23	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/01/12 18:23	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/01/12 18:23	1
Benzene	<0.074		0.50	0.074	ug/L			11/01/12 18:23	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/01/12 18:23	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/01/12 18:23	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/01/12 18:23	1
Bromoform	<0.28		1.0	0.28	ug/L			11/01/12 18:23	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/01/12 18:23	1

Client Sample ID: 6142-DUP
Date Collected: 10/22/12 00:00
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51821-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/01/12 18:23	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/01/12 18:23	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/01/12 18:23	1
Chloroform	<0.20		1.0	0.20	ug/L			11/01/12 18:23	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/01/12 18:23	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			11/01/12 18:23	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/01/12 18:23	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/01/12 18:23	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/01/12 18:23	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/01/12 18:23	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/01/12 18:23	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/01/12 18:23	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/01/12 18:23	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/01/12 18:23	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/01/12 18:23	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/01/12 18:23	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/01/12 18:23	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/01/12 18:23	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/01/12 18:23	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/01/12 18:23	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/01/12 18:23	1
Styrene	<0.10		1.0	0.10	ug/L			11/01/12 18:23	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/01/12 18:23	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			11/01/12 18:23	1
Toluene	<0.11		0.50	0.11	ug/L			11/01/12 18:23	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/01/12 18:23	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/01/12 18:23	1
Trichloroethene	<0.19		0.50	0.19	ug/L			11/01/12 18:23	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/01/12 18:23	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/01/12 18:23	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/01/12 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 131*		*11/01/12 18:23*	*1*
4-Bromofluorobenzene (Surr)	*88*		*79 - 120*		*11/01/12 18:23*	*1*
Dibromofluoromethane	*97*		*74 - 123*		*11/01/12 18:23*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/01/12 18:23*	*1*

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration
RL	Reporting Limit or Requested Limit (Radiochemistry only)

QC Association Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51821-1

GC/MS VOA

Analysis Batch: 168114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-51821-1	6142-B-17 (16.5W)	Total/NA	Water	8260B	
500-51821-2	6142-DUP	Total/NA	Water	8260B	
LCS 500-168114/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-168114/6	Method Blank	Total/NA	Water	8260B	

Surrogate Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51821-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-131)	(79-120)	(74-123)	(80-120)
500-51821-1	6142-B-17 (16.5W)	103	92	101	97
500-51821-2	6142-DUP	99	88	97	96
LCS 500-168114/4	Lab Control Sample	94	100	100	97
MB 500-168114/6	Method Blank	98	94	103	98

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Case Narrative

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51819-1

Job ID: 500-51819-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-51819-1

Comments
No additional comments.

Receipt
The samples were received on 10/29/2012 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.0° C.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) for Chloroethane associated with batch 168421 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

Detection Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51819-1

Client Sample ID: 6142-MW-1 — Lab Sample ID: 500-51819-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4		1.0	0.12	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.1		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: 6142-MW-2 — Lab Sample ID: 500-51819-2

No Detections

Client Sample ID: 6142-MW-3 — Lab Sample ID: 500-51819-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.83	J	1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: 6142-MW-4 — Lab Sample ID: 500-51819-4

No Detections

Client Sample ID: 6142-MW-5 — Lab Sample ID: 500-51819-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.95	J	1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: 6142-MW-6 — Lab Sample ID: 500-51819-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.1		1.0	0.12	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.73	J	1.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	11		0.50	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	0.80		0.50	0.10	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	540		10	1.7	ug/L	10		8260B	Total/NA

Client Sample ID: 6142-DUP — Lab Sample ID: 500-51819-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.0		1.0	0.17	ug/L	1		8260B	Total/NA

Method Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51819-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51819-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-51819-1	6142-MW-1	Water	10/24/12 14:30	10/29/12 09:50
500-51819-2	6142-MW-2	Water	10/24/12 13:15	10/29/12 09:50
500-51819-3	6142-MW-3	Water	10/24/12 15:15	10/29/12 09:50
500-51819-4	6142-MW-4	Water	10/24/12 12:10	10/29/12 09:50
500-51819-5	6142-MW-5	Water	10/24/12 13:00	10/29/12 09:50
500-51819-6	6142-MW-6	Water	10/24/12 13:45	10/29/12 09:50
500-51819-7	6142-DUP	Water	10/24/12 00:00	10/29/12 09:50

Client Sample ID: 6142-MW-1
Date Collected: 10/24/12 14:30
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51819-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/03/12 21:39	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/03/12 21:39	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/03/12 21:39	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/03/12 21:39	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/03/12 21:39	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/03/12 21:39	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/03/12 21:39	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/03/12 21:39	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/03/12 21:39	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/03/12 21:39	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 21:39	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/03/12 21:39	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/03/12 21:39	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/03/12 21:39	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/03/12 21:39	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/03/12 21:39	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/03/12 21:39	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/12 21:39	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/03/12 21:39	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/12 21:39	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/03/12 21:39	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/03/12 21:39	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/03/12 21:39	1
Benzene	<0.074		0.50	0.074	ug/L			11/03/12 21:39	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/03/12 21:39	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/03/12 21:39	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/03/12 21:39	1
Bromoform	<0.28		1.0	0.28	ug/L			11/03/12 21:39	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/03/12 21:39	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/03/12 21:39	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/03/12 21:39	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/03/12 21:39	1
Chloroform	<0.20		1.0	0.20	ug/L			11/03/12 21:39	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/03/12 21:39	1
cis-1,2-Dichloroethene	**1.4**		1.0	0.12	ug/L			11/03/12 21:39	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/03/12 21:39	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/03/12 21:39	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/03/12 21:39	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/03/12 21:39	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/03/12 21:39	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/03/12 21:39	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/03/12 21:39	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 21:39	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/03/12 21:39	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/03/12 21:39	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/03/12 21:39	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/03/12 21:39	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/03/12 21:39	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/03/12 21:39	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/03/12 21:39	1
Styrene	<0.10		1.0	0.10	ug/L			11/03/12 21:39	1

Client Sample ID: 6142-MW-1

Lab Sample ID: 500-51819-1

Date Collected: 10/24/12 14:30

Matrix: Water

Date Received: 10/29/12 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 21:39	1
Tetrachloroethene	**1.1**		1.0	0.17	ug/L			11/03/12 21:39	1
Toluene	<0.11		0.50	0.11	ug/L			11/03/12 21:39	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/03/12 21:39	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/03/12 21:39	1
Trichloroethene	<0.19		0.50	0.19	ug/L			11/03/12 21:39	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/03/12 21:39	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/03/12 21:39	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/03/12 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 131*		*11/03/12 21:39*	*1*
4-Bromofluorobenzene (Surr)	*95*		*79 - 120*		*11/03/12 21:39*	*1*
Dibromofluoromethane	*96*		*74 - 123*		*11/03/12 21:39*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/03/12 21:39*	*1*

Client Sample ID: 6142-MW-2

Lab Sample ID: 500-51819-2

Date Collected: 10/24/12 13:15

Matrix: Water

Date Received: 10/29/12 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/03/12 22:04	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/03/12 22:04	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/03/12 22:04	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/03/12 22:04	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/03/12 22:04	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/03/12 22:04	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/03/12 22:04	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/03/12 22:04	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/03/12 22:04	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/03/12 22:04	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 22:04	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/03/12 22:04	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/03/12 22:04	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/03/12 22:04	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/03/12 22:04	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/03/12 22:04	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/03/12 22:04	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/12 22:04	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/03/12 22:04	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/12 22:04	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/03/12 22:04	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/03/12 22:04	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/03/12 22:04	1
Benzene	<0.074		0.50	0.074	ug/L			11/03/12 22:04	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/03/12 22:04	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/03/12 22:04	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/03/12 22:04	1
Bromoform	<0.28		1.0	0.28	ug/L			11/03/12 22:04	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/03/12 22:04	1

Client Sample ID: 6142-MW-2

Lab Sample ID: 500-51819-2

Date Collected: 10/24/12 13:15
Matrix: Water
Date Received: 10/29/12 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/03/12 22:04	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/03/12 22:04	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/03/12 22:04	1
Chloroform	<0.20		1.0	0.20	ug/L			11/03/12 22:04	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/03/12 22:04	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			11/03/12 22:04	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/03/12 22:04	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/03/12 22:04	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/03/12 22:04	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/03/12 22:04	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/03/12 22:04	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/03/12 22:04	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/03/12 22:04	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 22:04	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/03/12 22:04	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/03/12 22:04	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/03/12 22:04	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/03/12 22:04	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/03/12 22:04	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/03/12 22:04	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/03/12 22:04	1
Styrene	<0.10		1.0	0.10	ug/L			11/03/12 22:04	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 22:04	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			11/03/12 22:04	1
Toluene	<0.11		0.50	0.11	ug/L			11/03/12 22:04	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/03/12 22:04	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/03/12 22:04	1
Trichloroethene	<0.19		0.50	0.19	ug/L			11/03/12 22:04	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/03/12 22:04	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/03/12 22:04	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/03/12 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 131*		*11/03/12 22:04*	*1*
4-Bromofluorobenzene (Surr)	*95*		*79 - 120*		*11/03/12 22:04*	*1*
Dibromofluoromethane	*93*		*74 - 123*		*11/03/12 22:04*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/03/12 22:04*	*1*

Client Sample ID: 6142-MW-3

Lab Sample ID: 500-51819-3

Date Collected: 10/24/12 15:15
Matrix: Water
Date Received: 10/29/12 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/03/12 22:29	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/03/12 22:29	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/03/12 22:29	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/03/12 22:29	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/03/12 22:29	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/03/12 22:29	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/03/12 22:29	1

Client Sample ID: 6142-MW-3
Date Collected: 10/24/12 15:15
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51819-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/03/12 22:29	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/03/12 22:29	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/03/12 22:29	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 22:29	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/03/12 22:29	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/03/12 22:29	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/03/12 22:29	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/03/12 22:29	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/03/12 22:29	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/03/12 22:29	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/12 22:29	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/03/12 22:29	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/12 22:29	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/03/12 22:29	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/03/12 22:29	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/03/12 22:29	1
Benzene	<0.074		0.50	0.074	ug/L			11/03/12 22:29	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/03/12 22:29	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/03/12 22:29	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/03/12 22:29	1
Bromoform	<0.28		1.0	0.28	ug/L			11/03/12 22:29	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/03/12 22:29	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/03/12 22:29	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/03/12 22:29	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/03/12 22:29	1
Chloroform	<0.20		1.0	0.20	ug/L			11/03/12 22:29	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/03/12 22:29	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			11/03/12 22:29	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/03/12 22:29	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/03/12 22:29	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/03/12 22:29	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/03/12 22:29	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/03/12 22:29	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/03/12 22:29	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/03/12 22:29	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 22:29	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/03/12 22:29	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/03/12 22:29	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/03/12 22:29	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/03/12 22:29	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/03/12 22:29	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/03/12 22:29	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/03/12 22:29	1
Styrene	<0.10		1.0	0.10	ug/L			11/03/12 22:29	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 22:29	1
Tetrachloroethene	**0.83**	**J**	1.0	0.17	ug/L			11/03/12 22:29	1
Toluene	<0.11		0.50	0.11	ug/L			11/03/12 22:29	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/03/12 22:29	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/03/12 22:29	1
Trichloroethene	<0.19		0.50	0.19	ug/L			11/03/12 22:29	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/03/12 22:29	1

Client Sample ID: 6142-MW-3

Date Collected: 10/24/12 15:15
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51819-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/03/12 22:29	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/03/12 22:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 131*		*11/03/12 22:29*	*1*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*		*11/03/12 22:29*	*1*
Dibromofluoromethane	*96*		*74 - 123*		*11/03/12 22:29*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/03/12 22:29*	*1*

Client Sample ID: 6142-MW-4

Date Collected: 10/24/12 12:10
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51819-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/03/12 22:54	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/03/12 22:54	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/03/12 22:54	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/03/12 22:54	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/03/12 22:54	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/03/12 22:54	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/03/12 22:54	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/03/12 22:54	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/03/12 22:54	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/03/12 22:54	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 22:54	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/03/12 22:54	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/03/12 22:54	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/03/12 22:54	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/03/12 22:54	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/03/12 22:54	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/03/12 22:54	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/12 22:54	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/03/12 22:54	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/12 22:54	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/03/12 22:54	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/03/12 22:54	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/03/12 22:54	1
Benzene	<0.074		0.50	0.074	ug/L			11/03/12 22:54	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/03/12 22:54	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/03/12 22:54	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/03/12 22:54	1
Bromoform	<0.28		1.0	0.28	ug/L			11/03/12 22:54	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/03/12 22:54	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/03/12 22:54	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/03/12 22:54	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/03/12 22:54	1
Chloroform	<0.20		1.0	0.20	ug/L			11/03/12 22:54	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/03/12 22:54	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			11/03/12 22:54	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/03/12 22:54	1

Client Sample ID: 6142-MW-4

Lab Sample ID: 500-51819-4

Date Collected: 10/24/12 12:10

Matrix: Water

Date Received: 10/29/12 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/03/12 22:54	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/03/12 22:54	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/03/12 22:54	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/03/12 22:54	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/03/12 22:54	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/03/12 22:54	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 22:54	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/03/12 22:54	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/03/12 22:54	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/03/12 22:54	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/03/12 22:54	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/03/12 22:54	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/03/12 22:54	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/03/12 22:54	1
Styrene	<0.10		1.0	0.10	ug/L			11/03/12 22:54	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 22:54	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			11/03/12 22:54	1
Toluene	<0.11		0.50	0.11	ug/L			11/03/12 22:54	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/03/12 22:54	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/03/12 22:54	1
Trichloroethene	<0.19		0.50	0.19	ug/L			11/03/12 22:54	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/03/12 22:54	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/03/12 22:54	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/03/12 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 131*		*11/03/12 22:54*	*1*
4-Bromofluorobenzene (Surr)	*95*		*79 - 120*		*11/03/12 22:54*	*1*
Dibromofluoromethane	*99*		*74 - 123*		*11/03/12 22:54*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*11/03/12 22:54*	*1*

Client Sample ID: 6142-MW-5

Lab Sample ID: 500-51819-5

Date Collected: 10/24/12 13:00

Matrix: Water

Date Received: 10/29/12 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/03/12 23:20	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/03/12 23:20	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/03/12 23:20	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/03/12 23:20	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/03/12 23:20	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/03/12 23:20	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/03/12 23:20	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/03/12 23:20	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/03/12 23:20	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/03/12 23:20	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 23:20	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/03/12 23:20	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/03/12 23:20	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/03/12 23:20	1

Client Sample ID: 6142-MW-5
Date Collected: 10/24/12 13:00
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51819-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/03/12 23:20	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/03/12 23:20	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/03/12 23:20	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/12 23:20	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/03/12 23:20	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/12 23:20	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/03/12 23:20	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/03/12 23:20	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/03/12 23:20	1
Benzene	<0.074		0.50	0.074	ug/L			11/03/12 23:20	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/03/12 23:20	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/03/12 23:20	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/03/12 23:20	1
Bromoform	<0.28		1.0	0.28	ug/L			11/03/12 23:20	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/03/12 23:20	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/03/12 23:20	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/03/12 23:20	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/03/12 23:20	1
Chloroform	<0.20		1.0	0.20	ug/L			11/03/12 23:20	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/03/12 23:20	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			11/03/12 23:20	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/03/12 23:20	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/03/12 23:20	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/03/12 23:20	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/03/12 23:20	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/03/12 23:20	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/03/12 23:20	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/03/12 23:20	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 23:20	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/03/12 23:20	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/03/12 23:20	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/03/12 23:20	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/03/12 23:20	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/03/12 23:20	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/03/12 23:20	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/03/12 23:20	1
Styrene	<0.10		1.0	0.10	ug/L			11/03/12 23:20	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 23:20	1
Tetrachloroethene	**0.95**	**J**	1.0	0.17	ug/L			11/03/12 23:20	1
Toluene	<0.11		0.50	0.11	ug/L			11/03/12 23:20	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/03/12 23:20	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/03/12 23:20	1
Trichloroethene	<0.19		0.50	0.19	ug/L			11/03/12 23:20	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/03/12 23:20	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/03/12 23:20	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/03/12 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 131*		*11/03/12 23:20*	*1*
4-Bromofluorobenzene (Surr)	*96*		*79 - 120*		*11/03/12 23:20*	*1*
Dibromofluoromethane	*95*		*74 - 123*		*11/03/12 23:20*	*1*

Client Sample ID: 6142-MW-5
Date Collected: 10/24/12 13:00
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51819-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/03/12 23:20*	*1*

Client Sample ID: 6142-MW-6
Date Collected: 10/24/12 13:45
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51819-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/03/12 23:45	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/03/12 23:45	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/03/12 23:45	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/03/12 23:45	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/03/12 23:45	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/03/12 23:45	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/03/12 23:45	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/03/12 23:45	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/03/12 23:45	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/03/12 23:45	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 23:45	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/03/12 23:45	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/03/12 23:45	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/03/12 23:45	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/03/12 23:45	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/03/12 23:45	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/03/12 23:45	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/12 23:45	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/03/12 23:45	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/12 23:45	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/03/12 23:45	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/03/12 23:45	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/03/12 23:45	1
Benzene	<0.074		0.50	0.074	ug/L			11/03/12 23:45	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/03/12 23:45	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/03/12 23:45	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/03/12 23:45	1
Bromoform	<0.28		1.0	0.28	ug/L			11/03/12 23:45	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/03/12 23:45	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/03/12 23:45	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/03/12 23:45	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/03/12 23:45	1
Chloroform	<0.20		1.0	0.20	ug/L			11/03/12 23:45	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/03/12 23:45	1
cis-1,2-Dichloroethene	5.1		1.0	0.12	ug/L			11/03/12 23:45	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/03/12 23:45	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/03/12 23:45	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/03/12 23:45	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/03/12 23:45	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/03/12 23:45	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/03/12 23:45	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/03/12 23:45	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 23:45	1

Client Sample ID: 6142-MW-6

Date Collected: 10/24/12 13:45
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51819-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/03/12 23:45	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/03/12 23:45	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/03/12 23:45	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/03/12 23:45	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/03/12 23:45	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/03/12 23:45	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/03/12 23:45	1
Styrene	<0.10		1.0	0.10	ug/L			11/03/12 23:45	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/03/12 23:45	1
Toluene	<0.11		0.50	0.11	ug/L			11/03/12 23:45	1
trans-1,2-Dichloroethene	**0.73**	**J**	1.0	0.25	ug/L			11/03/12 23:45	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/03/12 23:45	1
Trichloroethene	**11**		0.50	0.19	ug/L			11/03/12 23:45	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/03/12 23:45	1
Vinyl chloride	**0.80**		0.50	0.10	ug/L			11/03/12 23:45	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/03/12 23:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 131*		*11/03/12 23:45*	*1*
4-Bromofluorobenzene (Surr)	*94*		*79 - 120*		*11/03/12 23:45*	*1*
Dibromofluoromethane	*97*		*74 - 123*		*11/03/12 23:45*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/03/12 23:45*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**540**		10	1.7	ug/L			11/04/12 00:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 131*		*11/04/12 00:11*	*10*
4-Bromofluorobenzene (Surr)	*93*		*79 - 120*		*11/04/12 00:11*	*10*
Dibromofluoromethane	*96*		*74 - 123*		*11/04/12 00:11*	*10*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/04/12 00:11*	*10*

Client Sample ID: 6142-DUP

Date Collected: 10/24/12 00:00
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51819-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/04/12 00:36	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/04/12 00:36	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/04/12 00:36	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/04/12 00:36	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/04/12 00:36	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/04/12 00:36	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/04/12 00:36	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/04/12 00:36	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/04/12 00:36	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/04/12 00:36	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/04/12 00:36	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/04/12 00:36	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/04/12 00:36	1

Client Sample ID: 6142-DUP
Date Collected: 10/24/12 00:00
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51819-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/04/12 00:36	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/04/12 00:36	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/04/12 00:36	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/04/12 00:36	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/04/12 00:36	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/04/12 00:36	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/04/12 00:36	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/04/12 00:36	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/04/12 00:36	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/04/12 00:36	1
Benzene	<0.074		0.50	0.074	ug/L			11/04/12 00:36	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/04/12 00:36	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/04/12 00:36	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/04/12 00:36	1
Bromoform	<0.28		1.0	0.28	ug/L			11/04/12 00:36	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/04/12 00:36	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/04/12 00:36	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/04/12 00:36	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/04/12 00:36	1
Chloroform	<0.20		1.0	0.20	ug/L			11/04/12 00:36	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/04/12 00:36	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			11/04/12 00:36	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/04/12 00:36	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/04/12 00:36	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/04/12 00:36	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/04/12 00:36	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/04/12 00:36	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/04/12 00:36	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/04/12 00:36	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/04/12 00:36	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/04/12 00:36	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/04/12 00:36	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/04/12 00:36	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/04/12 00:36	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/04/12 00:36	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/04/12 00:36	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/04/12 00:36	1
Styrene	<0.10		1.0	0.10	ug/L			11/04/12 00:36	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/04/12 00:36	1
Tetrachloroethene	**1.0**		1.0	0.17	ug/L			11/04/12 00:36	1
Toluene	<0.11		0.50	0.11	ug/L			11/04/12 00:36	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/04/12 00:36	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/04/12 00:36	1
Trichloroethene	<0.19		0.50	0.19	ug/L			11/04/12 00:36	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/04/12 00:36	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/04/12 00:36	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/04/12 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 131*		*11/04/12 00:36*	*1*
4-Bromofluorobenzene (Surr)	*96*		*79 - 120*		*11/04/12 00:36*	*1*

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51819-1

Client Sample ID: 6142-DUP
Date Collected: 10/24/12 00:00
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51819-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	96		74 - 123		11/04/12 00:36	1
Toluene-d8 (Surr)	100		80 - 120		11/04/12 00:36	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration
RL	Reporting Limit or Requested Limit (Radiochemistry only)

QC Association Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51819-1

GC/MS VOA

Analysis Batch: 168421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-51819-1	6142-MW-1	Total/NA	Water	8260B	
500-51819-2	6142-MW-2	Total/NA	Water	8260B	
500-51819-3	6142-MW-3	Total/NA	Water	8260B	
500-51819-4	6142-MW-4	Total/NA	Water	8260B	
500-51819-5	6142-MW-5	Total/NA	Water	8260B	
500-51819-6	6142-MW-6	Total/NA	Water	8260B	
500-51819-6 - DL	6142-MW-6	Total/NA	Water	8260B	
500-51819-7	6142-DUP	Total/NA	Water	8260B	
LCS 500-168421/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-168421/6	Method Blank	Total/NA	Water	8260B	

Surrogate Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51819-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-131)	(79-120)	(74-123)	(80-120)
500-51819-1	6142-MW-1	100	95	96	102
500-51819-2	6142-MW-2	99	95	93	100
500-51819-3	6142-MW-3	99	98	96	103
500-51819-4	6142-MW-4	100	95	99	101
500-51819-5	6142-MW-5	99	96	95	102
500-51819-6	6142-MW-6	98	94	97	99
500-51819-6 - DL	6142-MW-6	97	93	96	100
500-51819-7	6142-DUP	98	96	96	100
LCS 500-168421/4	Lab Control Sample	97	96	92	99
MB 500-168421/6	Method Blank	97	97	94	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Case Narrative

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51823-1

Job ID: 500-51823-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-51823-1

Comments
No additional comments.

Receipt
The samples were received on 10/29/2012 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 6.0° C.

GC/MS VOA
Method(s) 5035: MeOH extract vial has < 8 grams of soil in 10 ml MeOH

Method(s) 8260B: The matrix spike duplicate (-2MSD) recoveries for 1,2,3-Trichloropropane and Tetrachloroethane were outside control limits. The associated laboratory control sample (LCS) and matrix spike (-2MS) recoveries met acceptance criteria.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51823-1

Client Sample ID: 6142-IDM-S — Lab Sample ID: 500-51823-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	20000		99	17	ug/Kg	50	☼	8260B	Total/NA
Toluene	120		25	11	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	94		50	19	ug/Kg	50	☼	8260B	Total/NA

Client Sample ID: 6142-IDM-W — Lab Sample ID: 500-51823-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.9		1.0	0.12	ug/L	1		8260B	Total/NA
Tetrachloroethene	200		1.0	0.17	ug/L	1		8260B	Total/NA
Toluene	1.3		0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethene	4.4		0.50	0.19	ug/L	1		8260B	Total/NA

Method Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51823-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51823-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-51823-1	6142-IDM-S	Solid	10/22/12 00:00	10/29/12 09:50
500-51823-2	6142-IDM-W	Water	10/22/12 00:00	10/29/12 09:50

Client Sample ID: 6142-IDM-S
Date Collected: 10/22/12 00:00
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51823-1
Matrix: Solid
Percent Solids: 87.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<34		200	34	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,1,1-Trichloroethane	<20		99	20	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,1,2,2-Tetrachloroethane	<23		99	23	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,1,2-Trichloroethane	<28		99	28	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,1-Dichloroethane	<18		99	18	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,1-Dichloroethene	<31		99	31	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,1-Dichloropropene	<34		99	34	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,2,3-Trichlorobenzene	<35		200	35	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,2,3-Trichloropropane	<57		200	57	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,2,4-Trichlorobenzene	<38		200	38	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,2,4-Trimethylbenzene	<21		200	21	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,2-Dibromo-3-Chloropropane	<87		200	87	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,2-Dibromoethane	<31		200	31	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,2-Dichlorobenzene	<20		200	20	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,2-Dichloroethane	<28		99	28	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,2-Dichloropropane	<20		99	20	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,3,5-Trimethylbenzene	<20		200	20	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,3-Dichlorobenzene	<26		200	26	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,3-Dichloropropane	<13		99	13	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
1,4-Dichlorobenzene	<17		200	17	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
2,2-Dichloropropane	<31		99	31	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
2-Chlorotoluene	<21		99	21	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
4-Chlorotoluene	<20		99	20	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Benzene	<7.4		25	7.4	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Bromobenzene	<42		200	42	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Bromochloromethane	<38		200	38	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Bromodichloromethane	<34		200	34	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Bromoform	<44		200	44	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Bromomethane	<68		200	68	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Carbon tetrachloride	<26		99	26	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Chlorobenzene	<14		99	14	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Chloroethane	<43		200	43	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Chloroform	<20		99	20	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Chloromethane	<46		200	46	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
cis-1,2-Dichloroethene	<12		99	12	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
cis-1,3-Dichloropropene	<18		99	18	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Dibromochloromethane	<34		200	34	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Dibromomethane	<48		200	48	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Dichlorodifluoromethane	<51		200	51	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Ethylbenzene	<13		25	13	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Hexachlorobutadiene	<34		200	34	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Isopropyl ether	<15		200	15	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Isopropylbenzene	<25		200	25	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Methyl tert-butyl ether	<43		200	43	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Methylene Chloride	<68		500	68	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Naphthalene	<49		200	49	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
n-Butylbenzene	<13		99	13	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
N-Propylbenzene	<17		200	17	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
p-Isopropyltoluene	<18		200	18	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
sec-Butylbenzene	<15		99	15	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Styrene	<9.8		99	9.8	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50

Client Sample ID: 6142-IDM-S

Lab Sample ID: 500-51823-1

Date Collected: 10/22/12 00:00
Matrix: Solid
Date Received: 10/29/12 09:50
Percent Solids: 87.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<14		99	14	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Tetrachloroethene	**20000**		99	17	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Toluene	**120**		25	11	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
trans-1,2-Dichloroethene	<25		99	25	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
trans-1,3-Dichloropropene	<21		99	21	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Trichloroethene	**94**		50	19	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Trichlorofluoromethane	<41		200	41	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Vinyl chloride	<10		25	10	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50
Xylenes, Total	<6.8		50	6.8	ug/Kg	☼	10/22/12 00:00	11/02/12 14:18	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 131*	*10/22/12 00:00*	*11/02/12 14:18*	*50*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*	*10/22/12 00:00*	*11/02/12 14:18*	*50*
Dibromofluoromethane	*96*		*74 - 123*	*10/22/12 00:00*	*11/02/12 14:18*	*50*
Toluene-d8 (Surr)	*98*		*80 - 120*	*10/22/12 00:00*	*11/02/12 14:18*	*50*

Client Sample ID: 6142-IDM-W

Lab Sample ID: 500-51823-2

Date Collected: 10/22/12 00:00
Matrix: Water
Date Received: 10/29/12 09:50

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/02/12 04:36	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/02/12 04:36	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/02/12 04:36	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/02/12 04:36	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/02/12 04:36	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/02/12 04:36	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/02/12 04:36	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/02/12 04:36	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/02/12 04:36	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/02/12 04:36	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/02/12 04:36	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/02/12 04:36	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/02/12 04:36	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/02/12 04:36	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/02/12 04:36	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/02/12 04:36	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/02/12 04:36	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/02/12 04:36	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/02/12 04:36	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/02/12 04:36	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/02/12 04:36	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/02/12 04:36	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/02/12 04:36	1
Benzene	<0.074		0.50	0.074	ug/L			11/02/12 04:36	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/02/12 04:36	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/02/12 04:36	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/02/12 04:36	1
Bromoform	<0.28		1.0	0.28	ug/L			11/02/12 04:36	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/02/12 04:36	1

Client Sample ID: 6142-IDM-W
Date Collected: 10/22/12 00:00
Date Received: 10/29/12 09:50

Lab Sample ID: 500-51823-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/02/12 04:36	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/02/12 04:36	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/02/12 04:36	1
Chloroform	<0.20		1.0	0.20	ug/L			11/02/12 04:36	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/02/12 04:36	1
cis-1,2-Dichloroethene	**1.9**		1.0	0.12	ug/L			11/02/12 04:36	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/02/12 04:36	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/02/12 04:36	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/02/12 04:36	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/02/12 04:36	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/02/12 04:36	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/02/12 04:36	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/02/12 04:36	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/02/12 04:36	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/02/12 04:36	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/02/12 04:36	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/02/12 04:36	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/02/12 04:36	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/02/12 04:36	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/02/12 04:36	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/02/12 04:36	1
Styrene	<0.10		1.0	0.10	ug/L			11/02/12 04:36	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/02/12 04:36	1
Tetrachloroethene	**200**		1.0	0.17	ug/L			11/02/12 04:36	1
Toluene	**1.3**		0.50	0.11	ug/L			11/02/12 04:36	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/02/12 04:36	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/02/12 04:36	1
Trichloroethene	**4.4**		0.50	0.19	ug/L			11/02/12 04:36	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/02/12 04:36	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/02/12 04:36	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/02/12 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 131*		*11/02/12 04:36*	*1*
4-Bromofluorobenzene (Surr)	*94*		*79 - 120*		*11/02/12 04:36*	*1*
Dibromofluoromethane	*101*		*74 - 123*		*11/02/12 04:36*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/02/12 04:36*	*1*

Definitions/Glossary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51823-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration
RL	Reporting Limit or Requested Limit (Radiochemistry only)

QC Association Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51823-1

GC/MS VOA

Prep Batch: 168099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-51823-1	6142-IDM-S	Total/NA	Solid	5035	
500-51823-1 MS	6142-IDM-S	Total/NA	Solid	5035	
500-51823-1 MSD	6142-IDM-S	Total/NA	Solid	5035	
LB3 500-168099/2-A LB3	Method Blank	Total/NA	Solid	5035	
LCS 500-168099/3-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 168178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-51823-2	6142-IDM-W	Total/NA	Water	8260B	
500-51823-2 MS	6142-IDM-W	Total/NA	Water	8260B	
500-51823-2 MSD	6142-IDM-W	Total/NA	Water	8260B	
LCS 500-168178/5	Lab Control Sample	Total/NA	Water	8260B	
MB 500-168178/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 168258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-51823-1	6142-IDM-S	Total/NA	Solid	8260B	168099
500-51823-1 MS	6142-IDM-S	Total/NA	Solid	8260B	168099
500-51823-1 MSD	6142-IDM-S	Total/NA	Solid	8260B	168099
LB3 500-168099/2-A LB3	Method Blank	Total/NA	Solid	8260B	168099
LCS 500-168099/3-A	Lab Control Sample	Total/NA	Solid	8260B	168099
LCS 500-168258/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-168258/6	Method Blank	Total/NA	Solid	8260B	

General Chemistry

Analysis Batch: 167782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-51823-1	6142-IDM-S	Total/NA	Solid	Moisture	

Surrogate Summary

Client: Environmental Forensic Investigation Inc
Project/Site: One Hour Martinizing Elm Grove - 6142

TestAmerica Job ID: 500-51823-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	12DCE (75-131)	BFB (79-120)	DBFM (74-123)	TOL (80-120)
500-51823-1	6142-IDM-S	98	97	96	98
500-51823-1 MS	6142-IDM-S	99	103	100	100
500-51823-1 MSD	6142-IDM-S	99	98	103	99
LB3 500-168099/2-A LB3	Method Blank	97	97	98	97
LCS 500-168099/3-A	Lab Control Sample	97	100	99	97
LCS 500-168258/4	Lab Control Sample	96	99	98	101
MB 500-168258/6	Method Blank	99	96	96	97

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	12DCE (75-131)	BFB (79-120)	DBFM (74-123)	TOL (80-120)
500-51823-2	6142-IDM-W	97	94	101	97
500-51823-2 MS	6142-IDM-W	97	94	103	103
500-51823-2 MSD	6142-IDM-W	100	94	106	98
LCS 500-168178/5	Lab Control Sample	105	94	106	101
MB 500-168178/7	Method Blank	104	98	102	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

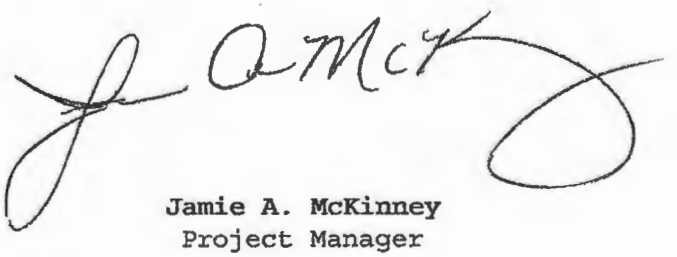
ONE HOUR MARTINIZING ELM GROVE

Lot #: H2J300420

Wayne Fassbender

Environmental Forensic Investi
200 S. Executive Drive, Ste 10
Brookfield, WI 53045

TESTAMERICA LABORATORIES, INC.



Jamie A. McKinney
Project Manager

November 2, 2012

ANALYTICAL METHODS SUMMARY

H2J300420

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H2J300420

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MW6J8	001	6142-SSV-1	10/23/12	13:10
MW6KD	002	6142-SSV-2	10/23/12	14:05
MW6KG	003	6142-SG-1	10/23/12	14:50
MW6KJ	004	6142-SG-2	10/23/12	15:50

NOTE(S):

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

PROJECT NARRATIVE
H2J300420

The results reported herein are applicable to the samples submitted for analysis only. If you have any questions about this report, please call (865) 291-3000 to speak with the TestAmerica project manager listed on the cover page.

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

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria. Even though the calibration verification analyzed on 10/31/12 exhibited a % difference of > 30% for chloromethane, 1,2-dichlorotetrafluoroethane and trichlorofluoromethane, the results were within the LCS acceptance limits.

Samples 6142-SSV-1 and 6142-SSV-2 were reported with elevated reporting limits for all analytes due to the presence of non-target compounds. A dilution was necessary prior to analysis, and the reporting limits were adjusted accordingly.

CERTIFICATION SUMMARY

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Knoxville	ACLASS	DoD ELAP		ADE-1434
TestAmerica Knoxville	Arkansas	State Program	6	88-0688
TestAmerica Knoxville	California	State Program	9	2423
TestAmerica Knoxville	Colorado	State Program	8	N/A
TestAmerica Knoxville	Connecticut	State Program	1	PH-0223
TestAmerica Knoxville	Florida	NELAC	4	E87177
TestAmerica Knoxville	Georgia	State Program	4	906
TestAmerica Knoxville	Hawaii	State Program	9	N/A
TestAmerica Knoxville	Indiana	State Program	5	C-TN-02
TestAmerica Knoxville	Iowa	State Program	7	375
TestAmerica Knoxville	Kansas	NELAC	7	E-10349
TestAmerica Knoxville	Kentucky	State Program	4	90101
TestAmerica Knoxville	Louisiana	NELAC	6	LA110001
TestAmerica Knoxville	Louisiana	NELAC	6	83979
TestAmerica Knoxville	Maryland	State Program	3	277
TestAmerica Knoxville	Michigan	State Program	5	9933
TestAmerica Knoxville	Minnesota	NELAC	5	047-999-429
TestAmerica Knoxville	Nevada	State Program	9	TN00009
TestAmerica Knoxville	New Jersey	NELAC	2	TN001
TestAmerica Knoxville	New York	NELAC	2	10781
TestAmerica Knoxville	North Carolina	North Carolina DENR	4	64
TestAmerica Knoxville	North Carolina	North Carolina PHL	4	21705
TestAmerica Knoxville	Ohio	OVAP	5	CL0059
TestAmerica Knoxville	Oklahoma	State Program	6	9415
TestAmerica Knoxville	Pennsylvania	NELAC	3	68-00576
TestAmerica Knoxville	South Carolina	State Program	4	84001
TestAmerica Knoxville	Tennessee	State Program	4	2014
TestAmerica Knoxville	Texas	NELAC	6	T104704380-TX
TestAmerica Knoxville	USDA	USDA		P330-11-00035
TestAmerica Knoxville	Utah	NELAC	8	QUAN3
TestAmerica Knoxville	Virginia	State Program	3	165
TestAmerica Knoxville	Washington	State Program	10	C593
TestAmerica Knoxville	West Virginia	West Virginia DEP	3	345
TestAmerica Knoxville	West Virginia	West Virginia DHHR (DW)	3	9955C
TestAmerica Knoxville	Wisconsin	State Program	5	998044300

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Sample Data Summary

Environmental Forensic Investigation Inc

Client Sample ID: 6142-SSV-1

GC/MS Volatiles

Lot-Sample # H2J300420 - 001 **Work Order #** MW6J81AC **Matrix.....:** AIR

Date Sampled...: 10/23/2012 **Date Received..:** 10/30/2012
Prep Date.....: 10/31/2012 **Analysis Date...** 10/31/2012
Prep Batch #.....: 2305086
Dilution Factor.: 33.6 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Dichlorodifluoromethane	ND	6.7	ND	33
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	ND	6.7	ND	47
Chloromethane	ND	17	ND	35
Vinyl chloride	ND	6.7	ND	17
Bromomethane	ND	6.7	ND	26
Chloroethane	ND	6.7	ND	18
Trichlorofluoromethane	ND	6.7	ND	38
1,1-Dichloroethene	ND	6.7	ND	27
1,1,2-Trichloro-1,2,2-trifluoroetha ne	ND	6.7	ND	51
Methylene chloride	**44**	**17**	**150**	**58**
1,1-Dichloroethane	ND	6.7	ND	27
cis-1,2-Dichloroethene	ND	6.7	ND	27
Chloroform	ND	6.7	ND	33
1,1,1-Trichloroethane	ND	6.7	ND	37
Carbon tetrachloride	ND	6.7	ND	42
Benzene	ND	6.7	ND	21
1,2-Dichloroethane	ND	6.7	ND	27
Trichloroethene	ND	6.7	ND	36
1,2-Dichloropropane	ND	6.7	ND	31
cis-1,3-Dichloropropene	ND	6.7	ND	30
Toluene	ND	6.7	ND	25
trans-1,3-Dichloropropene	ND	6.7	ND	30
1,1,2-Trichloroethane	ND	6.7	ND	37
Tetrachloroethene	**140**	**6.7**	**970**	**46**
1,2-Dibromoethane (EDB)	ND	6.7	ND	52
Chlorobenzene	ND	6.7	ND	31
Ethylbenzene	ND	6.7	ND	29
m-Xylene & p-Xylene	ND	6.7	ND	29
o-Xylene	ND	6.7	ND	29
Styrene	ND	6.7	ND	29
1,1,2,2-Tetrachloroethane	ND	6.7	ND	46
1,3,5-Trimethylbenzene	ND	6.7	ND	33
1,2,4-Trimethylbenzene	ND	6.7	ND	33
1,3-Dichlorobenzene	ND	6.7	ND	40
1,4-Dichlorobenzene	ND	6.7	ND	40
1,2-Dichlorobenzene	ND	6.7	ND	40
Benzyl chloride	ND	13	ND	70

Environmental Forensic Investigation Inc

Client Sample ID: 6142-SSV-1

GC/MS Volatiles

Lot-Sample # H2J300420 - 001 **Work Order #** MW6J81AC **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,2,4-Trichlorobenzene	ND	34	ND	250
Hexachlorobutadiene	ND	34	ND	360

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	97	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Environmental Forensic Investigation Inc

Client Sample ID: 6142-SSV-2

GC/MS Volatiles

Lot-Sample # H2J300420 - 002 **Work Order #** MW6KD1AC **Matrix.....:** AIR

Date Sampled...: 10/23/2012 **Date Received..:** 10/30/2012
Prep Date.....: 10/31/2012 **Analysis Date...** 10/31/2012
Prep Batch #.....: 2305086
Dilution Factor.: 120.6 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Dichlorodifluoromethane	ND	24	ND	120
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	24	ND	170
Chloromethane	ND	60	ND	120
Vinyl chloride	ND	24	ND	62
Bromomethane	ND	24	ND	94
Chloroethane	ND	24	ND	64
Trichlorofluoromethane	ND	24	ND	140
1,1-Dichloroethene	ND	24	ND	96
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	24	ND	180
Methylene chloride	ND	60	ND	210
1,1-Dichloroethane	ND	24	ND	98
cis-1,2-Dichloroethene	ND	24	ND	96
Chloroform	ND	24	ND	120
1,1,1-Trichloroethane	ND	24	ND	130
Carbon tetrachloride	ND	24	ND	150
Benzene	ND	24	ND	77
1,2-Dichloroethane	ND	24	ND	98
Trichloroethene	ND	24	ND	130
1,2-Dichloropropane	ND	24	ND	110
cis-1,3-Dichloropropene	ND	24	ND	110
Toluene	ND	24	ND	91
trans-1,3-Dichloropropene	ND	24	ND	110
1,1,2-Trichloroethane	ND	24	ND	130
Tetrachloroethene	**570**	**24**	**3900**	**160**
1,2-Dibromoethane (EDB)	ND	24	ND	190
Chlorobenzene	ND	24	ND	110
Ethylbenzene	ND	24	ND	100
m-Xylene & p-Xylene	ND	24	ND	100
o-Xylene	ND	24	ND	100
Styrene	ND	24	ND	100
1,1,2,2-Tetrachloroethane	ND	24	ND	170
1,3,5-Trimethylbenzene	ND	24	ND	120
1,2,4-Trimethylbenzene	ND	24	ND	120
1,3-Dichlorobenzene	ND	24	ND	150
1,4-Dichlorobenzene	ND	24	ND	150
1,2-Dichlorobenzene	ND	24	ND	150
Benzyl chloride	ND	48	ND	250

Environmental Forensic Investigation Inc

Client Sample ID: 6142-SSV-2

GC/MS Volatiles

Lot-Sample # H2J300420 - 002 **Work Order #** MW6KD1AC **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,2,4-Trichlorobenzene	ND	120	ND	900
Hexachlorobutadiene	ND	120	ND	1300

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	101	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Environmental Forensic Investigation Inc

Client Sample ID: 6142-SG-1

GC/MS Volatiles

Lot-Sample # H2J300420 - 003 **Work Order #** MW6KG1AC **Matrix.....:** AIR

Date Sampled...: 10/23/2012 **Date Received..:** 10/30/2012
Prep Date.....: 10/31/2012 **Analysis Date...** 10/31/2012
Prep Batch #.....: 2305086
Dilution Factor.: 200.85 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Dichlorodifluoromethane	ND	40	ND	200
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	40	ND	280
Chloromethane	ND	100	ND	210
Vinyl chloride	ND	40	ND	100
Bromomethane	ND	40	ND	160
Chloroethane	ND	40	ND	110
Trichlorofluoromethane	ND	40	ND	230
1,1-Dichloroethene	ND	40	ND	160
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	40	ND	310
Methylene chloride	ND	100	ND	350
1,1-Dichloroethane	ND	40	ND	160
cis-1,2-Dichloroethene	ND	40	ND	160
Chloroform	ND	40	ND	200
1,1,1-Trichloroethane	ND	40	ND	220
Carbon tetrachloride	ND	40	ND	250
Benzene	ND	40	ND	130
1,2-Dichloroethane	ND	40	ND	160
Trichloroethene	**49**	**40**	**270**	**220**
1,2-Dichloropropane	ND	40	ND	190
cis-1,3-Dichloropropene	ND	40	ND	180
Toluene	ND	40	ND	150
trans-1,3-Dichloropropene	ND	40	ND	180
1,1,2-Trichloroethane	ND	40	ND	220
Tetrachloroethene	**4300**	**40**	**29000**	**270**
1,2-Dibromoethane (EDB)	ND	40	ND	310
Chlorobenzene	ND	40	ND	180
Ethylbenzene	ND	40	ND	170
m-Xylene & p-Xylene	ND	40	ND	170
o-Xylene	ND	40	ND	170
Styrene	ND	40	ND	170
1,1,2,2-Tetrachloroethane	ND	40	ND	280
1,3,5-Trimethylbenzene	ND	40	ND	200
1,2,4-Trimethylbenzene	ND	40	ND	200
1,3-Dichlorobenzene	ND	40	ND	240
1,4-Dichlorobenzene	ND	40	ND	240
1,2-Dichlorobenzene	ND	40	ND	240
Benzyl chloride	ND	80	ND	420

Environmental Forensic Investigation Inc

Client Sample ID: 6142-SG-1

GC/MS Volatiles

Lot-Sample # H2J300420 - 003 **Work Order #** MW6KG1AC **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,2,4-Trichlorobenzene	ND	200	ND	1500
Hexachlorobutadiene	ND	200	ND	2100

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Environmental Forensic Investigation Inc

Client Sample ID: 6142-SG-2

GC/MS Volatiles

Lot-Sample # H2J300420 - 004 **Work Order #** MW6KJ1AC **Matrix.....:** AIR

Date Sampled...: 10/23/2012 **Date Received..:** 10/30/2012
Prep Date.....: 10/31/2012 **Analysis Date...** 11/01/2012
Prep Batch #.....: 2305086
Dilution Factor.: 20 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Dichlorodifluoromethane	ND	4.0	ND	20
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	4.0	ND	28
Chloromethane	ND	10	ND	21
Vinyl chloride	ND	4.0	ND	10
Bromomethane	ND	4.0	ND	16
Chloroethane	ND	4.0	ND	11
Trichlorofluoromethane	ND	4.0	ND	22
1,1-Dichloroethene	ND	4.0	ND	16
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.0	ND	31
Methylene chloride	ND	10	ND	35
1,1-Dichloroethane	ND	4.0	ND	16
cis-1,2-Dichloroethene	ND	4.0	ND	16
Chloroform	**5.9**	**4.0**	**29**	**20**
1,1,1-Trichloroethane	ND	4.0	ND	22
Carbon tetrachloride	ND	4.0	ND	25
Benzene	ND	4.0	ND	13
1,2-Dichloroethane	ND	4.0	ND	16
Trichloroethene	ND	4.0	ND	21
1,2-Dichloropropane	ND	4.0	ND	18
cis-1,3-Dichloropropene	ND	4.0	ND	18
Toluene	ND	4.0	ND	15
trans-1,3-Dichloropropene	ND	4.0	ND	18
1,1,2-Trichloroethane	ND	4.0	ND	22
Tetrachloroethene	**230**	**4.0**	**1600**	**27**
1,2-Dibromoethane (EDB)	ND	4.0	ND	31
Chlorobenzene	ND	4.0	ND	18
Ethylbenzene	ND	4.0	ND	17
m-Xylene & p-Xylene	ND	4.0	ND	17
o-Xylene	ND	4.0	ND	17
Styrene	ND	4.0	ND	17
1,1,2,2-Tetrachloroethane	ND	4.0	ND	27
1,3,5-Trimethylbenzene	ND	4.0	ND	20
1,2,4-Trimethylbenzene	ND	4.0	ND	20
1,3-Dichlorobenzene	ND	4.0	ND	24
1,4-Dichlorobenzene	ND	4.0	ND	24
1,2-Dichlorobenzene	ND	4.0	ND	24
Benzyl chloride	ND	8.0	ND	41

Environmental Forensic Investigation Inc

Client Sample ID: 6142-SG-2

GC/MS Volatiles

Lot-Sample # H2J300420 - 004 **Work Order #** MW6KJ1AC **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,2,4-Trichlorobenzene	ND	20	ND	150
Hexachlorobutadiene	ND	20	ND	210

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	101	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Environmental Forensic Investigation Inc

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H2J310000 - 086B **Work Order #** MW67T1AA **Matrix.....:** AIR

	10/24/2012	**Date Received..:**	10/30/2012
Prep Date.....:	10/31/2012	**Analysis Date...**	10/31/2012
Prep Batch #.....:	2305086		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Dichlorodifluoromethane	ND	0.20	ND	0.99
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.20	ND	1.4
Chloromethane	ND	0.50	ND	1.0
Vinyl chloride	ND	0.20	ND	0.51
Bromomethane	ND	0.20	ND	0.78
Chloroethane	ND	0.20	ND	0.53
Trichlorofluoromethane	ND	0.20	ND	1.1
1,1-Dichloroethene	ND	0.20	ND	0.79
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.20	ND	1.5
Methylene chloride	ND	0.50	ND	1.7
1,1-Dichloroethane	ND	0.20	ND	0.81
cis-1,2-Dichloroethene	ND	0.20	ND	0.79
Chloroform	ND	0.20	ND	0.98
1,1,1-Trichloroethane	ND	0.20	ND	1.1
Carbon tetrachloride	ND	0.20	ND	1.3
Benzene	ND	0.20	ND	0.64
1,2-Dichloroethane	ND	0.20	ND	0.81
Trichloroethene	ND	0.20	ND	1.1
1,2-Dichloropropane	ND	0.20	ND	0.92
cis-1,3-Dichloropropene	ND	0.20	ND	0.91
Toluene	ND	0.20	ND	0.75
trans-1,3-Dichloropropene	ND	0.20	ND	0.91
1,1,2-Trichloroethane	ND	0.20	ND	1.1
Tetrachloroethene	ND	0.20	ND	1.4
1,2-Dibromoethane (EDB)	ND	0.20	ND	1.5
Chlorobenzene	ND	0.20	ND	0.92
Ethylbenzene	ND	0.20	ND	0.87
m-Xylene & p-Xylene	ND	0.20	ND	0.87
o-Xylene	ND	0.20	ND	0.87
Styrene	ND	0.20	ND	0.85
1,1,2,2-Tetrachloroethane	ND	0.20	ND	1.4
1,3,5-Trimethylbenzene	ND	0.20	ND	0.98
1,2,4-Trimethylbenzene	ND	0.20	ND	0.98
1,3-Dichlorobenzene	ND	0.20	ND	1.2
1,4-Dichlorobenzene	ND	0.20	ND	1.2
1,2-Dichlorobenzene	ND	0.20	ND	1.2
Benzyl chloride	ND	0.40	ND	2.1

Environmental Forensic Investigation Inc

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H2J310000 - 086B **Work Order #** MW67T1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,2,4-Trichlorobenzene	ND	1.0	ND	7.4
Hexachlorobutadiene	ND	1.0	ND	11

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Environmental Forensic Investigation Inc

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H2J310000 - 086C **Work Order #** MW67T1AC **Matrix.....:** AIR

	10/24/2012	**Date Received..:**	10/30/2012
Prep Date.....:	10/31/2012	**Analysis Date...**	10/31/2012
Prep Batch #.....:	2305086		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Dichlorodifluoromethane	5.00	6.44	25	31.9	129	60 - 140
1,2-Dichloro-1,1,2,2-tetrafluoroethane	5.00	6.73	35	47.0	135	60 - 140
Chloromethane	5.00	6.56	10	13.6	131	60 - 140
Vinyl chloride	5.00	6.23	13	15.9	125	70 - 130
Bromomethane	5.00	6.43	19	25.0	129	70 - 130
Chloroethane	5.00	5.99	13	15.8	120	70 - 130
Trichlorofluoromethane	5.00	6.58	28	37.0	132	60 - 140
1,1-Dichloroethene	5.00	6.19	20	24.6	124	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	5.00	5.83	38	44.7	117	70 - 130
Methylene chloride	5.00	5.08	17	17.6	102	70 - 130
1,1-Dichloroethane	5.00	5.22	20	21.1	104	70 - 130
cis-1,2-Dichloroethene	5.00	5.34	20	21.2	107	70 - 130
Chloroform	5.00	5.39	24	26.3	108	70 - 130
1,1,1-Trichloroethane	5.00	5.68	27	31.0	114	70 - 130
Carbon tetrachloride	5.00	5.69	31	35.8	114	70 - 130
Benzene	5.00	5.07	16	16.2	101	70 - 130
1,2-Dichloroethane	5.00	5.53	20	22.4	111	70 - 130
Trichloroethene	5.00	5.34	27	28.7	107	70 - 130
1,2-Dichloropropane	5.00	5.00	23	23.1	100	70 - 130
cis-1,3-Dichloropropene	5.00	5.47	23	24.8	109	70 - 130
Toluene	5.00	4.81	19	18.1	96	70 - 130
trans-1,3-Dichloropropene	5.00	5.12	23	23.2	102	70 - 130
1,1,2-Trichloroethane	5.00	4.90	27	26.8	98	70 - 130
Tetrachloroethene	5.00	5.27	34	35.7	105	70 - 130
1,2-Dibromoethane (EDB)	5.00	5.11	38	39.2	102	70 - 130
Chlorobenzene	5.00	4.96	23	22.8	99	70 - 130
Ethylbenzene	5.00	4.78	22	20.8	96	70 - 130
m-Xylene & p-Xylene	10.0	9.69	43	42.1	97	70 - 130
o-Xylene	5.00	4.77	22	20.7	95	70 - 130
Styrene	5.00	4.98	21	21.2	100	70 - 130
1,1,2,2-Tetrachloroethane	5.00	4.78	34	32.8	96	70 - 130
1,3,5-Trimethylbenzene	5.00	4.69	25	23.1	94	70 - 130
1,2,4-Trimethylbenzene	5.00	4.95	25	24.4	99	70 - 130
1,3-Dichlorobenzene	5.00	4.75	30	28.6	95	70 - 130
1,4-Dichlorobenzene	5.00	4.73	30	28.5	95	70 - 130
1,2-Dichlorobenzene	5.00	4.73	30	28.4	95	70 - 130

Environmental Forensic Investigation Inc

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H2J310000 - 086C **Work Order #** MW67T1AC **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Benzyl chloride	5.00	4.81	26	24.9	96	70 - 130
1,2,4-Trichlorobenzene	5.00	5.46	37	40.5	109	60 - 140
Hexachlorobutadiene	5.00	4.42	53	47.2	88	60 - 140

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	103	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Sample Receipt Documentation

H25300420

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	**Project Manager:** Wayne Fassbender	**Sampled By:** J. Jordan	1 of 1 COCs
Company: Enviroforensics	**Phone:**		
Address: 200 S Executive Dr. Suite 101	**Site Contact:**		
City/State/Zip Brookfield WI 53005	**TAL Contact:**		
Phone: 414-982-3988			
FAX:			
Project Name: One Hour Martinizing Elm Grove	**Analysis Turnaround Time**		
Site/location: Elm Grove WI	Standard (Specify)		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	SampleType	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
614Z-SSV-1	10/23/2012	13:05	13:10	-29.5	-8.5		LA7212	X											X
614Z-SSV-2	10/23/2012	14:00	14:05	-29.5	-7		LA7072	X											X

Sampled by :

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Sub-Slab Air

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

CUSTODY SEALS INTACT
RECEIVED AT AMBIENT TEMP
OXD 10-30-12
2 COOLER + 1 ADX FEDX # 5358 3083 2276

Special Instructions/QC Requirements & Comments:

4 CANS / 4 FLOWS (A)

Canisters Shipped by:	Date/Time: 10/26/2012	Canisters Received by:
Samples Relinquished by:	Date/Time:	Received by: 10-30-12 09:45
Relinquished by:	Date/Time:	Received by:

H2J300420

TAL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	**Project Manager:** Wayne Fassbender	**Sampled By:** Jonathon Forde	___ of ___ COCs
Company: Environmental Sa	Phone:		
Address: 200 S Executive Dr	Site Contact:		
City/State/Zip: Brookfield WI	TAL Contact:		
Phone: 414-982-3988			
FAX:			
Project Name:	**Analysis Turnaround Time**		
Site/location:	Standard (Specify)		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
LQ42-SG-1	10/23/12	14:45	14:50	-30	-5		SL1230	X									X		
LQ42-SG-2	10/23/12	15:45	15:50	-29.5	-6		LA7574	X									X		

Sampled by :

Temperature (Fahrenheit)			
	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)			
	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by:	Date/Time:	Received by: Bryan Lawson 10-30-12 09:45
Relinquished by:	Date/Time:	Received by:

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: #2J300420

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:	
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C)			✓	☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____ ☐ 2c Cooling initiated for recently collected samples, ice present.	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	✓			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?	✓			☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For 1613B water samples is pH<9?			✓	If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____	
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ 14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	✓			☐ 19a Other	

Quote #: 90977 PM Instructions: _____

Sample Receiving Associate: _____ Date: 10.30.12

QA026R23.doc, 022812

Test America - Knoxville ---- Air Canister Dilution Log

Lot Number: *H2J300420*

Initial Can Pressure							Subsequent Dilutions											
Analyst/Date	Tedlar Bag Time	Pbarr (in)	Sample ID	Can #	Pres. upon receipt (-in or + psig)	Adj. Initial Pres. (-in or + psig)	Analyst/Date	I / S	Pbarr (in)	Initial Pres. Pi (in)	Final Pres. Pf (psig)	First InCan Final Pres. Pf (psig)	Second In-can Final Pres. Pf (psig)	Third InCan Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
NB 10/30/12	NA	28.58	MW6J8	LA7212 ✓	-8.0	+2.9	NB 10/31/12											10128
			MW6KD	LA7072 ✓	-6.3	-		X1	28.66	-7.2	+29.8	+26.7						
			MW6KG	SL1230 ✓	-6.4	-		X3		-7.3	+29.9	+29.7	+29.3					
			MW6KJ	LA7174 ✓	-5.4	-												