



**PHASE II  
ENVIRONMENTAL SITE ASSESSMENT  
OF**

**Kendall Avenue Properties  
1521 & 1527 Kendall Avenue  
South Bend, IN**

**PES Project No. 10-044**

**October 12, 2010**

**Prepared For:**

**City of South Bend  
Community and Economical Development  
1200 County City Building  
227 W Jefferson Blvd.  
South Bend, In 46601**

**Prepared By:**

**Phifer Environmental Services, LLC  
2502 Lincoln Way West  
P.O. Box #430  
Mishawaka, IN 46546**

October 12, 2010

Mr. David Relos, Economic Development Planner  
Community and Economic Development  
City of South Bend  
1200 County-City Building  
227 West Jefferson Boulevard  
South Bend, Indiana 46601



**RE: REPORT OF PHASE II ENVIRONMENTAL SITE ASSESSMENT**  
1521/1527 Kendall Avenue  
South Bend, IN

Phifer Environmental Services, LLC. (PES) recently completed a Phase I Environmental Site Assessment of the property identified as 1521 and 1527 Kendall Avenue, in South Bend, Indiana (June 21, 2010, PES Project 10-021). As documented within our report, the subject site consists of two land parcels totaling approximately 0.2268-acres, with the northernmost parcel (1521 Kendall Avenue) being vacant and grass covered, having previously been developed as a residential dwelling (demolished circa 1998), with only remnants of the concrete slab for the former detached garage remaining.

The southernmost parcel (1527 Kendall Avenue) is developed with an approximate 1632 sq. ft. wooden-framed, slab on grade, pole-type building with sheet metal exterior panels, having been constructed in 1990. The building initially served as a body shop (Gammage Enterprises), although over the last 1.5-years has been leased as an auto repair and service shop. There are two roll-up doors that allow for access to each of two service bays (from east/west alleyway). There are also two pedestrian doors, one to the service bay area; the other off of Kendall Avenue to a small office area at the front of the building. To the west of the building is a secured (chain link fence with barbed wire) grass and gravel covered lot for staging of vehicles. Access to the secured lot is via a gate from the adjacent north-south alleyway.

The Phase I Environmental Site Assessment identified the following Recognized Environmental Conditions as having a potential for environmental impact to the subsurface environment:

- 1) Historical auto body repair (including historical painting) and current auto service/repair operations have a potential for environmental impact to surface and subsurface soils as a result of poor waste management practices (waste paints, waste oils, waste antifreeze, waste solvents/degreasers). The presence of waste oil pools on the concrete in close proximity to floor drains, stained soils in the area of waste oil containers, as well as other stained soils in the rear fenced area are all indications of poor waste management practices.

An accumulation of waste tires within the rear fenced area is not considered a Recognized Environmental Condition; although a timelier disposal is recommended.

**2502 Lincoln Way West P.O. 430 Mishawaka, IN 46546 (574)968-7191 (574) 255-4699**

Other Best Management Practices regarding the storage of “flammables” within a “Flammables Cabinet” and making sure that care is taken so as not to introduce waste oils to the existing floor drains (to sanitary sewer) should also be implemented.

In general, surrounding property use, which is predominately residential with the exception of retail and commercial business entities along W. Indiana Avenue, is not thought of as having a potential for significant environmental impact to the subject site based on factors that include topography, presumed ground water flow direction to the north/northeast, extent of remedial action completed (i.e., determination of No Further Action), and location relative to the subject site. We note that the area is currently, and has historically been, connected to municipal water and sewer services, which would minimize the potential for exposure to any contaminants that may be present within the subsurface soils and groundwater.

Based upon the aforementioned, PES recommended a Phase II Environmental Site be undertaken for the purpose of assessment the extent to which, if any, the automotive repair and maintenance activities conducted at the subject site may have potentially impacted the subsurface environment.

Accordingly, the City of South Bend Redevelopment Commission, during its meeting of July 23, 2010 authorized Phifer Environmental Services to perform the recommended Phase II Environmental Site Assessment.

## **SCOPE OF SERVICES**

The following summarizes the scope of services proposed by Phifer Environmental Services, and subsequently authorized for assessment of the subject site.

Prior to mobilization for drilling services, Indiana Utility Locate Services was contacted for the purpose of clearing utilities in the area of investigation. Ticket Number 1009070617, effective September 9, 2010, was executed for 1521 Kendall Avenue; whereas Ticket Number 1009081474, effective September 10, 2010, was executed for the property identified as 1527 Kendall Avenue. Following several delays in schedule to allow for the tenant of the garage to re-locate auto/trucks within the rear fenced area for access; PES subsequently mobilized D & T Drilling Services (Geoprobe contractor) on September 24, 2010 to commence with soil and groundwater sampling efforts.

### ***Soil Sampling via Geoprobe Methodology***

Geoprobe methodologies (small, track-mounted, hydraulically driven sampling probe) were used to collect soil samples from a total of four locations (GP 1 through GP-4) on the subject property. Figures 1 and Figure 2 (Appendix A) provide the general site location of the facility; whereas Figure 3 (Appendix A) presents a representation of the locations of selected Geoprobe borings established as part of the Phase II Environmental Assessment. As indicated by Figure 3, Geoprobe location GP-1 was established in the general area of waste oil storage at the southwest corner of the building exterior (significant surficial staining). Location GP-2 was established within the grassy area to the immediate north of the garage building, within the grassy area which historically served as the location of the residential dwelling identified as 1521 Kendall Avenue. Location GP-3 was established within three feet of the interior floor drain within

the easternmost auto bay of the garage; whereas location GP-4 was established within three feet of the floor drain of the westernmost auto bay. It should be noted that the westernmost bay also appeared to have been originally designed as a paint spray booth with respect to the former Gammage Enterprises auto body shop operations.

For Geoprobe boring locations GP-1 and GP-2, soil samples were collected in approximate 5-foot intervals (length of the Geoprobe sampling device) throughout the soil profile, until saturated conditions were encountered. Each soil sample interval was screened for the presence of volatile organics by first passing a PID over the complete 5-foot section, followed by placing a portion of the soil sample into a plastic bag, allowing time for equilibration, and insertion of a photoionization detector (PID) probe to observe a reading of "total VOCs" in parts per million (ppm). All data associated with the field screening of VOCs was recorded for future reference (Appendix B - Soil Boring Logs). For Geoprobe boring locations GP-3 and GP-4, height restrictions associated with the garage roof did not allow for full extension of the Geoprobe boom, and as such D & T was unable to change-out soil sampling tools beyond the initial 5-foot below land surface depth interval.

A portion of each discrete sampling interval (excluding the water bearing or saturated zone) was collected for submittal to the laboratory. Given that the area of soil contamination for location GP-1 was notably surficial, coupled with the fact that PES was limited to only the upper 5-foot depth interval for location GP-3 and GP-4; a soil sample was submitted for laboratory analysis from the uppermost soil sampling interval from each of the soil boring locations (typically the interval of 2 to 4-feet below land surface). It should also be noted that field screening of the sample intervals for all boring locations did not identify the presence of any VOCs above what would be considered as "background (i.e., 1-2 parts per million as monitored by the photoionization detector). Similarly, visual or olfactory observations during field screening did not indicate the presence of contamination.

Each of the soil samples selected for laboratory analysis was analyzed for the presence of Volatile Organic Compounds (VOCs) and High End Organics (C8 through C34). PES utilized IDEM guidance Terra-Core Methods to collect soil samples from each discrete sampling interval for analysis of VOCs. Soil samples analyzed for High End Organics analysis and Percent Moisture were collected within pre-cleaned, laboratory provided, 4-ounce jars. All soil samples were labeled, packed on ice and forwarded to the laboratory under chain-of-custody procedures. For this project, Pace Analytical Laboratories of Indianapolis, Indiana was subcontracted to perform the analysis of selected samples.

### ***Temporary Geoprobe Well Installation for Groundwater Sampling***

PES converted each of the four Geoprobe soil borings to temporary wells with insertion of a Geoprobe groundwater sampling device. The groundwater sampling device allows for the extension of a stainless steel slotted screen for collection of a groundwater sample from the point at which the saturated or water-bearing zone was encountered.

Once extension of the slotted screen was complete, each temporary well was purged until such time as the water discharge became relatively free of solids, or until a minimum of two gallons of water had been withdrawn (wells did not clear completely of suspended solids). Groundwater from each of the temporary wells was analyzed for similar constituents identified for soil samples (VOCs). We note that IDEM has recently

provided revised "Guidance" with respect to the analysis of groundwater samples for the presence of High End Organics. As such, even though the original scope of services, as approved by the City of South Bend, called for the analysis of groundwater samples for the presence of High End Organics (C8 through C34); no such groundwater analysis for High End Organics was requested or performed.

Groundwater samples were collected in laboratory provided containers to which the appropriate sample preservatives (hydrochloric acid for VOCs) had been added. Once collected, the groundwater samples were appropriately labeled, packed on ice, and forwarded to the laboratory (priority overnight delivery) under chain-of-custody procedures.

With completion of sampling activities, and given that there were no indications of contamination identified by field screening; the purge waters and excess soils were returned to the respective borings from which they were derived. Each of the boreholes were subsequently backfilled with bentonite pellets to form a seal and prevent the potential for introduction of contaminants from the surface to the underlying soil and/or groundwater as a result of the boring/well installation. Approximately 8-inches of concrete, consistent with that of the interior slab on grade finish of the garage, was used to top off boring locations GP-3 and GP-4.

## **SUMMARY OF RESULTS**

### ***Geoprobe Soil Sampling***

Copies of the Soil Boring Logs are provided for each of the Geoprobe installations in Appendix B. According to the Soil Survey of St. Joseph County, soils in the area of the site are classified as being of the Oshtemo series (Oshtemo sandy loam, 0 to 2 percent slope). Oshtemo series soils consist of deep, well-drained nearly level to strongly sloping soils on outwash plains and terraces. Native vegetation for these soils is mainly mixed hardwoods. In a representative profile, the surface layer is very dark grayish-brown sandy loam, approximately 6-inches thick. The subsurface layer is a dark-brown sandy loam, approximately 10-inches thick. The subsoil is approximately 38-inches thick and consists of dark-brown, firm gravelly sandy clay loam for the first 12-inches, and a strong-brown, friable loamy sand for the remaining 26-inches. The underlying material is light, yellowish-brown, stratified sand and gravelly sand that extends to 60-inches. Permeability is considered to be moderately rapid, with low available water capacity. Organic matter in the surface layer is considered high, and runoff is considered slow to medium. As indicated by the Soil Boring Logs (Appendix B), soils encountered at the subject site primarily consisted of silty sands, transitioning to coarse sands and gravel. We note the presence of demolition debris at Geoprobe location GP-2, situated in an area of the former residential dwelling identified as 1521 Kendall Avenue. Saturated conditions were generally encountered at a depth of 19-feet below land surface.

PES did not observe any visual or olfactory indications of the presence of contamination during the soil sampling process for any of the selected Geoprobe locations. Similarly, field screening of various depth intervals using a photoionization detector, did not identify any elevated readings (above 2 ppm) for any of the Geoprobe locations.

Laboratory analysis of soils, performed by Pace Laboratories, was for determination of Volatile Organic Compounds (EPA Method 8260) and High End Organics (EPA Method 8015 Ext). Soil sample collection for analysis of VOC constituents was performed using

Terra-Core Extended Analysis kits, as provided by Pace Laboratories, and consistent with current IDEM sampling methodologies for VOCs.

Analytical results (laboratory datasheets provided as Appendix C) for soil samples submitted for laboratory analysis are summarized in Table 1. As indicated, analysis of the selected soil samples for the presence of VOCs did not reveal the presence of any VOC above the specified laboratory detection limits. Such laboratory detection limits meet or exceed criterion for Residential and Commercial/Industrial Risk Integrated System of Closure (RISC) Default Values established by the Indiana Department of Environmental Management (IDEM) for the identified Compounds of Concern. The identified Default Closure Values are derived from the lowest of five factors that include: 1) concentration for soil saturation, 2) soil attenuation capacity, 3) calculations regarding risk-based construction worker scenario, 4) calculations regarding risk-based direct exposure, and 5) calculations regarding the potential exposure as a result of migration to groundwater. Default Closure Values are considered protective of human health.

High End Organics were reported as 75.5 mg/kg for the soil sample collected from the 1' - 2' depth interval at location GP-1. This is not unexpected, as the general area of GP-1 was visually stained as a result of incidental spillage resultant of sloppy transfer operations (poor waste management practices). We note that the Residential Default Closure Value for High End Organics (C8 through C34) is 230 mg/kg.

### ***Geoprobe Well Sampling***

Each of the Geoprobe borings was converted to a temporary groundwater sampling location by pushing slotted screen into the annulus created by the Geoprobe for collection of soil samples. Once the Geoprobe groundwater sampling device was extended, a dedicated piece of tubing, having an approximate 1-foot long stainless steel foot valve attachment, was placed down-hole. The up and down motion of the tubing was sufficient to bring the groundwater sample to the point of discharge, and thus allow for sample collection. For each of the temporary wells, sufficient water bearing capacity existed to allow for a continuous extraction of water without requiring intermittent re-charge.

As presented in Table 2 (laboratory datasheets provided as Appendix C), Tetrachloroethylene was detected for two of the four groundwater samples collected from the temporary groundwater wells installed at the subject site. Concentrations reported for Tetrachloroethylene in groundwater collected from locations GP-2 (0.015 mg/L) and GP-3 (0.0116 mg/L) were above the Residential RISC Default Closure Value, and Maximum Contaminant Level (MCL) of 0.005 mg/L. However, such reported concentrations were well below the Industrial RISC Default Closure Criteria of 0.055 mg/L. Tetrachloroethylene was not detected above the reported laboratory detection limit of 0.005 mg/L for groundwater samples collected from locations GP-1 or GP-4.

Also detected in the groundwater sample collected from location GP-3 was the presence of Dibromochloromethane at a concentration of 0.005 mg/L. There are no current RISC Residential or RISC Industrial Default Closure Values established for Dibromochloromethane.

It should be noted that the detection limit for Dibromochloromethane reported by the laboratory was also 0.005 mg/L

**TABLE 1 - SUMMARY OF SOIL ANALYTICAL DATA (September 24, 2010)**

**1521/1527 Kendall Avenue**

**South Bend, Indiana**

All results expressed as milligrams/kilogram (parts per million)

	<b>GP-1 (1'-2')</b>	<b>GP-2 (3'-4')</b>	<b>GP-3 (3 -4')</b>	<b>GP-4 (3'-4')</b>	<b>RISC Residential</b>	<b>RISC Industrial</b>
					<b>Default Closure Values</b>	<b>Default Closure Values</b>
<b>Volatile Organics</b>	ND	ND	ND	ND	NA	NA
<b>High End Organics</b>	75.5	ND	ND	ND	230	2,300
<b>Percent Moisture</b>	14.7%	4.9%	6.1%	6.3%	NA	NA

**TABLE 2 - SUMMARY OF GROUNDWATER ANALYTICAL DATA (September 24, 2010)**

**1521/1527 Kendall Avenue**

**South Bend, Indiana**

All results expressed as micrograms/kilogram (parts per billion)

	<b>GP-1</b>	<b>GP-2</b>	<b>GP-3</b>	<b>GP-4</b>	<b>RISC Residential</b>	<b>RISC Industrial</b>
					<b>Default Closure Values</b>	<b>Default Closure Values</b>
<b>Volatile Organics</b>						
Tetrachroethylene	ND	<b>0.015</b>	<b>0.0116</b>	ND	0.005	0.055
Dibromochloromethane	ND	ND	0.005	ND	NA	NA

**NOTES:**

ND Not Detected Above Laboratory Detection Limits  
 NA Not Applicable

## CONCLUSIONS/RECOMMENDATIONS

Based upon laboratory data and field observations generated from the collection of soil and groundwater samples during the installation of Geoprobe borings/temporary wells in selected areas of the property identified as 1521/1527 Kendall Avenue, in South Bend, Indiana; it would appear as though the subject site has not been significantly impacted by the activities of the current and/or former auto body and repair shop operations.

Although Tetrachloroethylene was detected in two of the four temporary groundwater monitoring wells installed as part of this Phase II Site Investigation; it was not detected in any of the soil samples submitted for analysis. In addition, there were no indications of the presence of contamination as part of field screening efforts (PID, olfactory, visual observations). We note that only the two easternmost borings/temporary wells were impacted, at levels above RISC Residential (0.005 mg/L), but well below RISC Industrial Default Closure Criteria (0.055 mg/L).

All of these factors would tend to indicate a potential for the on-site migration of Tetrachloroethylene from an up gradient (off-site) source. Along those lines we note that several former dry cleaning facilities were located along Indiana Avenue to the south of the subject site, with an assumed groundwater flow direction to the north/northeast, toward the St. Joseph River (topographically toward the subject site).

It should be noted that RISC Industrial Default Closure Criteria is applicable when used in conjunction with a "recorded" Restrictive Environmental Covenant prohibiting groundwater use at the subject site. We note that the former Allied Stamping Plant and the former South Bend Lathe/Studebaker Assembly Plant to the north/northeast of the subject site have Restrictive Environmental Covenants in place for both soil (direct contact) and groundwater contamination. The City of South Bend may wish to undertake a similar approach with respect to the subject site, noting that the area of the subject site is serviced by municipal water and sanitary sewer services. Additional investigation would likely be required to further characterize the site, and confirm the likely off-site source of such contamination in groundwater.

The only other Volatile Organic Compound (VOC) identified in groundwater was Dibromochloromethane in the sample collected from location GP-3. Dibromochloromethane is most often formed as a by-product when chlorine is added to water supply systems to kill bacteria. Dibromochloromethane is also widely used as a laboratory reagent. However, a review of the QA/QC data provided by the laboratory did not indicate identify any significant sources of Dibromochloromethane as part of the method blank or laboratory control sample analyses.

In light of the aforementioned, and in consideration of the low level reported (at the laboratory detection limit); PES does not consider the presence of Dibromochloromethane to be associated with any current or historical, site related, automotive repair or body shop activities. It would seem as though the presence of Dibromochloromethane in the groundwater sample GP-3 may most likely be associated with: 1) a leak in the municipal water supply line to the subject site and/or surrounding residences/buildings, or 2) the result of introduction at the laboratory.



With respect to soils at the subject site, some level of surficial contamination in the general area of waste oil storage is present as a result of sloppy transfer operations. However, it would appear as though such “incidental contamination” can be appropriately addressed through excavation, provided the source of incidental contamination is eliminated. We note that such contamination is well below the RISC Residential Default Closure criteria at a depth of 2-feet below land surface, and that there were no contaminants of concern identified in the groundwater taken at the same location. Such results would point to a centralized area of impact, as opposed to migration of contaminants to the extent that other areas of the property have been significantly impacted. PES would recommend that such excavation be undertaken “near term” in order to avoid any potential for future contaminant migration.

### **QUALIFICATIONS**

This report is intended for use exclusively by the City of South Bend subject to the qualifications and certifications herein. Use of this report for purposes beyond those reasonably intended by the City of South Bend, and Phifer Environmental Services, LLC, is at the sole risk of the user.

The results and conclusions, as presented herein, are applicable to the specific dates and locations, as noted. This report does not warrant against future operations or conditions, nor does it warrant against historical operations or conditions that may have occurred at locations not specifically investigated by Phifer Environmental Services. While the conclusions and recommendations drawn from this Phase II Environmental Site Assessment are considered reliable; any other existing localized contamination or variations in subsurface conditions, unknown to Phifer Environmental Services, may not have been identified or fully defined by this Environmental Assessment.

### **CLOSURE**

Phifer Environmental Services, LLC appreciates the opportunity to be of service to the City of South Bend on this project. Should you have any questions contact us at (574) 968-7191.

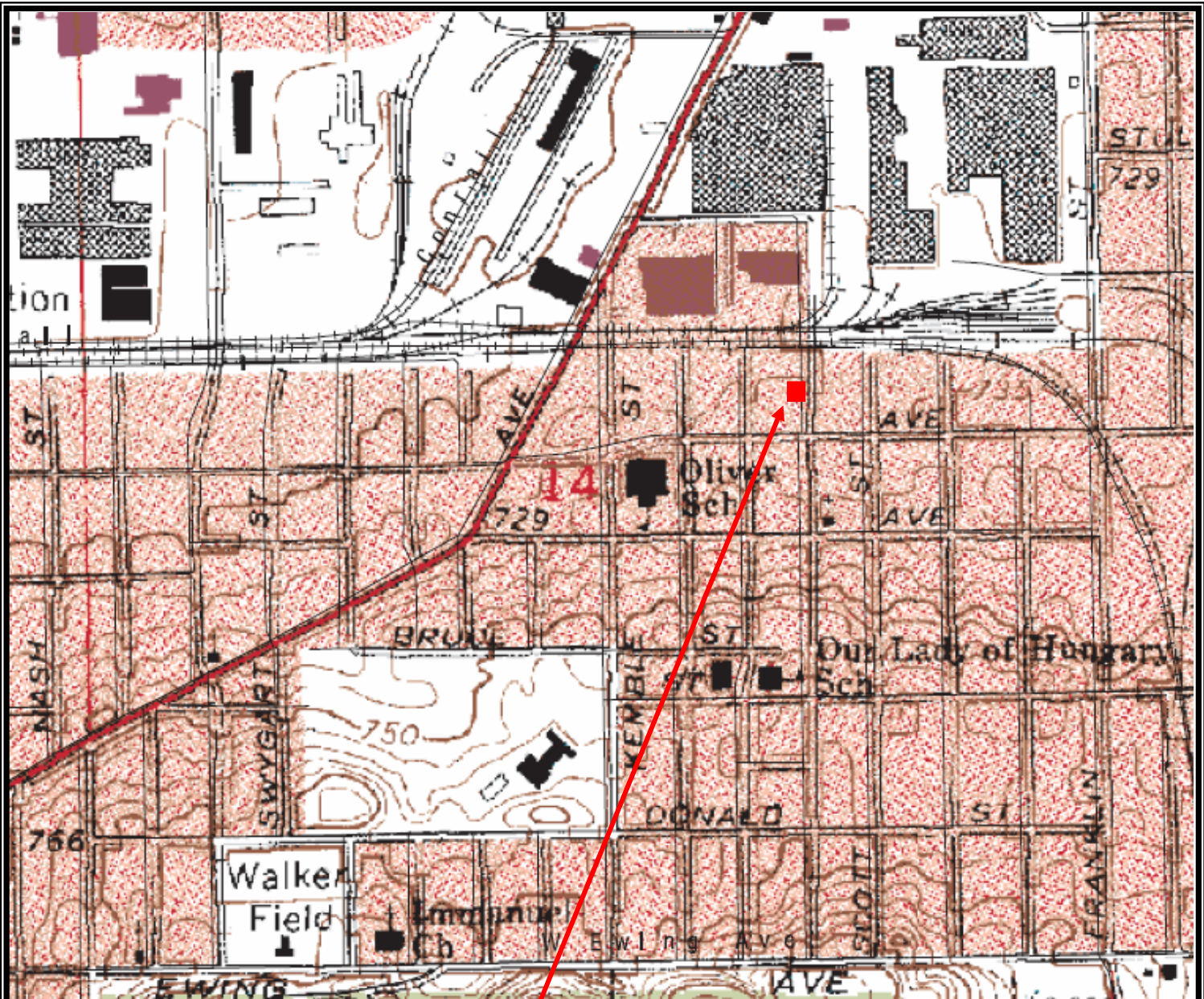
Sincerely,  
**PHIFER ENVIRONMENTAL SERVICES, LLC**

A handwritten signature in black ink, appearing to read 'Conley Phifer', written in a cursive style.

Conley Phifer, CHMM

## **APPENDIX A**

### **FIGURES**

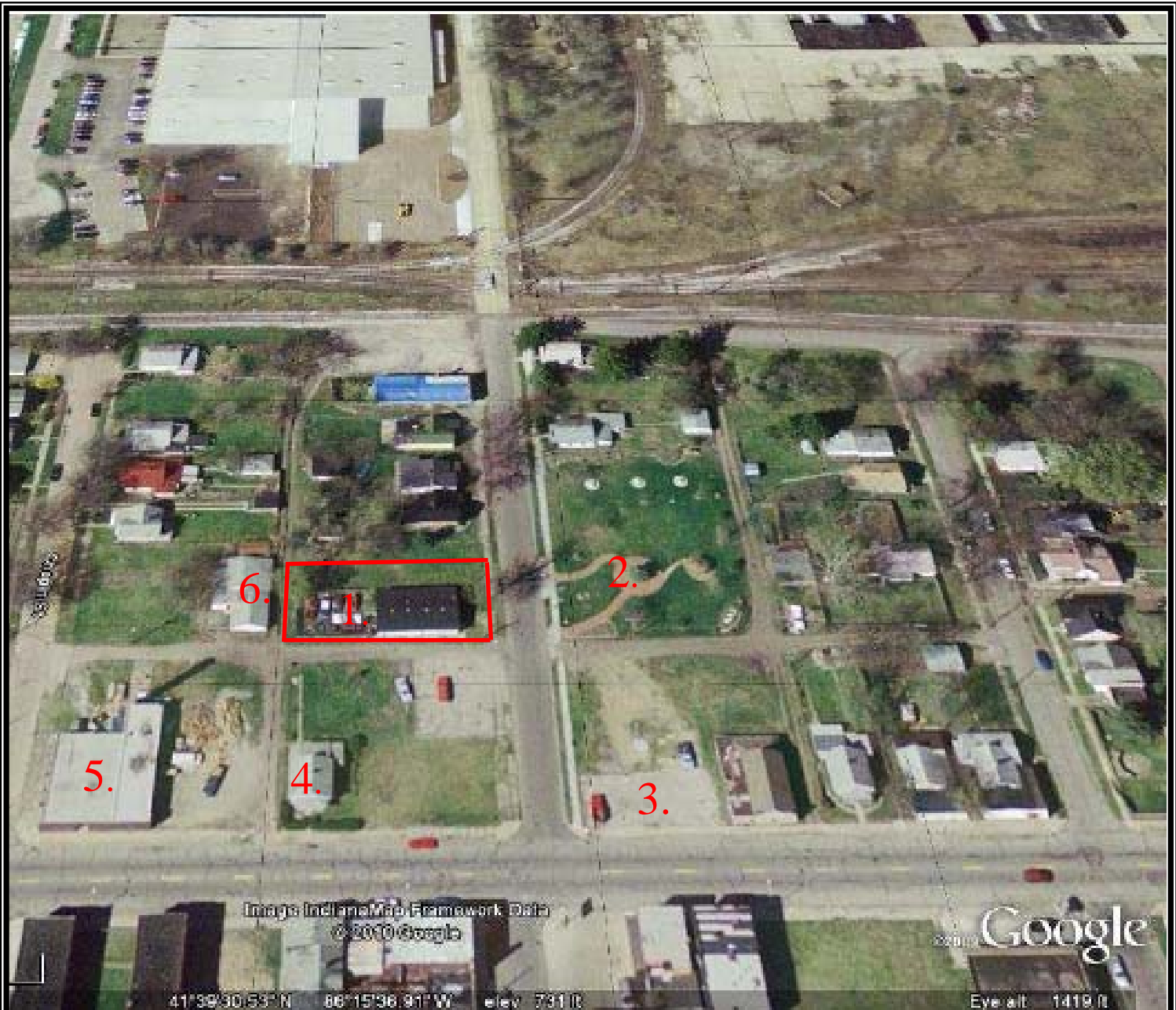


Subject Site (1521 & 1527 Kendall Avenue)

Date: October 11, 2010	Project: Commercial Garage 1521&1527 Kendall Ave. South Bend, Indiana	Drawn By: CP
Scale: Not Shown		Approved By: CBP
Source: USGS South Bend West	Project No. 10-044	Figure 1 – Site Location Map



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Mishawaka IN 46544  
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**LEGEND**

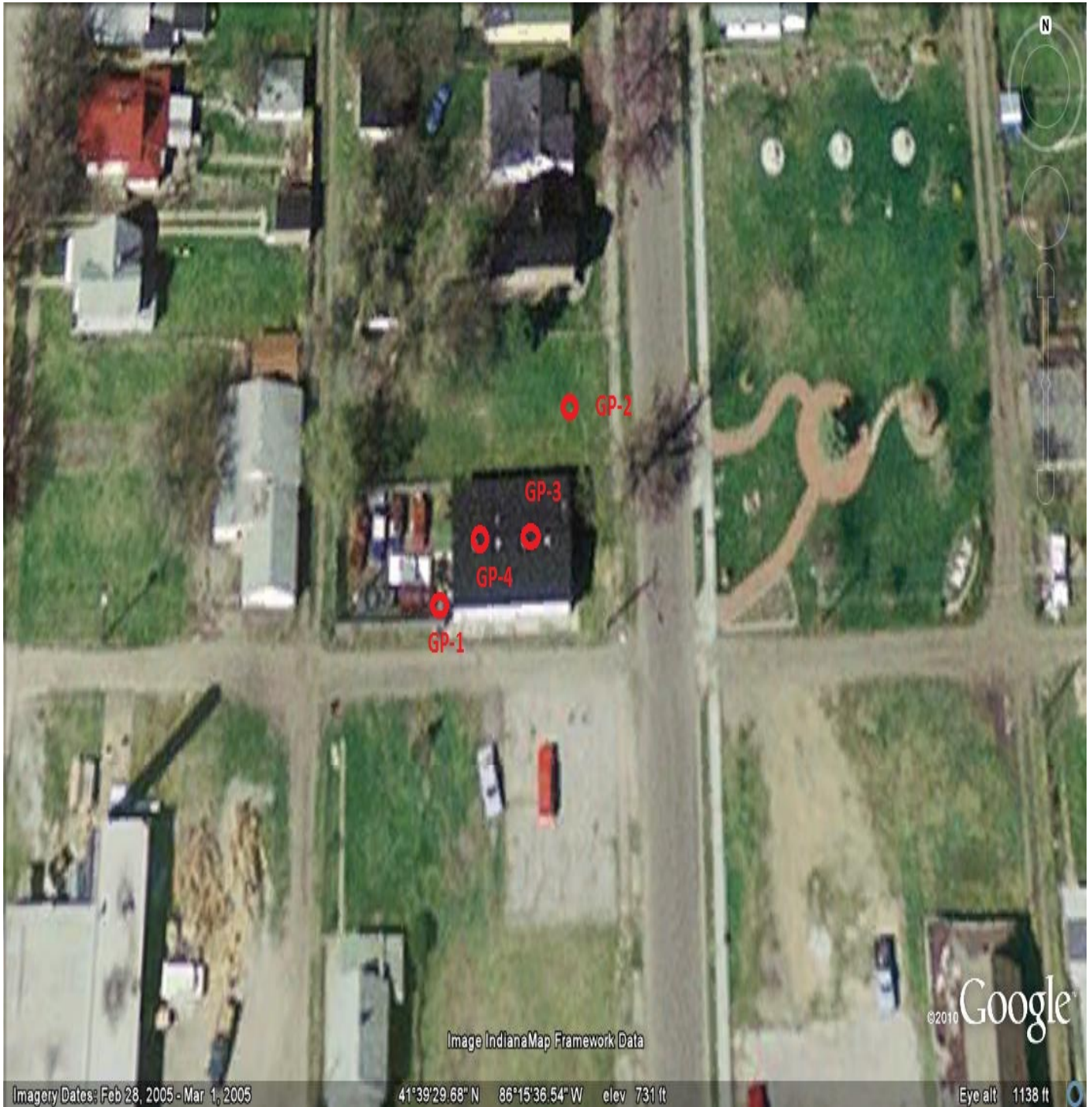
- |  |  |
|--|--|
| 1. Subject Site (1521 & 1527 Kendall)  | 4. Residential (733 W. Indiana)            |
| 2. Rum Village Neighborhood Park       | 5. Barany Sheet Metal (735-747 W. Indiana) |
| 3. Former Gas Station (721 W. Indiana) | 6. Residential (1526 Chapin)               |

Date: October 11, 2010	Project: Commercial Garage 1521 & 1527 Kendall Ave. South Bend, Indiana	Drawn By: CP
Scale: Not Shown		Approved By: CBP
Source: Google Earth	Project No. 10-044	Figure 2 – Surrounding Property



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Date: October 11, 2010	Project: Commercial Garage 1521 & 1527 Kendall Ave. South Bend, Indiana	Drawn By: CP
Scale: Not Shown		Approved By: CBP
Source: Google Earth	Project No. 10-044	Figure 3 – Sample Location Sketch

*Phiter  
Environmental  
Services LLC*

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**APPENDIX B**  
**SOIL BORING LOGS**



2502 Lincoln Way West P.O. Box #430 Mishawaka IN 46546 574-217-6298

## FIELD BORING LOG

<b>Boring #:</b> GP-1	<b>Project:</b> 1521/1527 Kendall Ave.
<b>Client:</b> City of South Bend	
<b>Location:</b> 5-ft. North of fence line (east/west alleyway), 5-ft. West of east entry gate (area of visible incidental oil spillage due to transfer to drum containers).	
<b>Start Date:</b> September 24, 2010	<b>End Date:</b> September 24, 2010
<b>Ground Elevation:</b>	<b>Total Depth:</b> 25 ft. bls
<b>Drill Company:</b> D & T Drilling	<b>Driller:</b> Josh Compo
<b>Logged By:</b> C. Phifer	<b>Drill Method:</b> Geoprobe

SAMPLE #	PENETROMETER	PID DETECTOR	DEPTH	USCS SYMBOL	DESCRIPTION OF MATERIAL: (Soil Description, USCS, Color, Moisture, Other Observations)
			0' – 0.25'	GW	Gravel Cover
			0.25 – 0.50'	GW	Ground asphalt-like gravel cover
GP-1 (2')		2 ppm	0.50' – 3.0'	SM	Dark brown fine silty sand
GP-1 (6')		0 ppm	3.0' – 7.0'	SM	Reddish-brown fine silty sand
GP-1 (12')		0 ppm	7.0' – 12.0'	SM	Light-brown, very fine silty sand
			12.0' – 13.0'	SW	Reddish-brown med. to coarse sand
GP-1 (17')		0 ppm	13.0' – 18.0'	SP	Light-brown, coarse sand & gravel
			18.0' – 24.0'	SP	Reddish-brown coarse sand & gravel (moist @ 19.0' becoming saturated at 20' below land surface)
			24.0' – 25.0'	SP	Gray to light-brown coarse sand & gravel



2502 Lincoln Way West P.O. Box #430 Mishawaka IN 46546 574-217-6298

## FIELD BORING LOG

<b>Boring #:</b> GP-2	<b>Project:</b> 1521/1527 Kendall Ave.
<b>Client:</b> City of South Bend	
<b>Location:</b> 20-ft. North of Northeast corner of garage building, within adjacent vacant lot	
<b>Start Date:</b> September 24, 2010	<b>End Date:</b> September 24, 2010
<b>Ground Elevation:</b>	<b>Total Depth:</b> 25 ft. bls
<b>Drill Company:</b> D & T Drilling	<b>Driller:</b> Josh Compo
<b>Logged By:</b> C. Phifer	<b>Drill Method:</b> Geoprobe

SAMPLE #	PENETROMETER	PID DETECTOR	DEPTH	USCS SYMBOL	DESCRIPTION OF MATERIAL: (Soil Description, USCS, Color, Moisture, Other Observations)
			0' – 0.50'		Grass cover and organic topsoil
			0.50' – 4.0'		Brick rubble, demolition debris w/ light brown sand fill
GP-2 (4')		0 ppm	4.0' – 5.0'	SM	Dark brown to blackish fine silty sand
GP-2 (8')		0 ppm	5.0' – 8.5'	SM	Light-brown, very fine to med. sand
GP-2 (12')		0 ppm	8.5' – 13.5'	SW	Reddish-brown med. to coarse sand
GP-2 (17')		0 ppm	13.5' – 18.0'	SP	Light-brown to grayish, coarse sand & gravel
			18.0' – 25.0'	SP	Light-brown, fine sand (moist @ 19.0' becoming saturated at 20' below land surface)







## **APPENDIX C**

### **ANALYTICAL DATASHEETS**

October 04, 2010

Mr. Conley Phifer  
Phifer Environmental Svcs.  
2502 Lincoln Way West  
Mishawaka, IN 46546

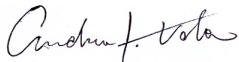
RE: Project: KENDALL ST GARAGE  
Pace Project No.: 5041827

Dear Mr. Phifer:

Enclosed are the analytical results for sample(s) received by the laboratory on September 25, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Andrew Votaw

andrew.votaw@pacelabs.com  
Project Manager

Illinois/NELAC Certification #: 100418

Indiana Certification #: C-49-06

Kansas Certification #: E-10247

Kentucky Certification #: 0042

Ohio VAP: CL0065

Pennsylvania: 68-00791

West Virginia Certification #: 330

Enclosures

## REPORT OF LABORATORY ANALYSIS

Page 1 of 36

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### SAMPLE SUMMARY

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5041827001	KENDALL GP-1 2'	Solid	09/24/10 08:35	09/25/10 12:07
5041827005	KENDALL GP-2 4'	Solid	09/24/10 10:15	09/25/10 12:07
5041827009	KENDALL GP-3 4'	Solid	09/24/10 11:50	09/25/10 12:07
5041827010	KENDALL GP-4 4'	Solid	09/24/10 12:40	09/25/10 12:07
5041827011	KENDALL GP-1	Water	09/24/10 09:45	09/25/10 12:07
5041827012	KENDALL GP-2	Water	09/24/10 11:05	09/25/10 12:07
5041827013	KENDALL GP-3	Water	09/24/10 12:05	09/25/10 12:07
5041827014	KENDALL GP-4	Water	09/24/10 13:00	09/25/10 12:07

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5041827001	KENDALL GP-1 2'	EPA 8015 Mod Ext	EDD	2
		EPA 8260	HEB	73
		ASTM D2974-87	JTP	1
5041827005	KENDALL GP-2 4'	EPA 8015 Mod Ext	EDD	2
		EPA 8260	HEB	73
		ASTM D2974-87	JTP	1
5041827009	KENDALL GP-3 4'	EPA 8015 Mod Ext	EDD	2
		EPA 8260	HEB	73
		ASTM D2974-87	JTP	1
5041827010	KENDALL GP-4 4'	EPA 8015 Mod Ext	EDD	2
		EPA 8260	HEB	73
		ASTM D2974-87	JTP	1
5041827011	KENDALL GP-1	EPA 8260	HEB	72
5041827012	KENDALL GP-2	EPA 8260	HEB	72
5041827013	KENDALL GP-3	EPA 8260	HEB	72
5041827014	KENDALL GP-4	EPA 8260	HEB	72

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

Sample: **KENDALL GP-1 2'** Lab ID: **5041827001** Collected: 09/24/10 08:35 Received: 09/25/10 12:07 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b>		Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546						
High End Organics (C8-C34)	<b>75.5</b>	mg/kg	11.7	1	09/27/10 13:20	09/28/10 06:40		
n-Pentacosane (S)	94 %		30-126	1	09/27/10 13:20	09/28/10 06:40	629-99-2	
<b>8260 MSV 5035A VOA</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	90.1	1		09/30/10 02:46	67-64-1	
Acrolein	ND	ug/kg	90.1	1		09/30/10 02:46	107-02-8	
Acrylonitrile	ND	ug/kg	90.1	1		09/30/10 02:46	107-13-1	
Benzene	ND	ug/kg	4.5	1		09/30/10 02:46	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		09/30/10 02:46	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		09/30/10 02:46	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		09/30/10 02:46	75-27-4	
Bromoform	ND	ug/kg	4.5	1		09/30/10 02:46	75-25-2	
Bromomethane	ND	ug/kg	4.5	1		09/30/10 02:46	74-83-9	
2-Butanone (MEK)	ND	ug/kg	22.5	1		09/30/10 02:46	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		09/30/10 02:46	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		09/30/10 02:46	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		09/30/10 02:46	98-06-6	
Carbon disulfide	ND	ug/kg	9.0	1		09/30/10 02:46	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.5	1		09/30/10 02:46	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		09/30/10 02:46	108-90-7	
Chloroethane	ND	ug/kg	4.5	1		09/30/10 02:46	75-00-3	
Chloroform	ND	ug/kg	4.5	1		09/30/10 02:46	67-66-3	
Chloromethane	ND	ug/kg	4.5	1		09/30/10 02:46	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		09/30/10 02:46	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		09/30/10 02:46	106-43-4	
Dibromochloromethane	ND	ug/kg	4.5	1		09/30/10 02:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		09/30/10 02:46	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		09/30/10 02:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		09/30/10 02:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		09/30/10 02:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		09/30/10 02:46	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	90.1	1		09/30/10 02:46	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.5	1		09/30/10 02:46	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		09/30/10 02:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		09/30/10 02:46	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		09/30/10 02:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		09/30/10 02:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		09/30/10 02:46	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		09/30/10 02:46	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		09/30/10 02:46	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		09/30/10 02:46	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		09/30/10 02:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		09/30/10 02:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		09/30/10 02:46	10061-02-6	
Ethylbenzene	ND	ug/kg	4.5	1		09/30/10 02:46	100-41-4	
Ethyl methacrylate	ND	ug/kg	9.0	1		09/30/10 02:46	97-63-2	

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### REPORT OF LABORATORY ANALYSIS

Page 4 of 36

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## ANALYTICAL RESULTS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

**Sample: KENDALL GP-1 2'      Lab ID: 5041827001      Collected: 09/24/10 08:35      Received: 09/25/10 12:07      Matrix: Solid**

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5035A VOA</b>		Analytical Method: EPA 8260						
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		09/30/10 02:46	87-68-3	
n-Hexane	ND	ug/kg	4.5	1		09/30/10 02:46	110-54-3	
2-Hexanone	ND	ug/kg	90.1	1		09/30/10 02:46	591-78-6	
Iodomethane	ND	ug/kg	90.1	1		09/30/10 02:46	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		09/30/10 02:46	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		09/30/10 02:46	99-87-6	
Methylene chloride	ND	ug/kg	18.0	1		09/30/10 02:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	22.5	1		09/30/10 02:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		09/30/10 02:46	1634-04-4	
Naphthalene	ND	ug/kg	4.5	1		09/30/10 02:46	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		09/30/10 02:46	103-65-1	
Styrene	ND	ug/kg	4.5	1		09/30/10 02:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		09/30/10 02:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1		09/30/10 02:46	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		09/30/10 02:46	127-18-4	
Toluene	ND	ug/kg	4.5	1		09/30/10 02:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		09/30/10 02:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		09/30/10 02:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		09/30/10 02:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		09/30/10 02:46	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		09/30/10 02:46	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		09/30/10 02:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		09/30/10 02:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		09/30/10 02:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		09/30/10 02:46	108-67-8	
Vinyl acetate	ND	ug/kg	90.1	1		09/30/10 02:46	108-05-4	
Vinyl chloride	ND	ug/kg	4.5	1		09/30/10 02:46	75-01-4	
Xylene (Total)	ND	ug/kg	9.0	1		09/30/10 02:46	1330-20-7	
Dibromofluoromethane (S)	100	%	80-124	1		09/30/10 02:46	1868-53-7	
Toluene-d8 (S)	103	%	58-145	1		09/30/10 02:46	2037-26-5	
4-Bromofluorobenzene (S)	93	%	61-131	1		09/30/10 02:46	460-00-4	

**Percent Moisture**

Analytical Method: ASTM D2974-87

Percent Moisture	<b>14.7</b> %		0.10	1		09/27/10 17:18		
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### ANALYTICAL RESULTS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

Sample: **KENDALL GP-2 4'** Lab ID: **5041827005** Collected: 09/24/10 10:15 Received: 09/25/10 12:07 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b>		Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546						
High End Organics (C8-C34)	ND	mg/kg	10.5	1	09/27/10 13:20	09/28/10 06:33		
n-Pentacosane (S)	65 %		30-126	1	09/27/10 13:20	09/28/10 06:33	629-99-2	
<b>8260 MSV 5035A VOA</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	83.6	1		09/30/10 03:13	67-64-1	
Acrolein	ND	ug/kg	83.6	1		09/30/10 03:13	107-02-8	
Acrylonitrile	ND	ug/kg	83.6	1		09/30/10 03:13	107-13-1	
Benzene	ND	ug/kg	4.2	1		09/30/10 03:13	71-43-2	
Bromobenzene	ND	ug/kg	4.2	1		09/30/10 03:13	108-86-1	
Bromochloromethane	ND	ug/kg	4.2	1		09/30/10 03:13	74-97-5	
Bromodichloromethane	ND	ug/kg	4.2	1		09/30/10 03:13	75-27-4	
Bromoform	ND	ug/kg	4.2	1		09/30/10 03:13	75-25-2	
Bromomethane	ND	ug/kg	4.2	1		09/30/10 03:13	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.9	1		09/30/10 03:13	78-93-3	
n-Butylbenzene	ND	ug/kg	4.2	1		09/30/10 03:13	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.2	1		09/30/10 03:13	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.2	1		09/30/10 03:13	98-06-6	
Carbon disulfide	ND	ug/kg	8.4	1		09/30/10 03:13	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.2	1		09/30/10 03:13	56-23-5	
Chlorobenzene	ND	ug/kg	4.2	1		09/30/10 03:13	108-90-7	
Chloroethane	ND	ug/kg	4.2	1		09/30/10 03:13	75-00-3	
Chloroform	ND	ug/kg	4.2	1		09/30/10 03:13	67-66-3	
Chloromethane	ND	ug/kg	4.2	1		09/30/10 03:13	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.2	1		09/30/10 03:13	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.2	1		09/30/10 03:13	106-43-4	
Dibromochloromethane	ND	ug/kg	4.2	1		09/30/10 03:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.2	1		09/30/10 03:13	106-93-4	
Dibromomethane	ND	ug/kg	4.2	1		09/30/10 03:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.2	1		09/30/10 03:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.2	1		09/30/10 03:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.2	1		09/30/10 03:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	83.6	1		09/30/10 03:13	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.2	1		09/30/10 03:13	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.2	1		09/30/10 03:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.2	1		09/30/10 03:13	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.2	1		09/30/10 03:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.2	1		09/30/10 03:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.2	1		09/30/10 03:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.2	1		09/30/10 03:13	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.2	1		09/30/10 03:13	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.2	1		09/30/10 03:13	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.2	1		09/30/10 03:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.2	1		09/30/10 03:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.2	1		09/30/10 03:13	10061-02-6	
Ethylbenzene	ND	ug/kg	4.2	1		09/30/10 03:13	100-41-4	
Ethyl methacrylate	ND	ug/kg	8.4	1		09/30/10 03:13	97-63-2	

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### REPORT OF LABORATORY ANALYSIS

Page 6 of 36

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## ANALYTICAL RESULTS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

**Sample: KENDALL GP-2 4'      Lab ID: 5041827005      Collected: 09/24/10 10:15      Received: 09/25/10 12:07      Matrix: Solid**

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5035A VOA</b>		Analytical Method: EPA 8260						
Hexachloro-1,3-butadiene	ND	ug/kg	4.2	1		09/30/10 03:13	87-68-3	
n-Hexane	ND	ug/kg	4.2	1		09/30/10 03:13	110-54-3	
2-Hexanone	ND	ug/kg	83.6	1		09/30/10 03:13	591-78-6	
Iodomethane	ND	ug/kg	83.6	1		09/30/10 03:13	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.2	1		09/30/10 03:13	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.2	1		09/30/10 03:13	99-87-6	
Methylene chloride	ND	ug/kg	16.7	1		09/30/10 03:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.9	1		09/30/10 03:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.2	1		09/30/10 03:13	1634-04-4	
Naphthalene	ND	ug/kg	4.2	1		09/30/10 03:13	91-20-3	
n-Propylbenzene	ND	ug/kg	4.2	1		09/30/10 03:13	103-65-1	
Styrene	ND	ug/kg	4.2	1		09/30/10 03:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.2	1		09/30/10 03:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.2	1		09/30/10 03:13	79-34-5	
Tetrachloroethene	ND	ug/kg	4.2	1		09/30/10 03:13	127-18-4	
Toluene	ND	ug/kg	4.2	1		09/30/10 03:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.2	1		09/30/10 03:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.2	1		09/30/10 03:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.2	1		09/30/10 03:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.2	1		09/30/10 03:13	79-00-5	
Trichloroethene	ND	ug/kg	4.2	1		09/30/10 03:13	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.2	1		09/30/10 03:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.2	1		09/30/10 03:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.2	1		09/30/10 03:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.2	1		09/30/10 03:13	108-67-8	
Vinyl acetate	ND	ug/kg	83.6	1		09/30/10 03:13	108-05-4	
Vinyl chloride	ND	ug/kg	4.2	1		09/30/10 03:13	75-01-4	
Xylene (Total)	ND	ug/kg	8.4	1		09/30/10 03:13	1330-20-7	
Dibromofluoromethane (S)	106	%	80-124	1		09/30/10 03:13	1868-53-7	
Toluene-d8 (S)	101	%	58-145	1		09/30/10 03:13	2037-26-5	
4-Bromofluorobenzene (S)	93	%	61-131	1		09/30/10 03:13	460-00-4	

**Percent Moisture**

Analytical Method: ASTM D2974-87

Percent Moisture	<b>4.9</b> %		0.10	1		09/27/10 17:18		
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## ANALYTICAL RESULTS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

Sample: **KENDALL GP-3 4'** Lab ID: **5041827009** Collected: 09/24/10 11:50 Received: 09/25/10 12:07 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b>		Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546						
High End Organics (C8-C34)	ND	mg/kg	10.6	1	09/27/10 13:20	09/28/10 06:54		
n-Pentacosane (S)	82 %		30-126	1	09/27/10 13:20	09/28/10 06:54	629-99-2	
<b>8260 MSV 5035A VOA</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	97.5	1		09/30/10 03:41	67-64-1	
Acrolein	ND	ug/kg	97.5	1		09/30/10 03:41	107-02-8	
Acrylonitrile	ND	ug/kg	97.5	1		09/30/10 03:41	107-13-1	
Benzene	ND	ug/kg	4.9	1		09/30/10 03:41	71-43-2	
Bromobenzene	ND	ug/kg	4.9	1		09/30/10 03:41	108-86-1	
Bromochloromethane	ND	ug/kg	4.9	1		09/30/10 03:41	74-97-5	
Bromodichloromethane	ND	ug/kg	4.9	1		09/30/10 03:41	75-27-4	
Bromoform	ND	ug/kg	4.9	1		09/30/10 03:41	75-25-2	
Bromomethane	ND	ug/kg	4.9	1		09/30/10 03:41	74-83-9	
2-Butanone (MEK)	ND	ug/kg	24.4	1		09/30/10 03:41	78-93-3	
n-Butylbenzene	ND	ug/kg	4.9	1		09/30/10 03:41	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.9	1		09/30/10 03:41	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.9	1		09/30/10 03:41	98-06-6	
Carbon disulfide	ND	ug/kg	9.7	1		09/30/10 03:41	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.9	1		09/30/10 03:41	56-23-5	
Chlorobenzene	ND	ug/kg	4.9	1		09/30/10 03:41	108-90-7	
Chloroethane	ND	ug/kg	4.9	1		09/30/10 03:41	75-00-3	
Chloroform	ND	ug/kg	4.9	1		09/30/10 03:41	67-66-3	
Chloromethane	ND	ug/kg	4.9	1		09/30/10 03:41	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.9	1		09/30/10 03:41	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.9	1		09/30/10 03:41	106-43-4	
Dibromochloromethane	ND	ug/kg	4.9	1		09/30/10 03:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		09/30/10 03:41	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		09/30/10 03:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		09/30/10 03:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		09/30/10 03:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		09/30/10 03:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	97.5	1		09/30/10 03:41	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.9	1		09/30/10 03:41	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		09/30/10 03:41	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		09/30/10 03:41	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	1		09/30/10 03:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		09/30/10 03:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		09/30/10 03:41	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		09/30/10 03:41	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		09/30/10 03:41	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		09/30/10 03:41	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		09/30/10 03:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		09/30/10 03:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		09/30/10 03:41	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	1		09/30/10 03:41	100-41-4	
Ethyl methacrylate	ND	ug/kg	9.7	1		09/30/10 03:41	97-63-2	

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### REPORT OF LABORATORY ANALYSIS

Page 8 of 36

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## ANALYTICAL RESULTS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

**Sample: KENDALL GP-3 4'      Lab ID: 5041827009      Collected: 09/24/10 11:50      Received: 09/25/10 12:07      Matrix: Solid**

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5035A VOA</b>		Analytical Method: EPA 8260						
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		09/30/10 03:41	87-68-3	
n-Hexane	ND	ug/kg	4.9	1		09/30/10 03:41	110-54-3	
2-Hexanone	ND	ug/kg	97.5	1		09/30/10 03:41	591-78-6	
Iodomethane	ND	ug/kg	97.5	1		09/30/10 03:41	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		09/30/10 03:41	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		09/30/10 03:41	99-87-6	
Methylene chloride	ND	ug/kg	19.5	1		09/30/10 03:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24.4	1		09/30/10 03:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		09/30/10 03:41	1634-04-4	
Naphthalene	ND	ug/kg	4.9	1		09/30/10 03:41	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1		09/30/10 03:41	103-65-1	
Styrene	ND	ug/kg	4.9	1		09/30/10 03:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		09/30/10 03:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		09/30/10 03:41	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1		09/30/10 03:41	127-18-4	
Toluene	ND	ug/kg	4.9	1		09/30/10 03:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		09/30/10 03:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		09/30/10 03:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		09/30/10 03:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		09/30/10 03:41	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		09/30/10 03:41	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		09/30/10 03:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		09/30/10 03:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		09/30/10 03:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		09/30/10 03:41	108-67-8	
Vinyl acetate	ND	ug/kg	97.5	1		09/30/10 03:41	108-05-4	
Vinyl chloride	ND	ug/kg	4.9	1		09/30/10 03:41	75-01-4	
Xylene (Total)	ND	ug/kg	9.7	1		09/30/10 03:41	1330-20-7	
Dibromofluoromethane (S)	98	%	80-124	1		09/30/10 03:41	1868-53-7	
Toluene-d8 (S)	99	%	58-145	1		09/30/10 03:41	2037-26-5	
4-Bromofluorobenzene (S)	91	%	61-131	1		09/30/10 03:41	460-00-4	

**Percent Moisture**

Analytical Method: ASTM D2974-87

Percent Moisture	<b>6.1</b>	%	0.10	1		09/27/10 17:18		
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## ANALYTICAL RESULTS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

Sample: **KENDALL GP-4 4'** Lab ID: **5041827010** Collected: 09/24/10 12:40 Received: 09/25/10 12:07 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8015M TPH ERO</b>		Analytical Method: EPA 8015 Mod Ext Preparation Method: EPA 3546						
High End Organics (C8-C34)	ND	mg/kg	10.7	1	09/27/10 13:20	09/28/10 07:09		
n-Pentacosane (S)	68	%	30-126	1	09/27/10 13:20	09/28/10 07:09	629-99-2	
<b>8260 MSV 5035A VOA</b>		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	89.8	1		09/30/10 04:08	67-64-1	
Acrolein	ND	ug/kg	89.8	1		09/30/10 04:08	107-02-8	
Acrylonitrile	ND	ug/kg	89.8	1		09/30/10 04:08	107-13-1	
Benzene	ND	ug/kg	4.5	1		09/30/10 04:08	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		09/30/10 04:08	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		09/30/10 04:08	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		09/30/10 04:08	75-27-4	
Bromoform	ND	ug/kg	4.5	1		09/30/10 04:08	75-25-2	
Bromomethane	ND	ug/kg	4.5	1		09/30/10 04:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	22.5	1		09/30/10 04:08	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		09/30/10 04:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		09/30/10 04:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		09/30/10 04:08	98-06-6	
Carbon disulfide	ND	ug/kg	9.0	1		09/30/10 04:08	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.5	1		09/30/10 04:08	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		09/30/10 04:08	108-90-7	
Chloroethane	ND	ug/kg	4.5	1		09/30/10 04:08	75-00-3	
Chloroform	ND	ug/kg	4.5	1		09/30/10 04:08	67-66-3	
Chloromethane	ND	ug/kg	4.5	1		09/30/10 04:08	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		09/30/10 04:08	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.5	1		09/30/10 04:08	106-43-4	
Dibromochloromethane	ND	ug/kg	4.5	1		09/30/10 04:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		09/30/10 04:08	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		09/30/10 04:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		09/30/10 04:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		09/30/10 04:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		09/30/10 04:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	89.8	1		09/30/10 04:08	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.5	1		09/30/10 04:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		09/30/10 04:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		09/30/10 04:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		09/30/10 04:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		09/30/10 04:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		09/30/10 04:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		09/30/10 04:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		09/30/10 04:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		09/30/10 04:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		09/30/10 04:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		09/30/10 04:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		09/30/10 04:08	10061-02-6	
Ethylbenzene	ND	ug/kg	4.5	1		09/30/10 04:08	100-41-4	
Ethyl methacrylate	ND	ug/kg	9.0	1		09/30/10 04:08	97-63-2	

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### REPORT OF LABORATORY ANALYSIS

Page 10 of 36

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## ANALYTICAL RESULTS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

**Sample: KENDALL GP-4 4'**      **Lab ID: 5041827010**      Collected: 09/24/10 12:40      Received: 09/25/10 12:07      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5035A VOA</b>		Analytical Method: EPA 8260						
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		09/30/10 04:08	87-68-3	
n-Hexane	ND	ug/kg	4.5	1		09/30/10 04:08	110-54-3	
2-Hexanone	ND	ug/kg	89.8	1		09/30/10 04:08	591-78-6	
Iodomethane	ND	ug/kg	89.8	1		09/30/10 04:08	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		09/30/10 04:08	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		09/30/10 04:08	99-87-6	
Methylene chloride	ND	ug/kg	18.0	1		09/30/10 04:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	22.5	1		09/30/10 04:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		09/30/10 04:08	1634-04-4	
Naphthalene	ND	ug/kg	4.5	1		09/30/10 04:08	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		09/30/10 04:08	103-65-1	
Styrene	ND	ug/kg	4.5	1		09/30/10 04:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		09/30/10 04:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1		09/30/10 04:08	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		09/30/10 04:08	127-18-4	
Toluene	ND	ug/kg	4.5	1		09/30/10 04:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		09/30/10 04:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		09/30/10 04:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		09/30/10 04:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		09/30/10 04:08	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		09/30/10 04:08	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		09/30/10 04:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		09/30/10 04:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		09/30/10 04:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		09/30/10 04:08	108-67-8	
Vinyl acetate	ND	ug/kg	89.8	1		09/30/10 04:08	108-05-4	
Vinyl chloride	ND	ug/kg	4.5	1		09/30/10 04:08	75-01-4	
Xylene (Total)	ND	ug/kg	9.0	1		09/30/10 04:08	1330-20-7	
Dibromofluoromethane (S)	98	%	80-124	1		09/30/10 04:08	1868-53-7	
Toluene-d8 (S)	102	%	58-145	1		09/30/10 04:08	2037-26-5	
4-Bromofluorobenzene (S)	90	%	61-131	1		09/30/10 04:08	460-00-4	

**Percent Moisture**

Analytical Method: ASTM D2974-87

Percent Moisture	<b>6.3</b>	%	0.10	1		09/27/10 17:19		
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## ANALYTICAL RESULTS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

Sample: KENDALL GP-1	Lab ID: 5041827011	Collected: 09/24/10 09:45	Received: 09/25/10 12:07	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		09/30/10 14:14	67-64-1	
Acrolein	ND ug/L		50.0	1		09/30/10 14:14	107-02-8	
Acrylonitrile	ND ug/L		100	1		09/30/10 14:14	107-13-1	
Benzene	ND ug/L		5.0	1		09/30/10 14:14	71-43-2	
Bromobenzene	ND ug/L		5.0	1		09/30/10 14:14	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		09/30/10 14:14	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		09/30/10 14:14	75-27-4	
Bromoform	ND ug/L		5.0	1		09/30/10 14:14	75-25-2	
Bromomethane	ND ug/L		5.0	1		09/30/10 14:14	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		09/30/10 14:14	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		09/30/10 14:14	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		09/30/10 14:14	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		09/30/10 14:14	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		09/30/10 14:14	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		09/30/10 14:14	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		09/30/10 14:14	108-90-7	
Chloroethane	ND ug/L		5.0	1		09/30/10 14:14	75-00-3	
Chloroform	ND ug/L		5.0	1		09/30/10 14:14	67-66-3	
Chloromethane	ND ug/L		5.0	1		09/30/10 14:14	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		09/30/10 14:14	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	1		09/30/10 14:14	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		09/30/10 14:14	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		09/30/10 14:14	106-93-4	
Dibromomethane	ND ug/L		5.0	1		09/30/10 14:14	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		09/30/10 14:14	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		09/30/10 14:14	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		09/30/10 14:14	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		09/30/10 14:14	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		09/30/10 14:14	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		09/30/10 14:14	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		09/30/10 14:14	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		09/30/10 14:14	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		09/30/10 14:14	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		09/30/10 14:14	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		09/30/10 14:14	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		09/30/10 14:14	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		09/30/10 14:14	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		09/30/10 14:14	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		09/30/10 14:14	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		09/30/10 14:14	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		09/30/10 14:14	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		09/30/10 14:14	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		09/30/10 14:14	87-68-3	
2-Hexanone	ND ug/L		25.0	1		09/30/10 14:14	591-78-6	
Iodomethane	ND ug/L		10.0	1		09/30/10 14:14	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		09/30/10 14:14	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		09/30/10 14:14	99-87-6	

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### REPORT OF LABORATORY ANALYSIS

Page 12 of 36

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## ANALYTICAL RESULTS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

Sample: KENDALL GP-1		Lab ID: 5041827011	Collected: 09/24/10 09:45	Received: 09/25/10 12:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Methylene chloride	ND	ug/L	5.0	1		09/30/10 14:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		09/30/10 14:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/30/10 14:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/30/10 14:14	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		09/30/10 14:14	103-65-1	
Styrene	ND	ug/L	5.0	1		09/30/10 14:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/30/10 14:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/30/10 14:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/30/10 14:14	127-18-4	
Toluene	ND	ug/L	5.0	1		09/30/10 14:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		09/30/10 14:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		09/30/10 14:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/30/10 14:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/30/10 14:14	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/30/10 14:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/30/10 14:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/30/10 14:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		09/30/10 14:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		09/30/10 14:14	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		09/30/10 14:14	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		09/30/10 14:14	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/30/10 14:14	1330-20-7	
Dibromofluoromethane (S)	100 %		80-123	1		09/30/10 14:14	1868-53-7	
4-Bromofluorobenzene (S)	94 %		70-126	1		09/30/10 14:14	460-00-4	
Toluene-d8 (S)	99 %		80-116	1		09/30/10 14:14	2037-26-5	



## ANALYTICAL RESULTS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

Sample: KENDALL GP-2	Lab ID: 5041827012	Collected: 09/24/10 11:05	Received: 09/25/10 12:07	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		09/30/10 00:29	67-64-1	
Acrolein	ND ug/L		50.0	1		09/30/10 00:29	107-02-8	
Acrylonitrile	ND ug/L		100	1		09/30/10 00:29	107-13-1	
Benzene	ND ug/L		5.0	1		09/30/10 00:29	71-43-2	
Bromobenzene	ND ug/L		5.0	1		09/30/10 00:29	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		09/30/10 00:29	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		09/30/10 00:29	75-27-4	
Bromoform	ND ug/L		5.0	1		09/30/10 00:29	75-25-2	
Bromomethane	ND ug/L		5.0	1		09/30/10 00:29	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		09/30/10 00:29	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		09/30/10 00:29	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		09/30/10 00:29	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		09/30/10 00:29	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		09/30/10 00:29	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		09/30/10 00:29	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		09/30/10 00:29	108-90-7	
Chloroethane	ND ug/L		5.0	1		09/30/10 00:29	75-00-3	
Chloroform	ND ug/L		5.0	1		09/30/10 00:29	67-66-3	
Chloromethane	ND ug/L		5.0	1		09/30/10 00:29	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		09/30/10 00:29	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	1		09/30/10 00:29	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		09/30/10 00:29	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		09/30/10 00:29	106-93-4	
Dibromomethane	ND ug/L		5.0	1		09/30/10 00:29	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		09/30/10 00:29	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		09/30/10 00:29	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		09/30/10 00:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		09/30/10 00:29	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		09/30/10 00:29	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		09/30/10 00:29	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		09/30/10 00:29	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		09/30/10 00:29	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		09/30/10 00:29	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		09/30/10 00:29	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		09/30/10 00:29	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		09/30/10 00:29	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		09/30/10 00:29	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		09/30/10 00:29	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		09/30/10 00:29	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		09/30/10 00:29	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		09/30/10 00:29	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		09/30/10 00:29	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		09/30/10 00:29	87-68-3	
2-Hexanone	ND ug/L		25.0	1		09/30/10 00:29	591-78-6	
Iodomethane	ND ug/L		10.0	1		09/30/10 00:29	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		09/30/10 00:29	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		09/30/10 00:29	99-87-6	

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### REPORT OF LABORATORY ANALYSIS

Page 14 of 36

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## ANALYTICAL RESULTS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

Sample: KENDALL GP-2		Lab ID: 5041827012	Collected: 09/24/10 11:05	Received: 09/25/10 12:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Methylene chloride	ND	ug/L	5.0	1		09/30/10 00:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		09/30/10 00:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/30/10 00:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/30/10 00:29	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		09/30/10 00:29	103-65-1	
Styrene	ND	ug/L	5.0	1		09/30/10 00:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/30/10 00:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/30/10 00:29	79-34-5	
Tetrachloroethene	15.0	ug/L	5.0	1		09/30/10 00:29	127-18-4	
Toluene	ND	ug/L	5.0	1		09/30/10 00:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		09/30/10 00:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		09/30/10 00:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/30/10 00:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/30/10 00:29	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/30/10 00:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/30/10 00:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/30/10 00:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		09/30/10 00:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		09/30/10 00:29	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		09/30/10 00:29	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		09/30/10 00:29	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/30/10 00:29	1330-20-7	
Dibromofluoromethane (S)	104	%	80-123	1		09/30/10 00:29	1868-53-7	
4-Bromofluorobenzene (S)	89	%	70-126	1		09/30/10 00:29	460-00-4	
Toluene-d8 (S)	100	%	80-116	1		09/30/10 00:29	2037-26-5	

## ANALYTICAL RESULTS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

Sample: KENDALL GP-3	Lab ID: 5041827013	Collected: 09/24/10 12:05	Received: 09/25/10 12:07	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		09/30/10 01:51	67-64-1	
Acrolein	ND ug/L		50.0	1		09/30/10 01:51	107-02-8	
Acrylonitrile	ND ug/L		100	1		09/30/10 01:51	107-13-1	
Benzene	ND ug/L		5.0	1		09/30/10 01:51	71-43-2	
Bromobenzene	ND ug/L		5.0	1		09/30/10 01:51	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		09/30/10 01:51	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		09/30/10 01:51	75-27-4	
Bromoform	ND ug/L		5.0	1		09/30/10 01:51	75-25-2	
Bromomethane	ND ug/L		5.0	1		09/30/10 01:51	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		09/30/10 01:51	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		09/30/10 01:51	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		09/30/10 01:51	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		09/30/10 01:51	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		09/30/10 01:51	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		09/30/10 01:51	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		09/30/10 01:51	108-90-7	
Chloroethane	ND ug/L		5.0	1		09/30/10 01:51	75-00-3	
Chloroform	ND ug/L		5.0	1		09/30/10 01:51	67-66-3	
Chloromethane	ND ug/L		5.0	1		09/30/10 01:51	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		09/30/10 01:51	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	1		09/30/10 01:51	106-43-4	
Dibromochloromethane	5.0 ug/L		5.0	1		09/30/10 01:51	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		09/30/10 01:51	106-93-4	
Dibromomethane	ND ug/L		5.0	1		09/30/10 01:51	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		09/30/10 01:51	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		09/30/10 01:51	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		09/30/10 01:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		09/30/10 01:51	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		09/30/10 01:51	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		09/30/10 01:51	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		09/30/10 01:51	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		09/30/10 01:51	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		09/30/10 01:51	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		09/30/10 01:51	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		09/30/10 01:51	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		09/30/10 01:51	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		09/30/10 01:51	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		09/30/10 01:51	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		09/30/10 01:51	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		09/30/10 01:51	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		09/30/10 01:51	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		09/30/10 01:51	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		09/30/10 01:51	87-68-3	
2-Hexanone	ND ug/L		25.0	1		09/30/10 01:51	591-78-6	
Iodomethane	ND ug/L		10.0	1		09/30/10 01:51	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		09/30/10 01:51	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		09/30/10 01:51	99-87-6	

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### REPORT OF LABORATORY ANALYSIS

Page 16 of 36

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## ANALYTICAL RESULTS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

Sample: KENDALL GP-3		Lab ID: 5041827013	Collected: 09/24/10 12:05	Received: 09/25/10 12:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Methylene chloride	ND	ug/L	5.0	1		09/30/10 01:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		09/30/10 01:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/30/10 01:51	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/30/10 01:51	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		09/30/10 01:51	103-65-1	
Styrene	ND	ug/L	5.0	1		09/30/10 01:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/30/10 01:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/30/10 01:51	79-34-5	
Tetrachloroethene	11.6	ug/L	5.0	1		09/30/10 01:51	127-18-4	
Toluene	ND	ug/L	5.0	1		09/30/10 01:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		09/30/10 01:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		09/30/10 01:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/30/10 01:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/30/10 01:51	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/30/10 01:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/30/10 01:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/30/10 01:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		09/30/10 01:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		09/30/10 01:51	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		09/30/10 01:51	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		09/30/10 01:51	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/30/10 01:51	1330-20-7	
Dibromofluoromethane (S)	98 %		80-123	1		09/30/10 01:51	1868-53-7	
4-Bromofluorobenzene (S)	96 %		70-126	1		09/30/10 01:51	460-00-4	
Toluene-d8 (S)	99 %		80-116	1		09/30/10 01:51	2037-26-5	

## ANALYTICAL RESULTS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

Sample: KENDALL GP-4	Lab ID: 5041827014	Collected: 09/24/10 13:00	Received: 09/25/10 12:07	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		09/30/10 14:41	67-64-1	
Acrolein	ND ug/L		50.0	1		09/30/10 14:41	107-02-8	
Acrylonitrile	ND ug/L		100	1		09/30/10 14:41	107-13-1	
Benzene	ND ug/L		5.0	1		09/30/10 14:41	71-43-2	
Bromobenzene	ND ug/L		5.0	1		09/30/10 14:41	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		09/30/10 14:41	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		09/30/10 14:41	75-27-4	
Bromoform	ND ug/L		5.0	1		09/30/10 14:41	75-25-2	
Bromomethane	ND ug/L		5.0	1		09/30/10 14:41	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		09/30/10 14:41	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		09/30/10 14:41	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		09/30/10 14:41	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		09/30/10 14:41	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		09/30/10 14:41	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		09/30/10 14:41	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		09/30/10 14:41	108-90-7	
Chloroethane	ND ug/L		5.0	1		09/30/10 14:41	75-00-3	
Chloroform	ND ug/L		5.0	1		09/30/10 14:41	67-66-3	
Chloromethane	ND ug/L		5.0	1		09/30/10 14:41	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		09/30/10 14:41	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	1		09/30/10 14:41	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		09/30/10 14:41	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		09/30/10 14:41	106-93-4	
Dibromomethane	ND ug/L		5.0	1		09/30/10 14:41	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		09/30/10 14:41	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		09/30/10 14:41	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		09/30/10 14:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		09/30/10 14:41	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		09/30/10 14:41	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		09/30/10 14:41	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		09/30/10 14:41	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		09/30/10 14:41	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		09/30/10 14:41	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		09/30/10 14:41	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		09/30/10 14:41	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		09/30/10 14:41	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		09/30/10 14:41	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		09/30/10 14:41	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		09/30/10 14:41	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		09/30/10 14:41	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		09/30/10 14:41	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		09/30/10 14:41	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		09/30/10 14:41	87-68-3	
2-Hexanone	ND ug/L		25.0	1		09/30/10 14:41	591-78-6	
Iodomethane	ND ug/L		10.0	1		09/30/10 14:41	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		09/30/10 14:41	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		09/30/10 14:41	99-87-6	

Date: 10/04/2010 03:11 PM

### REPORT OF LABORATORY ANALYSIS

Page 18 of 36

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## ANALYTICAL RESULTS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

Sample: KENDALL GP-4		Lab ID: 5041827014	Collected: 09/24/10 13:00	Received: 09/25/10 12:07	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260						
Methylene chloride	ND	ug/L	5.0	1		09/30/10 14:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		09/30/10 14:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		09/30/10 14:41	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		09/30/10 14:41	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		09/30/10 14:41	103-65-1	
Styrene	ND	ug/L	5.0	1		09/30/10 14:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		09/30/10 14:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/30/10 14:41	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/30/10 14:41	127-18-4	
Toluene	ND	ug/L	5.0	1		09/30/10 14:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		09/30/10 14:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		09/30/10 14:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/30/10 14:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/30/10 14:41	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/30/10 14:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/30/10 14:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		09/30/10 14:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		09/30/10 14:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		09/30/10 14:41	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		09/30/10 14:41	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		09/30/10 14:41	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		09/30/10 14:41	1330-20-7	
Dibromofluoromethane (S)	98 %		80-123	1		09/30/10 14:41	1868-53-7	
4-Bromofluorobenzene (S)	93 %		70-126	1		09/30/10 14:41	460-00-4	
Toluene-d8 (S)	98 %		80-116	1		09/30/10 14:41	2037-26-5	

**QUALITY CONTROL DATA**

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

QC Batch: OEXT/21011 Analysis Method: EPA 8015 Mod Ext  
 QC Batch Method: EPA 3546 Analysis Description: EPA 8015 Modified  
 Associated Lab Samples: 5041827001, 5041827005, 5041827009, 5041827010

METHOD BLANK: 487182 Matrix: Solid  
 Associated Lab Samples: 5041827001, 5041827005, 5041827009, 5041827010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
High End Organics (C8-C34)	mg/kg	ND	10.0	09/28/10 06:19	
n-Pentacosane (S)	%	75	30-126	09/28/10 06:19	

LABORATORY CONTROL SAMPLE: 487183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
High End Organics (C8-C34)	mg/kg	83.3	60.1	72	47-107	
n-Pentacosane (S)	%			79	30-126	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 487184 487185

Parameter	Units	5041606031 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
High End Organics (C8-C34)	mg/kg	756	93.5	93.5	1010	1690	268	998	23-115	51	20	P6,R1
n-Pentacosane (S)	%						0	0	30-126		20	S4



### QUALITY CONTROL DATA

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

QC Batch: MSV/27065 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 5041827012, 5041827013

METHOD BLANK: 488803 Matrix: Water

Associated Lab Samples: 5041827012, 5041827013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	09/30/10 00:01	
1,1,1-Trichloroethane	ug/L	ND	5.0	09/30/10 00:01	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	09/30/10 00:01	
1,1,2-Trichloroethane	ug/L	ND	5.0	09/30/10 00:01	
1,1-Dichloroethane	ug/L	ND	5.0	09/30/10 00:01	
1,1-Dichloroethene	ug/L	ND	5.0	09/30/10 00:01	
1,1-Dichloropropene	ug/L	ND	5.0	09/30/10 00:01	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	09/30/10 00:01	
1,2,3-Trichloropropane	ug/L	ND	5.0	09/30/10 00:01	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	09/30/10 00:01	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	09/30/10 00:01	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	09/30/10 00:01	
1,2-Dichlorobenzene	ug/L	ND	5.0	09/30/10 00:01	
1,2-Dichloroethane	ug/L	ND	5.0	09/30/10 00:01	
1,2-Dichloropropane	ug/L	ND	5.0	09/30/10 00:01	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	09/30/10 00:01	
1,3-Dichlorobenzene	ug/L	ND	5.0	09/30/10 00:01	
1,3-Dichloropropane	ug/L	ND	5.0	09/30/10 00:01	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/30/10 00:01	
2,2-Dichloropropane	ug/L	ND	5.0	09/30/10 00:01	
2-Butanone (MEK)	ug/L	ND	25.0	09/30/10 00:01	
2-Chlorotoluene	ug/L	ND	5.0	09/30/10 00:01	
2-Hexanone	ug/L	ND	25.0	09/30/10 00:01	
4-Chlorotoluene	ug/L	ND	5.0	09/30/10 00:01	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	09/30/10 00:01	
Acetone	ug/L	ND	100	09/30/10 00:01	
Acrolein	ug/L	ND	50.0	09/30/10 00:01	
Acrylonitrile	ug/L	ND	100	09/30/10 00:01	
Benzene	ug/L	ND	5.0	09/30/10 00:01	
Bromobenzene	ug/L	ND	5.0	09/30/10 00:01	
Bromochloromethane	ug/L	ND	5.0	09/30/10 00:01	
Bromodichloromethane	ug/L	ND	5.0	09/30/10 00:01	
Bromoform	ug/L	ND	5.0	09/30/10 00:01	
Bromomethane	ug/L	ND	5.0	09/30/10 00:01	
Carbon disulfide	ug/L	ND	10.0	09/30/10 00:01	
Carbon tetrachloride	ug/L	ND	5.0	09/30/10 00:01	
Chlorobenzene	ug/L	ND	5.0	09/30/10 00:01	
Chloroethane	ug/L	ND	5.0	09/30/10 00:01	
Chloroform	ug/L	ND	5.0	09/30/10 00:01	
Chloromethane	ug/L	ND	5.0	09/30/10 00:01	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/30/10 00:01	
cis-1,3-Dichloropropene	ug/L	ND	5.0	09/30/10 00:01	
Dibromochloromethane	ug/L	ND	5.0	09/30/10 00:01	

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### REPORT OF LABORATORY ANALYSIS

Page 21 of 36

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### QUALITY CONTROL DATA

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

METHOD BLANK: 488803

Matrix: Water

Associated Lab Samples: 5041827012, 5041827013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	09/30/10 00:01	
Dichlorodifluoromethane	ug/L	ND	5.0	09/30/10 00:01	
Ethyl methacrylate	ug/L	ND	100	09/30/10 00:01	
Ethylbenzene	ug/L	ND	5.0	09/30/10 00:01	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	09/30/10 00:01	
Iodomethane	ug/L	ND	10.0	09/30/10 00:01	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	09/30/10 00:01	
Methyl-tert-butyl ether	ug/L	ND	4.0	09/30/10 00:01	
Methylene chloride	ug/L	ND	5.0	09/30/10 00:01	
n-Butylbenzene	ug/L	ND	5.0	09/30/10 00:01	
n-Propylbenzene	ug/L	ND	5.0	09/30/10 00:01	
Naphthalene	ug/L	ND	5.0	09/30/10 00:01	
p-Isopropyltoluene	ug/L	ND	5.0	09/30/10 00:01	
sec-Butylbenzene	ug/L	ND	5.0	09/30/10 00:01	
Styrene	ug/L	ND	5.0	09/30/10 00:01	
tert-Butylbenzene	ug/L	ND	5.0	09/30/10 00:01	
Tetrachloroethene	ug/L	ND	5.0	09/30/10 00:01	
Toluene	ug/L	ND	5.0	09/30/10 00:01	
trans-1,2-Dichloroethene	ug/L	ND	5.0	09/30/10 00:01	
trans-1,3-Dichloropropene	ug/L	ND	5.0	09/30/10 00:01	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	09/30/10 00:01	
Trichloroethene	ug/L	ND	5.0	09/30/10 00:01	
Trichlorofluoromethane	ug/L	ND	5.0	09/30/10 00:01	
Vinyl acetate	ug/L	ND	10.0	09/30/10 00:01	
Vinyl chloride	ug/L	ND	2.0	09/30/10 00:01	
Xylene (Total)	ug/L	ND	10.0	09/30/10 00:01	
4-Bromofluorobenzene (S)	%	90	70-126	09/30/10 00:01	
Dibromofluoromethane (S)	%	97	80-123	09/30/10 00:01	
Toluene-d8 (S)	%	99	80-116	09/30/10 00:01	

LABORATORY CONTROL SAMPLE: 488804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	39.5	79	69-130	
1,1,1-Trichloroethane	ug/L	50	42.3	85	69-136	
1,1,2,2-Tetrachloroethane	ug/L	50	63.9	128	69-131	
1,1,2-Trichloroethane	ug/L	50	53.9	108	77-132	
1,1-Dichloroethane	ug/L	50	52.3	105	67-133	
1,1-Dichloroethene	ug/L	50	52.5	105	63-128	
1,1-Dichloropropene	ug/L	50	48.1	96	75-134	
1,2,3-Trichlorobenzene	ug/L	50	46.1	92	58-131	
1,2,3-Trichloropropane	ug/L	100	85.5	85	60-131	
1,2,4-Trichlorobenzene	ug/L	50	40.5	81	60-130	
1,2,4-Trimethylbenzene	ug/L	50	50.4	101	73-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.8	104	75-126	

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### REPORT OF LABORATORY ANALYSIS

Page 22 of 36

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### QUALITY CONTROL DATA

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

LABORATORY CONTROL SAMPLE: 488804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	50	52.2	104	76-124	
1,2-Dichloroethane	ug/L	50	51.6	103	69-139	
1,2-Dichloropropane	ug/L	50	53.5	107	76-129	
1,3,5-Trimethylbenzene	ug/L	50	54.0	108	74-130	
1,3-Dichlorobenzene	ug/L	50	52.3	105	76-125	
1,3-Dichloropropane	ug/L	50	58.7	117	74-126	
1,4-Dichlorobenzene	ug/L	50	50.5	101	75-122	
2,2-Dichloropropane	ug/L	50	35.5	71	53-144	
2-Butanone (MEK)	ug/L	250	268	107	47-189	
2-Chlorotoluene	ug/L	50	54.8	110	72-128	
2-Hexanone	ug/L	250	318	127	57-167	
4-Chlorotoluene	ug/L	50	55.7	111	73-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	281	113	61-135	
Acetone	ug/L	250	299	120	30-170	
Acrolein	ug/L	1000	789	79	30-170	
Acrylonitrile	ug/L	1000	1060	106	67-136	
Benzene	ug/L	50	49.6	99	78-127	
Bromobenzene	ug/L	50	48.4	97	62-139	
Bromochloromethane	ug/L	50	53.7	107	54-162	
Bromodichloromethane	ug/L	50	47.9	96	69-133	
Bromoform	ug/L	50	42.2	84	60-127	
Bromomethane	ug/L	50	33.9	68	30-170	
Carbon disulfide	ug/L	100	85.6	86	58-152	
Carbon tetrachloride	ug/L	50	37.3	75	62-143	
Chlorobenzene	ug/L	50	52.2	104	75-123	
Chloroethane	ug/L	50	50.3	101	56-153	
Chloroform	ug/L	50	49.6	99	74-131	
Chloromethane	ug/L	50	44.3	89	35-147	
cis-1,2-Dichloroethene	ug/L	50	48.9	98	74-128	
cis-1,3-Dichloropropene	ug/L	50	42.2	84	58-123	
Dibromochloromethane	ug/L	50	41.9	84	66-131	
Dibromomethane	ug/L	50	52.2	104	73-133	
Dichlorodifluoromethane	ug/L	50	33.7	67	30-170	
Ethyl methacrylate	ug/L	200	206	103	59-138	
Ethylbenzene	ug/L	50	51.7	103	81-126	
Hexachloro-1,3-butadiene	ug/L	50	42.0	84	70-130	
Iodomethane	ug/L	100	78.1	78	41-170	
Isopropylbenzene (Cumene)	ug/L	50	47.7	95	80-130	
Methyl-tert-butyl ether	ug/L	100	95.2	95	66-147	
Methylene chloride	ug/L	50	40.1	80	32-164	
n-Butylbenzene	ug/L	50	48.4	97	68-135	
n-Propylbenzene	ug/L	50	56.0	112	71-132	
Naphthalene	ug/L	50	51.5	103	61-135	
p-Isopropyltoluene	ug/L	50	50.3	101	66-131	
sec-Butylbenzene	ug/L	50	52.9	106	73-130	
Styrene	ug/L	50	50.7	101	74-128	
tert-Butylbenzene	ug/L	50	44.4	89	63-117	
Tetrachloroethene	ug/L	50	45.0	90	60-119	

Date: 10/04/2010 03:11 PM

### REPORT OF LABORATORY ANALYSIS

Page 23 of 36

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### QUALITY CONTROL DATA

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

LABORATORY CONTROL SAMPLE: 488804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	51.5	103	75-129	
trans-1,2-Dichloroethene	ug/L	50	51.2	102	71-126	
trans-1,3-Dichloropropene	ug/L	50	36.9	74	54-123	
trans-1,4-Dichloro-2-butene	ug/L	200	162	81	47-141	
Trichloroethene	ug/L	50	49.1	98	74-130	
Trichlorofluoromethane	ug/L	50	50.5	101	62-150	
Vinyl acetate	ug/L	200	149	74	41-145	
Vinyl chloride	ug/L	50	44.7	89	55-141	
Xylene (Total)	ug/L	150	153	102	76-132	
4-Bromofluorobenzene (S)	%			93	70-126	
Dibromofluoromethane (S)	%			99	80-123	
Toluene-d8 (S)	%			101	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 488805 488806

Parameter	Units	5041827012		MS	MSD	MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	50	33.0	32.6	66	65	55-131	1	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	50	37.6	40.2	75	80	64-143	7	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	50	55.0	55.0	110	110	64-142	.1	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	50	47.4	48.3	95	97	71-143	2	20	
1,1-Dichloroethane	ug/L	ND	50	50	50	46.8	50.2	94	100	68-139	7	20	
1,1-Dichloroethene	ug/L	ND	50	50	50	49.4	51.7	99	103	55-140	4	20	
1,1-Dichloropropene	ug/L	ND	50	50	50	44.7	43.3	89	87	66-140	3	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	50	37.7	31.3	75	63	33-140	19	20	
1,2,3-Trichloropropane	ug/L	ND	100	100	100	65.3	71.8	65	72	58-133	9	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	50	34.6	26.8	69	54	28-140	25	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	50	43.7	31.3	87	63	39-146	33	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	50	45.5	45.7	91	91	67-134	.4	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	50	44.4	36.6	89	73	48-137	19	20	
1,2-Dichloroethane	ug/L	ND	50	50	50	46.8	50.0	94	100	63-148	7	20	
1,2-Dichloropropane	ug/L	ND	50	50	50	47.6	48.4	95	97	70-136	2	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	50	46.9	33.9	94	68	39-145	32	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	50	44.7	34.3	89	69	40-143	26	20	
1,3-Dichloropropane	ug/L	ND	50	50	50	51.6	51.2	103	102	65-133	.7	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	50	43.3	33.2	87	66	38-142	26	20	
2,2-Dichloropropane	ug/L	ND	50	50	50	30.1	35.5	60	71	35-157	17	20	
2-Butanone (MEK)	ug/L	ND	250	250	250	231	252	92	101	62-132	9	20	
2-Chlorotoluene	ug/L	ND	50	50	50	47.3	36.6	95	73	44-143	25	20	
2-Hexanone	ug/L	ND	250	250	250	261	274	104	110	61-141	5	20	
4-Chlorotoluene	ug/L	ND	50	50	50	48.0	36.4	96	73	43-140	27	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	250	240	253	96	101	57-135	5	20	
Acetone	ug/L	ND	250	250	250	261	293	105	117	30-170	12	20	
Acrolein	ug/L	ND	1000	1000	1000	1500	1700	150	170	30-170	12	20	
Acrylonitrile	ug/L	ND	1000	1000	1000	955	1030	96	103	66-137	7	20	
Benzene	ug/L	ND	50	50	50	46.0	47.0	92	94	63-141	2	20	
Bromobenzene	ug/L	ND	50	50	50	42.0	35.4	84	71	57-128	17	20	

Date: 10/04/2010 03:11 PM

### REPORT OF LABORATORY ANALYSIS

Page 24 of 36

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### QUALITY CONTROL DATA

Project: KENDALL ST GARAGE

Peace Project No.: 5041827

Parameter	5041827012		MS		MSD		MS		MSD		MS		MSD		% Rec		Max		Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	Limits	RPD	RPD	RPD	RPD		
Bromochloromethane	ug/L	ND	50	50	48.0	50.7	96	101	65-157	5	20								
Bromodichloromethane	ug/L	ND	50	50	41.0	43.8	82	88	63-135	7	20								
Bromoform	ug/L	ND	50	50	33.4	35.8	67	72	58-124	7	20								
Bromomethane	ug/L	ND	50	50	30.1	34.1	60	68	30-170	12	20								
Carbon disulfide	ug/L	ND	100	100	89.9	91.7	90	92	46-162	2	20								
Carbon tetrachloride	ug/L	ND	50	50	31.5	34.2	63	68	54-145	8	20								
Chlorobenzene	ug/L	ND	50	50	46.7	39.3	93	79	56-133	17	20								
Chloroethane	ug/L	ND	50	50	47.0	50.7	94	101	54-157	8	20								
Chloroform	ug/L	ND	50	50	45.4	47.0	91	94	67-134	3	20								
Chloromethane	ug/L	ND	50	50	42.4	43.6	85	87	36-137	3	20								
cis-1,2-Dichloroethene	ug/L	ND	50	50	43.7	44.8	87	90	65-132	3	20								
cis-1,3-Dichloropropene	ug/L	ND	50	50	37.0	37.0	74	74	46-121	.09	20								
Dibromochloromethane	ug/L	ND	50	50	34.7	36.2	69	72	64-124	4	20								
Dibromomethane	ug/L	ND	50	50	46.5	49.8	93	100	67-144	7	20								
Dichlorodifluoromethane	ug/L	ND	50	50	32.4	34.9	65	70	30-163	7	20								
Ethyl methacrylate	ug/L	ND	200	200	178	188	89	94	52-140	5	20								
Ethylbenzene	ug/L	ND	50	50	45.6	37.3	91	75	44-151	20	20								
Hexachloro-1,3-butadiene	ug/L	ND	50	50	34.2	19.4	68	39	30-145	55	20								
Iodomethane	ug/L	ND	100	100	70.4	76.5	70	76	28-168	8	20								
Isopropylbenzene (Cumene)	ug/L	ND	50	50	42.0	31.5	84	63	40-148	29	20	1d							
Methyl-tert-butyl ether	ug/L	ND	100	100	85.3	93.6	85	94	52-156	9	20								
Methylene chloride	ug/L	ND	50	50	41.0	44.4	82	89	46-154	8	20								
n-Butylbenzene	ug/L	ND	50	50	41.4	25.0	83	50	27-153	49	20								
n-Propylbenzene	ug/L	ND	50	50	48.2	34.4	96	69	40-148	33	20								
Naphthalene	ug/L	ND	50	50	40.8	39.8	82	80	44-138	2	20								
p-Isopropyltoluene	ug/L	ND	50	50	42.9	27.9	86	56	34-146	42	20								
sec-Butylbenzene	ug/L	ND	50	50	45.0	30.6	90	61	38-150	38	20								
Styrene	ug/L	ND	50	50	45.4	36.4	91	73	38-141	22	20								
tert-Butylbenzene	ug/L	ND	50	50	42.9	31.2	86	62	32-133	32	20								
Tetrachloroethene	ug/L	15.0	50	50	55.5	47.3	81	64	25-146	16	20								
Toluene	ug/L	ND	50	50	46.2	41.0	88	77	59-142	12	20								
trans-1,2-Dichloroethene	ug/L	ND	50	50	47.2	47.1	94	94	60-137	.3	20								
trans-1,3-Dichloropropene	ug/L	ND	50	50	31.3	32.2	63	64	43-117	3	20								
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	137	137	69	69	44-139	.2	20								
Trichloroethene	ug/L	ND	50	50	42.4	41.0	85	82	61-137	3	20								
Trichlorofluoromethane	ug/L	ND	50	50	47.6	50.5	95	101	53-162	6	20								
Vinyl acetate	ug/L	ND	200	200	127	149	63	75	24-132	16	20								
Vinyl chloride	ug/L	ND	50	50	42.5	45.4	85	91	51-144	6	20								
Xylene (Total)	ug/L	ND	150	150	136	107	91	71	44-152	24	20								
4-Bromofluorobenzene (S)	%						94	92	70-126		20								
Dibromofluoromethane (S)	%						98	102	80-123		20								
Toluene-d8 (S)	%						103	101	80-116		20								

### QUALITY CONTROL DATA

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

QC Batch: MSV/27107 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 5041827011, 5041827014

METHOD BLANK: 489554 Matrix: Water

Associated Lab Samples: 5041827011, 5041827014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	09/30/10 12:24	
1,1,1-Trichloroethane	ug/L	ND	5.0	09/30/10 12:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	09/30/10 12:24	
1,1,2-Trichloroethane	ug/L	ND	5.0	09/30/10 12:24	
1,1-Dichloroethane	ug/L	ND	5.0	09/30/10 12:24	
1,1-Dichloroethene	ug/L	ND	5.0	09/30/10 12:24	
1,1-Dichloropropene	ug/L	ND	5.0	09/30/10 12:24	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	09/30/10 12:24	
1,2,3-Trichloropropane	ug/L	ND	5.0	09/30/10 12:24	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	09/30/10 12:24	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	09/30/10 12:24	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	09/30/10 12:24	
1,2-Dichlorobenzene	ug/L	ND	5.0	09/30/10 12:24	
1,2-Dichloroethane	ug/L	ND	5.0	09/30/10 12:24	
1,2-Dichloropropane	ug/L	ND	5.0	09/30/10 12:24	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	09/30/10 12:24	
1,3-Dichlorobenzene	ug/L	ND	5.0	09/30/10 12:24	
1,3-Dichloropropane	ug/L	ND	5.0	09/30/10 12:24	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/30/10 12:24	
2,2-Dichloropropane	ug/L	ND	5.0	09/30/10 12:24	
2-Butanone (MEK)	ug/L	ND	25.0	09/30/10 12:24	
2-Chlorotoluene	ug/L	ND	5.0	09/30/10 12:24	
2-Hexanone	ug/L	ND	25.0	09/30/10 12:24	
4-Chlorotoluene	ug/L	ND	5.0	09/30/10 12:24	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	09/30/10 12:24	
Acetone	ug/L	ND	100	09/30/10 12:24	
Acrolein	ug/L	ND	50.0	09/30/10 12:24	
Acrylonitrile	ug/L	ND	100	09/30/10 12:24	
Benzene	ug/L	ND	5.0	09/30/10 12:24	
Bromobenzene	ug/L	ND	5.0	09/30/10 12:24	
Bromochloromethane	ug/L	ND	5.0	09/30/10 12:24	
Bromodichloromethane	ug/L	ND	5.0	09/30/10 12:24	
Bromoform	ug/L	ND	5.0	09/30/10 12:24	
Bromomethane	ug/L	ND	5.0	09/30/10 12:24	
Carbon disulfide	ug/L	ND	10.0	09/30/10 12:24	
Carbon tetrachloride	ug/L	ND	5.0	09/30/10 12:24	
Chlorobenzene	ug/L	ND	5.0	09/30/10 12:24	
Chloroethane	ug/L	ND	5.0	09/30/10 12:24	
Chloroform	ug/L	ND	5.0	09/30/10 12:24	
Chloromethane	ug/L	ND	5.0	09/30/10 12:24	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/30/10 12:24	
cis-1,3-Dichloropropene	ug/L	ND	5.0	09/30/10 12:24	
Dibromochloromethane	ug/L	ND	5.0	09/30/10 12:24	

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### REPORT OF LABORATORY ANALYSIS

Page 26 of 36

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### QUALITY CONTROL DATA

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

METHOD BLANK: 489554

Matrix: Water

Associated Lab Samples: 5041827011, 5041827014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	09/30/10 12:24	
Dichlorodifluoromethane	ug/L	ND	5.0	09/30/10 12:24	
Ethyl methacrylate	ug/L	ND	100	09/30/10 12:24	
Ethylbenzene	ug/L	ND	5.0	09/30/10 12:24	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	09/30/10 12:24	
Iodomethane	ug/L	ND	10.0	09/30/10 12:24	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	09/30/10 12:24	
Methyl-tert-butyl ether	ug/L	ND	4.0	09/30/10 12:24	
Methylene chloride	ug/L	ND	5.0	09/30/10 12:24	
n-Butylbenzene	ug/L	ND	5.0	09/30/10 12:24	
n-Propylbenzene	ug/L	ND	5.0	09/30/10 12:24	
Naphthalene	ug/L	ND	5.0	09/30/10 12:24	
p-Isopropyltoluene	ug/L	ND	5.0	09/30/10 12:24	
sec-Butylbenzene	ug/L	ND	5.0	09/30/10 12:24	
Styrene	ug/L	ND	5.0	09/30/10 12:24	
tert-Butylbenzene	ug/L	ND	5.0	09/30/10 12:24	
Tetrachloroethene	ug/L	ND	5.0	09/30/10 12:24	
Toluene	ug/L	ND	5.0	09/30/10 12:24	
trans-1,2-Dichloroethene	ug/L	ND	5.0	09/30/10 12:24	
trans-1,3-Dichloropropene	ug/L	ND	5.0	09/30/10 12:24	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	09/30/10 12:24	
Trichloroethene	ug/L	ND	5.0	09/30/10 12:24	
Trichlorofluoromethane	ug/L	ND	5.0	09/30/10 12:24	
Vinyl acetate	ug/L	ND	10.0	09/30/10 12:24	
Vinyl chloride	ug/L	ND	2.0	09/30/10 12:24	
Xylene (Total)	ug/L	ND	10.0	09/30/10 12:24	
4-Bromofluorobenzene (S)	%	93	70-126	09/30/10 12:24	
Dibromofluoromethane (S)	%	98	80-123	09/30/10 12:24	
Toluene-d8 (S)	%	99	80-116	09/30/10 12:24	

LABORATORY CONTROL SAMPLE: 489555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	38.7	77	69-130	
1,1,1-Trichloroethane	ug/L	50	43.0	86	69-136	
1,1,2,2-Tetrachloroethane	ug/L	50	59.9	120	69-131	
1,1,2-Trichloroethane	ug/L	50	52.7	105	77-132	
1,1-Dichloroethane	ug/L	50	53.9	108	67-133	
1,1-Dichloroethene	ug/L	50	48.4	97	63-128	
1,1-Dichloropropene	ug/L	50	49.6	99	75-134	
1,2,3-Trichlorobenzene	ug/L	50	46.9	94	58-131	
1,2,3-Trichloropropane	ug/L	100	82.6	83	60-131	
1,2,4-Trichlorobenzene	ug/L	50	45.1	90	60-130	
1,2,4-Trimethylbenzene	ug/L	50	52.7	105	73-130	
1,2-Dibromoethane (EDB)	ug/L	50	51.5	103	75-126	

Date: 10/04/2010 03:11 PM

### REPORT OF LABORATORY ANALYSIS

Page 27 of 36

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### QUALITY CONTROL DATA

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

LABORATORY CONTROL SAMPLE: 489555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	50	53.1	106	76-124	
1,2-Dichloroethane	ug/L	50	51.7	103	69-139	
1,2-Dichloropropane	ug/L	50	54.6	109	76-129	
1,3,5-Trimethylbenzene	ug/L	50	56.2	112	74-130	
1,3-Dichlorobenzene	ug/L	50	53.5	107	76-125	
1,3-Dichloropropane	ug/L	50	57.2	114	74-126	
1,4-Dichlorobenzene	ug/L	50	52.3	105	75-122	
2,2-Dichloropropane	ug/L	50	37.7	75	53-144	
2-Butanone (MEK)	ug/L	250	349	140	47-189	
2-Chlorotoluene	ug/L	50	56.1	112	72-128	
2-Hexanone	ug/L	250	381	153	57-167	
4-Chlorotoluene	ug/L	50	57.7	115	73-124	
4-Methyl-2-pentanone (MIBK)	ug/L	250	273	109	61-135	
Acetone	ug/L	250	497	199	30-170	L3
Acrolein	ug/L	1000	578	58	30-170	
Acrylonitrile	ug/L	1000	1080	108	67-136	
Benzene	ug/L	50	50.5	101	78-127	
Bromobenzene	ug/L	50	50.2	100	62-139	
Bromochloromethane	ug/L	50	54.6	109	54-162	
Bromodichloromethane	ug/L	50	47.8	96	69-133	
Bromoform	ug/L	50	39.7	79	60-127	
Bromomethane	ug/L	50	32.4	65	30-170	
Carbon disulfide	ug/L	100	87.3	87	58-152	
Carbon tetrachloride	ug/L	50	37.0	74	62-143	
Chlorobenzene	ug/L	50	53.9	108	75-123	
Chloroethane	ug/L	50	46.7	93	56-153	
Chloroform	ug/L	50	50.7	101	74-131	
Chloromethane	ug/L	50	45.5	91	35-147	
cis-1,2-Dichloroethene	ug/L	50	49.5	99	74-128	
cis-1,3-Dichloropropene	ug/L	50	42.5	85	58-123	
Dibromochloromethane	ug/L	50	40.7	81	66-131	
Dibromomethane	ug/L	50	52.2	104	73-133	
Dichlorodifluoromethane	ug/L	50	33.6	67	30-170	
Ethyl methacrylate	ug/L	200	201	100	59-138	
Ethylbenzene	ug/L	50	53.4	107	81-126	
Hexachloro-1,3-butadiene	ug/L	50	46.3	93	70-130	
Iodomethane	ug/L	100	72.2	72	41-170	
Isopropylbenzene (Cumene)	ug/L	50	50.9	102	80-130	
Methyl-tert-butyl ether	ug/L	100	94.6	95	66-147	
Methylene chloride	ug/L	50	40.6	81	32-164	
n-Butylbenzene	ug/L	50	54.0	108	68-135	
n-Propylbenzene	ug/L	50	58.3	117	71-132	
Naphthalene	ug/L	50	49.4	99	61-135	
p-Isopropyltoluene	ug/L	50	53.5	107	66-131	
sec-Butylbenzene	ug/L	50	55.6	111	73-130	
Styrene	ug/L	50	52.8	106	74-128	
tert-Butylbenzene	ug/L	50	46.0	92	63-117	
Tetrachloroethene	ug/L	50	47.2	94	60-119	

Date: 10/04/2010 03:11 PM

### REPORT OF LABORATORY ANALYSIS

Page 28 of 36

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**QUALITY CONTROL DATA**

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

LABORATORY CONTROL SAMPLE: 489555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	50.8	102	75-129	
trans-1,2-Dichloroethene	ug/L	50	51.9	104	71-126	
trans-1,3-Dichloropropene	ug/L	50	37.5	75	54-123	
trans-1,4-Dichloro-2-butene	ug/L	200	174	87	47-141	
Trichloroethene	ug/L	50	50.9	102	74-130	
Trichlorofluoromethane	ug/L	50	50.2	100	62-150	
Vinyl acetate	ug/L	200	149	75	41-145	
Vinyl chloride	ug/L	50	44.0	88	55-141	
Xylene (Total)	ug/L	150	160	107	76-132	
4-Bromofluorobenzene (S)	%			97	70-126	
Dibromofluoromethane (S)	%			97	80-123	
Toluene-d8 (S)	%			99	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 489556 489557

Parameter	Units	5041696005		MS	MSD	MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	35.6	37.8	71	76	55-131	6	20		
1,1,1-Trichloroethane	ug/L	ND	50	50	40.7	43.7	81	87	64-143	7	20		
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	57.7	56.8	115	114	64-142	1	20		
1,1,2-Trichloroethane	ug/L	ND	50	50	49.9	50.3	100	101	71-143	.9	20		
1,1-Dichloroethane	ug/L	ND	50	50	50.8	51.5	102	103	68-139	1	20		
1,1-Dichloropropene	ug/L	ND	50	50	46.3	48.0	93	96	55-140	4	20		
1,1-Dichloropropene	ug/L	ND	50	50	47.5	48.3	95	97	66-140	2	20		
1,2,3-Trichlorobenzene	ug/L	ND	50	50	40.1	41.9	80	84	33-140	5	20		
1,2,3-Trichloropropane	ug/L	ND	100	100	74.1	75.8	74	76	58-133	2	20		
1,2,4-Trichlorobenzene	ug/L	ND	50	50	38.1	39.6	76	79	28-140	4	20		
1,2,4-Trimethylbenzene	ug/L	ND	50	50	47.0	47.0	94	94	39-146	.2	20		
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	47.1	47.8	94	96	67-134	2	20		
1,2-Dichlorobenzene	ug/L	ND	50	50	48.2	47.7	96	95	48-137	1	20		
1,2-Dichloroethane	ug/L	ND	50	50	50.5	50.1	101	100	63-148	.9	20		
1,2-Dichloropropane	ug/L	ND	50	50	51.5	51.8	103	104	70-136	.6	20		
1,3,5-Trimethylbenzene	ug/L	ND	50	50	50.4	50.2	101	100	39-145	.3	20		
1,3-Dichlorobenzene	ug/L	ND	50	50	48.2	48.6	96	97	40-143	.7	20		
1,3-Dichloropropane	ug/L	ND	50	50	53.2	53.4	106	107	65-133	.2	20		
1,4-Dichlorobenzene	ug/L	ND	50	50	46.9	46.7	94	93	38-142	.6	20		
2,2-Dichloropropane	ug/L	ND	50	50	33.1	37.7	66	75	35-157	13	20		
2-Butanone (MEK)	ug/L	ND	250	250	252	239	101	96	62-132	5	20		
2-Chlorotoluene	ug/L	ND	50	50	50.8	51.0	102	102	44-143	.4	20		
2-Hexanone	ug/L	ND	250	250	268	266	107	106	61-141	.9	20		
4-Chlorotoluene	ug/L	ND	50	50	51.8	51.4	104	103	43-140	.9	20		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	240	238	96	95	57-135	.9	20		
Acetone	ug/L	ND	250	250	254	238	102	95	30-170	6	20		
Acrolein	ug/L	ND	1000	1000	1370	1330	137	133	30-170	3	20		
Acrylonitrile	ug/L	ND	1000	1000	999	977	100	98	66-137	2	20		
Benzene	ug/L	ND	50	50	48.2	49.1	96	98	63-141	2	20		
Bromobenzene	ug/L	ND	50	50	44.8	45.5	90	91	57-128	2	20		

Date: 10/04/2010 03:11 PM

**REPORT OF LABORATORY ANALYSIS**

Page 29 of 36

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### QUALITY CONTROL DATA

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

Parameter	5041696005		MS	MSD	489556		489557		% Rec	Limits	RPD	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Bromochloromethane	ug/L	ND	50	50	51.8	52.4	104	105	65-157	1	20		
Bromodichloromethane	ug/L	ND	50	50	45.9	47.4	92	95	63-135	3	20		
Bromoform	ug/L	ND	50	50	36.3	38.7	73	77	58-124	6	20		
Bromomethane	ug/L	ND	50	50	26.1	33.3	52	67	30-170	24	20	R1	
Carbon disulfide	ug/L	ND	100	100	84.1	85.7	84	86	46-162	2	20		
Carbon tetrachloride	ug/L	ND	50	50	34.8	38.4	70	77	54-145	10	20		
Chlorobenzene	ug/L	ND	50	50	49.4	49.0	99	98	56-133	.8	20		
Chloroethane	ug/L	ND	50	50	44.8	46.0	90	92	54-157	3	20		
Chloroform	ug/L	ND	50	50	49.5	50.2	99	100	67-134	1	20		
Chloromethane	ug/L	ND	50	50	41.9	43.3	84	87	36-137	3	20		
cis-1,2-Dichloroethene	ug/L	334	50	50	358	362	48	56	65-132	1	20		
cis-1,3-Dichloropropene	ug/L	ND	50	50	38.5	40.1	77	80	46-121	4	20		
Dibromochloromethane	ug/L	ND	50	50	37.3	39.8	75	80	64-124	6	20		
Dibromomethane	ug/L	ND	50	50	50.6	50.6	101	101	67-144	.1	20		
Dichlorodifluoromethane	ug/L	ND	50	50	33.2	33.9	66	68	30-163	2	20		
Ethyl methacrylate	ug/L	ND	200	200	177	184	89	92	52-140	4	20		
Ethylbenzene	ug/L	ND	50	50	48.7	49.2	97	98	44-151	.9	20		
Hexachloro-1,3-butadiene	ug/L	ND	50	50	39.5	40.1	79	80	30-145	1	20		
Iodomethane	ug/L	ND	100	100	61.4	71.1	61	71	28-168	15	20		
Isopropylbenzene (Cumene)	ug/L	ND	50	50	45.7	46.1	91	92	40-148	.8	20		
Methyl-tert-butyl ether	ug/L	ND	100	100	88.4	89.8	88	90	52-156	2	20		
Methylene chloride	ug/L	ND	50	50	38.8	39.2	78	78	46-154	1	20		
n-Butylbenzene	ug/L	ND	50	50	46.8	46.5	94	93	27-153	.7	20		
n-Propylbenzene	ug/L	ND	50	50	52.7	52.6	105	105	40-148	.2	20		
Naphthalene	ug/L	ND	50	50	42.2	44.5	84	89	44-138	5	20		
p-Isopropyltoluene	ug/L	ND	50	50	47.6	47.1	95	94	34-146	1	20		
sec-Butylbenzene	ug/L	ND	50	50	49.3	49.4	99	99	38-150	.3	20		
Styrene	ug/L	ND	50	50	47.6	47.8	95	96	38-141	.4	20		
tert-Butylbenzene	ug/L	ND	50	50	40.9	40.9	82	82	32-133	.005	20		
Tetrachloroethene	ug/L	ND	50	50	43.1	43.4	86	87	25-146	.6	20		
Toluene	ug/L	ND	50	50	46.8	47.3	92	93	59-142	1	20		
trans-1,2-Dichloroethene	ug/L	5.1	50	50	55.3	55.7	100	101	60-137	.8	20		
trans-1,3-Dichloropropene	ug/L	ND	50	50	33.0	34.9	66	70	43-117	6	20		
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	153	155	76	77	44-139	1	20		
Trichloroethene	ug/L	8.5	50	50	54.7	55.2	92	93	61-137	1	20		
Trichlorofluoromethane	ug/L	ND	50	50	48.3	49.6	97	99	53-162	3	20		
Vinyl acetate	ug/L	ND	200	200	113	124	56	62	24-132	9	20		
Vinyl chloride	ug/L	3.6	50	50	44.4	46.1	82	85	51-144	4	20		
Xylene (Total)	ug/L	ND	150	150	144	145	96	97	44-152	.8	20		
4-Bromofluorobenzene (S)	%						94	95	70-126		20		
Dibromofluoromethane (S)	%						101	100	80-123		20		
Toluene-d8 (S)	%						100	100	80-116		20		

### QUALITY CONTROL DATA

Project: KENDALL ST GARAGE  
Pace Project No.: 5041827

QC Batch: MSV/27066 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
Associated Lab Samples: 5041827001, 5041827005, 5041827009, 5041827010

METHOD BLANK: 488807 Matrix: Solid  
Associated Lab Samples: 5041827001, 5041827005, 5041827009, 5041827010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	09/30/10 00:01	
1,1,1-Trichloroethane	ug/kg	ND	5.0	09/30/10 00:01	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	09/30/10 00:01	
1,1,2-Trichloroethane	ug/kg	ND	5.0	09/30/10 00:01	
1,1-Dichloroethane	ug/kg	ND	5.0	09/30/10 00:01	
1,1-Dichloroethene	ug/kg	ND	5.0	09/30/10 00:01	
1,1-Dichloropropene	ug/kg	ND	5.0	09/30/10 00:01	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	09/30/10 00:01	
1,2,3-Trichloropropane	ug/kg	ND	5.0	09/30/10 00:01	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	09/30/10 00:01	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	09/30/10 00:01	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	09/30/10 00:01	
1,2-Dichlorobenzene	ug/kg	ND	5.0	09/30/10 00:01	
1,2-Dichloroethane	ug/kg	ND	5.0	09/30/10 00:01	
1,2-Dichloropropane	ug/kg	ND	5.0	09/30/10 00:01	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	09/30/10 00:01	
1,3-Dichlorobenzene	ug/kg	ND	5.0	09/30/10 00:01	
1,3-Dichloropropane	ug/kg	ND	5.0	09/30/10 00:01	
1,4-Dichlorobenzene	ug/kg	ND	5.0	09/30/10 00:01	
2,2-Dichloropropane	ug/kg	ND	5.0	09/30/10 00:01	
2-Butanone (MEK)	ug/kg	ND	25.0	09/30/10 00:01	
2-Chlorotoluene	ug/kg	ND	5.0	09/30/10 00:01	
2-Hexanone	ug/kg	ND	100	09/30/10 00:01	
4-Chlorotoluene	ug/kg	ND	5.0	09/30/10 00:01	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	09/30/10 00:01	
Acetone	ug/kg	ND	100	09/30/10 00:01	
Acrolein	ug/kg	ND	100	09/30/10 00:01	
Acrylonitrile	ug/kg	ND	100	09/30/10 00:01	
Benzene	ug/kg	ND	5.0	09/30/10 00:01	
Bromobenzene	ug/kg	ND	5.0	09/30/10 00:01	
Bromochloromethane	ug/kg	ND	5.0	09/30/10 00:01	
Bromodichloromethane	ug/kg	ND	5.0	09/30/10 00:01	
Bromoform	ug/kg	ND	5.0	09/30/10 00:01	
Bromomethane	ug/kg	ND	5.0	09/30/10 00:01	
Carbon disulfide	ug/kg	ND	10.0	09/30/10 00:01	
Carbon tetrachloride	ug/kg	ND	5.0	09/30/10 00:01	
Chlorobenzene	ug/kg	ND	5.0	09/30/10 00:01	
Chloroethane	ug/kg	ND	5.0	09/30/10 00:01	
Chloroform	ug/kg	ND	5.0	09/30/10 00:01	
Chloromethane	ug/kg	ND	5.0	09/30/10 00:01	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	09/30/10 00:01	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	09/30/10 00:01	
Dibromochloromethane	ug/kg	ND	5.0	09/30/10 00:01	

Date: 10/04/2010 03:11 PM

### REPORT OF LABORATORY ANALYSIS

Page 31 of 36

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### QUALITY CONTROL DATA

Project: KENDALL ST GARAGE

Peace Project No.: 5041827

METHOD BLANK: 488807

Matrix: Solid

Associated Lab Samples: 5041827001, 5041827005, 5041827009, 5041827010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	09/30/10 00:01	
Dichlorodifluoromethane	ug/kg	ND	5.0	09/30/10 00:01	
Ethyl methacrylate	ug/kg	ND	10.0	09/30/10 00:01	
Ethylbenzene	ug/kg	ND	5.0	09/30/10 00:01	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	09/30/10 00:01	
Iodomethane	ug/kg	ND	100	09/30/10 00:01	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	09/30/10 00:01	
Methyl-tert-butyl ether	ug/kg	ND	5.0	09/30/10 00:01	
Methylene chloride	ug/kg	ND	20.0	09/30/10 00:01	
n-Butylbenzene	ug/kg	ND	5.0	09/30/10 00:01	
n-Hexane	ug/kg	ND	5.0	09/30/10 00:01	
n-Propylbenzene	ug/kg	ND	5.0	09/30/10 00:01	
Naphthalene	ug/kg	ND	5.0	09/30/10 00:01	
p-Isopropyltoluene	ug/kg	ND	5.0	09/30/10 00:01	
sec-Butylbenzene	ug/kg	ND	5.0	09/30/10 00:01	
Styrene	ug/kg	ND	5.0	09/30/10 00:01	
tert-Butylbenzene	ug/kg	ND	5.0	09/30/10 00:01	
Tetrachloroethene	ug/kg	ND	5.0	09/30/10 00:01	
Toluene	ug/kg	ND	5.0	09/30/10 00:01	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	09/30/10 00:01	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	09/30/10 00:01	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	09/30/10 00:01	
Trichloroethene	ug/kg	ND	5.0	09/30/10 00:01	
Trichlorofluoromethane	ug/kg	ND	5.0	09/30/10 00:01	
Vinyl acetate	ug/kg	ND	100	09/30/10 00:01	
Vinyl chloride	ug/kg	ND	5.0	09/30/10 00:01	
Xylene (Total)	ug/kg	ND	10.0	09/30/10 00:01	
4-Bromofluorobenzene (S)	%	90	61-131	09/30/10 00:01	
Dibromofluoromethane (S)	%	97	80-124	09/30/10 00:01	
Toluene-d8 (S)	%	99	58-145	09/30/10 00:01	

LABORATORY CONTROL SAMPLE: 488808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	39.5	79	65-124	
1,1,1-Trichloroethane	ug/kg	50	42.3	85	61-135	
1,1,2,2-Tetrachloroethane	ug/kg	50	63.9	128	66-124	L3
1,1,2-Trichloroethane	ug/kg	50	53.9	108	74-127	
1,1-Dichloroethane	ug/kg	50	52.3	105	62-132	
1,1-Dichloroethene	ug/kg	50	52.5	105	61-123	
1,1-Dichloropropene	ug/kg	50	48.1	96	74-128	
1,2,3-Trichlorobenzene	ug/kg	50	46.1	92	60-125	
1,2,3-Trichloropropane	ug/kg	100	85.5	85	61-120	
1,2,4-Trichlorobenzene	ug/kg	50	40.5	81	58-126	
1,2,4-Trimethylbenzene	ug/kg	50	50.4	101	72-120	

Date: 10/04/2010 03:11 PM

### REPORT OF LABORATORY ANALYSIS

Page 32 of 36

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### QUALITY CONTROL DATA

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

LABORATORY CONTROL SAMPLE: 488808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	51.8	104	74-119	
1,2-Dichlorobenzene	ug/kg	50	52.2	104	75-117	
1,2-Dichloroethane	ug/kg	50	51.6	103	62-135	
1,2-Dichloropropane	ug/kg	50	53.5	107	74-124	
1,3,5-Trimethylbenzene	ug/kg	50	54.0	108	73-122	
1,3-Dichlorobenzene	ug/kg	50	52.3	105	73-120	
1,3-Dichloropropane	ug/kg	50	58.7	117	71-122	
1,4-Dichlorobenzene	ug/kg	50	50.5	101	72-118	
2,2-Dichloropropane	ug/kg	50	35.5	71	53-136	
2-Butanone (MEK)	ug/kg	250	268	107	33-190	
2-Chlorotoluene	ug/kg	50	54.8	110	72-122	
2-Hexanone	ug/kg	250	318	127	44-168	
4-Chlorotoluene	ug/kg	50	55.7	111	72-120	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	281	113	58-126	
Acetone	ug/kg	250	299	120	30-190	
Acrolein	ug/kg	1000	789	79	30-190	
Acrylonitrile	ug/kg	1000	1060	106	65-129	
Benzene	ug/kg	50	49.6	99	76-123	
Bromobenzene	ug/kg	50	48.4	97	74-116	
Bromochloromethane	ug/kg	50	53.7	107	56-143	
Bromodichloromethane	ug/kg	50	47.9	96	67-123	
Bromoform	ug/kg	50	42.2	84	58-117	
Bromomethane	ug/kg	50	33.9	68	47-147	
Carbon disulfide	ug/kg	100	85.6	86	56-141	
Carbon tetrachloride	ug/kg	50	37.3	75	54-136	
Chlorobenzene	ug/kg	50	52.2	104	75-115	
Chloroethane	ug/kg	50	50.3	101	57-147	
Chloroform	ug/kg	50	49.6	99	74-123	
Chloromethane	ug/kg	50	44.3	89	31-155	
cis-1,2-Dichloroethene	ug/kg	50	48.9	98	76-119	
cis-1,3-Dichloropropene	ug/kg	50	42.2	84	56-110	
Dibromochloromethane	ug/kg	50	41.9	84	63-122	
Dibromomethane	ug/kg	50	52.2	104	70-127	
Dichlorodifluoromethane	ug/kg	50	33.7	67	30-170	
Ethyl methacrylate	ug/kg	200	206	103	58-126	
Ethylbenzene	ug/kg	50	51.7	103	78-121	
Hexachloro-1,3-butadiene	ug/kg	50	42.0	84	65-128	
Iodomethane	ug/kg	100	78.1J	78	38-173	
Isopropylbenzene (Cumene)	ug/kg	50	47.7	95	75-128	
Methyl-tert-butyl ether	ug/kg	100	95.2	95	59-142	
Methylene chloride	ug/kg	50	40.1	80	30-170	
n-Butylbenzene	ug/kg	50	48.4	97	70-123	
n-Hexane	ug/kg	50	53.6	107	76-143	
n-Propylbenzene	ug/kg	50	56.0	112	70-126	
Naphthalene	ug/kg	50	51.5	103	60-128	
p-Isopropyltoluene	ug/kg	50	50.3	101	65-125	
sec-Butylbenzene	ug/kg	50	52.9	106	72-125	
Styrene	ug/kg	50	50.7	101	75-118	

Date: 10/04/2010 03:11 PM

### REPORT OF LABORATORY ANALYSIS

Page 33 of 36

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### QUALITY CONTROL DATA

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

LABORATORY CONTROL SAMPLE: 488808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	44.4	89	61-114	
Tetrachloroethene	ug/kg	50	45.0	90	63-117	
Toluene	ug/kg	50	51.5	103	72-123	
trans-1,2-Dichloroethene	ug/kg	50	51.2	102	70-122	
trans-1,3-Dichloropropene	ug/kg	50	36.9	74	55-107	
trans-1,4-Dichloro-2-butene	ug/kg	200	162	81	49-127	
Trichloroethene	ug/kg	50	49.1	98	74-121	
Trichlorofluoromethane	ug/kg	50	50.5	101	55-156	
Vinyl acetate	ug/kg	200	149	74	46-127	
Vinyl chloride	ug/kg	50	44.7	89	50-146	
Xylene (Total)	ug/kg	150	153	102	77-120	
4-Bromofluorobenzene (S)	%			93	61-131	
Dibromofluoromethane (S)	%			99	80-124	
Toluene-d8 (S)	%			101	58-145	





## QUALIFIERS

Project: KENDALL ST GARAGE

Pace Project No.: 5041827

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

### ANALYTE QUALIFIERS

- |    |   |
|----|---|
| 1d | MS/MSD RPD's were outside the control limits for multiple compounds. Refer to the MB/LCS to demonstrate the system was in control. HEB 9/30/10                              |
| L3 | Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias. |
| P6 | Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.                                       |
| R1 | RPD value was outside control limits.   |
| R2 | RPD value was outside control limits due to matrix interference   |
| S4 | Surrogate recovery not evaluated against control limits due to sample dilution.   |





**Sample Condition Upon Receipt**

Face Analytical

Client Name: Phifer

Project # 5041827

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Tracking #: 873014190369

Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other plastic holders / Ice

Thermometer Used 12876ABCDE

Type of Ice:  Wet  Blue  None  Samples on ice, cooling process has begun

Cooler Temperature 2.3°C

Ice Visible in Sample Containers:  yes  no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 9/25/10 [Signature]

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5. <u>to kits</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
All containers needing preservation have been pH checked? exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
<b>Project Manager Review</b>		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.

**Client Notification/ Resolution:**

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review:

Kenneth Hunt

Date: 9/25/10



CLIENT: Phifer

Sample Container Count



COC PAGE 2 of 2  
COC ID# 1367193

Project # 5041827

Sample Line Item	DG9H	AG1U	WG FU R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
1												<del>no sample</del>
2												<del>no sample</del>
3												<del>no sample</del>
4												<del>no sample</del>
5												1 4
6												3
7												
8												
9												
10												
11												
12												

Container Codes

Container Code	Description	AF	Air Filter	BP1N	BP1S	BP1U	BP1Z	BP2A	BP2O	BP2Z	BP3A	BP3C	BP3Z	C	DG9B	DG9M	DG9P	DG9S	DG9T	DG9U	JGFU	U	VG9H	VG9T	VG9U	VSG	WGFU	ZPLC
DG9H	40mL HCL amber vial																											
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1N	BP1S	BP1U	BP1Z	BP2A	BP2O	BP2Z	BP3A	BP3C	BP3Z	C	DG9B	DG9M	DG9P	DG9S	DG9T	DG9U	JGFU	U	VG9H	VG9T	VG9U	VSG	WGFU	ZPLC
WG FU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1N	BP1S	BP1U	BP1Z	BP2A	BP2O	BP2Z	BP3A	BP3C	BP3Z	C	DG9B	DG9M	DG9P	DG9S	DG9T	DG9U	JGFU	U	VG9H	VG9T	VG9U	VSG	WGFU	ZPLC
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1N	BP1S	BP1U	BP1Z	BP2A	BP2O	BP2Z	BP3A	BP3C	BP3Z	C	DG9B	DG9M	DG9P	DG9S	DG9T	DG9U	JGFU	U	VG9H	VG9T	VG9U	VSG	WGFU	ZPLC
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP1N	BP1S	BP1U	BP1Z	BP2A	BP2O	BP2Z	BP3A	BP3C	BP3Z	C	DG9B	DG9M	DG9P	DG9S	DG9T	DG9U	JGFU	U	VG9H	VG9T	VG9U	VSG	WGFU	ZPLC
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP1N	BP1S	BP1U	BP1Z	BP2A	BP2O	BP2Z	BP3A	BP3C	BP3Z	C	DG9B	DG9M	DG9P	DG9S	DG9T	DG9U	JGFU	U	VG9H	VG9T	VG9U	VSG	WGFU	ZPLC
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP1N	BP1S	BP1U	BP1Z	BP2A	BP2O	BP2Z	BP3A	BP3C	BP3Z	C	DG9B	DG9M	DG9P	DG9S	DG9T	DG9U	JGFU	U	VG9H	VG9T	VG9U	VSG	WGFU	ZPLC
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP1N	BP1S	BP1U	BP1Z	BP2A	BP2O	BP2Z	BP3A	BP3C	BP3Z	C	DG9B	DG9M	DG9P	DG9S	DG9T	DG9U	JGFU	U	VG9H	VG9T	VG9U	VSG	WGFU	ZPLC
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP1N	BP1S	BP1U	BP1Z	BP2A	BP2O	BP2Z	BP3A	BP3C	BP3Z	C	DG9B	DG9M	DG9P	DG9S	DG9T	DG9U	JGFU	U	VG9H	VG9T	VG9U	VSG	WGFU	ZPLC
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP1N	BP1S	BP1U	BP1Z	BP2A	BP2O	BP2Z	BP3A	BP3C	BP3Z	C	DG9B	DG9M	DG9P	DG9S	DG9T	DG9U	JGFU	U	VG9H	VG9T	VG9U	VSG	WGFU	ZPLC
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	BP1N	BP1S	BP1U	BP1Z	BP2A	BP2O	BP2Z	BP3A	BP3C	BP3Z	C	DG9B	DG9M	DG9P	DG9S	DG9T	DG9U	JGFU	U	VG9H	VG9T	VG9U	VSG	WGFU	ZPLC
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	BP1N	BP1S	BP1U	BP1Z	BP2A	BP2O	BP2Z	BP3A	BP3C	BP3Z	C	DG9B	DG9M	DG9P	DG9S	DG9T	DG9U	JGFU	U	VG9H	VG9T	VG9U	VSG	WGFU	ZPLC
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	BP1N	BP1S	BP1U	BP1Z	BP2A	BP2O	BP2Z	BP3A	BP3C	BP3Z	C	DG9B	DG9M	DG9P	DG9S	DG9T	DG9U	JGFU	U	VG9H	VG9T	VG9U	VSG	WGFU	ZPLC