



June 7, 2013

1006.008.02.002

SRMKII, LLC
520 6th Street South
Kirkland WA 98033

Attention: Mr. Dave Tomson

**VINYL CHLORIDE AREA ASSESSMENT REPORT
FORMER PACE NATIONAL PROPERTY
500 7TH AVENUE SOUTH
KIRKLAND, WASHINGTON**

Dear Mr. Tomson:

PES Environmental, Inc. (PES) conducted an assessment of the vinyl chloride area located in the northwestern portion of the Former Pace National property, located at 500 7th Avenue South, in Kirkland, Washington (Property; Figure 1), currently owned by Ultra Corporation (Ultra). The purpose of the assessment was to assist SRMKII LLC (SRMKII) to further delineate the extent of the vinyl chloride-impacted perched water in this area to better direct the excavation activities.

Specific sampling objectives and tasks for this investigation are as follows:

- Evaluate the northern and southern extent of vinyl chloride-impacted water;
- Confirm the depth of the confining silt layer; and
- Collect samples of both the non-saturated and saturated soil for disposal characterization.

The assessment activities were conducted in accordance with PES's *Sampling and Analysis Plan (SAP)*¹.

SITE DESCRIPTION

The 5-acre Property is currently vacant. The northern one-third portion of the Property is the location of the former Pace National Corporation operations and is a mixture of dirt, vegetation, and asphalt surfaces (see Figure 2). The majority of the non-asphalt areas are overgrown with brush, blackberries, and a few small trees. The southern two-thirds of the Property are wooded and have never been developed. The surface terrain of the northern portion of the Property consists of a relatively flat area at an elevation of approximately 169 feet above mean sea level (amsl) and slopes to the west to an elevation of approximately 144 feet amsl along the western property line.

¹ PES Environmental, Inc. 2013. *Sampling and Analysis Plan, Former Pace National Property, 500 7th Avenue South, Kirkland, Washington*. February 14.

BACKGROUND

The Property is the location of a former chemical mixing and packaging facility (Pace National Corporation). Extensive investigation and remediation activities have occurred at the Property as independent cleanup actions (prior to 2009) and pursuant to an Agreed Order between Ultra and the Washington State Department of Ecology (Ecology). Ultra and Ecology have negotiated a Consent Decree for implementation of the selected final cleanup action. The final cleanup action included monitored natural attenuation of vinyl chloride in groundwater, but no further actions for soil. Ecology concluded that soil on the Property met applicable cleanup levels.

SRMKII's redevelopment plans for the Property include a mass excavation to an elevation of approximately 142.5 feet amsl for the construction of two floors of subsurface parking. A two-story office complex will be constructed above the parking structure. A portion of the proposed subsurface parking garage is located over the area where vinyl chloride is present in perched water, near the northwestern corner of the Property (Figure 2). The water is perched on a glaciolacustrine layer (herein referred to as the confining silt layer), located at an estimated elevation of 130 to 148 feet amsl. At the future tenant's request, SRMKII will extend the excavation in this area to remove the saturated soils, including the perched water containing vinyl chloride at concentrations greater than the applicable cleanup level (0.2 micrograms per liter [$\mu\text{g/L}$]). This additional excavation is being conducted to mitigate potential concerns regarding vapor intrusion into the subsurface parking garage and overlying office complex.

This assessment was conducted to determine the final limits (vertical and horizontal) of the planned vinyl chloride area excavation. This information will be used during the redevelopment of the Property to design the depth and extent of the shoring system along the western and northern excavation sidewalls. Analytical results of soil samples collected and analyzed during this assessment will be used to profile and properly manage the excavated soils.

FIELD ACTIVITIES

Prior to conducting the drilling activities, public and private utility locates were conducted and the proposed boring locations were surveyed by D.R. Strong Consulting Engineers, Inc. (DRS).

On April 10 and 11, 2013, PES oversaw the drilling of seven borings (GP-26 through GP-31 and GP-27A). Cascade Drilling, Inc., a Washington State licensed drilling company, was subcontracted to drill the borings with a track-mounted direct-push drilling rig. The borings were hand-cleared to approximately 2 feet below ground surface (bgs) and advanced to depths of up to 25 feet bgs (at least two feet into the confining silt layer). The boring locations are shown on Figure 2. Difficult drilling conditions in the location of proposed boring GP-27 resulted in moving the boring approximately 10 feet south. Due to refusal at a depth of 15 feet in the new GP-27 location, one additional boring (GP-27A) was advanced southeast of GP-27. Refusal occurred at a depth of 15 feet bgs in GP-27A.

Continuous soil samples were collected using five-foot long core barrels lined with new acetate sleeves. PES observed the soil cores for lithologic characterization and field screened the soil cores for volatile organic compounds (VOCs) with a photo-ionization detector (PID). PES collected soil samples in the appropriate laboratory-approved sampling containers. Soil samples

were collected using syringe samplers following the United States Environmental Protection Agency (USEPA) Method 5035 protocols for volatile organic analysis. The syringe samples were placed in laboratory-provided bottles preserved with methanol for gasoline range organics (GRO) and VOC analyses; additional sample volume was collected in unpreserved glass soil sample jars for diesel range organics (DRO) and heavy oil range organics (HO) analyses and to determine soil moisture content. The sample bottles were sealed, labeled, and placed in a cooler on ice for delivery to Fremont Analytical, Inc, (Fremont) in Seattle, Washington, a Washington State accredited laboratory. The soil borings logs are included in Attachment A.

After completion of the soil sampling, temporary wells were installed in each boring using a ten-foot, one-inch diameter schedule 40 PVC well screen and casing. The bottom of each well was placed at the depth of the top of the confining silt layer for the purpose of collecting perched groundwater samples. The depths of the screened intervals of the temporary wells are included on the boring logs in Attachment A.

After allowing the water within the temporary well casings to equilibrate for no less than one hour, the water level was measured to the nearest 0.01 foot, using an electronic water level probe, and recorded. The probe tip was rinsed with distilled water between each temporary well to avoid cross contamination.

Each well was sampled using low flow sampling techniques, with a peristaltic pump fitted with new disposable silicon tubing at the pump head and polyethylene tubing down the well. The polyethylene tubing was slowly lowered into the well until the tubing intake was at least two feet below the measured depth to water. Low flow purging was conducted at pumping rates between 100 and 150 milliliters per minute (mL/min) and field parameters were recorded every three to five minutes. New disposable polyethylene tubing was used to sample each temporary well. Data collected during sampling was recorded on field sampling data sheets (included in Attachment B).

Upon completion of purging (stabilization of field parameters), samples were collected from the discharge end of the peristaltic pump tubing into the appropriate laboratory provided sampling containers (40 ml VOAs preserved with hydrochloric acid). The water samples were submitted to Fremont for analysis of vinyl chloride using USEPA Method 8260B.

After collection of the water samples, the polyethylene tubing and well casings were removed and the borings were abandoned by filling the bottom of the borings to the surface with hydrated bentonite chips, and completed with an asphalt or concrete surface patch. All used tubing and the temporary well casings were discarded appropriately.

Decontamination water, purge water, and soil cuttings were placed in stainless steel drums, currently being stored on-site pending characterization and disposal as set forth in the Sampling Residuals section of the SAP.

FIELD OBSERVATIONS OF SUBSURFACE CONDITIONS

The geology encountered at the Property generally consisted of an upper fill layer of silty sand to depths ranging from approximately 2 to 12 feet bgs, underlain by a tan, medium plasticity silt with iron oxide staining to depths ranging from approximately 8.5 to 23 feet bgs. The lower-most unit was a very hard, bluish gray, elastic silt layer to a maximum drilled depth of 25 feet bgs. Consistent with the lithology identified by Kleinfelder's geotechnical boring B-1, a wet sandy silt lens was observed within the dense silt layer in boring GP-28 from approximately 20 to 23 feet bgs, and in the bottom 2 to 3 inches at GP-27 and GP-27A respectively. Kleinfelder's draft boring logs are included in Attachment A.

No areas of staining (with the exception of iron oxide staining), notable chemical odors, or PID readings were observed in any of the soil borings.

LABORATORY ANALYTICAL RESULTS

Soil. One sample from the unsaturated soil zone (overburden) and one sample from the saturated zone were submitted for laboratory analysis from each boring. In addition, one sample from the lower saturated lens from boring GP-28 was submitted for analysis.

The soil samples were analyzed for VOCs using USEPA Method 8260B, GRO using Ecology Method NWTPH-Gx, and DRO and HO using Ecology Method NWTPH-Dx/Dx extended with silica gel cleanup. One composite sample was analyzed for Resource Conservation and Recovery Act (RCRA) 8 metals using USEPA Method 6020 and USEPA Method 7421 (mercury). A copy of the laboratory analytical report is included in Attachment C.

The final laboratory analytical reports were reviewed and validated in accordance with USEPA data validation procedures to ensure that the data were acceptable for their intended use. The data validation memorandum is included with the laboratory analytical report in Attachment C. The laboratory control sample (LCS) percent recovery (%R) for hexachlorobutadiene was below the lower control limit, indicating a potential low bias in sample results for hexachlorobutadiene. Because of the low %R for this compound, the laboratory reported initial calibration verification (ICV) results for this compound. The ICV results indicated that the instrument was in control during the analyses. Based upon the LCS and ICV results, all hexachlorobutadiene results reported for the project samples are qualified as estimated and assigned a J flag. No other qualifications were warranted and all of the soil data were deemed acceptable for site characterization.

Low concentrations of naphthalene were detected in the shallow, unsaturated soil samples collected from borings GP-27 and GP-30. Therefore, the unsaturated overburden will not be utilized as fill material on-site and will be characterized and transported off-site for disposal at a licensed facility, as required by applicable regulations. Low concentrations of petroleum hydrocarbons (diesel, heavy oil, and/or toluene) were detected in the saturated soil samples collected from borings GP-27 and GP-30. This analytical data will be used for profiling and managing the soil for appropriate handling and off-site disposal during the vinyl chloride area

excavation activities. The soil laboratory analytical results for petroleum hydrocarbons and VOCs are summarized in Tables 1 and 2, respectively.

Water. One perched water sample from each temporary well was submitted for laboratory analysis. The water sample from boring GP-27A was placed on hold pending the results of the GP-27 water sample and was not analyzed.

The water samples were analyzed for vinyl chloride using USEPA Method 8260B. A copy of the laboratory analytical report is included in Attachment C.

The final laboratory analytical report was reviewed and validated in accordance with USEPA data validation procedures to ensure that the data were acceptable for their intended use. The data validation memorandum is included with the laboratory analytical report in Attachment C. All of the water data were deemed acceptable for site characterization.

Vinyl chloride was detected in the water samples collected from temporary wells GP-28 and GP-30 at concentrations of 1.2 and 0.91 µg/L, respectively (above the cleanup level). Vinyl chloride was not detected at or above the method reporting limit (MRL) of 0.2 µg/L in the water samples from the remaining temporary wells. The laboratory analytical results are summarized in Table 3.

VINYL CHLORIDE EXCAVATION AREA

PES estimated the lateral extent of the vinyl chloride excavation area as shown on Figure 2. The lateral extent was estimated using vinyl chloride concentrations detected in the perched water during this current site assessment, the results of SoundEarth Strategies, Inc. (SES) semi-annual groundwater sampling of select wells, as well as historical groundwater sampling results presented by SES in the Cleanup Action Plan² (CAP). The lateral limits were drawn conservatively, extending the assumed vinyl chloride-contaminated perched water limits to the locations of borings with no vinyl chloride detected in samples from the temporary wells.

The elevation of the confining silt layer ranged from approximately 133 feet amsl along the northwestern portion of the vinyl chloride area to approximately 130 feet amsl along the southwestern portion of the vinyl chloride area. As indicated by previous site assessment activities, this confining silt layer increases in elevation toward the east, to an elevation of approximately 148 feet amsl at the eastern extent of the vinyl chloride area. The excavation will be extended to these depths to remove the saturated soil within the vinyl chloride area.

As indicated in the SAP, the excavation sidewall and bottom soil samples will be submitted for vinyl chloride analysis as well as any constituents detected during this assessment. Therefore, the samples will be submitted for diesel and heavy oil range petroleum hydrocarbons analysis using Ecology NWTPH-Dx/Dx extended and vinyl chloride, naphthalene, and toluene analysis using USEPA Method 8260B.

² SoundEarth Strategies, Inc. 2011. *Cleanup Action Plan, Former Pace National Site, 500 7th Avenue South #C335, Kirkland, Washington.* April 13.

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PES Environmental, Inc.

The results of the vinyl chloride assessment have identified the northern and southern limits of the vinyl chloride area, which are bounded by the perched water samples collected from borings GP-31 and GP-27, respectively. The depth to the confining silt layer in this area was also delineated during this assessment and ranges from 130 to 133 feet amsl.

PES appreciates the opportunity to conduct these assessment services. If you have any questions regarding this letter or need any additional information, please feel free to contact either of us at (206) 529-3980.

Very truly yours,

PES ENVIRONMENTAL, INC.

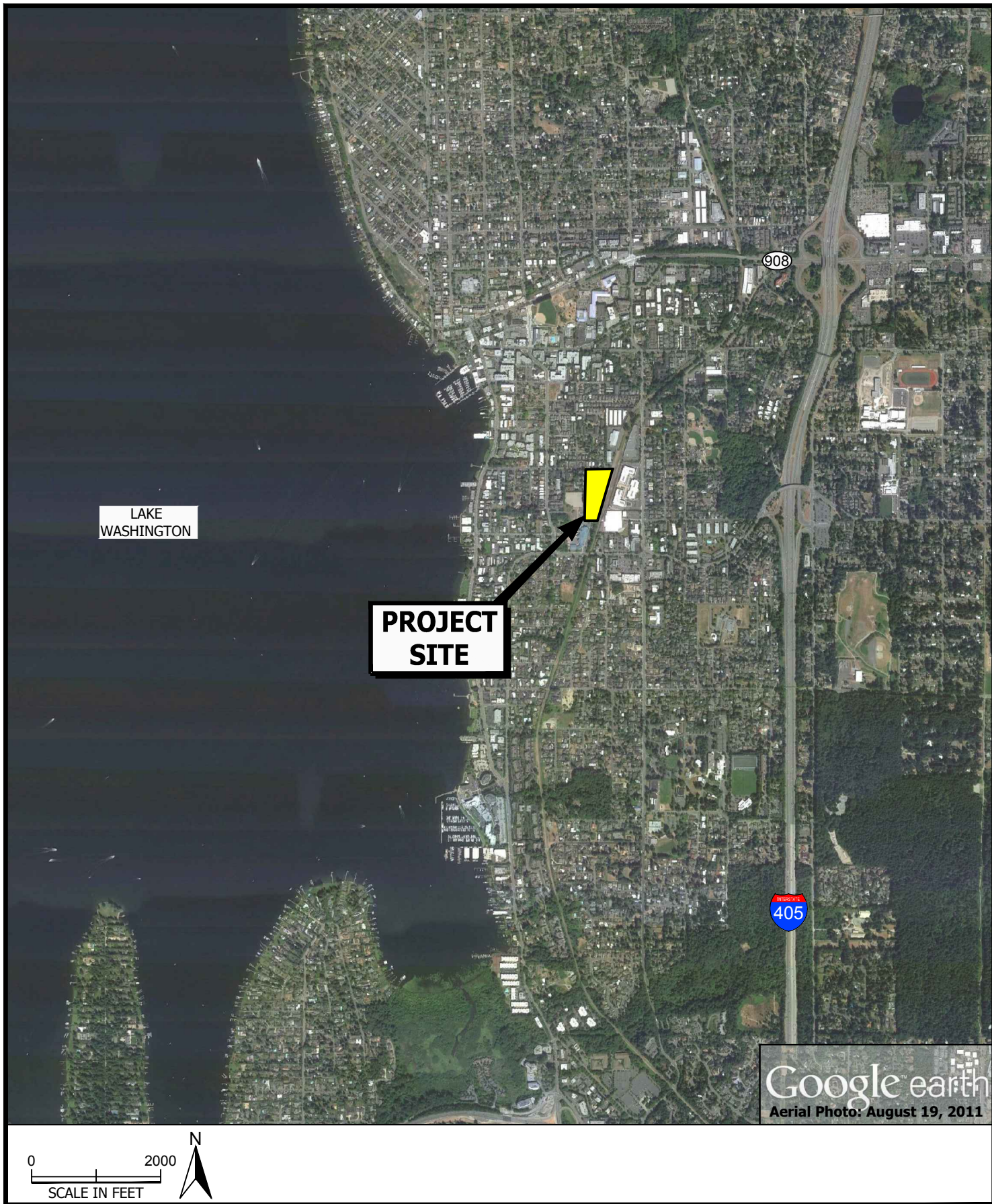


Kelly L. Rankich
Project Engineer



Daniel A. Balbiani, P.E.
Principal Engineer

- Attachments:
- Figure 1 – Site Location Map
 - Figure 2 – Boring Locations and Proposed Excavation Area
 - Table 1 – Summary of Soil Analytical Results – Total Petroleum Hydrocarbons
 - Table 2 – Summary of Soil Analytical Results – Detected VOCs
 - Table 3 – Summary of Water Analytical Results – Vinyl Chloride
 - Attachment A – Soil Boring Logs
 - Attachment B – Field Sampling Data Sheets
 - Attachment C – Laboratory Analytical Reports and Data Validation Memoranda

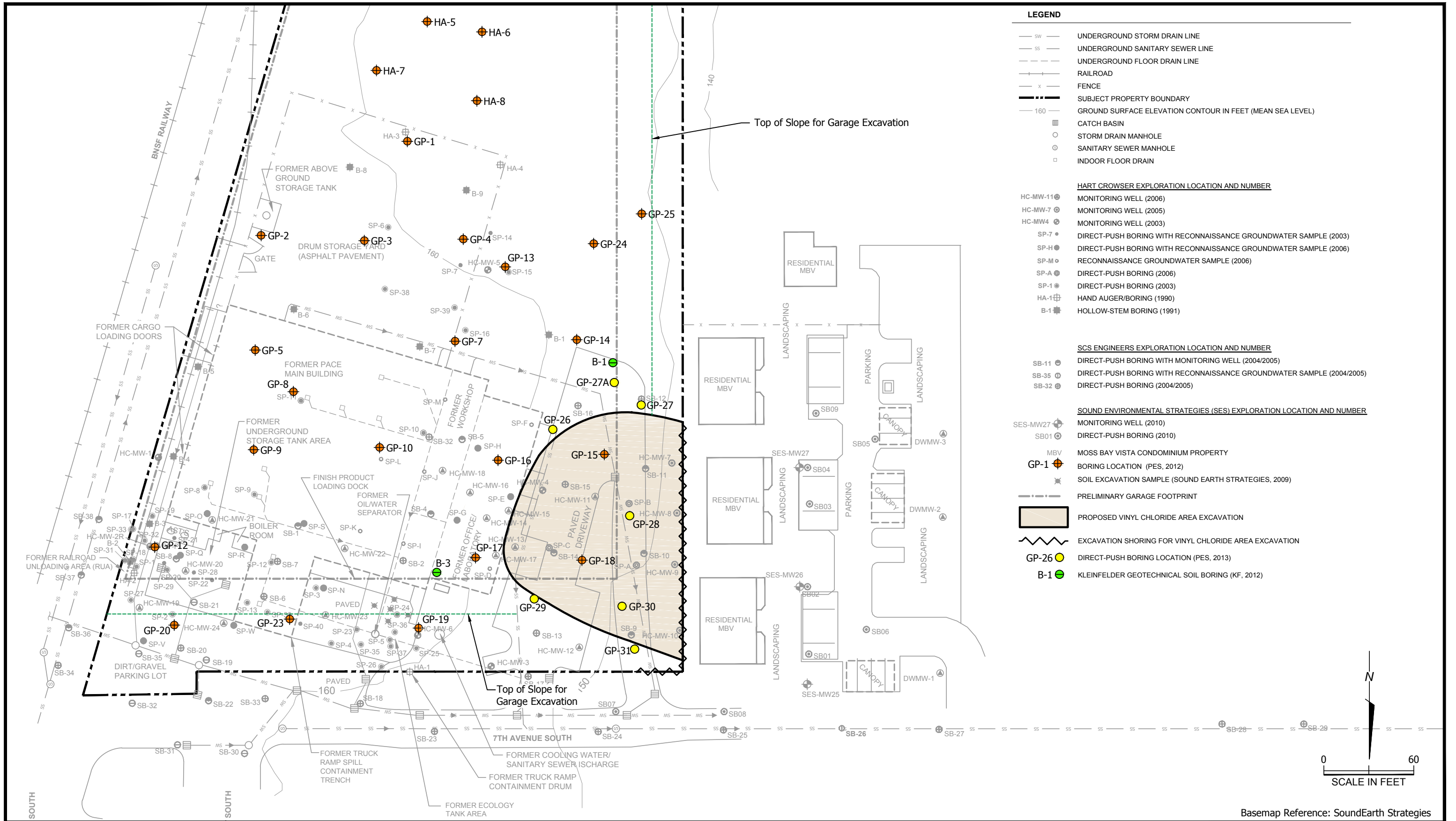


PES Environmental, Inc.
Engineering & Environmental Services

Site Location Map
Former Pace National Property
500 7th Avenue South
Kirkland, Washington

FIGURE

1



Boring Locations and Proposed Excavation Areas FIGURE
 Former Pace National Property
 500 7th Avenue South
 Kirkland, Washington **2**

Basemap Reference: SoundEarth Strategies

Table 1
Summary of Soil Analytical Results - Total Petroleum Hydrocarbons
Former Pace National Property
500 7th Avenue South, Kirkland, WA

Boring ID	Sample ID	Sample Date	Surface Elevation (ft amsl)	Depth (ft bgs)	Estimated Elevation (ft amsl)	Gasoline (mg/kg)	Diesel (mg/kg)	HO (mg/kg)
GP-26	GP-26-2	04/11/13	159.17	2	157.17	3.82 U	21.7 U	54.2 U
	GP-26-6	04/11/13		6	153.17	4.61 U	23.5 U	58.7 U
GP-27	GP-27-5	04/11/13	156.87	5	151.87	4.81 U	18.0 U	44.9 U
	GP-27-14.5	04/11/13		14.5	142.37	4.99 U	20.2 U	78.7
GP-28	GP-28-3	04/10/13	153.58	3	150.58	3.89 U	19.5 U	48.7 U
	GP-28-14	04/10/13		14	139.58	3.71 U	19.8 U	49.4 U
	GP-32-20 (Dupe)	04/10/13		14	139.58	4.20 U	19.4 U	48.5 U
	GP-28-22	04/10/13		22	131.58	2.81 U	22.0 U	55.1 U
GP-29	GP-29-3	04/11/13	157.01	3	154.01	2.92 U	19.9 U	49.8 U
	GP-29-5	04/11/13		5	152.01	3.95 U	19.5 U	48.7 U
GP-30	GP-30-3	04/10/13	149.73	3	146.73	3.19 U	20.9 U	52.3 U
	GP-30-8	04/10/13		8	141.73	6.02 U	38.1	78.2
GP-31	GP-31-5	04/10/13	148.00	5	143.00	4.49 U	19.3 U	48.1 U
	GP-31-9	04/10/13		9	139.00	3.74 U	23.9 U	59.8 U

Notes:

- 1) mg/kg = milligrams per kilogram or parts per million
- 2) U = not detected at or above the method reporting limit (MRL) shown
- 3) Detected results shown in **bold**
- 4) ft bgs = feet below ground surface
- 5) ft amsl = feet above mean sea level, using a surveyed surface elevation (except GP-27 and GP-30 which are approximated)
- 6) Gasoline analysis by Ecology Method NWTPH-Gx
- 7) Diesel and Heavy Oil (HO) analysis by Ecology Method NWTPH-Dx/Dx extended with silica gel cleanup

Table 2
Summary of Soil Analytical Results - Detected VOCs
Former Pace National Property
500 7th Avenue South, Kirkland, WA

Boring ID	Sample ID	Sample Date	Surface Elevation (ft amsl)	Depth (ft bgs)	Estimated Elevation (ft amsl)	Toluene (mg/kg)	Naphthalene (mg/kg)
GP-26	GP-26-2	04/11/13	159.17	2	157.17	0.0153 U	0.0229 U
	GP-26-6	04/11/13		6	153.17	0.0184 U	0.0277 U
GP-27	GP-27-5	04/11/13	156.87	5	151.87	0.0192 U	0.0692
	GP-27-14.5	04/11/13		14.5	142.37	0.0200 U	0.0300 U
GP-28	GP-28-3	04/10/13	153.58	3	150.58	0.0156 U	0.0233 U
	GP-28-14	04/10/13		14	139.58	0.0148 U	0.0222 U
	GP-32-20 (Dupe)	04/10/13		14	139.58	0.0168 U	0.0252 U
	GP-28-22	04/10/13		22	131.58	0.0112 U	0.0169 U
GP-29	GP-29-3	04/11/13	157.01	3	154.01	0.0117 U	0.0175 U
	GP-29-5	04/11/13		5	152.01	0.0158 U	0.0237 U
GP-30	GP-30-3	04/10/13	149.73	3	146.73	0.0128 U	0.0195
	GP-30-8	04/10/13		8	141.73	0.0331	0.0361 U
GP-31	GP-31-5	04/10/13	148.00	5	143.00	0.0179 U	0.0269 U
	GP-31-9	04/10/13		9	139.00	0.0150 U	0.0224 U

Notes:

- 1) mg/kg = milligrams per kilogram or parts per million
- 2) U = not detected at or above the method reporting limit shown
- 3) Detected results shown in **bold**
- 4) ft bgs = feet below ground surface
- 5) ft amsl = feet above mean sea level, using a surveyed surface elevation (except GP-27 and GP-30 which are approximated)
- 6) Volatile Organic Compound (VOC) analysis by USEPA Method 8260B
- 7) Detected VOCs are summarized in this table; see laboratory analytical report for entire VOC analytical results

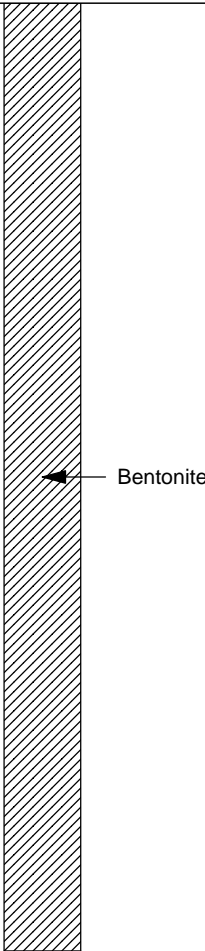
Table 3
Summary of Water Analytical Results - Vinyl Chloride
Former Pace National Property
500 7th Avenue South, Kirkland, WA

Boring ID	Sample ID	Sample Date	Vinyl Chloride (µg/l)	
GP-26	GP-26-W	04/11/13	0.200	U
	GP-32-W (dupe)	04/11/13	0.200	U
GP-27	GP-27-W	04/11/13	0.200	U
GP-28	GP-28-W	04/10/13	1.20	
GP-29	GP-29-W	04/11/13	0.200	U
GP-30	GP-30-W	04/10/13	0.910	
GP-31	GP-31-W	04/10/13	0.200	U

Notes:

- 1) µg/l = micrograms per liter or parts per billion
- 2) U = not detected at or above the method reporting limit shown
- 3) Detected results shown in **bold**
- 4) Vinyl Chloride analysis by EPA Method 8260B.

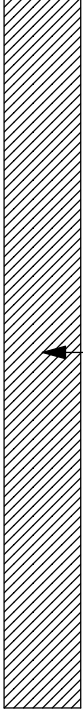


Completion Details	Sample ID	PID (ppm)	Sample Interval	Recovery (Inches)	Depth (Feet)	Symbol	Lithologic Description	
	GP-26-2*	0.0			0		Top 2-inches: Grass and roots in brown soil GRAYISH TAN SILTY SAND (SM), wet, fine to coarse, little to some fines, few fine to coarse gravel @ 2 feet: 3-inches of iron oxide stained sand and rock @ 2.3 feet: bluish gray, trace fine gravel	
	GP-26-6*	0.0			5		BLUISH GRAY SANDY SILT (ML), wet, soft, some fine to medium sand @ 6.5 feet: 6-inch interbed of silty sand (SM) @ 7 feet: gray and brown, few black organic material	
		0.0			60		BLUISH GRAY SILTY SAND (SM), wet, fine to medium @ 7 feet: gray and brown, few black organic material	
		0.0			10		BLUE SILT (ML), moist, hard, trace fine sand, clay like @ 10 to 11.5 feet: grades from moist to dry @ 11.5 feet: transitions to blue and tan silt, very hard, iron oxide staining, brittle @ 12 feet: tan	
		0.0			15		@ 15 feet: bluish gray, dry, elastic	
	GP-26-17	0.0			60			
	GP-26-W*	0.0			20			
							Bottom of boring @ 20 feet. Temporary 1-inch PVC well screen set from 5 to 15 feet. Depth to water measured in temporary well at least 1 hour after drilling: 5.20 feet below ground surface (bgs). Boring abandoned using hydrated bentonite chips. * Sample submitted for laboratory analysis.	
							25	
							30	

Project: Former Pace National
 Project Number: 1006.008.02
 Site Location: Kirkland, Washington
 Logged By: L. Doody
 Sample Method: Five foot acetate liners

Total Boring Depth: 20 feet
 Diameter of Boring: 2 inches
 Date Drilled: 4/11/13
 Drilled By: Cascade Drilling
 Drill Method: Geoprobe Limited Access

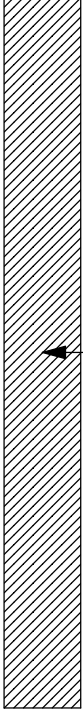


Completion Details	Sample ID	PID (ppm)	Sample Interval	Recovery (Inches)	Depth (Feet)	Symbol	Lithologic Description	
 <p>Bentonite</p>	GP-27-2	0.0			0		Top 2-inches: Asphalt	
					48		GRAY SILTY SAND (SM), dry, fine to coarse, some fines, few fine gravel @ 1.5 feet: moist	
	GP-27-5*	0.0			5		@ 2.6 feet: 4-inches broken rock and concrete	
						0		(5 to 10 feet: no recovery)
						10		TAN SILT (ML), dry, very hard, iron oxide staining, brittle
	GP-27-14.5*	0.0			60		@ 12.5 feet: bluish gray silt, tan silt banding, iron oxide staining, brittle	
	GP-27-W*	0.0			15		@ 14.8 feet: 2-inches of wet, bluish gray, silty sand	
					15		Bottom of boring @ 15 feet (refusal).	
							Temporary 1-inch PVC well screen set from 5 to 15 feet.	
							Depth to water measured in temporary well at least 1 hour after drilling: 10.2 feet below ground surface (bgs).	
					20		Boring abandoned using hydrated bentonite chips.	
							* Samples submitted for laboratory analysis.	
					25			
					30			

Project: Former Pace National
 Project Number: 1006.008.02
 Site Location: Kirkland, Washington
 Logged By: L. Doody
 Sample Method: Five foot acetate liners

Total Boring Depth: 15 feet
 Diameter of Boring: 2 inches
 Date Drilled: 4/11/13
 Drilled By: Cascade Drilling
 Drill Method: Geoprobe Limited Access



Completion Details	Sample ID	PID (ppm)	Sample Interval	Recovery (Inches)	Depth (Feet)	Symbol	Lithologic Description
 <p>Bentonite</p>	GP-27A-W	0.0	-	-	0	-	<p>Top 2-inches: Asphalt BROWN SILTY SAND (SM), moist, fine to coarse, little fines, few fine gravel @ 1.5 feet: gray</p> <p>@ 3.5 feet: wet</p>
		0.0	-	-	5	-	
		0.0	-	-	60	-	<p>GRAY SANDY SILT (ML), moist, some fine sand @ 6.5 to 7 feet: abundant black organic material</p> <p>@ 7 to 10 feet: grades from moist to wet</p>
		0.0	-	-	10	-	<p>TAN SILT (ML), dry, very hard, iron oxide staining, brittle</p> <p>@ 12 feet: blue and tan silt, elastic</p> <p>@ 14.7 feet: bluish gray sandy silt, moist</p>
		0.0	-	-	15	-	<p>Bottom of boring @ 15 feet (refusal)</p> <p>Temporary 1-inch PVC well screen set from 5 to 15 feet.</p> <p>Depth to water measured in temporary well at least 1 hour after drilling: 12.5 feet below ground surface (bgs).</p> <p>Boring abandoned using hydrated bentonite chips.</p> <p>Note: Soil samples from GP-27A collected for lithology only.</p>

Project: Former Pace National
 Project Number: 1006.008.02
 Site Location: Kirkland, Washington
 Logged By: L. Doody
 Sample Method: Five foot acetate liners

Total Boring Depth: 15 feet
 Diameter of Boring: 2 inches
 Date Drilled: 4/11/13
 Drilled By: Cascade Drilling
 Drill Method: Geoprobe Limited Access

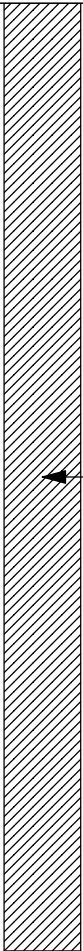


Completion Details	Sample ID	PID (ppm)	Sample Interval	Recovery (Inches)	Depth (Feet)	Symbol	Lithologic Description	
	GP-28-3*	0.0		60	0		Surface asphalt then 4-inches of wet organic material LIGHT BROWN SILTY SAND (SM), moist, fine to medium, little to some fines @ 2 feet: gray @ 3.5 feet: wet	
		0.0						
	GP-28-14* GP-32-20* (Duplicate Sample)	0.1			5	5		GRAYISH BROWN SANDY SILT (ML), wet, soft, some fine sand
		0.0			60	6		BROWN SAND (SP), wet, dense, fine, trace to few fines @ 9 feet: gray @ 10.5 to 11 feet: little fines
	GP-28-22* GP-28-W*	0.0			60	10		TAN SILTY SAND (SM), wet, dense, fine to medium, little to some fines, iron oxide staining @ 14 to 15 feet: increasing fines
		0.0			60	15		TAN SILT (ML), moist, very hard, few to little fine sand, iron oxide staining @ 17.5 feet: gray, dry
			0.0		60	20		BLUISH GRAY SILTY SAND (SM), wet, very dense, fine, little fines
			0.0		60	21		BLUISH GRAY SILT (ML), very hard, dry, trace to few fine sand, elastic
						25		Bottom of boring @ 25 feet. Temporary 1-inch PVC well screen set from 13 to 23 feet. Depth to water measured in temporary well at least 1 hour after drilling: 8.63 feet below ground surface (bgs). Boring abandoned using hydrated bentonite chips. * Samples submitted for laboratory analysis.
						30		
					35			
					40			

Project: Former Pace National
 Project Number: 1006.008.02
 Site Location: Kirkland, Washington
 Logged By: L. Doody
 Sample Method: Five foot acetate liners

Total Boring Depth: 25 feet
 Diameter of Boring: 2 inches
 Date Drilled: 4/10/13
 Drilled By: Cascade Drilling
 Drill Method: Geoprobe Limited Access



Completion Details	Sample ID	PID (ppm)	Sample Interval	Recovery (Inches)	Depth (Feet)	Symbol	Lithologic Description
 <p>Bentonite</p>					0		BROWNISH GRAY SAND WITH SILT (SP), dry, loose, fine to coarse, few fines, little fine to coarse gravel
	GP-29-3*	0.0	0.0	42			@ 3 feet: bluish gray, wet
	GP-29-5*	0.0			5		BLUISH GRAY SILTY SAND (SM), wet, fine to medium, little to some fines @ 6.5 feet: 1-inch black organic material @ 6.6 feet: brown silty sand
		0.0			60		BLUISH GRAY SILT (ML), dry to moist, very hard, few fine sand, tan color banding
		0.0			10		@ 10 to 11 feet: wet, some fine sand @ 11 feet: tan and blue, dry, very hard, brittle
	GP-29-W*	0.0			60		
	GP-29-15	0.0			15		@ 14.5 feet: bluish gray, dry, elastic
		0.0			60		
		0.0			20		
		0.0				25	
					30		

Bottom of boring @ 20 feet.

Temporary 1-inch PVC well screen set from 5 to 15 feet.

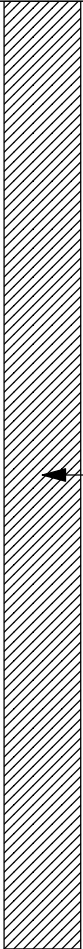
Depth to water measured in temporary well at least 1 hour after drilling: 12.0 feet below ground surface (bgs).

Boring abandoned using hydrated bentonite chips.

* Samples submitted for laboratory analysis.

Project: Former Pace National	Total Boring Depth: 20 feet
Project Number: 1006.008.02	Diameter of Boring: 2 inches
Site Location: Kirkland, Washington	Date Drilled: 4/11/13
Logged By: L. Doody	Drilled By: Cascade Drilling
Sample Method: Five foot acetate liners	Drill Method: Geoprobe Limited Access

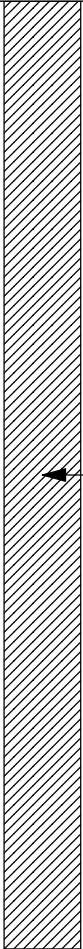
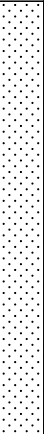




Completion Details	Sample ID	PID (ppm)	Sample Interval	Recovery (Inches)	Depth (Feet)	Symbol	Lithologic Description
	GP-30-3*	0.0			0		Top 6-inches: Surface asphalt, then organic material, wet
		0.0			42		LIGHT BROWN SILTY SAND (SM), moist, fine to coarse, dense, little fines, few fine to coarse gravel @ 2 feet: gray
		0.0			42		@ 3.5 feet: 3.5-inches of dry broken rock and gravel
	GP-30-8*	0.0			5		@ 5 feet: gray, moist to wet, few fine to coarse gravel
		0.0			42		@ 5.5 feet: little organic material
	GP-30-W*	0.0			10		GRAVEL (GP), wet, coarse, sub-rounded to well rounded
		0.0			10		GRAY SANDY SILT (SM), wet
		0.0			60		TAN SILT (ML), moist, very hard, trace to few fine sand, medium plasticity, iron oxide staining
		0.0			15		@ 16.5 feet: bluish gray, dry, elastic
			0.0		60		
		0.0		20			
<p>Bottom of boring @ 20 feet.</p> <p>Temporary 1-inch PVC well screen set from 5 to 15 feet.</p> <p>Depth to water measured in temporary well at least 1 hour after drilling: 5.21 feet below ground surface (bgs).</p> <p>Boring abandoned using hydrated bentonite chips.</p> <p>* Samples submitted for laboratory analysis.</p>							
					25		
					30		

Project: Former Pace National
 Project Number: 1006.008.02
 Site Location: Kirkland, Washington
 Logged By: L. Doody
 Sample Method: Five foot acetate liners

Total Boring Depth: 20 feet
 Diameter of Boring: 2 inches
 Date Drilled: 4/10/13
 Drilled By: Cascade Drilling
 Drill Method: Geoprobe Limited Access



Completion Details	Sample ID	PID (ppm)	Sample Interval	Recovery (Inches)	Depth (Feet)	Symbol	Lithologic Description
 <p>Bentonite</p>	GP-31-5*	0.0			0		GRAYISH BROWN SAND (SP), moist, loose, fine to medium, trace coarse sand, few fines, trace coarse gravel
		0.0			24		@ 4 to 5 feet: transitions from moist to wet
	GP-31-9*	0.0			5		@ 8 feet: fine to coarse @ 8.9 feet: increasing fines
		0.0			24		BROWN SILT (ML), moist, firm, medium plasticity, iron oxide staining
GP-31-W*	0.0			10		@ 14.5 feet: bluish gray, dry, iron oxide staining @ 15 feet: bluish gray, no iron oxide staining, elastic	
	0.0			54		Bottom of boring @ 20 feet. Temporary 1-inch PVC well screen set from 5 to 15 feet. Depth to water measured in temporary well at least 1 hour after drilling: 3.10 feet below ground surface (bgs). Boring abandoned using hydrated bentonite chips. * Samples submitted for laboratory analysis.	
					20		
					25		
					30		

Project: Former Pace National
 Project Number: 1006.008.02
 Site Location: Kirkland, Washington
 Logged By: L. Doody
 Sample Method: Five foot acetate liners

Total Boring Depth: 20 feet
 Diameter of Boring: 2 inches
 Date Drilled: 4/10/13
 Drilled By: Cascade Drilling
 Drill Method: Geoprobe Limited Access

Date Begin - End: 11/7/12 **Drill Company:** Boretac
Logged By: C. Leibli **Drill Crew:** Bob
Hor.-Vert. Datum: NAVD88 - WGS84 **Drill Equipment:** EC-55 Track Drill **Hammer Type - Drop:** 140 lb. Cathead - 30 in.
Angle from Vert.: 0 degrees **Exploration Method:** Hollow Stem Auger
Weather: Partly Cloudy, Calm, 50's **Bit - Auger Diameter:** 8 in. O.D. - 6 in. O.D.

BORING LOG B-1

Approximate Elevation (feet)	Depth (feet)	Graphical Log	FIELD EXPLORATION				LABORATORY RESULTS							
			Sample Type	Blow Counts(BC)= Uncorr. blows/6 in.	Pocket Pen(PP)= tsf	● Uncorrected N-VALUE (blows/ft) ▲ Water Content Plot (%)	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Density (pcf)	Passing No.4 Sieve (%)	Passing #200 Sieve (%)	Liquid Limit (NV=No Value)	Plasticity Index (NP=No Plasticity)
		Asphalt: 3 inches asphalt. Fill Sandy Lean CLAY with Gravel (CL): medium plasticity fines, bluish gray with black mottling, moist, firm, fine to medium sand, subangular to angular gravel up to 1 inch, some asphalt and wood debris.												
155	5		BC=7 7 6		13	11"								
150	10	Glaciolacustrine SILT (ML): low plasticity fines, bluish gray, moist, firm to hard, some fine sand in upper 5 feet, trace fine sand below upper 5 feet.	BC=18 29 44		50	6"								
145	15		BC=37 16 21 PP=3		37	14"								
140	20	Glaciolacustrine Silty SAND (SM): gray, wet, very dense, fine sand.	BC=11 14 17 PP=4		31 26.1	18"	SM	26.1		19				
135	25	Glaciolacustrine SILT (ML): low plasticity fines, gray, moist to wet, firm, common parting laminations	BC=10 12 14		26	15"								

GINT FILE: U:\1\projects\130525 Google Campus Expansion\logs\google Boring Logs.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.1.GLB [KLF_BORING WITH N-PLOT]



PROJECT NO.: 130525
 DRAWN BY: CLL
 CHECKED BY: RDL
 DATE: 11/16/2012
 REVISED: 11/16/2012

BORING LOG B-1

 Google Campus Expansion
 5th St S & 7th Ave S
 Kirkland, WA

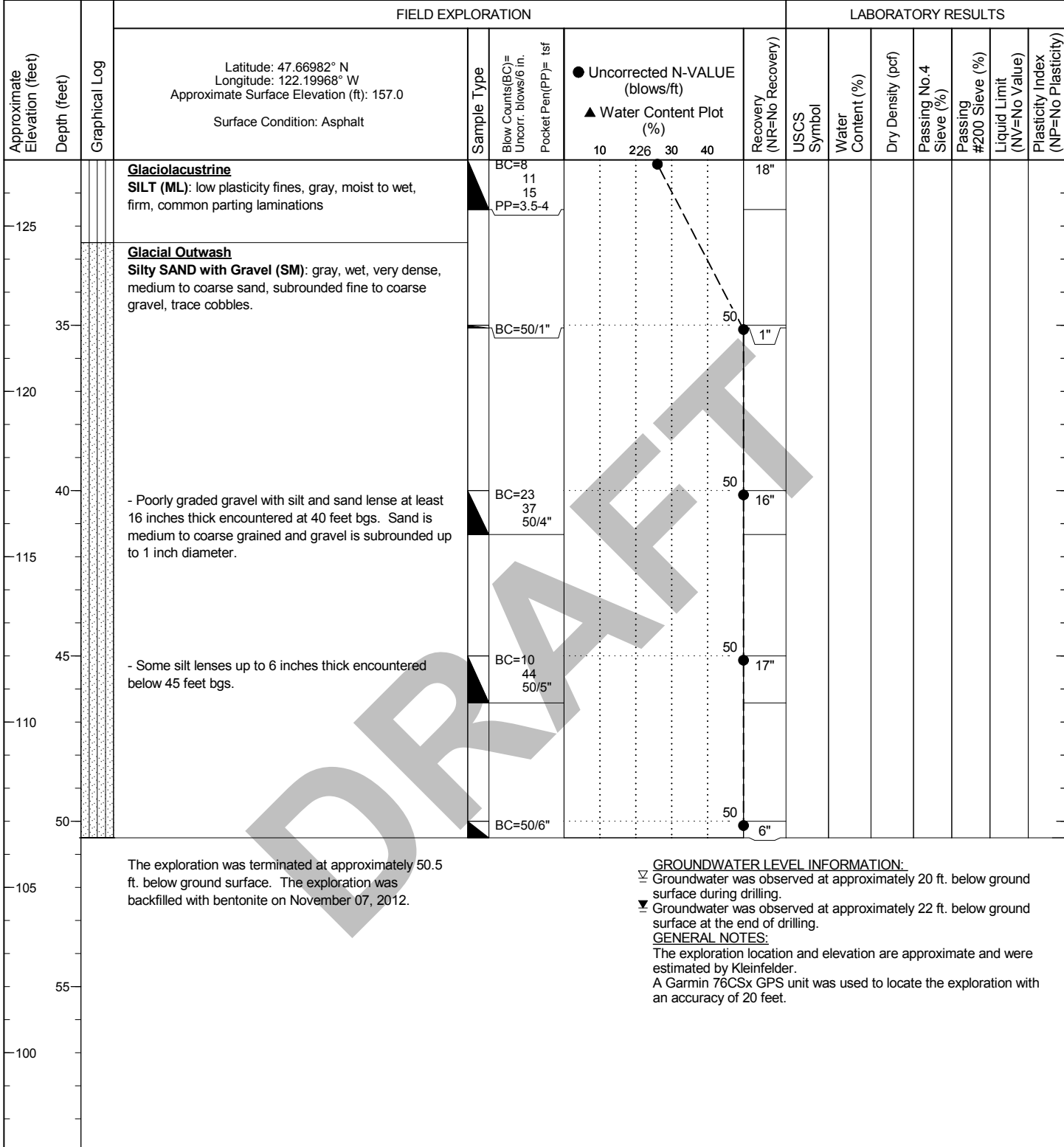
PLATE

A-2

 PAGE: 1 of 2


Date Begin - End: 11/7/12 **Drill Company:** Boretac
Logged By: C. Leibli **Drill Crew:** Bob
Hor.-Vert. Datum: NAVD88 - WGS84 **Drill Equipment:** EC-55 Track Drill **Hammer Type - Drop:** 140 lb. Cathead - 30 in.
Angle from Vert.: 0 degrees **Exploration Method:** Hollow Stem Auger
Weather: Partly Cloudy, Calm, 50's **Bit - Auger Diameter:** 8 in. O.D. - 6 in. O.D.

BORING LOG B-1



GROUNDWATER LEVEL INFORMATION:
 ∇ Groundwater was observed at approximately 20 ft. below ground surface during drilling.
 ∇ Groundwater was observed at approximately 22 ft. below ground surface at the end of drilling.
GENERAL NOTES:
 The exploration location and elevation are approximate and were estimated by Kleinfelder.
 A Garmin 76CSx GPS unit was used to locate the exploration with an accuracy of 20 feet.

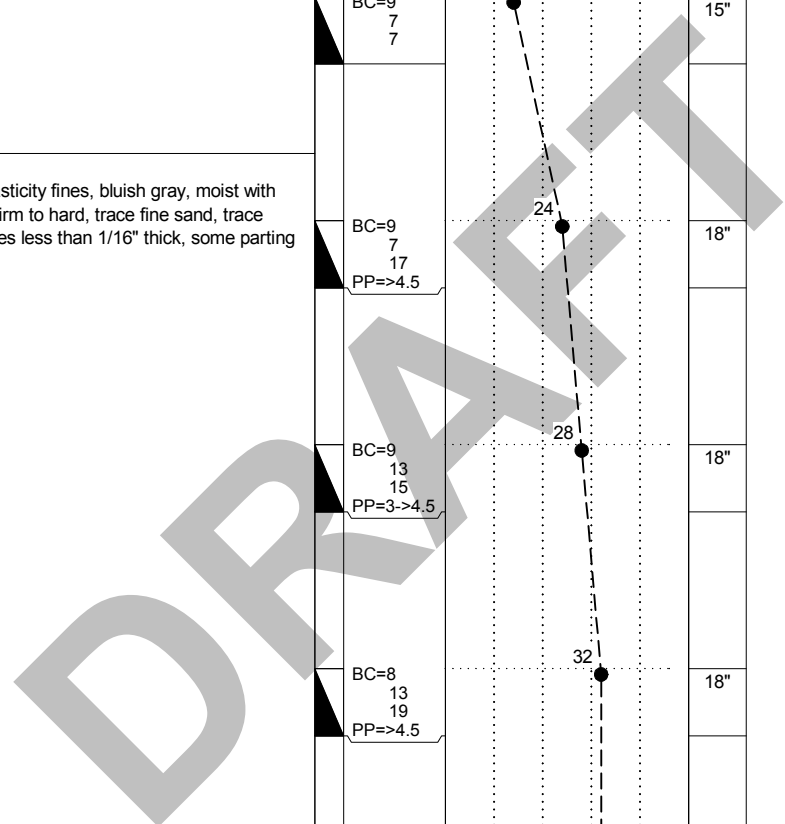
GINT FILE: U:\1\projects\130525 Google Campus Expansion\logs\google Boring Logs.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.1.GLB [KLF_BORING WITH N-PLOT]

	PROJECT NO.: 130525 DRAWN BY: CLL CHECKED BY: RDL DATE: 11/16/2012 REVISED: 11/16/2012	BORING LOG B-1 Google Campus Expansion 5th St S & 7th Ave S Kirkland, WA	PLATE A-2
			PAGE: 2 of 2

Date Begin - End: 11/7/12 **Drill Company:** Boretac
Logged By: C. Leibli **Drill Crew:** Bob
Hor.-Vert. Datum: NAVD88 - WGS84 **Drill Equipment:** EC-55 Track Drill **Hammer Type - Drop:** 140 lb. Cathead - 30 in.
Angle from Vert.: 0 degrees **Exploration Method:** Hollow Stem Auger
Weather: Partly Cloudy, Calm, 50's **Bit - Auger Diameter:** 8 in. O.D. - 6 in. O.D.

BORING LOG B-2

Approximate Elevation (feet)	Depth (feet)	Graphical Log	FIELD EXPLORATION				LABORATORY RESULTS								
			Sample Type	Blow Counts(BC)= Uncorr. blows/6 in.	Pocket Pen(PP)= tsf	● Uncorrected N-VALUE (blows/ft) ▲ Water Content Plot (%)	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Density (pcf)	Passing No.4 Sieve (%)	Passing #200 Sieve (%)	Liquid Limit (NV=No Value)	Plasticity Index (NP=No Plasticity)	
		Latitude: 47.66988° N Longitude: 122.19862° W Approximate Surface Elevation (ft): 167.0 Surface Condition: Grass													
165		Fill Clayey SAND with Gravel (SC): medium brown, moist with some wet zones, medium dense, iron-oxide staining, fine to coarse sand, subangular to subrounded fine to coarse gravel, trace cobbles up to 4 inches, some zones of sandy lean clay with gravel also encountered.													
5			BC=9 7 7		14		15"								
160															
10			Glaciolacustrine SILT (ML): low plasticity fines, bluish gray, moist with some wet zones, firm to hard, trace fine sand, trace wet fine sand lenses less than 1/16" thick, some parting laminations	BC=9 7 17 PP=>4.5		24		18"							
15				BC=9 13 15 PP=3->4.5		28		18"							
150															
20			BC=8 13 19 PP=>4.5		32		18"								
145															
25			BC=8 13 19 PP=>4.5		32		18"								
140															



GINT FILE: U:\1\projects\130525 Google Campus Expansion\logs\google Boring Logs.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.1.GLB [KLF_BORING WITH N-PLOT]

	PROJECT NO.: 130525	BORING LOG B-2 Google Campus Expansion 5th St S & 7th Ave S Kirkland, WA	PLATE
	DRAWN BY: CLL CHECKED BY: RDL DATE: 11/16/2012 REVISED: 11/16/2012		A-3

Date Begin - End: 11/7/12 **Drill Company:** Boretac
Logged By: C. Leibli **Drill Crew:** Bob
Hor.-Vert. Datum: NAVD88 - WGS84 **Drill Equipment:** EC-55 Track Drill **Hammer Type - Drop:** 140 lb. Cathead - 30 in.
Angle from Vert.: 0 degrees **Exploration Method:** Hollow Stem Auger
Weather: Partly Cloudy, Calm, 50's **Bit - Auger Diameter:** 8 in. O.D. - 6 in. O.D.

BORING LOG B-2

Approximate Elevation (feet)	Depth (feet)	Graphical Log	FIELD EXPLORATION				LABORATORY RESULTS							
			Sample Type	Blow Counts(BC)= Uncorr. blows/6 in.	Pocket Pen(PP)= tsf	● Uncorrected N-VALUE (blows/ft) ▲ Water Content Plot (%)	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Density (pcf)	Passing No.4 Sieve (%)	Passing #200 Sieve (%)	Liquid Limit (NV=No Value)	Plasticity Index (NP=No Plasticity)
		Latitude: 47.66988° N Longitude: 122.19862° W Approximate Surface Elevation (ft): 167.0 Surface Condition: Grass												
135		Glaciolacustrine SILT (ML): low plasticity fines, bluish gray, moist with some wet zones, firm to hard, trace fine sand, trace wet fine sand lenses less than 1/16" thick, some parting laminations	BC=6 8 12 PP=4			10 20 30 40	18"							
130	35		BC=7 7 7 PP=3.5			14	18"							
125	40		BC=8 9 12 PP=4.4.5			21	18"							
120	45		BC=8 10 15 PP=4			25	18"							
115	50		BC=9 11 18 PP=>4.5			29	18"							
110	55													

The exploration was terminated at approximately 51.5 ft. below ground surface. The exploration was backfilled with bentonite on November 07, 2012.

GROUNDWATER LEVEL INFORMATION:

- ≡ Perched groundwater was observed at approximately 5 ft. below ground surface during drilling.
- ▼ Groundwater was observed at approximately 44 ft. below ground surface at the end of drilling.

GENERAL NOTES:

The exploration location and elevation are approximate and were estimated by Kleinfelder.
 A Garmin 76CSx GPS unit was used to locate the exploration with an accuracy of 20 feet.

GINT FILE: U:\1\projects\130525 Google Campus Expansion\logs\google Boring Logs.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.1.GLB [KLF_BORING WITH N-PLOT]



PROJECT NO.: 130525
 DRAWN BY: CLL
 CHECKED BY: RDL
 DATE: 11/16/2012
 REVISED: 11/16/2012

BORING LOG B-2

Google Campus Expansion
 5th St S & 7th Ave S
 Kirkland, WA

PLATE

A-3

Date Begin - End: 11/7/12 **Drill Company:** Boretac
Logged By: C. Leibli **Drill Crew:** Bob
Hor.-Vert. Datum: NAVD88 - WGS84 **Drill Equipment:** EC-55 Track Drill **Hammer Type - Drop:** 140 lb. Cathead - 30 in.
Angle from Vert.: 0 degrees **Exploration Method:** Hollow Stem Auger
Weather: Partly Cloudy, Calm, 50's **Bit - Auger Diameter:** 8 in. O.D. - 6 in. O.D.

BORING LOG B-3

Approximate Elevation (feet)	Depth (feet)	Graphical Log	FIELD EXPLORATION				LABORATORY RESULTS							
			Sample Type	Blow Counts(BC)= Uncorr. blows/6 in.	Pocket Pen(PP)= tsf	● Uncorrected N-VALUE (blows/ft) ▲ Water Content Plot (%)	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Density (pcf)	Passing No.4 Sieve (%)	Passing #200 Sieve (%)	Liquid Limit (NV=No Value)	Plasticity Index (NP=No Plasticity)
		Latitude: 47.67018° N Longitude: 122.1992° W Approximate Surface Elevation (ft): 162.0 Surface Condition: Grass												
160	5	Fill Poorly-Graded GRAVEL with Silt And Sand (GP-GM): medium brown, moist to wet, dense, fine to medium sand, fine to coarse subrounded gravel, trace cobbles up to 4 inches.	BC=26 25 26		50	12"								
155	10	Fill Poorly-Graded SAND with Silt (SP-SM): medium brown, moist, medium dense, fine to medium sand, trace subrounded fine gravel.	BC=8 9 9		18	9"								
150	15	Glaciolacustrine SILT (ML): low plasticity fines, bluish gray, moist, firm to hard, trace fine sand, few fine sand lenses up to 1/16" thick.	BC=13 16 19 PP=4.5		35	18"								
145	20	- Becomes gray at 20 feet bgs.	BC=8 15 20 PP=4-4.5		35	18"								
140	25		BC=6 8 12 PP=4.5		20	18"								

GINT FILE: U:\1\projects\130525 Google Campus Expansion\logs\google Boring Logs.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.1.GLB [KLF_BORING WITH N-PLOT]



PROJECT NO.: 130525
 DRAWN BY: CLL
 CHECKED BY: RDL
 DATE: 11/16/2012
 REVISED: 11/16/2012

BORING LOG B-3

 Google Campus Expansion
 5th St S & 7th Ave S
 Kirkland, WA

PLATE

A-4

 PAGE: 1 of 2

Date Begin - End: 11/7/12 **Drill Company:** Boretac
Logged By: C. Leibli **Drill Crew:** Bob
Hor.-Vert. Datum: NAVD88 - WGS84 **Drill Equipment:** EC-55 Track Drill **Hammer Type - Drop:** 140 lb. Cathead - 30 in.
Angle from Vert.: 0 degrees **Exploration Method:** Hollow Stem Auger
Weather: Partly Cloudy, Calm, 50's **Bit - Auger Diameter:** 8 in. O.D. - 6 in. O.D.

BORING LOG B-3


Approximate Elevation (feet) Depth (feet)	Graphical Log	FIELD EXPLORATION				LABORATORY RESULTS							
		Sample Type	Blow Counts(BC)= Uncorr. blows/6 in.	Pocket Pen(PP)= tsf	Uncorrected N-VALUE (blows/ft)	Water Content Plot (%)	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Density (pcf)	Passing No.4 Sieve (%)	Passing #200 Sieve (%)	Liquid Limit (NV=No Value)
	Latitude: 47.67018° N Longitude: 122.1992° W Approximate Surface Elevation (ft): 162.0 Surface Condition: Grass												
130	Glaciolacustrine SILT (ML): low plasticity fines, bluish gray, moist, firm to hard, trace fine sand, few fine sand lenses up to 1/16" thick.	BC=6 7 10 PP=3.5-4			● 20	▲ 26.9	18"	26.9				25	NP
35	- Some soft wet zones encountered at 35 feet bgs.	BC=9 10 22 PP=3.5-4			● 32		18"						
120		BC=6 8 13 PP=4			● 21		18"						
115		BC=7 14 20 PP=3.5			● 34		18"						
50		BC=8 12 36			● 48		18"						
110	Glacial Outwash Silty SAND (SM): gray, wet, very dense, fine to medium sand.												

The exploration was terminated at approximately 51.5 ft. below ground surface. The exploration was backfilled with bentonite on November 07, 2012.

GROUNDWATER LEVEL INFORMATION:
 ∇ Perched groundwater was observed at approximately 4 ft. below ground surface during drilling.
 ∇ Groundwater was observed at approximately 35 ft. below ground surface during drilling.
 ∇ Groundwater was observed at approximately 49 ft. below ground surface at the end of drilling.

GENERAL NOTES:
 The exploration location and elevation are approximate and were estimated by Kleinfelder.
 A Garmin 76CSx GPS unit was used to locate the exploration with an accuracy of 20 feet.

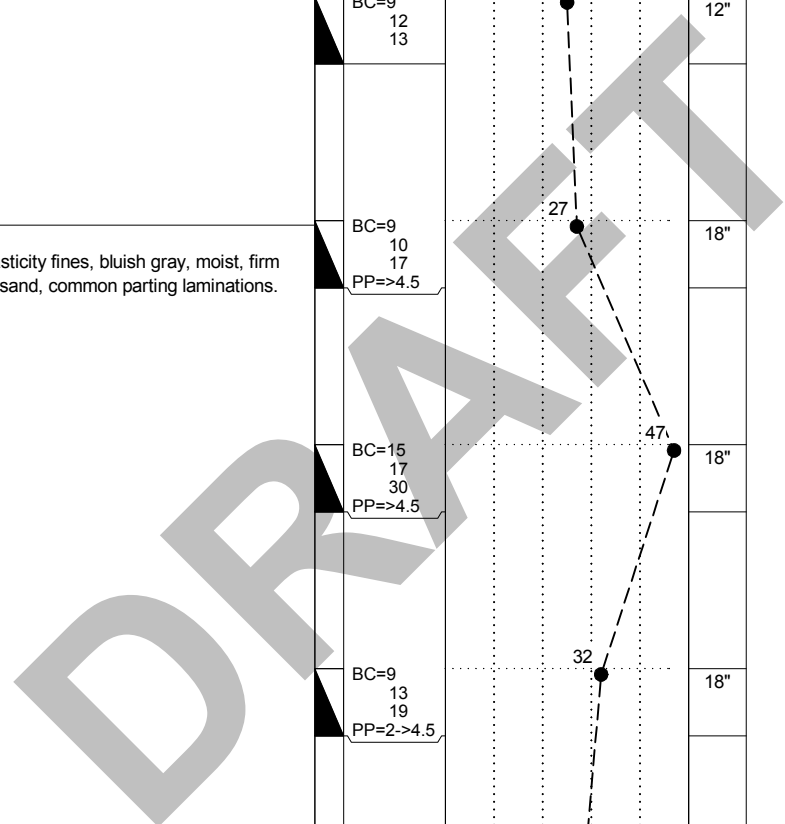
GINT FILE: U:\1\projects\130525 Google Campus Expansion\logs\google Boring Logs.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.1.GLB [KLF_BORING WITH N-PLOT]

	PROJECT NO.: 130525	BORING LOG B-3 Google Campus Expansion 5th St S & 7th Ave S Kirkland, WA	PLATE
	DRAWN BY: CLL		A-4
CHECKED BY: RDL	DATE: 11/16/2012		
REvised: 11/16/2012			PAGE: 2 of 2

Date Begin - End: 11/8/12 **Drill Company:** Boretac
Logged By: C. Leibli **Drill Crew:** Jim
Hor.-Vert. Datum: NAVD88 - WGS84 **Drill Equipment:** EC-55 Track Drill **Hammer Type - Drop:** 140 lb. Cathead - 30 in.
Angle from Vert.: 0 degrees **Exploration Method:** Hollow Stem Auger
Weather: Partly Cloudy, Calm, 40's **Bit - Auger Diameter:** 8 in. O.D. - 6 in. O.D.

BORING LOG B-4

Approximate Elevation (feet)	Depth (feet)	Graphical Log	FIELD EXPLORATION				LABORATORY RESULTS								
			Sample Type	Blow Counts(BC)= Uncorr. blows/6 in.	Pocket Pen(PP)= tsf	● Uncorrected N-VALUE (blows/ft) ▲ Water Content Plot (%)	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Density (pcf)	Passing No.4 Sieve (%)	Passing #200 Sieve (%)	Liquid Limit (NV=No Value)	Plasticity Index (NP=No Plasticity)	
		Latitude: 47.66922° N Longitude: 122.19977° W Approximate Surface Elevation (ft): 151.0 Surface Condition: Brush													
150		Topsoil: 6 to 8 inches dark brown organic topsoil. Weathered Glacial Till Silty SAND with Gravel (SM): medium brown, moist, medium dense, iron-oxide staining, fine to medium sand, subrounded fine gravel.													
145	5		BC=9 12 13			25	12"								
140	10	Glaciolacustrine SILT (ML): low plasticity fines, bluish gray, moist, firm to hard, trace fine sand, common parting laminations.	BC=9 10 17 PP=>4.5			27	18"								
135	15		BC=15 17 30 PP=>4.5			47	18"								
130	20		BC=9 13 19 PP=2->4.5			32	18"								
125	25	- Becomes gray at 25 feet bgs.	BC=9 12 16 PP=3-4			28	18"								






GINT FILE: U:\1\projects\130525 Google Campus Expansion\logs\google Boring Logs.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.1.GLB [KLF_BORING WITH N-PLLOT]


	PROJECT NO.: 130525	BORING LOG B-4 Google Campus Expansion 5th St S & 7th Ave S Kirkland, WA	PLATE
	DRAWN BY: CLL CHECKED BY: RDL DATE: 11/16/2012 REVISED: 11/16/2012		A-5

Date Begin - End: 11/8/12 **Drill Company:** Boretac
Logged By: C. Leibli **Drill Crew:** Jim
Hor.-Vert. Datum: NAVD88 - WGS84 **Drill Equipment:** EC-55 Track Drill **Hammer Type - Drop:** 140 lb. Cathead - 30 in.
Angle from Vert.: 0 degrees **Exploration Method:** Hollow Stem Auger
Weather: Partly Cloudy, Calm, 40's **Bit - Auger Diameter:** 8 in. O.D. - 6 in. O.D.

BORING LOG B-4

Approximate Elevation (feet)	Depth (feet)	Graphical Log	FIELD EXPLORATION				LABORATORY RESULTS							
			Sample Type	Blow Counts(BC)= Uncorr. blows/6 in.	Pocket Pen(PP)= tsf	● Uncorrected N-VALUE (blows/ft) ▲ Water Content Plot (%)	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Density (pcf)	Passing No.4 Sieve (%)	Passing #200 Sieve (%)	Liquid Limit (NV=No Value)	Plasticity Index (NP=No Plasticity)
		Latitude: 47.66922° N Longitude: 122.19977° W Approximate Surface Elevation (ft): 151.0 Surface Condition: Brush												
120		Glaciolacustrine SILT (ML): low plasticity fines, bluish gray, moist, firm to hard, trace fine sand, common parting laminations.	BC=10 14 18 PP=>4.5			32	18"							
115	35		BC=9 13 38			50	18"							
110	40		BC=32 36 50/4" PP=1-1.5			50	12"							
105	45	Glacial Outwash GRAVEL with Silt And Sand (GP-GM): gray, wet, very dense, medium to coarse sand, subangular to subrounded fine gravel, common interbedded silt and sand layers up to 6 inches thick.	BC=15 29 42			50	12"							
100	50		BC=50/6"			50	6"							
<p>The exploration was terminated at approximately 50.5 ft. below ground surface. The exploration was backfilled with bentonite on November 08, 2012.</p>			<p>GROUNDWATER LEVEL INFORMATION:  Groundwater was observed at approximately 35.5 ft. below ground surface during drilling.  Groundwater was observed at approximately 25 ft. below ground surface 30 minutes after drilling completion. GENERAL NOTES: The exploration location and elevation are approximate and were estimated by Kleinfelder. A Garmin 76CSx GPS unit was used to locate the exploration with an accuracy of 20 feet.</p>											

GINT FILE: U:\1\projects\130525 Google Campus Expansion\logs\google Boring Logs.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.1.GLB [KLF_BORING WITH N-PLOT]

	PROJECT NO.: 130525	BORING LOG B-4 Google Campus Expansion 5th St S & 7th Ave S Kirkland, WA	PLATE
	DRAWN BY: CLL		A-5
CHECKED BY: RDL	DATE: 11/16/2012		
REvised: 11/16/2012			PAGE: 2 of 2

Date Begin - End: 11/7/12 **Drill Company:** Boretac
Logged By: C. Leibli **Drill Crew:** Bob
Hor.-Vert. Datum: NAVD88 - WGS84 **Drill Equipment:** EC-55 Track Drill **Hammer Type - Drop:** 140 lb. Cathead - 30 in.
Angle from Vert.: 0 degrees **Exploration Method:** Hollow Stem Auger
Weather: Partly Cloudy, Calm, 50's **Bit - Auger Diameter:** 8 in. O.D. - 6 in. O.D.

BORING LOG B-5

Approximate Elevation (feet)	Depth (feet)	Graphical Log	FIELD EXPLORATION				LABORATORY RESULTS						
			Sample Type	Blow Counts(BC)= Uncorr. blows/6 in.	Pocket Pen(PP)= tsf	● Uncorrected N-VALUE (blows/ft) ▲ Water Content Plot (%)	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Density (pcf)	Passing No.4 Sieve (%)	Passing #200 Sieve (%)	Liquid Limit (NV=No Value)
		Asphalt: 2 inches asphalt. Fill Clayey GRAVEL with Sand (GC): medium brown with gray mottling, moist, medium dense, subangular to subrounded gravel up to 1 inch. Fill Silty SAND (SM): black to brown, moist to wet, loose, some subangular fine gravel, some glass and asphalt debris.	BC=5 4 3		7	18"							
155	5	Glaciolacustrine SILT (ML): low plasticity fines, bluish gray, moist, firm, trace fine sand, common parting laminations.	BC=22 31 21		50	10"							
150	10	Glaciolacustrine Silty SAND (SM): gray, wet, very dense, fine sand, some zones of sandy silt.	BC=14 13 20 PP=3		33	18"							
145	15	Glaciolacustrine Silty SAND (SM): gray, wet, very dense, fine sand, some zones of sandy silt.	BC=19 21 29		50	18"							
140	20	Glaciolacustrine SILT (ML): low plasticity fines, gray, moist, firm to hard, trace fine sand.	BC=6 9 9 PP=3.5		18	18"							
135	25												

GINT FILE: U:\1\projects\130525 Google Campus Expansion\logs\google Boring Logs.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.1.GLB [KLF_BORING WITH N-PLT]



PROJECT NO.: 130525
 DRAWN BY: CLL
 CHECKED BY: RDL
 DATE: 11/16/2012
 REVISED: 11/16/2012

BORING LOG B-5

Google Campus Expansion
 5th St S & 7th Ave S
 Kirkland, WA

PLATE


A-6

Date Begin - End: 11/7/12 **Drill Company:** Boretac **BORING LOG B-5**
Logged By: C. Leibli **Drill Crew:** Bob
Hor.-Vert. Datum: NAVD88 - WGS84 **Drill Equipment:** EC-55 Track Drill **Hammer Type - Drop:** 140 lb. Cathead - 30 in.
Angle from Vert.: 0 degrees **Exploration Method:** Hollow Stem Auger
Weather: Partly Cloudy, Calm, 50's **Bit - Auger Diameter:** 8 in. O.D. - 6 in. O.D.

Approximate Elevation (feet)	Depth (feet)	Graphical Log	FIELD EXPLORATION				LABORATORY RESULTS							
			Sample Type	Blow Counts(BC)= Uncorr. blows/6 in.	Pocket Pen(PP)= tsf	● Uncorrected N-VALUE (blows/ft) ▲ Water Content Plot (%)	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Density (pcf)	Passing No.4 Sieve (%)	Passing #200 Sieve (%)	Liquid Limit (NV=No Value)	Plasticity Index (NP=No Plasticity)
		Latitude: 47.66958° N Longitude: 122.19913° W Approximate Surface Elevation (ft): 162.5 Surface Condition: Asphalt												
		Glaciolacustrine												
		SILT (ML): low plasticity fines, gray, moist, firm to hard, trace fine sand.												
130														
35		- Some wet soft zones encountered below 35 feet bgs.												
125														
40														
120														
45														
115														
50														
110														
55														
105														

The exploration was terminated at approximately 51.4 ft. below ground surface. The exploration was backfilled with bentonite on November 07, 2012.

GROUNDWATER LEVEL INFORMATION:
 ∇ Perched groundwater was observed at approximately 8 ft. below ground surface during drilling.
 ∇ Groundwater was observed at approximately 35 ft. below ground surface during drilling.
GENERAL NOTES:
 The exploration location and elevation are approximate and were estimated by Kleinfelder.
 A Garmin 76CSx GPS unit was used to locate the exploration with an accuracy of 20 feet.

	PROJECT NO.: 130525	BORING LOG B-5 Google Campus Expansion 5th St S & 7th Ave S Kirkland, WA	PLATE
	DRAWN BY: CLL CHECKED BY: RDL DATE: 11/16/2012 REVISED: 11/16/2012		A-6
			PAGE: 2 of 2

GINT FILE: U:\1\projects\130525 Google Campus Expansion\logs\google Boring Logs.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.1.GLB [KLF_BORING WITH N-PLOT]

Date Begin - End: 11/7/12 **Drill Company:** Boretac **BORING LOG B-6**
Logged By: C. Leibli **Drill Crew:** Bob
Hor.-Vert. Datum: NAVD88 - WGS84 **Drill Equipment:** EC-55 Track Drill **Hammer Type - Drop:** 140 lb. Cathead - 30 in.
Angle from Vert.: 0 degrees **Exploration Method:** Hollow Stem Auger
Weather: Partly Cloudy, Calm, 50's **Bit - Auger Diameter:** 8 in. O.D. - 6 in. O.D.

Approximate Elevation (feet)	Depth (feet)	Graphical Log	FIELD EXPLORATION				LABORATORY RESULTS												
			Sample Type	Blow Counts(BC)= Uncorr. blows/6 in.	Pocket Pen(PP)= tsf	● Uncorrected N-VALUE (blows/ft) ▲ Water Content Plot (%)	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Density (pcf)	Passing No.4 Sieve (%)	Passing #200 Sieve (%)	Liquid Limit (NV=No Value)	Plasticity Index (NP=No Plasticity)					
165		Fill Clayey SAND (SC): medium brown, moist to wet, loose, fine to medium sand, some subangular fine gravel, trace organics.																	
5			BC=3 2 2			4		12"											
160		Weathered Glacial Till Silty SAND (SM): bluish gray with some orange mottling, moist, medium dense, fine to medium sand, some subrounded fine gravel.	BC=8 7 15 PP=>4.5			22		18"											
155		Glaciolacustrine SILT (ML): low plasticity fines, gray, moist, firm to hard, trace fine sand, few fine sand lenses up to 1/16" thick.	BC=6 9 13 PP=>4.5			22		18"											
150			BC=6 13 18 PP=1.5-4			31		18"											
145			BC=5 9 13 PP=>4.5			22		18"											
140																			

GINT FILE: U:\1\projects\130525 Google Campus Expansion\logs\google Boring Logs.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.1.GLB [KLF_BORING WITH N-PLOT]



PROJECT NO.: 130525
 DRAWN BY: CLL
 CHECKED BY: RDL
 DATE: 11/16/2012
 REVISED: 11/16/2012

BORING LOG B-6

Google Campus Expansion
 5th St S & 7th Ave S
 Kirkland, WA

PLATE

A-7

Date Begin - End: 11/7/12 **Drill Company:** Boretac
Logged By: C. Leibli **Drill Crew:** Bob
Hor.-Vert. Datum: NAVD88 - WGS84 **Drill Equipment:** EC-55 Track Drill **Hammer Type - Drop:** 140 lb. Cathead - 30 in.
Angle from Vert.: 0 degrees **Exploration Method:** Hollow Stem Auger
Weather: Partly Cloudy, Calm, 50's **Bit - Auger Diameter:** 8 in. O.D. - 6 in. O.D.

BORING LOG B-6

Approximate Elevation (feet)	Depth (feet)	Graphical Log	FIELD EXPLORATION				LABORATORY RESULTS							
			Sample Type	Blow Counts(BC)= Uncorr. blows/6 in.	Pocket Pen(PP)= tsf	Uncorrected N-VALUE (blows/ft)	Water Content Plot (%)	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Density (pcf)	Passing No.4 Sieve (%)	Passing #200 Sieve (%)	Liquid Limit (NV=No Value)
		Latitude: 47.66933° N Longitude: 122.19859° W Approximate Surface Elevation (ft): 166.0 Surface Condition: Brush												
135		Glaciolacustrine SILT (ML): low plasticity fines, gray, moist, firm to hard, trace fine sand, few fine sand lenses up to 1/16" thick. - Some wet zones encountered below 30 feet bgs.	BC=3 7 11 PP=3			18"								
130			BC=7 11 18 PP=3.5			18"								
125		Glacial Outwash Silty SAND (SM): gray, wet, very dense, fine to medium sand, some subangular fine gravel.	BC=13 44 36			8"								
120		Glacial Outwash Well-Graded SAND (SW): white and gray, wet, very dense, fine to medium sand.	BC=10 45 50/4"			16"								
115		Glacial Outwash Silty SAND (SM): gray, wet, very dense, fine to medium sand, some subangular fine gravel.	BC=50/4"			3"								
110		The exploration was terminated at approximately 50.3 ft. below ground surface. The exploration was backfilled with bentonite on November 07, 2012.												

GROUNDWATER LEVEL INFORMATION:
 ∇ Perched groundwater was observed at approximately 8 ft. below ground surface during drilling.
 ∇ Groundwater was observed at approximately 30 ft. below ground surface during drilling.
 ∇ Groundwater was observed at approximately 23 ft. below ground surface at the end of drilling.

GENERAL NOTES:
 The exploration location and elevation are approximate and were estimated by Kleinfelder.
 A Garmin 76CSx GPS unit was used to locate the exploration with an accuracy of 20 feet.

GINT FILE: U:\1\projects\130525 Google Campus Expansion\logs\google Boring Logs.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.1.GLB [KLF_BORING WITH N-PLOT]



PROJECT NO.: 130525
 DRAWN BY: CLL
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 DATE: 11/16/2012
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BORING LOG B-6

Google Campus Expansion
 5th St S & 7th Ave S
 Kirkland, WA

PLATE

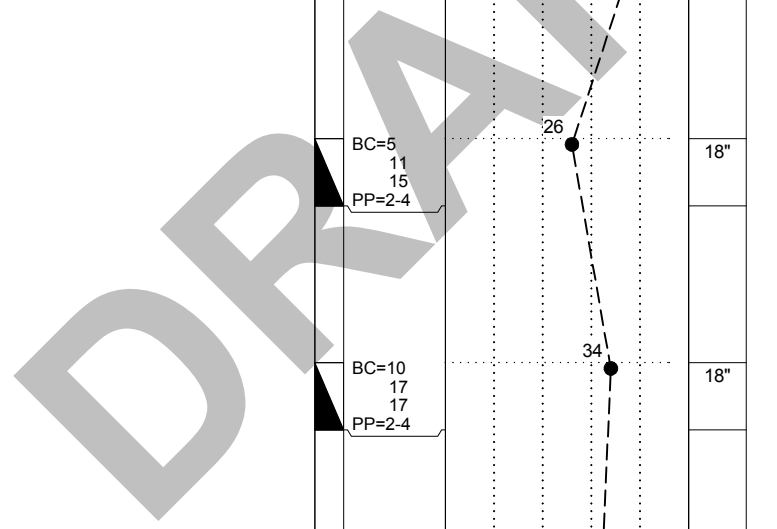
A-7

Date Begin - End: 11/8/12 **Drill Company:** Boretac
Logged By: C. Leibli **Drill Crew:** Jim
Hor.-Vert. Datum: NAVD88 - WGS84 **Drill Equipment:** EC-55 Track Drill **Hammer Type - Drop:** 140 lb. Cathead - 30 in.
Angle from Vert.: 0 degrees **Exploration Method:** Hollow Stem Auger
Weather: Partly Cloudy, Calm, 40's **Bit - Auger Diameter:** 8 in. O.D. - 6 in. O.D.

BORING LOG B-7

Approximate Elevation (feet)	Depth (feet)	Graphical Log	FIELD EXPLORATION				LABORATORY RESULTS								
			Sample Type	Blow Counts(BC)= Uncorr. blows/6 in.	Pocket Pen(PP)= tsf	● Uncorrected N-VALUE (blows/ft) ▲ Water Content Plot (%)	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Density (pcf)	Passing No.4 Sieve (%)	Passing #200 Sieve (%)	Liquid Limit (NV=No Value)	Plasticity Index (NP=No Plasticity)	
		Latitude: 47.66838° N Longitude: 122.19949° W Approximate Surface Elevation (ft): 156.0 Surface Condition: Brush													
		Topsoil: 6 to 12 inches dark brown organic topsoil.													
155		Glaciolacustrine SILT with Sand (ML): low plasticity fines, medium brown wth gray mottling, moist, firm to hard, iron-oxide staining, fine to medium sand.													
5			BC=11 22 24 PP=>4.5			46	18"								
150		Glaciolacustrine SILT (ML): low plasticity fines, gray, moist, firm to hard, trace fine sand.													
10			BC=10 15 26 PP=>4.5			41	18"								
145															
15			BC=5 11 15 PP=2-4			26	18"								
140															
20			BC=10 17 17 PP=2-4			34	18"								
135															
25			BC=5 12 20 PP=3.5-4			32	18"								
130		- Some wet fine sand lenses up to 1/16 inch thick encountered below 25 feet.													

GINT FILE: U:\1\projects\130525 Google Campus Expansion\logs\google Boring Logs.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.1.GLB [KLF_BORING WITH N-PLOT]



	PROJECT NO.: 130525	BORING LOG B-7 Google Campus Expansion 5th St S & 7th Ave S Kirkland, WA	PLATE
	DRAWN BY: CLL CHECKED BY: RDL DATE: 11/16/2012 REVISED: 11/16/2012		A-8

Date Begin - End: 11/8/12 **Drill Company:** Boretac
Logged By: C. Leibli **Drill Crew:** Jim
Hor.-Vert. Datum: NAVD88 - WGS84 **Drill Equipment:** EC-55 Track Drill **Hammer Type - Drop:** 140 lb. Cathead - 30 in.
Angle from Vert.: 0 degrees **Exploration Method:** Hollow Stem Auger
Weather: Partly Cloudy, Calm, 40's **Bit - Auger Diameter:** 8 in. O.D. - 6 in. O.D.

BORING LOG B-7

Approximate Elevation (feet)	Depth (feet)	Graphical Log	FIELD EXPLORATION				LABORATORY RESULTS								
			Sample Type	Blow Counts(BC)= Uncorr. blows/6 in. Pocket Pen(PP)= tsf	Uncorrected N-VALUE (blows/ft)	Water Content Plot (%)	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Density (pcf)	Passing No.4 Sieve (%)	Passing #200 Sieve (%)	Liquid Limit (NV=No Value)	Plasticity Index (NP=No Plasticity)	
			Latitude: 47.66838° N Longitude: 122.19949° W Approximate Surface Elevation (ft): 156.0 Surface Condition: Brush												
125		Glacial Outwash Silty SAND with Gravel (SM): gray, wet, very dense, fine to coarse sand, subrounded gravel up to 1 inch, common interbedded silty gravel with sand and silt layers 1 to 12 inches thick.	BC=44 50/2"					8"							
120			BC=31 26 50/5"					17"							
115			BC=50/5"					5"							
110			BC=50/6"					6"							
105			BC=50/6"					4"							
		The exploration was terminated at approximately 50.5 ft. below ground surface. The exploration was backfilled with bentonite on November 08, 2012.				GROUNDWATER LEVEL INFORMATION: ∇ Groundwater was observed at approximately 25 ft. below ground surface during drilling. ∇ Groundwater was observed at approximately 11 ft. below ground surface 2 hours after drilling completion. GENERAL NOTES: The exploration location and elevation are approximate and were estimated by Kleinfelder. A Garmin 76CSx GPS unit was used to locate the exploration with an accuracy of 20 feet.									

GINT FILE: U:\1\projects\130525 Google Campus Expansion\logs\google Boring Logs.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.1.GLB [KLF_BORING WITH N-PLOT]



PROJECT NO.: 130525
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BORING LOG B-7

Google Campus Expansion
 5th St S & 7th Ave S
 Kirkland, WA

PLATE

A-8

Date Begin - End: 11/8/12 **Drill Company:** Boretac
Logged By: C. Leibli **Drill Crew:** Jim
Hor.-Vert. Datum: NAVD88 - WGS84 **Drill Equipment:** EC-55 Track Drill **Hammer Type - Drop:** 140 lb. Cathead - 30 in.
Angle from Vert.: 0 degrees **Exploration Method:** Hollow Stem Auger
Weather: Partly Cloudy, Calm, 40's **Bit - Auger Diameter:** 8 in. O.D. - 6 in. O.D.

BORING LOG B-8

Approximate Elevation (feet) Depth (feet)	Graphical Log	FIELD EXPLORATION				LABORATORY RESULTS						
		Sample Type	Blow Counts(BC)= Uncorr. blows/6 in. Pocket Pen(PP)= tsf	● Uncorrected N-VALUE (blows/ft) ▲ Water Content Plot (%)	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Density (pcf)	Passing No.4 Sieve (%)	Passing #200 Sieve (%)	Liquid Limit (NV=No Value)	Plasticity Index (NP=No Plasticity)
	Latitude: 47.66857° N Longitude: 122.19906° W Approximate Surface Elevation (ft): 165.0 Surface Condition: Brush											
	Topsoil: 6 to 12 inches dark brown organic topsoil.											
	Glaciolacustrine SILT with Sand (ML): low plasticity fines, medium brown wth gray mottling, moist, firm to hard, iron-oxide staining, fine to medium sand.											
160	5	BC=26 28 22	50	3"								
155	10	BC=7 17 24 PP=4 >4.5	41	18"								
150	15	BC=11 14 26 PP=3.5	40	18"								
145	20	BC=9 16 23 PP=>4.5	39	18"								
140	25	BC=7 15 20	35	12"								
	Glacial Outwash Poorly-Graded SAND with Silt And Gravel (SP-SM): gray, wet, very dense, fine to coarse sand, subrounded gravel up to 1 inch, common interbedded silty gravel with sand and silt layers 1 to 12 inches thick.											

GINT FILE: U:\1\projects\130525 Google Campus Expansion\logs\google Boring Logs.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.1.GLB [KLF_BORING WITH N-PLOT]



PROJECT NO.: 130525
 DRAWN BY: CLL
 CHECKED BY: RDL
 DATE: 11/16/2012
 REVISED: 11/16/2012

BORING LOG B-8

Google Campus Expansion
 5th St S & 7th Ave S
 Kirkland, WA

PLATE


A-9

Date Begin - End: 11/8/12 **Drill Company:** Boretac
Logged By: C. Leibli **Drill Crew:** Jim
Hor.-Vert. Datum: NAVD88 - WGS84 **Drill Equipment:** EC-55 Track Drill **Hammer Type - Drop:** 140 lb. Cathead - 30 in.
Angle from Vert.: 0 degrees **Exploration Method:** Hollow Stem Auger
Weather: Partly Cloudy, Calm, 40's **Bit - Auger Diameter:** 8 in. O.D. - 6 in. O.D.

BORING LOG B-8

Approximate Elevation (feet)	Depth (feet)	Graphical Log	FIELD EXPLORATION				LABORATORY RESULTS							
			Sample Type	Blow Counts(BC)= Uncorr. blows/6 in.	Pocket Pen(PP)= tsf	● Uncorrected N-VALUE (blows/ft) ▲ Water Content Plot (%)	Recovery (NR=No Recovery)	USCS Symbol	Water Content (%)	Dry Density (pcf)	Passing No.4 Sieve (%)	Passing #200 Sieve (%)	Liquid Limit (NV=No Value)	Plasticity Index (NP=No Plasticity)
		Latitude: 47.66857° N Longitude: 122.19906° W Approximate Surface Elevation (ft): 165.0 Surface Condition: Brush												
		Glacial Outwash Poorly-Graded SAND with Silt And Gravel (SP-SM): gray, wet, very dense, fine to coarse sand, subrounded gravel up to 1 inch, common interbedded silty gravel with sand and silt layers 1 to 12 inches thick.	BC=16 21 46			▲ 13.8	● 18"	SM	13.8		82	13		
130	35		BC=29 30 50/5"				● 17"							
125	40		BC=25 50/5"				● 11"							
120	45		BC=34 50/4"				● 10"							
115	50		BC=50/6"				● 6"							
		The exploration was terminated at approximately 50.5 ft. below ground surface. The exploration was backfilled with bentonite on November 08, 2012.	SAMPLE BOTTOM IS GREATER THAN THE TOTAL HOLE DEPTH!		GROUNDWATER LEVEL INFORMATION: ∇ Groundwater was observed at approximately 26 ft. below ground surface during drilling. ▼ Artesian groundwater was observed at approximately 0 ft. below ground surface 2 hours after drilling completion.									
					GENERAL NOTES: The exploration location and elevation are approximate and were estimated by Kleinfelder. A Garmin 76CSx GPS unit was used to locate the exploration with an accuracy of 20 feet.									

GINT FILE: U:\1\projects\130525 Google Campus Expansion\logs\google Boring Logs.gpj R:\KLF_STANDARD_GINT_LIBRARY_SR.1.GLB [KLF_BORING WITH N-PLOT]

	PROJECT NO.: 130525	BORING LOG B-8 Google Campus Expansion 5th St S & 7th Ave S Kirkland, WA	PLATE
	DRAWN BY: CLL		A-9
CHECKED BY: RDL	DATE: 11/16/2012		
REvised: 11/16/2012			PAGE: 2 of 2



Page:	1	of	1
Date/Time:	4/11/13		
Project Name:	Former Pace National		
Job No:	1006.008.01		
Recorded By:	L Doody		
Sampled By:	L Doody		
Well No:	GP-26		

GROUNDWATER SAMPLING FORM

Well Type: Monitoring Extraction Other ^{Temp}

Well Material: PVC Stainless Steel Other

WELL PURGING

PURGE VOLUME	PURGING METHOD
Casing Diameter (D in inches) <input type="checkbox"/> 2-inch <input type="checkbox"/> 4-inch <input type="checkbox"/> 6-inch <input checked="" type="checkbox"/> Other <u>1.5</u>	<input type="checkbox"/> Bailer - type: _____
Total Depth of Casing (TD in feet below top of casing): <u>15</u>	<input type="checkbox"/> Submersible <input type="checkbox"/> Centrifugal <input type="checkbox"/> Bladder
Water-Level Depth (WL in feet below top of casing): <u>DTW: @ 1320 5.20</u>	<input type="checkbox"/> Peristaltic - Type: _____
Pump rate: approximately <u>2/100</u> mL/minute	PUMP INTAKE SETTING
	<input type="checkbox"/> Bottom <input type="checkbox"/> Top <input checked="" type="checkbox"/> Middle
	Depth in feet (BTOC): <u>10</u>
	Screen interval feet (BTOC) from <u>5</u> to <u>15</u>

FIELD PARAMETER MEASUREMENTS

Time	Gallons Removed	pH	Conductivity (µmhos/cm)	Temperature (°C)	DTW (feet bgs)	ORP	DO	Observations (color, well condition, odor, cloudiness, etc.)
START TIME: <u>1320</u>	STOP TIME:		TOTAL GALLONS REMOVED:					
1325	Purge for 5 min to remove silt							Water clears after 5 min
1327	6.46	533	11.3	NM	-74	1.13		Stop Pump, check DTW
1331	6.54	530	11.6	NM	-103	0.72		5.9' bgs and rising
1336	6.60	534	11.7	NM	-124	0.60		
1340	6.61	537	11.7	NM	-124	0.61		Water slightly cloudy
1343	6.61	536	11.7	NM	-125	0.60		
1345	DTW Before sampling = 7.05 and rising							
Notes: ~2300 ML Purged								

WELL SAMPLING

<input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Peristaltic	Sample No.	Time	Volume	Analyses	Bottle Type	Preservative
	GP-26-W	1350				

QUALITY CONTROL SAMPLES

Duplicate Sample No.	Time	Volume	Analyses	Bottle Type	Preservative
GP-26-W	1300				
Field Blank Sample No.	Time	Volume	Analyses	Bottle Type	Preservative



Page: 1 of 1
 Date/Time: 4/11/13
 Project Name: Former Pace National
 Job No: 1006.008.01
 Recorded By: L Doody
 Sampled By: L Doody

GROUNDWATER SAMPLING FORM

Well Type: Monitoring Extraction Other ^{Temp}
 Well Material: PVC Stainless Steel Other

Well No: GP-27

WELL PURGING

PURGE VOLUME
 Casing Diameter (D in inches): 2-inch 4-inch 6-inch Other _____
 Total Depth of Casing (TD in feet below top of casing): _____
 Water-Level Depth (WL in feet below top of casing): _____
 Pump rate: approximately 100 mL/minute

PURGING METHOD
 Bailor - type: _____
 Submersible Centrifugal Bladder
 Peristaltic - Type: _____

PUMP INTAKE SETTING
 Bottom Top Middle
 Depth in feet (BTOC): 13
 Screen interval feet (BTOC) from 5 to 15

*Due to DTW DTW: 12.1
 e1250
 1355: 10.4'
 1400: 10.2*

FIELD PARAMETER MEASUREMENTS

START TIME: 1402 STOP TIME: _____ TOTAL GALLONS REMOVED: _____

Time	Gallons Removed	pH	Conductivity (µmhos/cm)	Temperature (°C)	DTW (feet bgs)	ORP	DO	Observations (color, well condition, odor, cloudiness, etc.)
1415		6.43	917	12.0	NM	-8	7.8	
1418		6.31	984	11.9		-75	0.76	
1421		6.29	981	11.7		-84	0.70	
1424		6.29	980	11.6		-85	0.59	
1427		6.29	979	11.5		-87	0.52	
1430		6.29	978	11.5		-89	0.53	
1435		DTW Before sampling:			12.26			
1440		DTW: 12.08						Roll sample e1440

Notes:

WELL SAMPLING

Bailor Peristaltic

Sample No.	Time	Volume	Analyses	Bottle Type	Preservative
GP-27-W	1440				

QUALITY CONTROL SAMPLES

Duplicate Sample No.	Time	Volume	Analyses	Bottle Type	Preservative
Field Blank Sample No.	Time	Volume	Analyses	Bottle Type	Preservative



Page: 1 of 1
Date/Time: 4/11/13
Project Name: Former Pace National Proper
Job No: 1006.008.01
Recorded By: L Doody
Sampled By: L Doody
Well No: GP-27 AIT

GROUNDWATER SAMPLING FORM

TEMP

Well Type: <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Extraction <input checked="" type="checkbox"/> Other
Well Material: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Other

WELL PURGING

PURGE VOLUME Casing Diameter (D in inches) <input type="checkbox"/> 2-inch <input type="checkbox"/> 4-inch <input type="checkbox"/> 6-inch <input checked="" type="checkbox"/> Other 1.5	PURGING METHOD <input type="checkbox"/> Bailer - type: _____ <input type="checkbox"/> Submersible <input type="checkbox"/> Centrifugal <input type="checkbox"/> Bladder <input checked="" type="checkbox"/> Peristaltic - Type: MASTER FLEX
Total Depth of Casing (TD in feet below top of casing): 15	PUMP INTAKE SETTING <input type="checkbox"/> Bottom <input type="checkbox"/> Top <input type="checkbox"/> Middle
Water-Level Depth (WL in feet below top of casing): 2.5	Depth in feet (BTOC): 14
Pump rate: approximately 100 mL/minute	Screen interval feet (BTOC) from 5 to 15

DTWC 1430
= 14.15
DTWC 1532
= 12.5

FIELD PARAMETER MEASUREMENTS

START TIME: 1543 STOP TIME: _____ TOTAL GALLONS REMOVED: _____

Time	Gallons Removed	pH	Conductivity (µmhos/cm)	Temperature (°C)	DTW (feet bgs)	ORP	DO	Observations (color, well condition, odor, cloudiness, etc.)
1546		6.75	503	12.9	NM	-18	1.76	
1550		6.73	499	12.9	↓	-22	1.77	
1553		6.71	487	12.9	↓	-29	1.75	Water very silty
~ 1000 ML Purged								
Let well Recharge Before collecting sample								

Notes: TEMP Well set @ 1400

WELL SAMPLING

<input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Peristaltic					
Sample No.	Time	Volume	Analyses	Bottle Type	Preservative
GP-27AW	1610				

QUALITY CONTROL SAMPLES

Duplicate Sample No.	Time	Volume	Analyses	Bottle Type	Preservative
Field Blank Sample No.	Time	Volume	Analyses	Bottle Type	Preservative



Page:	1 of 1
Date/Time:	4/10/13
Project Name:	Former Pace National
Job No:	1006.008.01
Recorded By:	L Doody
Sampled By:	L Doody
Well No:	GP-28

GROUNDWATER SAMPLING FORM

Temp
 of

Well Type:	<input type="checkbox"/> Monitoring	<input type="checkbox"/> Extraction	<input checked="" type="checkbox"/> Other
Well Material:	<input checked="" type="checkbox"/> PVC	<input type="checkbox"/> Stainless Steel	<input type="checkbox"/> Other

WELL PURGING

PURGE VOLUME	PURGING METHOD
Casing Diameter (D in inches)	<input type="checkbox"/> Bailer - type: _____
<input type="checkbox"/> 2-inch <input type="checkbox"/> 4-inch <input type="checkbox"/> 6-inch <input checked="" type="checkbox"/> Other 1.5"	<input type="checkbox"/> Submersible <input type="checkbox"/> Centrifugal <input type="checkbox"/> Bladder
Total Depth of Casing (TD in feet below top of casing): 23	<input checked="" type="checkbox"/> Peristaltic - Type: _____
Water-Level Depth (WL in feet below top of casing): 8.63	PUMP INTAKE SETTING
Pump rate: approximately 150 mL/minute	<input type="checkbox"/> Bottom <input type="checkbox"/> Top <input checked="" type="checkbox"/> Middle
	Depth in feet (BTOC): 18
	Screen interval feet (BTOC) from 13 to 23

FIELD PARAMETER MEASUREMENTS

START TIME: 1201 STOP TIME: _____ TOTAL GALLONS REMOVED: _____

Time	Gallons Removed	pH	Conductivity (µmhos/cm)	Temperature (°C)	DTW (feet bgs)	ORP	DO	Observations (color, well condition, odor, cloudiness, etc.)
1306	Purge for 5 min to clear sediment before taking parameters							
1306		6.44	560	12.5	NM	-108	4.48	
1310		6.49	556	12.5		-422	0.34	Water Gray, cloudy
1313		6.53	578	12.4		-287	0.28	
1316		6.53	587	12.4		-440	0.25	
1320		6.53	590	12.4		-443	0.26	
13521						0.97		

Notes:

WELL SAMPLING

<input type="checkbox"/> Bailer <input type="checkbox"/> Peristaltic					
Sample No.	Time	Volume	Analyses	Bottle Type	Preservative
GP-28-W	1530				

QUALITY CONTROL SAMPLES

Duplicate Sample No.	Time	Volume	Analyses	Bottle Type	Preservative
Field Blank Sample No.	Time	Volume	Analyses	Bottle Type	Preservative



PES Environmental, Inc.
Engineering & Environmental Services

Page: 1 of 1
Date/Time: 4/11/13
Project Name: Former Pace National
Job No: 1006.008.01
Recorded By: L Doody
Sampled By: L Doody
Well No: GR-299

GROUNDWATER SAMPLING FORM

Well Type: Monitoring Extraction Other *Temp*
Well Material: PVC Stainless Steel Other

WELL PURGING

PURGE VOLUME: Casing Diameter (D in inches) 2-inch 4-inch 6-inch Other 1.5
Total Depth of Casing (TD in feet below top of casing): 14.8
Water-Level Depth (WL in feet below top of casing): 12.0
Pump rate: approximately 100 mL/minute

PURGING METHOD: Bailor - type: _____
 Submersible Centrifugal Bladder
 Peristaltic - Type: MASTER FLEX
PUMP INTAKE SETTING: Bottom Top Middle *due to DTW:*
Depth in feet (BTOC): 14.8
Screen interval feet (BTOC) from: 5 to 15

DTW: 13.22
14.0
1355: 14.4'
1455: 12.0

FIELD PARAMETER MEASUREMENTS

START TIME: 1500 STOP TIME: _____ TOTAL GALLONS REMOVED: _____

Time	Gallons Removed	pH	Conductivity (umhos/cm)	Temperature (°C)	DTW (feet bgs)	ORP	DO	Observations (color, well condition, odor, cloudiness, etc.)
1503		6.57	955	13.8	NM	-8	3.91	
1506		6.61	958	13.3		-33	2.20	
1509		6.65	953	13.3		-41	1.78	
1512		6.61	960	13.3		-44	1.76	
21200 ml Purged Before Collecting								DTW NOT MEASURED DURING SAMPLING DUE TO WELL/TUBING/METER PROBE SIZE DOES NOT FIT

Notes: let well RECHARGE AFTER Purge Before collecting SAMPLE DTW @ 1529 12.97

WELL SAMPLING

Bailor Peristaltic

Sample No.	Time	Volume	Analyses	Bottle Type	Preservative
GR-29-W	1530				

QUALITY CONTROL SAMPLES

Duplicate Sample No.	Time	Volume	Analyses	Bottle Type	Preservative
Field Blank Sample No.	Time	Volume	Analyses	Bottle Type	Preservative



Page: 1 of 1
 Date/Time: 4/10/13
 Project Name: Former Pace National
 Job No: 1008.008.01
 Recorded By: L Doody
 Sampled By: L Doody
 Well No: GP-30

GROUNDWATER SAMPLING FORM

Well Type: Monitoring Extraction Other
 Well Material: PVC Stainless Steel Other

WELL PURGING

PURGE VOLUME
 Casing Diameter (D in inches)
 2-inch 4-inch 6-inch Other
 Total Depth of Casing (TD in feet below top of casing):
 Water-Level Depth (WL in feet below top of casing): 5.21
 Pump rate: approximately 2180 mL/minute

PURGING METHOD
 Bailor - type: _____
 Submersible Centrifugal Bladder
 Peristaltic - Type: _____

PUMP INTAKE SETTING
 Bottom Top Middle
 Depth in feet (BTOC): 10
 Screen interval feet (BTOC) from 5 to 15

FIELD PARAMETER MEASUREMENTS

START TIME: 1525 STOP TIME: _____ TOTAL GALLONS REMOVED: _____

Time	Gallons Removed	pH	Conductivity (umhos/cm)	Temperature (°C)	DTW (feet bgs)	ORP	DO	Observations (color, well condition, odor, cloudiness, etc.)
1529		6.39	570	12.8	NM	-48	2.49	
1533		6.38	673	11.70	NM	-86	0.43	
1536		6.41	612	11.60	NM	-118	0.43	
1539		6.41	597	11.2	NM	-115	0.46	
1545		6.41	566	11.2	NM	-115	0.44	
1549		6.41	590	11.2	NM	-116	0.45	
1550					6.25			

Notes:

Temp Well set from 5-15

WELL SAMPLING

Bailor Peristaltic

Sample No.	Time	Volume	Analyses	Bottle Type	Preservative
GP-30-W	1500				

QUALITY CONTROL SAMPLES

Duplicate Sample No.	Time	Volume	Analyses	Bottle Type	Preservative
Field Blank Sample No.	Time	Volume	Analyses	Bottle Type	Preservative



Page: 1 of 1
Date/Time: 4/10/12
Project Name: Former Pace National
Job No: 1006.008.01
Recorded By: L Doody
Sampled By: L Doody
Well No: GP-31

GROUNDWATER SAMPLING FORM

TEMP

Well Type: <input type="checkbox"/> Monitoring <input type="checkbox"/> Extraction <input checked="" type="checkbox"/> Other	Well No: GP-31
Well Material: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Other	

WELL PURGING

PURGE VOLUME	PURGING METHOD
Casing Diameter (D in inches) <input type="checkbox"/> 2-inch <input type="checkbox"/> 4-inch <input type="checkbox"/> 6-inch <input checked="" type="checkbox"/> Other 1.5"	<input type="checkbox"/> Bailor - type: _____
Total Depth of Casing (TD in feet below top of casing): 15	<input checked="" type="checkbox"/> Peristaltic - Type: _____
Water-Level Depth (WL in feet below top of casing): 3.25	PUMP INTAKE SETTING
Pump rate: approximately 120 mL/minute	<input type="checkbox"/> Bottom <input type="checkbox"/> Top <input checked="" type="checkbox"/> Middle
	Depth in feet (BTOC): 10
	Screen interval feet (BTOC) from 5 to 15

FIELD PARAMETER MEASUREMENTS

START TIME: 1338 STOP TIME: _____ TOTAL GALLONS REMOVED: _____

Time	Gallons Removed	pH	Conductivity (µmhos/cm)	Temperature (°C)	DTW (feet bgs)	ORP	DO	Observations (color, well condition, odor, cloudiness, etc.)
1338	Let well purge for 27 minutes to clear sediment before							
1346		6.10	412	12.4	NM	-397	0.89	Measuring parameters
1351		6.13	469	11.3	NM	-339	0.70	Water Brown
1356		6.09	494	11.3	NM	-420	0.49	Water light Brown
1400		6.13	508	11.2	NM	-418	0.45	Water v. light brown → clear
1404		6.13	510	11.2	NM	-420	0.43	
1408		6.14	512	11.2	NM	-418	0.41	
1409		-	-	-	3.25	-	-	

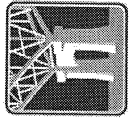
Notes: Temp well set from 5-15 feet

WELL SAMPLING

<input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Peristaltic	Actual sample time 1410				
Sample No.	Time	Volume	Analyses	Bottle Type	Preservative
GP-31-1	1405				

QUALITY CONTROL SAMPLES

Duplicate Sample No.	Time	Volume	Analyses	Bottle Type	Preservative
Field Blank Sample No.	Time	Volume	Analyses	Bottle Type	Preservative



Fremont Analytical

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Client: **DES**
Address: **1215 4th AVE**
City, State, Zip: **SEACAC**

Date: **4/12/13**

Project Name:
Location:

Collected by:

Laboratory Project No (Internal):

Page: **1** of: **1**

Project Name:
Location:
Collected by:

Reports To (PM): **Kelly Rankin** Fax:

Email: **k.rankin@fremont-analytical.com**

Project No: **1006.002.02**

Chain of Custody Record

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)	GC/EPA 8260	GC/EPA 8210	GC/EPA 8210 SIM	PCBs (EPA 8082)	Chlorides (EPA 8082)	Metals* (EPA 8210)	Total (T) Dissolved (D)	Anions (C)**	Comments/Depth
GR-31-W	4/10	1405	WTR	X	X	X	X	X	X	X	X	SEE PM KELLY
GR-30-W	4/10	1500		X	X	X	X	X	X	X	X	RANKIN FOR
GR-28-W	4/10	1520		X	X	X	X	X	X	X	X	ANALYSIS
GR-32-W	4/11	1300		X	X	X	X	X	X	X	X	
GR-26-W	4/11	1350		X	X	X	X	X	X	X	X	
GR-27-W	4/11	1440		X	X	X	X	X	X	X	X	
GR-29-W	4/11	1520		X	X	X	X	X	X	X	X	
GR-27A-W	4/11	1600		X	X	X	X	X	X	X	X	HOLD!
TRIP												

*Metals Analysis (Circle): MTCA-5 RCRA-8 RCRA-8 Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

**Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Fluoride O-Phosphate Nitrate+Nitrite

Sample Disposal: Return to Client Disposal by Lab (A fee may be assessed if samples are retained after 30 days.)

Relinquished Date/Time: **4/12/13** Received Date/Time: **4/12/13 11:20 AM**

Relinquished Signature: **[Signature]** Received Signature: **[Signature]**

Special Remarks: **CHAIN MARKER FROM RANKIN FOR ANALYSIS**

TAT -> Next Day 2 Day 3 Day STD



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Kelly Rankich
1215 Fourth Avenue, Suite 1350
Seattle, Washington 98161

RE: Former Pace
Lab ID: 1304102

April 18, 2013

Attention Kelly Rankich:

Fremont Analytical, Inc. received 19 sample(s) on 4/12/2013 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.
Gasoline by NWTPH-Gx
Mercury by EPA Method 7471
Sample Moisture (Percent Moisture)
Total Metals by EPA Method 6020
Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "M. Dee".

Michael Dee
Sr. Chemist / Principal



Date: 04/18/2013

CLIENT: PES Environmental, Inc.
Project: Former Pace
Lab Order: 1304102

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1304102-001	GP-31-5	04/10/2013 9:30 AM	04/12/2013 1:11 PM
1304102-002	GP-31-9	04/10/2013 9:50 AM	04/12/2013 1:11 PM
1304102-003	GP-30-3	04/10/2013 10:50 AM	04/12/2013 1:11 PM
1304102-004	GP-30-8	04/10/2013 11:00 AM	04/12/2013 1:11 PM
1304102-005	GP-28-3	04/10/2013 12:00 AM	04/12/2013 1:11 PM
1304102-006	GP-28-14	04/10/2013 12:00 AM	04/12/2013 1:11 PM
1304102-007	GP-28-22	04/10/2013 1:00 PM	04/12/2013 1:11 PM
1304102-008	GP-32-20	04/10/2013 12:00 AM	04/12/2013 1:11 PM
1304102-009	GP-27-2	04/11/2013 10:10 AM	04/12/2013 1:11 PM
1304102-010	GP-27-5	04/11/2013 10:20 AM	04/12/2013 1:11 PM
1304102-011	GP-27-14.5	04/11/2013 10:50 AM	04/12/2013 1:11 PM
1304102-012	GP-26-2	04/11/2013 11:20 AM	04/12/2013 1:11 PM
1304102-013	GP-26-6	04/11/2013 11:30 AM	04/12/2013 1:11 PM
1304102-014	GP-26-17	04/11/2013 12:00 PM	04/12/2013 1:11 PM
1304102-015	GP-29-3	04/11/2013 12:10 PM	04/12/2013 1:11 PM
1304102-016	GP-29-5	04/11/2013 12:30 PM	04/12/2013 1:11 PM
1304102-017	GP-29-15	04/11/2013 12:40 PM	04/12/2013 1:11 PM
1304102-018	Soil Comp	04/11/2013 4:30 PM	04/12/2013 1:11 PM
1304102-019	Trip Blank	04/12/2013 12:00 AM	04/12/2013 1:11 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: PES Environmental, Inc.**Project:** Former Pace

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Prep Comments for METHOD (PREP-DX-S): Silica Gel Cleanup Procedure performed as requested.

Prep Comments for PREP-DX-S, Sample 1304102-010B: High Moisture Content



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 9:30:00 AM

Project: Former Pace

Lab ID: 1304102-001

Matrix: Soil

Client Sample ID: GP-31-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 4433

Analyst: BR

Diesel (Fuel Oil)	ND	19.3		mg/Kg-dry	1	4/15/2013 6:37:00 PM
Heavy Oil	ND	48.1		mg/Kg-dry	1	4/15/2013 6:37:00 PM
Surr: 2-Fluorobiphenyl	119	50-150		%REC	1	4/15/2013 6:37:00 PM
Surr: o-Terphenyl	122	50-150		%REC	1	4/15/2013 6:37:00 PM

Gasoline by NWTPH-Gx

Batch ID: R8178

Analyst: EM

Gasoline	ND	4.49		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Surr: 1,2-Dichloroethane-d4	99.5	65-135		%REC	1	4/16/2013 11:50:00 AM
Surr: Fluorobenzene	100	65-135		%REC	1	4/16/2013 11:50:00 AM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dichlorodifluoromethane (CFC-12)	ND	0.0538		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Chloromethane	ND	0.0538		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Vinyl chloride	ND	0.00179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Bromomethane	ND	0.0808		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Trichlorofluoromethane (CFC-11)	ND	0.0449		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Chloroethane	ND	0.0538		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,1-Dichloroethene	ND	0.0449		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Methylene chloride	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
trans-1,2-Dichloroethene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Methyl tert-butyl ether (MTBE)	ND	0.0449		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,1-Dichloroethane	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
2,2-Dichloropropane	ND	0.0449		mg/Kg-dry	1	4/16/2013 11:50:00 AM
cis-1,2-Dichloroethene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Chloroform	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,1,1-Trichloroethane (TCA)	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,1-Dichloropropene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Carbon tetrachloride	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,2-Dichloroethane (EDC)	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Benzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Trichloroethene (TCE)	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,2-Dichloropropane	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Bromodichloromethane	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 9:30:00 AM

Project: Former Pace

Lab ID: 1304102-001

Matrix: Soil

Client Sample ID: GP-31-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0359		mg/Kg-dry	1	4/16/2013 11:50:00 AM
cis-1,3-Dichloropropene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Toluene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
trans-1,3-Dichloropropylene	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,1,2-Trichloroethane	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,3-Dichloropropane	ND	0.0449		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Tetrachloroethene (PCE)	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Dibromochloromethane	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,2-Dibromoethane (EDB)	ND	0.00449		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Chlorobenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,1,1,2-Tetrachloroethane	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Ethylbenzene	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
m,p-Xylene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
o-Xylene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Styrene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Isopropylbenzene	ND	0.0718		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Bromoform	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,1,2,2-Tetrachloroethane	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
n-Propylbenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Bromobenzene	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,3,5-Trimethylbenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
2-Chlorotoluene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
4-Chlorotoluene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
tert-Butylbenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,2,3-Trichloropropane	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,2,4-Trichlorobenzene	ND	0.0449		mg/Kg-dry	1	4/16/2013 11:50:00 AM
sec-Butylbenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
4-Isopropyltoluene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,3-Dichlorobenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,4-Dichlorobenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
n-Butylbenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,2-Dichlorobenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,2-Dibromo-3-chloropropane	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,2,4-Trimethylbenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Hexachlorobutadiene	ND	0.0897		mg/Kg-dry	1	4/16/2013 11:50:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 9:30:00 AM

Project: Former Pace

Lab ID: 1304102-001

Matrix: Soil

Client Sample ID: GP-31-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Naphthalene	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,2,3-Trichlorobenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Surr: Dibromofluoromethane	97.3	67.6-119		%REC	1	4/16/2013 11:50:00 AM
Surr: Toluene-d8	97.0	67-139		%REC	1	4/16/2013 11:50:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.8	63.1-141		%REC	1	4/16/2013 11:50:00 AM

Sample Moisture (Percent Moisture)

Batch ID: R8181

Analyst: JS

Percent Moisture	6.27			wt%	1	4/16/2013 2:19:23 PM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 9:50:00 AM

Project: Former Pace

Lab ID: 1304102-002

Matrix: Soil

Client Sample ID: GP-31-9

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 4433

Analyst: BR

Diesel (Fuel Oil)	ND	23.9		mg/Kg-dry	1	4/15/2013 7:34:00 PM
Heavy Oil	ND	59.8		mg/Kg-dry	1	4/15/2013 7:34:00 PM
Surr: 2-Fluorobiphenyl	116	50-150		%REC	1	4/15/2013 7:34:00 PM
Surr: o-Terphenyl	121	50-150		%REC	1	4/15/2013 7:34:00 PM

Gasoline by NWTPH-Gx

Batch ID: R8178

Analyst: EM

Gasoline	ND	3.74		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Surr: 1,2-Dichloroethane-d4	100	65-135		%REC	1	4/16/2013 12:18:00 PM
Surr: Fluorobenzene	99.3	65-135		%REC	1	4/16/2013 12:18:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dichlorodifluoromethane (CFC-12)	ND	0.0449		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Chloromethane	ND	0.0449		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Vinyl chloride	ND	0.00150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Bromomethane	ND	0.0673		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Trichlorofluoromethane (CFC-11)	ND	0.0374		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Chloroethane	ND	0.0449		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,1-Dichloroethene	ND	0.0374		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Methylene chloride	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
trans-1,2-Dichloroethene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.0374		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,1-Dichloroethane	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
2,2-Dichloropropane	ND	0.0374		mg/Kg-dry	1	4/16/2013 12:18:00 PM
cis-1,2-Dichloroethene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Chloroform	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,1,1-Trichloroethane (TCA)	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,1-Dichloropropene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Carbon tetrachloride	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,2-Dichloroethane (EDC)	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Benzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Trichloroethene (TCE)	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,2-Dichloropropane	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Bromodichloromethane	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 9:50:00 AM

Project: Former Pace

Lab ID: 1304102-002

Matrix: Soil

Client Sample ID: GP-31-9

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260					Batch ID: 4436	Analyst: EM
Dibromomethane	ND	0.0299		mg/Kg-dry	1	4/16/2013 12:18:00 PM
cis-1,3-Dichloropropene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Toluene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
trans-1,3-Dichloropropylene	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,1,2-Trichloroethane	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,3-Dichloropropane	ND	0.0374		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Tetrachloroethene (PCE)	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Dibromochloromethane	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,2-Dibromoethane (EDB)	ND	0.00374		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Chlorobenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Ethylbenzene	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
m,p-Xylene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
o-Xylene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Styrene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Isopropylbenzene	ND	0.0598		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Bromoform	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
n-Propylbenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Bromobenzene	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,3,5-Trimethylbenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
2-Chlorotoluene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
4-Chlorotoluene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
tert-Butylbenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,2,3-Trichloropropane	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,2,4-Trichlorobenzene	ND	0.0374		mg/Kg-dry	1	4/16/2013 12:18:00 PM
sec-Butylbenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
4-Isopropyltoluene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,3-Dichlorobenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,4-Dichlorobenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
n-Butylbenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,2-Dichlorobenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,2,4-Trimethylbenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Hexachlorobutadiene	ND	0.0748		mg/Kg-dry	1	4/16/2013 12:18:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 9:50:00 AM

Project: Former Pace

Lab ID: 1304102-002

Matrix: Soil

Client Sample ID: GP-31-9

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Naphthalene	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,2,3-Trichlorobenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Surr: Dibromofluoromethane	98.0	67.6-119		%REC	1	4/16/2013 12:18:00 PM
Surr: Toluene-d8	97.9	67-139		%REC	1	4/16/2013 12:18:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.9	63.1-141		%REC	1	4/16/2013 12:18:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R8181

Analyst: JS

Percent Moisture	20.3			wt%	1	4/16/2013 2:19:23 PM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 10:50:00 AM

Project: Former Pace

Lab ID: 1304102-003

Matrix: Soil

Client Sample ID: GP-30-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 4433

Analyst: BR

Diesel (Fuel Oil)	ND	20.9		mg/Kg-dry	1	4/15/2013 8:01:00 PM
Heavy Oil	ND	52.3		mg/Kg-dry	1	4/15/2013 8:01:00 PM
Surr: 2-Fluorobiphenyl	113	50-150		%REC	1	4/15/2013 8:01:00 PM
Surr: o-Terphenyl	115	50-150		%REC	1	4/15/2013 8:01:00 PM

Gasoline by NWTPH-Gx

Batch ID: R8178

Analyst: EM

Gasoline	ND	3.19		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Surr: 1,2-Dichloroethane-d4	98.0	65-135		%REC	1	4/16/2013 12:47:00 PM
Surr: Fluorobenzene	99.5	65-135		%REC	1	4/16/2013 12:47:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dichlorodifluoromethane (CFC-12)	ND	0.0383		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Chloromethane	ND	0.0383		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Vinyl chloride	ND	0.00128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Bromomethane	ND	0.0575		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Trichlorofluoromethane (CFC-11)	ND	0.0319		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Chloroethane	ND	0.0383		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,1-Dichloroethene	ND	0.0319		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Methylene chloride	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
trans-1,2-Dichloroethene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.0319		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,1-Dichloroethane	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
2,2-Dichloropropane	ND	0.0319		mg/Kg-dry	1	4/16/2013 12:47:00 PM
cis-1,2-Dichloroethene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Chloroform	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,1,1-Trichloroethane (TCA)	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,1-Dichloropropene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Carbon tetrachloride	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,2-Dichloroethane (EDC)	ND	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Benzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Trichloroethene (TCE)	ND	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,2-Dichloropropane	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Bromodichloromethane	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 10:50:00 AM

Project: Former Pace

Lab ID: 1304102-003

Matrix: Soil

Client Sample ID: GP-30-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260				Batch ID: 4436		Analyst: EM
Dibromomethane	ND	0.0255		mg/Kg-dry	1	4/16/2013 12:47:00 PM
cis-1,3-Dichloropropene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Toluene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
trans-1,3-Dichloropropylene	ND	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,1,2-Trichloroethane	ND	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,3-Dichloropropane	ND	0.0319		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Tetrachloroethene (PCE)	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Dibromochloromethane	ND	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,2-Dibromoethane (EDB)	ND	0.00319		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Chlorobenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Ethylbenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
m,p-Xylene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
o-Xylene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Styrene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Isopropylbenzene	ND	0.0511		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Bromoform	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
n-Propylbenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Bromobenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,3,5-Trimethylbenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
2-Chlorotoluene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
4-Chlorotoluene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
tert-Butylbenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,2,3-Trichloropropane	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,2,4-Trichlorobenzene	ND	0.0319		mg/Kg-dry	1	4/16/2013 12:47:00 PM
sec-Butylbenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
4-Isopropyltoluene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,3-Dichlorobenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,4-Dichlorobenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
n-Butylbenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,2-Dichlorobenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,2,4-Trimethylbenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Hexachlorobutadiene	ND	0.0639		mg/Kg-dry	1	4/16/2013 12:47:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 10:50:00 AM

Project: Former Pace

Lab ID: 1304102-003

Matrix: Soil

Client Sample ID: GP-30-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260</u>					Batch ID: 4436	Analyst: EM
Naphthalene	0.0195	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,2,3-Trichlorobenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Surr: Dibromofluoromethane	97.3	67.6-119		%REC	1	4/16/2013 12:47:00 PM
Surr: Toluene-d8	96.1	67-139		%REC	1	4/16/2013 12:47:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.5	63.1-141		%REC	1	4/16/2013 12:47:00 PM
<u>Sample Moisture (Percent Moisture)</u>					Batch ID: R8181	Analyst: JS
Percent Moisture	10.3			wt%	1	4/16/2013 2:19:23 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 11:00:00 AM

Project: Former Pace

Lab ID: 1304102-004

Matrix: Soil

Client Sample ID: GP-30-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 4433

Analyst: BR

Diesel (Fuel Oil)	38.1	26.6		mg/Kg-dry	1	4/15/2013 8:29:00 PM
Heavy Oil	78.2	66.6		mg/Kg-dry	1	4/15/2013 8:29:00 PM
Surr: 2-Fluorobiphenyl	117	50-150		%REC	1	4/15/2013 8:29:00 PM
Surr: o-Terphenyl	118	50-150		%REC	1	4/15/2013 8:29:00 PM

Gasoline by NWTPH-Gx

Batch ID: R8178

Analyst: EM

Gasoline	ND	6.02		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Surr: 1,2-Dichloroethane-d4	94.4	65-135		%REC	1	4/16/2013 1:16:00 PM
Surr: Fluorobenzene	99.1	65-135		%REC	1	4/16/2013 1:16:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dichlorodifluoromethane (CFC-12)	ND	0.0723		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Chloromethane	ND	0.0723		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Vinyl chloride	ND	0.00241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Bromomethane	ND	0.108		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Trichlorofluoromethane (CFC-11)	ND	0.0602		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Chloroethane	ND	0.0723		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,1-Dichloroethene	ND	0.0602		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Methylene chloride	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
trans-1,2-Dichloroethene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.0602		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,1-Dichloroethane	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
2,2-Dichloropropane	ND	0.0602		mg/Kg-dry	1	4/16/2013 1:16:00 PM
cis-1,2-Dichloroethene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Chloroform	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,1,1-Trichloroethane (TCA)	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,1-Dichloropropene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Carbon tetrachloride	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,2-Dichloroethane (EDC)	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Benzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Trichloroethene (TCE)	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,2-Dichloropropane	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Bromodichloromethane	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 11:00:00 AM

Project: Former Pace

Lab ID: 1304102-004

Matrix: Soil

Client Sample ID: GP-30-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0482		mg/Kg-dry	1	4/16/2013 1:16:00 PM
cis-1,3-Dichloropropene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Toluene	0.0331	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
trans-1,3-Dichloropropylene	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,1,2-Trichloroethane	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,3-Dichloropropane	ND	0.0602		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Tetrachloroethene (PCE)	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Dibromochloromethane	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,2-Dibromoethane (EDB)	ND	0.00602		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Chlorobenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Ethylbenzene	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
m,p-Xylene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
o-Xylene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Styrene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Isopropylbenzene	ND	0.0964		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Bromoform	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
n-Propylbenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Bromobenzene	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,3,5-Trimethylbenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
2-Chlorotoluene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
4-Chlorotoluene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
tert-Butylbenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,2,3-Trichloropropane	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,2,4-Trichlorobenzene	ND	0.0602		mg/Kg-dry	1	4/16/2013 1:16:00 PM
sec-Butylbenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
4-Isopropyltoluene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,3-Dichlorobenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,4-Dichlorobenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
n-Butylbenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,2-Dichlorobenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,2,4-Trimethylbenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Hexachlorobutadiene	ND	0.120		mg/Kg-dry	1	4/16/2013 1:16:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Client: PES Environmental, Inc.

Collection Date: 4/10/2013 11:00:00 AM

Project: Former Pace

Lab ID: 1304102-004

Matrix: Soil

Client Sample ID: GP-30-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Naphthalene	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,2,3-Trichlorobenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Surr: Dibromofluoromethane	99.7	67.6-119		%REC	1	4/16/2013 1:16:00 PM
Surr: Toluene-d8	97.9	67-139		%REC	1	4/16/2013 1:16:00 PM
Surr: 1-Bromo-4-fluorobenzene	97.8	63.1-141		%REC	1	4/16/2013 1:16:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R8181

Analyst: JS

Percent Moisture	31.7			wt%	1	4/16/2013 2:19:23 PM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013

Project: Former Pace

Lab ID: 1304102-005

Matrix: Soil

Client Sample ID: GP-28-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 4433

Analyst: BR

Diesel (Fuel Oil)	ND	19.5		mg/Kg-dry	1	4/15/2013 8:57:00 PM
Heavy Oil	ND	48.7		mg/Kg-dry	1	4/15/2013 8:57:00 PM
Surr: 2-Fluorobiphenyl	113	50-150		%REC	1	4/15/2013 8:57:00 PM
Surr: o-Terphenyl	116	50-150		%REC	1	4/15/2013 8:57:00 PM

Gasoline by NWTPH-Gx

Batch ID: R8178

Analyst: EM

Gasoline	ND	3.89		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Surr: 1,2-Dichloroethane-d4	98.6	65-135		%REC	1	4/16/2013 1:45:00 PM
Surr: Fluorobenzene	99.0	65-135		%REC	1	4/16/2013 1:45:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dichlorodifluoromethane (CFC-12)	ND	0.0467		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Chloromethane	ND	0.0467		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Vinyl chloride	ND	0.00156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Bromomethane	ND	0.0700		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Trichlorofluoromethane (CFC-11)	ND	0.0389		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Chloroethane	ND	0.0467		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,1-Dichloroethene	ND	0.0389		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Methylene chloride	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
trans-1,2-Dichloroethene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.0389		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,1-Dichloroethane	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
2,2-Dichloropropane	ND	0.0389		mg/Kg-dry	1	4/16/2013 1:45:00 PM
cis-1,2-Dichloroethene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Chloroform	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,1,1-Trichloroethane (TCA)	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,1-Dichloropropene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Carbon tetrachloride	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,2-Dichloroethane (EDC)	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Benzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Trichloroethene (TCE)	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,2-Dichloropropane	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Bromodichloromethane	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013

Project: Former Pace

Lab ID: 1304102-005

Matrix: Soil

Client Sample ID: GP-28-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0311		mg/Kg-dry	1	4/16/2013 1:45:00 PM
cis-1,3-Dichloropropene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Toluene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
trans-1,3-Dichloropropylene	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,1,2-Trichloroethane	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,3-Dichloropropane	ND	0.0389		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Tetrachloroethene (PCE)	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Dibromochloromethane	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,2-Dibromoethane (EDB)	ND	0.00389		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Chlorobenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Ethylbenzene	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
m,p-Xylene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
o-Xylene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Styrene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Isopropylbenzene	ND	0.0623		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Bromoform	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
n-Propylbenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Bromobenzene	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,3,5-Trimethylbenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
2-Chlorotoluene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
4-Chlorotoluene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
tert-Butylbenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,2,3-Trichloropropane	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,2,4-Trichlorobenzene	ND	0.0389		mg/Kg-dry	1	4/16/2013 1:45:00 PM
sec-Butylbenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
4-Isopropyltoluene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,3-Dichlorobenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,4-Dichlorobenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
n-Butylbenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,2-Dichlorobenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,2,4-Trimethylbenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Hexachlorobutadiene	ND	0.0778		mg/Kg-dry	1	4/16/2013 1:45:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013

Project: Former Pace

Lab ID: 1304102-005

Matrix: Soil

Client Sample ID: GP-28-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Naphthalene	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,2,3-Trichlorobenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Surr: Dibromofluoromethane	98.0	67.6-119		%REC	1	4/16/2013 1:45:00 PM
Surr: Toluene-d8	97.4	67-139		%REC	1	4/16/2013 1:45:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.3	63.1-141		%REC	1	4/16/2013 1:45:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R8181

Analyst: JS

Percent Moisture	12.7			wt%	1	4/16/2013 2:19:23 PM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013

Project: Former Pace

Lab ID: 1304102-006

Matrix: Soil

Client Sample ID: GP-28-14

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 4433

Analyst: BR

Diesel (Fuel Oil)	ND	19.8		mg/Kg-dry	1	4/15/2013 9:25:00 PM
Heavy Oil	ND	49.4		mg/Kg-dry	1	4/15/2013 9:25:00 PM
Surr: 2-Fluorobiphenyl	116	50-150		%REC	1	4/15/2013 9:25:00 PM
Surr: o-Terphenyl	120	50-150		%REC	1	4/15/2013 9:25:00 PM

Gasoline by NWTPH-Gx

Batch ID: R8178

Analyst: EM

Gasoline	ND	3.71		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Surr: 1,2-Dichloroethane-d4	101	65-135		%REC	1	4/16/2013 4:09:00 PM
Surr: Fluorobenzene	99.9	65-135		%REC	1	4/16/2013 4:09:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dichlorodifluoromethane (CFC-12)	ND	0.0445		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Chloromethane	ND	0.0445		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Vinyl chloride	ND	0.00148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Bromomethane	ND	0.0667		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Trichlorofluoromethane (CFC-11)	ND	0.0371		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Chloroethane	ND	0.0445		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,1-Dichloroethene	ND	0.0371		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Methylene chloride	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
trans-1,2-Dichloroethene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.0371		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,1-Dichloroethane	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
2,2-Dichloropropane	ND	0.0371		mg/Kg-dry	1	4/16/2013 4:09:00 PM
cis-1,2-Dichloroethene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Chloroform	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,1,1-Trichloroethane (TCA)	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,1-Dichloropropene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Carbon tetrachloride	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,2-Dichloroethane (EDC)	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Benzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Trichloroethene (TCE)	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,2-Dichloropropane	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Bromodichloromethane	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013

Project: Former Pace

Lab ID: 1304102-006

Matrix: Soil

Client Sample ID: GP-28-14

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0296		mg/Kg-dry	1	4/16/2013 4:09:00 PM
cis-1,3-Dichloropropene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Toluene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
trans-1,3-Dichloropropylene	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,1,2-Trichloroethane	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,3-Dichloropropane	ND	0.0371		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Tetrachloroethene (PCE)	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Dibromochloromethane	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,2-Dibromoethane (EDB)	ND	0.00371		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Chlorobenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Ethylbenzene	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
m,p-Xylene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
o-Xylene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Styrene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Isopropylbenzene	ND	0.0593		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Bromoform	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
n-Propylbenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Bromobenzene	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,3,5-Trimethylbenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
2-Chlorotoluene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
4-Chlorotoluene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
tert-Butylbenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,2,3-Trichloropropane	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,2,4-Trichlorobenzene	ND	0.0371		mg/Kg-dry	1	4/16/2013 4:09:00 PM
sec-Butylbenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
4-Isopropyltoluene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,3-Dichlorobenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,4-Dichlorobenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
n-Butylbenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,2-Dichlorobenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,2,4-Trimethylbenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Hexachlorobutadiene	ND	0.0741		mg/Kg-dry	1	4/16/2013 4:09:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013

Project: Former Pace

Lab ID: 1304102-006

Matrix: Soil

Client Sample ID: GP-28-14

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Naphthalene	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,2,3-Trichlorobenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Surr: Dibromofluoromethane	97.4	67.6-119		%REC	1	4/16/2013 4:09:00 PM
Surr: Toluene-d8	95.8	67-139		%REC	1	4/16/2013 4:09:00 PM
Surr: 1-Bromo-4-fluorobenzene	99.0	63.1-141		%REC	1	4/16/2013 4:09:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R8181

Analyst: JS

Percent Moisture	15.8			wt%	1	4/16/2013 2:19:23 PM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 1:00:00 PM

Project: Former Pace

Lab ID: 1304102-007

Matrix: Soil

Client Sample ID: GP-28-22

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 4433

Analyst: BR

Diesel (Fuel Oil)	ND	22.0		mg/Kg-dry	1	4/15/2013 9:53:00 PM
Heavy Oil	ND	55.1		mg/Kg-dry	1	4/15/2013 9:53:00 PM
Surr: 2-Fluorobiphenyl	111	50-150		%REC	1	4/15/2013 9:53:00 PM
Surr: o-Terphenyl	115	50-150		%REC	1	4/15/2013 9:53:00 PM

Gasoline by NWTPH-Gx

Batch ID: R8178

Analyst: EM

Gasoline	ND	2.81		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Surr: 1,2-Dichloroethane-d4	104	65-135		%REC	1	4/16/2013 4:38:00 PM
Surr: Fluorobenzene	101	65-135		%REC	1	4/16/2013 4:38:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dichlorodifluoromethane (CFC-12)	ND	0.0337		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Chloromethane	ND	0.0337		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Vinyl chloride	ND	0.00112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Bromomethane	ND	0.0506		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Trichlorofluoromethane (CFC-11)	ND	0.0281		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Chloroethane	ND	0.0337		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,1-Dichloroethene	ND	0.0281		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Methylene chloride	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
trans-1,2-Dichloroethene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.0281		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,1-Dichloroethane	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
2,2-Dichloropropane	ND	0.0281		mg/Kg-dry	1	4/16/2013 4:38:00 PM
cis-1,2-Dichloroethene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Chloroform	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,1,1-Trichloroethane (TCA)	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,1-Dichloropropene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Carbon tetrachloride	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,2-Dichloroethane (EDC)	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Benzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Trichloroethene (TCE)	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,2-Dichloropropane	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Bromodichloromethane	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 1:00:00 PM

Project: Former Pace

Lab ID: 1304102-007

Matrix: Soil

Client Sample ID: GP-28-22

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0225		mg/Kg-dry	1	4/16/2013 4:38:00 PM
cis-1,3-Dichloropropene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Toluene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
trans-1,3-Dichloropropylene	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,1,2-Trichloroethane	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,3-Dichloropropane	ND	0.0281		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Tetrachloroethene (PCE)	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Dibromochloromethane	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,2-Dibromoethane (EDB)	ND	0.00281		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Chlorobenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Ethylbenzene	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
m,p-Xylene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
o-Xylene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Styrene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Isopropylbenzene	ND	0.0450		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Bromoform	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
n-Propylbenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Bromobenzene	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,3,5-Trimethylbenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
2-Chlorotoluene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
4-Chlorotoluene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
tert-Butylbenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,2,3-Trichloropropane	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,2,4-Trichlorobenzene	ND	0.0281		mg/Kg-dry	1	4/16/2013 4:38:00 PM
sec-Butylbenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
4-Isopropyltoluene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,3-Dichlorobenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,4-Dichlorobenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
n-Butylbenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,2-Dichlorobenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,2,4-Trimethylbenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Hexachlorobutadiene	ND	0.0562		mg/Kg-dry	1	4/16/2013 4:38:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 1:00:00 PM

Project: Former Pace

Lab ID: 1304102-007

Matrix: Soil

Client Sample ID: GP-28-22

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Naphthalene	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,2,3-Trichlorobenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Surr: Dibromofluoromethane	96.0	67.6-119		%REC	1	4/16/2013 4:38:00 PM
Surr: Toluene-d8	95.4	67-139		%REC	1	4/16/2013 4:38:00 PM
Surr: 1-Bromo-4-fluorobenzene	99.2	63.1-141		%REC	1	4/16/2013 4:38:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R8181

Analyst: JS

Percent Moisture	19.2			wt%	1	4/16/2013 2:19:23 PM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013

Project: Former Pace

Lab ID: 1304102-008

Matrix: Soil

Client Sample ID: GP-32-20

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 4433

Analyst: BR

Diesel (Fuel Oil)	ND	19.4		mg/Kg-dry	1	4/15/2013 10:21:00 PM
Heavy Oil	ND	48.5		mg/Kg-dry	1	4/15/2013 10:21:00 PM
Surr: 2-Fluorobiphenyl	117	50-150		%REC	1	4/15/2013 10:21:00 PM
Surr: o-Terphenyl	121	50-150		%REC	1	4/15/2013 10:21:00 PM

Gasoline by NWTPH-Gx

Batch ID: R8178

Analyst: EM

Gasoline	ND	4.20		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Surr: 1,2-Dichloroethane-d4	106	65-135		%REC	1	4/16/2013 5:07:00 PM
Surr: Fluorobenzene	99.5	65-135		%REC	1	4/16/2013 5:07:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dichlorodifluoromethane (CFC-12)	ND	0.0504		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Chloromethane	ND	0.0504		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Vinyl chloride	ND	0.00168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Bromomethane	ND	0.0755		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Trichlorofluoromethane (CFC-11)	ND	0.0420		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Chloroethane	ND	0.0504		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,1-Dichloroethene	ND	0.0420		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Methylene chloride	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
trans-1,2-Dichloroethene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.0420		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,1-Dichloroethane	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
2,2-Dichloropropane	ND	0.0420		mg/Kg-dry	1	4/16/2013 5:07:00 PM
cis-1,2-Dichloroethene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Chloroform	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,1,1-Trichloroethane (TCA)	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,1-Dichloropropene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Carbon tetrachloride	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,2-Dichloroethane (EDC)	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Benzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Trichloroethene (TCE)	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,2-Dichloropropane	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Bromodichloromethane	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013

Project: Former Pace

Lab ID: 1304102-008

Matrix: Soil

Client Sample ID: GP-32-20

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0336		mg/Kg-dry	1	4/16/2013 5:07:00 PM
cis-1,3-Dichloropropene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Toluene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
trans-1,3-Dichloropropylene	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,1,2-Trichloroethane	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,3-Dichloropropane	ND	0.0420		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Tetrachloroethene (PCE)	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Dibromochloromethane	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,2-Dibromoethane (EDB)	ND	0.00420		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Chlorobenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Ethylbenzene	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
m,p-Xylene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
o-Xylene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Styrene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Isopropylbenzene	ND	0.0671		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Bromoform	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
n-Propylbenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Bromobenzene	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,3,5-Trimethylbenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
2-Chlorotoluene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
4-Chlorotoluene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
tert-Butylbenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,2,3-Trichloropropane	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,2,4-Trichlorobenzene	ND	0.0420		mg/Kg-dry	1	4/16/2013 5:07:00 PM
sec-Butylbenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
4-Isopropyltoluene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,3-Dichlorobenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,4-Dichlorobenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
n-Butylbenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,2-Dichlorobenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,2,4-Trimethylbenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Hexachlorobutadiene	ND	0.0839		mg/Kg-dry	1	4/16/2013 5:07:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013

Project: Former Pace

Lab ID: 1304102-008

Matrix: Soil

Client Sample ID: GP-32-20

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Naphthalene	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,2,3-Trichlorobenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Surr: Dibromofluoromethane	97.8	67.6-119		%REC	1	4/16/2013 5:07:00 PM
Surr: Toluene-d8	96.4	67-139		%REC	1	4/16/2013 5:07:00 PM
Surr: 1-Bromo-4-fluorobenzene	99.9	63.1-141		%REC	1	4/16/2013 5:07:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R8181

Analyst: JS

Percent Moisture	14.6			wt%	1	4/16/2013 2:19:23 PM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 10:20:00 AM

Project: Former Pace

Lab ID: 1304102-010

Matrix: Soil

Client Sample ID: GP-27-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 4433

Analyst: BR

Diesel (Fuel Oil)	ND	18.0		mg/Kg-dry	1	4/15/2013 10:49:00 PM
Heavy Oil	ND	44.9		mg/Kg-dry	1	4/15/2013 10:49:00 PM
Surr: 2-Fluorobiphenyl	117	50-150		%REC	1	4/15/2013 10:49:00 PM
Surr: o-Terphenyl	120	50-150		%REC	1	4/15/2013 10:49:00 PM

Gasoline by NWTPH-Gx

Batch ID: R8178

Analyst: EM

Gasoline	ND	4.81		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Surr: 1,2-Dichloroethane-d4	104	65-135		%REC	1	4/16/2013 5:36:00 PM
Surr: Fluorobenzene	100	65-135		%REC	1	4/16/2013 5:36:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dichlorodifluoromethane (CFC-12)	ND	0.0577		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Chloromethane	ND	0.0577		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Vinyl chloride	ND	0.00192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Bromomethane	ND	0.0865		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Trichlorofluoromethane (CFC-11)	ND	0.0481		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Chloroethane	ND	0.0577		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,1-Dichloroethene	ND	0.0481		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Methylene chloride	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
trans-1,2-Dichloroethene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.0481		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,1-Dichloroethane	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
2,2-Dichloropropane	ND	0.0481		mg/Kg-dry	1	4/16/2013 5:36:00 PM
cis-1,2-Dichloroethene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Chloroform	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,1,1-Trichloroethane (TCA)	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,1-Dichloropropene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Carbon tetrachloride	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,2-Dichloroethane (EDC)	ND	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Benzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Trichloroethene (TCE)	ND	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,2-Dichloropropane	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Bromodichloromethane	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 10:20:00 AM

Project: Former Pace

Lab ID: 1304102-010

Matrix: Soil

Client Sample ID: GP-27-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0385		mg/Kg-dry	1	4/16/2013 5:36:00 PM
cis-1,3-Dichloropropene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Toluene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
trans-1,3-Dichloropropylene	ND	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,1,2-Trichloroethane	ND	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,3-Dichloropropane	ND	0.0481		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Tetrachloroethene (PCE)	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Dibromochloromethane	ND	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,2-Dibromoethane (EDB)	ND	0.00481		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Chlorobenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Ethylbenzene	ND	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
m,p-Xylene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
o-Xylene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Styrene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Isopropylbenzene	ND	0.0769		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Bromoform	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
n-Propylbenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Bromobenzene	ND	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,3,5-Trimethylbenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
2-Chlorotoluene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
4-Chlorotoluene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
tert-Butylbenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,2,3-Trichloropropane	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,2,4-Trichlorobenzene	ND	0.0481		mg/Kg-dry	1	4/16/2013 5:36:00 PM
sec-Butylbenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
4-Isopropyltoluene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,3-Dichlorobenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,4-Dichlorobenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
n-Butylbenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,2-Dichlorobenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,2,4-Trimethylbenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Hexachlorobutadiene	ND	0.0961		mg/Kg-dry	1	4/16/2013 5:36:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 10:20:00 AM

Project: Former Pace

Lab ID: 1304102-010

Matrix: Soil

Client Sample ID: GP-27-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Naphthalene	0.0692	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,2,3-Trichlorobenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Surr: Dibromofluoromethane	96.8	67.6-119		%REC	1	4/16/2013 5:36:00 PM
Surr: Toluene-d8	97.1	67-139		%REC	1	4/16/2013 5:36:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.7	63.1-141		%REC	1	4/16/2013 5:36:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R8181

Analyst: JS

Percent Moisture	19.6			wt%	1	4/16/2013 2:19:23 PM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 10:50:00 AM

Project: Former Pace

Lab ID: 1304102-011

Matrix: Soil

Client Sample ID: GP-27-14.5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 4433

Analyst: BR

Diesel (Fuel Oil)	ND	20.2		mg/Kg-dry	1	4/15/2013 11:17:00 PM
Heavy Oil	78.7	50.5		mg/Kg-dry	1	4/15/2013 11:17:00 PM
Surr: 2-Fluorobiphenyl	115	50-150		%REC	1	4/15/2013 11:17:00 PM
Surr: o-Terphenyl	117	50-150		%REC	1	4/15/2013 11:17:00 PM

Gasoline by NWTPH-Gx

Batch ID: R8178

Analyst: EM

Gasoline	ND	4.99		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Surr: 1,2-Dichloroethane-d4	102	65-135		%REC	1	4/16/2013 6:05:00 PM
Surr: Fluorobenzene	102	65-135		%REC	1	4/16/2013 6:05:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dichlorodifluoromethane (CFC-12)	ND	0.0599		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Chloromethane	ND	0.0599		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Vinyl chloride	ND	0.00200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Bromomethane	ND	0.0899		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Trichlorofluoromethane (CFC-11)	ND	0.0499		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Chloroethane	ND	0.0599		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,1-Dichloroethene	ND	0.0499		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Methylene chloride	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
trans-1,2-Dichloroethene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.0499		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,1-Dichloroethane	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
2,2-Dichloropropane	ND	0.0499		mg/Kg-dry	1	4/16/2013 6:05:00 PM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Chloroform	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,1,1-Trichloroethane (TCA)	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,1-Dichloropropene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Carbon tetrachloride	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,2-Dichloroethane (EDC)	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Benzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Trichloroethene (TCE)	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,2-Dichloropropane	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Bromodichloromethane	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 10:50:00 AM

Project: Former Pace

Lab ID: 1304102-011

Matrix: Soil

Client Sample ID: GP-27-14.5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0399		mg/Kg-dry	1	4/16/2013 6:05:00 PM
cis-1,3-Dichloropropene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Toluene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
trans-1,3-Dichloropropylene	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,1,2-Trichloroethane	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,3-Dichloropropane	ND	0.0499		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Tetrachloroethene (PCE)	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Dibromochloromethane	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,2-Dibromoethane (EDB)	ND	0.00499		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Chlorobenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Ethylbenzene	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
m,p-Xylene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
o-Xylene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Styrene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Isopropylbenzene	ND	0.0799		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Bromoform	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,1,1,2,2-Tetrachloroethane	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
n-Propylbenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Bromobenzene	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,3,5-Trimethylbenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
2-Chlorotoluene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
4-Chlorotoluene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
tert-Butylbenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,2,3-Trichloropropane	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,2,4-Trichlorobenzene	ND	0.0499		mg/Kg-dry	1	4/16/2013 6:05:00 PM
sec-Butylbenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
4-Isopropyltoluene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,3-Dichlorobenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,4-Dichlorobenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
n-Butylbenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,2-Dichlorobenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,2,4-Trimethylbenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Hexachlorobutadiene	ND	0.0998		mg/Kg-dry	1	4/16/2013 6:05:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 10:50:00 AM

Project: Former Pace

Lab ID: 1304102-011

Matrix: Soil

Client Sample ID: GP-27-14.5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Naphthalene	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,2,3-Trichlorobenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Surr: Dibromofluoromethane	95.3	67.6-119		%REC	1	4/16/2013 6:05:00 PM
Surr: Toluene-d8	94.4	67-139		%REC	1	4/16/2013 6:05:00 PM
Surr: 1-Bromo-4-fluorobenzene	97.7	63.1-141		%REC	1	4/16/2013 6:05:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R8181

Analyst: JS

Percent Moisture	17.7			wt%	1	4/16/2013 2:19:23 PM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 11:20:00 AM

Project: Former Pace

Lab ID: 1304102-012

Matrix: Soil

Client Sample ID: GP-26-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 4433

Analyst: BR

Diesel (Fuel Oil)	ND	21.7		mg/Kg-dry	1	4/16/2013 12:41:00 AM
Heavy Oil	ND	54.2		mg/Kg-dry	1	4/16/2013 12:41:00 AM
Surr: 2-Fluorobiphenyl	112	50-150		%REC	1	4/16/2013 12:41:00 AM
Surr: o-Terphenyl	114	50-150		%REC	1	4/16/2013 12:41:00 AM

Gasoline by NWTPH-Gx

Batch ID: R8178

Analyst: EM

Gasoline	ND	3.82		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Surr: 1,2-Dichloroethane-d4	101	65-135		%REC	1	4/16/2013 6:34:00 PM
Surr: Fluorobenzene	100	65-135		%REC	1	4/16/2013 6:34:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dichlorodifluoromethane (CFC-12)	ND	0.0458		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Chloromethane	ND	0.0458		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Vinyl chloride	ND	0.00153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Bromomethane	ND	0.0687		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Trichlorofluoromethane (CFC-11)	ND	0.0382		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Chloroethane	ND	0.0458		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,1-Dichloroethene	ND	0.0382		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Methylene chloride	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
trans-1,2-Dichloroethene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.0382		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,1-Dichloroethane	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
2,2-Dichloropropane	ND	0.0382		mg/Kg-dry	1	4/16/2013 6:34:00 PM
cis-1,2-Dichloroethene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Chloroform	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,1,1-Trichloroethane (TCA)	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,1-Dichloropropene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Carbon tetrachloride	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,2-Dichloroethane (EDC)	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Benzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Trichloroethene (TCE)	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,2-Dichloropropane	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Bromodichloromethane	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 11:20:00 AM

Project: Former Pace

Lab ID: 1304102-012

Matrix: Soil

Client Sample ID: GP-26-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0306		mg/Kg-dry	1	4/16/2013 6:34:00 PM
cis-1,3-Dichloropropene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Toluene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
trans-1,3-Dichloropropylene	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,1,2-Trichloroethane	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,3-Dichloropropane	ND	0.0382		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Tetrachloroethene (PCE)	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Dibromochloromethane	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,2-Dibromoethane (EDB)	ND	0.00382		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Chlorobenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Ethylbenzene	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
m,p-Xylene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
o-Xylene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Styrene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Isopropylbenzene	ND	0.0611		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Bromoform	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
n-Propylbenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Bromobenzene	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,3,5-Trimethylbenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
2-Chlorotoluene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
4-Chlorotoluene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
tert-Butylbenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,2,3-Trichloropropane	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,2,4-Trichlorobenzene	ND	0.0382		mg/Kg-dry	1	4/16/2013 6:34:00 PM
sec-Butylbenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
4-Isopropyltoluene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,3-Dichlorobenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,4-Dichlorobenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
n-Butylbenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,2-Dichlorobenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,2,4-Trimethylbenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Hexachlorobutadiene	ND	0.0764		mg/Kg-dry	1	4/16/2013 6:34:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 11:20:00 AM

Project: Former Pace

Lab ID: 1304102-012

Matrix: Soil

Client Sample ID: GP-26-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260</u>				Batch ID: 4436		Analyst: EM
Naphthalene	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,2,3-Trichlorobenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Surr: Dibromofluoromethane	96.1	67.6-119		%REC	1	4/16/2013 6:34:00 PM
Surr: Toluene-d8	96.2	67-139		%REC	1	4/16/2013 6:34:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.7	63.1-141		%REC	1	4/16/2013 6:34:00 PM
<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R8181		Analyst: JS
Percent Moisture	14.9			wt%	1	4/16/2013 2:19:23 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 11:30:00 AM

Project: Former Pace

Lab ID: 1304102-013

Matrix: Soil

Client Sample ID: GP-26-6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 4433

Analyst: BR

Diesel (Fuel Oil)	ND	23.5		mg/Kg-dry	1	4/16/2013 1:37:00 AM
Heavy Oil	ND	58.7		mg/Kg-dry	1	4/16/2013 1:37:00 AM
Surr: 2-Fluorobiphenyl	115	50-150		%REC	1	4/16/2013 1:37:00 AM
Surr: o-Terphenyl	118	50-150		%REC	1	4/16/2013 1:37:00 AM

Gasoline by NWTPH-Gx

Batch ID: R8178

Analyst: EM

Gasoline	ND	4.61		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Surr: 1,2-Dichloroethane-d4	96.9	65-135		%REC	1	4/16/2013 7:07:00 PM
Surr: Fluorobenzene	101	65-135		%REC	1	4/16/2013 7:07:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dichlorodifluoromethane (CFC-12)	ND	0.0553		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Chloromethane	ND	0.0553		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Vinyl chloride	ND	0.00184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Bromomethane	ND	0.0830		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Trichlorofluoromethane (CFC-11)	ND	0.0461		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Chloroethane	ND	0.0553		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,1-Dichloroethene	ND	0.0461		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Methylene chloride	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
trans-1,2-Dichloroethene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.0461		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,1-Dichloroethane	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
2,2-Dichloropropane	ND	0.0461		mg/Kg-dry	1	4/16/2013 7:07:00 PM
cis-1,2-Dichloroethene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Chloroform	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,1,1-Trichloroethane (TCA)	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,1-Dichloropropene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Carbon tetrachloride	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,2-Dichloroethane (EDC)	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Benzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Trichloroethene (TCE)	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,2-Dichloropropane	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Bromodichloromethane	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 11:30:00 AM

Project: Former Pace

Lab ID: 1304102-013

Matrix: Soil

Client Sample ID: GP-26-6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0369		mg/Kg-dry	1	4/16/2013 7:07:00 PM
cis-1,3-Dichloropropene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Toluene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
trans-1,3-Dichloropropylene	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,1,2-Trichloroethane	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,3-Dichloropropane	ND	0.0461		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Tetrachloroethene (PCE)	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Dibromochloromethane	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,2-Dibromoethane (EDB)	ND	0.00461		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Chlorobenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Ethylbenzene	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
m,p-Xylene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
o-Xylene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Styrene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Isopropylbenzene	ND	0.0738		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Bromoform	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
n-Propylbenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Bromobenzene	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,3,5-Trimethylbenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
2-Chlorotoluene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
4-Chlorotoluene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
tert-Butylbenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,2,3-Trichloropropane	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,2,4-Trichlorobenzene	ND	0.0461		mg/Kg-dry	1	4/16/2013 7:07:00 PM
sec-Butylbenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
4-Isopropyltoluene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,3-Dichlorobenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,4-Dichlorobenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
n-Butylbenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,2-Dichlorobenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,2,4-Trimethylbenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Hexachlorobutadiene	ND	0.0922		mg/Kg-dry	1	4/16/2013 7:07:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 11:30:00 AM

Project: Former Pace

Lab ID: 1304102-013

Matrix: Soil

Client Sample ID: GP-26-6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Naphthalene	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,2,3-Trichlorobenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Surr: Dibromofluoromethane	96.9	67.6-119		%REC	1	4/16/2013 7:07:00 PM
Surr: Toluene-d8	94.9	67-139		%REC	1	4/16/2013 7:07:00 PM
Surr: 1-Bromo-4-fluorobenzene	99.0	63.1-141		%REC	1	4/16/2013 7:07:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R8181

Analyst: JS

Percent Moisture	30.3			wt%	1	4/16/2013 2:19:23 PM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 12:10:00 PM

Project: Former Pace

Lab ID: 1304102-015

Matrix: Soil

Client Sample ID: GP-29-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 4433

Analyst: BR

Diesel (Fuel Oil)	ND	19.9		mg/Kg-dry	1	4/16/2013 2:05:00 AM
Heavy Oil	ND	49.8		mg/Kg-dry	1	4/16/2013 2:05:00 AM
Surr: 2-Fluorobiphenyl	114	50-150		%REC	1	4/16/2013 2:05:00 AM
Surr: o-Terphenyl	119	50-150		%REC	1	4/16/2013 2:05:00 AM

Gasoline by NWTPH-Gx

Batch ID: R8178

Analyst: EM

Gasoline	ND	2.92		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Surr: 1,2-Dichloroethane-d4	101	65-135		%REC	1	4/16/2013 7:36:00 PM
Surr: Fluorobenzene	100	65-135		%REC	1	4/16/2013 7:36:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dichlorodifluoromethane (CFC-12)	ND	0.0350		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Chloromethane	ND	0.0350		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Vinyl chloride	ND	0.00117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Bromomethane	ND	0.0525		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Trichlorofluoromethane (CFC-11)	ND	0.0292		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Chloroethane	ND	0.0350		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,1-Dichloroethene	ND	0.0292		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Methylene chloride	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
trans-1,2-Dichloroethene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.0292		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,1-Dichloroethane	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
2,2-Dichloropropane	ND	0.0292		mg/Kg-dry	1	4/16/2013 7:36:00 PM
cis-1,2-Dichloroethene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Chloroform	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,1,1-Trichloroethane (TCA)	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,1-Dichloropropene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Carbon tetrachloride	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,2-Dichloroethane (EDC)	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Benzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Trichloroethene (TCE)	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,2-Dichloropropane	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Bromodichloromethane	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 12:10:00 PM

Project: Former Pace

Lab ID: 1304102-015

Matrix: Soil

Client Sample ID: GP-29-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0233		mg/Kg-dry	1	4/16/2013 7:36:00 PM
cis-1,3-Dichloropropene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Toluene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
trans-1,3-Dichloropropylene	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,1,2-Trichloroethane	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,3-Dichloropropane	ND	0.0292		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Tetrachloroethene (PCE)	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Dibromochloromethane	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,2-Dibromoethane (EDB)	ND	0.00292		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Chlorobenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Ethylbenzene	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
m,p-Xylene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
o-Xylene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Styrene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Isopropylbenzene	ND	0.0467		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Bromoform	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
n-Propylbenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Bromobenzene	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,3,5-Trimethylbenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
2-Chlorotoluene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
4-Chlorotoluene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
tert-Butylbenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,2,3-Trichloropropane	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,2,4-Trichlorobenzene	ND	0.0292		mg/Kg-dry	1	4/16/2013 7:36:00 PM
sec-Butylbenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
4-Isopropyltoluene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,3-Dichlorobenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,4-Dichlorobenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
n-Butylbenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,2-Dichlorobenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,2,4-Trimethylbenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Hexachlorobutadiene	ND	0.0584		mg/Kg-dry	1	4/16/2013 7:36:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Client: PES Environmental, Inc.

Collection Date: 4/11/2013 12:10:00 PM

Project: Former Pace

Lab ID: 1304102-015

Matrix: Soil

Client Sample ID: GP-29-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Naphthalene	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,2,3-Trichlorobenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Surr: Dibromofluoromethane	96.1	67.6-119		%REC	1	4/16/2013 7:36:00 PM
Surr: Toluene-d8	95.7	67-139		%REC	1	4/16/2013 7:36:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.6	63.1-141		%REC	1	4/16/2013 7:36:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R8181

Analyst: JS

Percent Moisture	8.58			wt%	1	4/16/2013 2:19:23 PM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 12:30:00 PM

Project: Former Pace

Lab ID: 1304102-016

Matrix: Soil

Client Sample ID: GP-29-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Batch ID: 4433

Analyst: BR

Diesel (Fuel Oil)	ND	19.5		mg/Kg-dry	1	4/16/2013 2:32:00 AM
Heavy Oil	ND	48.7		mg/Kg-dry	1	4/16/2013 2:32:00 AM
Surr: 2-Fluorobiphenyl	114	50-150		%REC	1	4/16/2013 2:32:00 AM
Surr: o-Terphenyl	119	50-150		%REC	1	4/16/2013 2:32:00 AM

Gasoline by NWTPH-Gx

Batch ID: R8178

Analyst: EM

Gasoline	ND	3.95		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Surr: 1,2-Dichloroethane-d4	109	65-135		%REC	1	4/16/2013 8:05:00 PM
Surr: Fluorobenzene	101	65-135		%REC	1	4/16/2013 8:05:00 PM

Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dichlorodifluoromethane (CFC-12)	ND	0.0474		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Chloromethane	ND	0.0474		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Vinyl chloride	ND	0.00158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Bromomethane	ND	0.0711		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Trichlorofluoromethane (CFC-11)	ND	0.0395		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Chloroethane	ND	0.0474		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,1-Dichloroethene	ND	0.0395		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Methylene chloride	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
trans-1,2-Dichloroethene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Methyl tert-butyl ether (MTBE)	ND	0.0395		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,1-Dichloroethane	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
2,2-Dichloropropane	ND	0.0395		mg/Kg-dry	1	4/16/2013 8:05:00 PM
cis-1,2-Dichloroethene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Chloroform	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,1,1-Trichloroethane (TCA)	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,1-Dichloropropene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Carbon tetrachloride	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,2-Dichloroethane (EDC)	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Benzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Trichloroethene (TCE)	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,2-Dichloropropane	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Bromodichloromethane	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 12:30:00 PM

Project: Former Pace

Lab ID: 1304102-016

Matrix: Soil

Client Sample ID: GP-29-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0316		mg/Kg-dry	1	4/16/2013 8:05:00 PM
cis-1,3-Dichloropropene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Toluene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
trans-1,3-Dichloropropylene	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,1,2-Trichloroethane	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,3-Dichloropropane	ND	0.0395		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Tetrachloroethene (PCE)	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Dibromochloromethane	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,2-Dibromoethane (EDB)	ND	0.00395		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Chlorobenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Ethylbenzene	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
m,p-Xylene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
o-Xylene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Styrene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Isopropylbenzene	ND	0.0632		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Bromoform	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
n-Propylbenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Bromobenzene	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,3,5-Trimethylbenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
2-Chlorotoluene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
4-Chlorotoluene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
tert-Butylbenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,2,3-Trichloropropane	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,2,4-Trichlorobenzene	ND	0.0395		mg/Kg-dry	1	4/16/2013 8:05:00 PM
sec-Butylbenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
4-Isopropyltoluene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,3-Dichlorobenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,4-Dichlorobenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
n-Butylbenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,2-Dichlorobenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,2,4-Trimethylbenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Hexachlorobutadiene	ND	0.0790		mg/Kg-dry	1	4/16/2013 8:05:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 12:30:00 PM

Project: Former Pace

Lab ID: 1304102-016

Matrix: Soil

Client Sample ID: GP-29-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Naphthalene	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,2,3-Trichlorobenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Surr: Dibromofluoromethane	99.3	67.6-119		%REC	1	4/16/2013 8:05:00 PM
Surr: Toluene-d8	97.0	67-139		%REC	1	4/16/2013 8:05:00 PM
Surr: 1-Bromo-4-fluorobenzene	99.8	63.1-141		%REC	1	4/16/2013 8:05:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R8181

Analyst: JS

Percent Moisture	16.1			wt%	1	4/16/2013 2:19:23 PM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 4:30:00 PM

Project: Former Pace

Lab ID: 1304102-018

Matrix: Soil

Client Sample ID: Soil Comp

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Metals by EPA Method 6020

Batch ID: 4438

Analyst: MC

Arsenic	3.62	0.0864		mg/Kg-dry	1	4/16/2013 7:06:43 AM
Barium	49.6	0.432		mg/Kg-dry	1	4/16/2013 7:06:43 AM
Cadmium	ND	0.173		mg/Kg-dry	1	4/16/2013 7:06:43 AM
Chromium	34.6	0.0864		mg/Kg-dry	1	4/16/2013 7:06:43 AM
Lead	6.86	0.173		mg/Kg-dry	1	4/16/2013 7:06:43 AM
Selenium	ND	0.432		mg/Kg-dry	1	4/16/2013 7:06:43 AM
Silver	ND	0.0864		mg/Kg-dry	1	4/16/2013 7:06:43 AM

Mercury by EPA Method 7471

Batch ID: 4443

Analyst: SG

Mercury	ND	0.254		mg/Kg-dry	1	4/16/2013 2:34:54 PM
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Sample Moisture (Percent Moisture)

Batch ID: R8181

Analyst: JS

Percent Moisture	8.89			wt%	1	4/16/2013 2:19:23 PM
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Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Work Order: 1304102
CLIENT: PES Environmental, Inc.
Project: Former Pace

QC SUMMARY REPORT
Total Metals by EPA Method 6020

Sample ID: MB-4438	SampType: MBLK	Units: mg/Kg	Prep Date: 4/15/2013	RunNo: 8154							
Client ID: MBLKS	Batch ID: 4438	Analysis Date: 4/16/2013	SeqNo: 162599								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.100									
Barium	ND	0.500									
Cadmium	ND	0.200									
Chromium	ND	0.100									
Lead	ND	0.200									
Selenium	ND	0.500									
Silver	ND	0.100									

Sample ID: LCS-4438	SampType: LCS	Units: mg/Kg	Prep Date: 4/15/2013	RunNo: 8154							
Client ID: LCSS	Batch ID: 4438	Analysis Date: 4/16/2013	SeqNo: 162600								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	116	0.100	102.0	0	114	83.4	116				
Barium	891	0.500	795.0	0	112	84.1	116				
Cadmium	86.6	0.200	86.30	0	100	81.2	116				
Chromium	217	0.100	208.0	0	105	86.5	118				
Lead	73.4	0.200	71.80	0	102	84.3	116				
Selenium	192	0.500	165.0	0	116	78.8	121				
Silver	34.8	0.100	31.30	0	111	79.9	120				

Sample ID: 1304108-001ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 4/15/2013	RunNo: 8154							
Client ID: BATCH	Batch ID: 4438	Analysis Date: 4/16/2013	SeqNo: 162602								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	27.0	0.0892						31.52	15.3	30	
Barium	122	0.446						104.5	15.6	30	
Cadmium	0.212	0.178						0.1812	15.6	30	
Chromium	45.0	0.0892						39.68	12.5	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 4/18/2013

Work Order: 1304102
CLIENT: PES Environmental, Inc.
Project: Former Pace

QC SUMMARY REPORT
Total Metals by EPA Method 6020

Sample ID: 1304108-001ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 4/15/2013	RunNo: 8154							
Client ID: BATCH	Batch ID: 4438		Analysis Date: 4/16/2013	SeqNo: 162602							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	34.8	0.178						32.80	6.07	30	
Selenium	ND	0.446						0	0	30	R
Silver	0.137	0.0892						0.1108	21.3	30	

Sample ID: 1304108-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/15/2013	RunNo: 8154							
Client ID: BATCH	Batch ID: 4438		Analysis Date: 4/16/2013	SeqNo: 162604							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	81.3	0.0921	46.04	31.52	108	75	125				
Barium	153	0.460	46.04	104.5	105	75	125				
Cadmium	2.57	0.184	2.302	0.1812	104	75	125				
Chromium	81.0	0.0921	46.04	39.68	89.7	75	125				
Lead	56.3	0.184	23.02	32.80	102	75	125				
Selenium	5.66	0.460	4.604	0.07911	121	75	125				
Silver	12.9	0.0921	11.51	0.1108	111	75	125				

Sample ID: 1304108-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/15/2013	RunNo: 8154							
Client ID: BATCH	Batch ID: 4438		Analysis Date: 4/16/2013	SeqNo: 162605							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	79.0	0.0906	45.31	31.52	105	75	125	81.28	2.83	30	
Barium	143	0.453	45.31	104.5	85.5	75	125	152.8	6.46	30	
Cadmium	2.71	0.181	2.265	0.1812	112	75	125	2.569	5.22	30	
Chromium	90.9	0.0906	45.31	39.68	113	75	125	80.97	11.5	30	
Lead	58.7	0.181	22.65	32.80	114	75	125	56.35	4.11	30	
Selenium	5.45	0.453	4.531	0.07911	118	75	125	5.664	3.91	30	
Silver	12.9	0.0906	11.33	0.1108	113	75	125	12.93	0.556	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Work Order: 1304102
CLIENT: PES Environmental, Inc.
Project: Former Pace

QC SUMMARY REPORT
Total Metals by EPA Method 6020

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1304102
CLIENT: PES Environmental, Inc.
Project: Former Pace

QC SUMMARY REPORT
Mercury by EPA Method 7471

Sample ID: MB-4443	SampType: MBLK	Units: mg/Kg	Prep Date: 4/16/2013	RunNo: 8165							
Client ID: MBLKS	Batch ID: 4443	Analysis Date: 4/16/2013	SeqNo: 162718								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.250

Sample ID: LCS-4443	SampType: LCS	Units: mg/Kg	Prep Date: 4/16/2013	RunNo: 8165							
Client ID: LCSS	Batch ID: 4443	Analysis Date: 4/16/2013	SeqNo: 162719								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.583 0.250 0.5000 0 117 80 120

Sample ID: 1304084-001BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/16/2013	RunNo: 8165							
Client ID: BATCH	Batch ID: 4443	Analysis Date: 4/16/2013	SeqNo: 162721								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.763 0.307 0.6137 0.1893 93.6 70 130

Sample ID: 1304084-001BMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 4/16/2013	RunNo: 8165							
Client ID: BATCH	Batch ID: 4443	Analysis Date: 4/16/2013	SeqNo: 162722								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.733 0.301 0.6029 0.1893 90.2 70 130 0.7634 4.05 20

Sample ID: 1304084-002BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 4/16/2013	RunNo: 8165							
Client ID: BATCH	Batch ID: 4443	Analysis Date: 4/16/2013	SeqNo: 162724								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.309 0 0 20

Qualifiers: B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
D Dilution was required
J Analyte detected below quantitation limits
RL Reporting Limit
E Value above quantitation range
ND Not detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Work Order: 1304102
CLIENT: PES Environmental, Inc.
Project: Former Pace

QC SUMMARY REPORT
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: 1304102-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 4/15/2013	RunNo: 8185							
Client ID: GP-31-5	Batch ID: 4433	Analysis Date: 4/15/2013	SeqNo: 163084								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	ND	18.4						0	0	30	
Heavy Oil	ND	46.1						0	0	30	
Surr: 2-Fluorobiphenyl	21.6		18.43		117	50	150		0		
Surr: o-Terphenyl	22.1		18.43		120	50	150		0		

Sample ID: LCS-4433	SampType: LCS	Units: mg/Kg	Prep Date: 4/15/2013	RunNo: 8185							
Client ID: LCSS	Batch ID: 4433	Analysis Date: 4/15/2013	SeqNo: 163095								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	588	20.0	500.0	0	118	65	135				
Surr: 2-Fluorobiphenyl	24.5		20.00		122	50	150				
Surr: o-Terphenyl	24.8		20.00		124	50	150				

Sample ID: MB-4433	SampType: MBLK	Units: mg/Kg	Prep Date: 4/15/2013	RunNo: 8185							
Client ID: MBLKS	Batch ID: 4433	Analysis Date: 4/15/2013	SeqNo: 163096								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	ND	20.0									
Heavy Oil	ND	50.0									
Surr: 2-Fluorobiphenyl	22.4		20.00		112	50	150				
Surr: o-Terphenyl	23.0		20.00		115	50	150				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1304102
CLIENT: PES Environmental, Inc.
Project: Former Pace

QC SUMMARY REPORT
Gasoline by NWTPH-Gx

Sample ID: LCS-R8178	SampType: LCS	Units: mg/Kg	Prep Date: 4/15/2013	RunNo: 8178							
Client ID: LCSS	Batch ID: R8178		Analysis Date: 4/16/2013	SeqNo: 162940							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	25.3	5.00	25.00	0	101	65	135				
Surr: 1,2-Dichloroethane-d4	0.502		0.5000		100	65	135				
Surr: Fluorobenzene	0.499		0.5000		99.8	65	135				

Sample ID: MB-R8178	SampType: MBLK	Units: mg/Kg	Prep Date: 4/15/2013	RunNo: 8178							
Client ID: MBLKS	Batch ID: R8178		Analysis Date: 4/16/2013	SeqNo: 162941							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: 1,2-Dichloroethane-d4	0.478		0.5000		95.6	65	135				
Surr: Fluorobenzene	0.488		0.5000		97.6	65	135				

Sample ID: 1304102-005ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 4/15/2013	RunNo: 8178							
Client ID: GP-28-3	Batch ID: R8178		Analysis Date: 4/16/2013	SeqNo: 162953							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	3.89						0	0	30	
Surr: 1,2-Dichloroethane-d4	0.372		0.3892		95.7	65	135		0		
Surr: Fluorobenzene	0.387		0.3892		99.4	65	135		0		

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1304102
CLIENT: PES Environmental, Inc.
Project: Former Pace

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1304102-005ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 4/15/2013	RunNo: 8176							
Client ID: GP-28-3	Batch ID: 4436		Analysis Date: 4/16/2013	SeqNo: 162889							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	ND	0.0467						0	0	30	
Chloromethane	ND	0.0467						0	0	30	
Vinyl chloride	ND	0.00156						0	0	30	
Bromomethane	ND	0.0700						0	0	30	
Trichlorofluoromethane (CFC-11)	ND	0.0389						0	0	30	
Chloroethane	ND	0.0467						0	0	30	
1,1-Dichloroethene	ND	0.0389						0	0	30	
Methylene chloride	ND	0.0156						0	0	30	
trans-1,2-Dichloroethene	ND	0.0156						0	0	30	
Methyl tert-butyl ether (MTBE)	ND	0.0389						0	0	30	
1,1-Dichloroethane	ND	0.0156						0	0	30	
2,2-Dichloropropane	ND	0.0389						0	0	30	
cis-1,2-Dichloroethene	ND	0.0156						0	0	30	
Chloroform	ND	0.0156						0	0	30	
1,1,1-Trichloroethane (TCA)	ND	0.0156						0	0	30	
1,1-Dichloropropene	ND	0.0156						0	0	30	
Carbon tetrachloride	ND	0.0156						0	0	30	
1,2-Dichloroethane (EDC)	ND	0.0233						0	0	30	
Benzene	ND	0.0156						0	0	30	
Trichloroethene (TCE)	ND	0.0233						0	0	30	
1,2-Dichloropropane	ND	0.0156						0	0	30	
Bromodichloromethane	ND	0.0156						0	0	30	
Dibromomethane	ND	0.0311						0	0	30	
cis-1,3-Dichloropropene	ND	0.0156						0	0	30	
Toluene	ND	0.0156						0	0	30	
trans-1,3-Dichloropropylene	ND	0.0233						0	0	30	
1,1,2-Trichloroethane	ND	0.0233						0	0	30	
1,3-Dichloropropane	ND	0.0389						0	0	30	
Tetrachloroethene (PCE)	ND	0.0156						0	0	30	

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1304102
CLIENT: PES Environmental, Inc.
Project: Former Pace

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1304102-005ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 4/15/2013	RunNo: 8176							
Client ID: GP-28-3	Batch ID: 4436		Analysis Date: 4/16/2013	SeqNo: 162889							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	0.0233						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.00389						0	0	30	
Chlorobenzene	ND	0.0156						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.0233						0	0	30	
Ethylbenzene	ND	0.0233						0	0	30	
m,p-Xylene	ND	0.0156						0	0	30	
o-Xylene	ND	0.0156						0	0	30	
Styrene	ND	0.0156						0	0	30	
Isopropylbenzene	ND	0.0623						0	0	30	
Bromoform	ND	0.0156						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.0156						0	0	30	
n-Propylbenzene	ND	0.0156						0	0	30	
Bromobenzene	ND	0.0233						0	0	30	
1,3,5-Trimethylbenzene	ND	0.0156						0	0	30	
2-Chlorotoluene	ND	0.0156						0	0	30	
4-Chlorotoluene	ND	0.0156						0	0	30	
tert-Butylbenzene	ND	0.0156						0	0	30	
1,2,3-Trichloropropane	ND	0.0156						0	0	30	
1,2,4-Trichlorobenzene	ND	0.0389						0	0	30	
sec-Butylbenzene	ND	0.0156						0	0	30	
4-Isopropyltoluene	ND	0.0156						0	0	30	
1,3-Dichlorobenzene	ND	0.0156						0	0	30	
1,4-Dichlorobenzene	ND	0.0156						0	0	30	
n-Butylbenzene	ND	0.0156						0	0	30	
1,2-Dichlorobenzene	ND	0.0156						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.0233						0	0	30	
1,2,4-Trimethylbenzene	ND	0.0156						0	0	30	
Hexachlorobutadiene	ND	0.0778						0	0	30	
Naphthalene	ND	0.0233						0	0	30	

Qualifiers: B Analyte detected in the associated Method Blank D Dilution was required E Value above quantitation range
H Holding times for preparation or analysis exceeded J Analyte detected below quantitation limits ND Not detected at the Reporting Limit
R RPD outside accepted recovery limits RL Reporting Limit S Spike recovery outside accepted recovery limits

Work Order: 1304102
CLIENT: PES Environmental, Inc.
Project: Former Pace

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1304102-005ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 4/15/2013	RunNo: 8176							
Client ID: GP-28-3	Batch ID: 4436		Analysis Date: 4/16/2013	SeqNo: 162889							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,3-Trichlorobenzene	ND	0.0156						0	0	30	
Surr: Dibromofluoromethane	1.90		1.946		97.5	67.6	119		0		
Surr: Toluene-d8	1.88		1.946		96.8	67	139		0		
Surr: 1-Bromo-4-fluorobenzene	1.92		1.946		98.4	63.1	141		0		

Sample ID: 1304094-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/15/2013	RunNo: 8176							
Client ID: BATCH	Batch ID: 4436		Analysis Date: 4/16/2013	SeqNo: 162894							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	1.51	0.0921	1.536	0	98.0	43.5	121				
Chloromethane	1.43	0.0921	1.536	0	93.3	45	130				
Vinyl chloride	1.64	0.00307	1.536	0	106	51.2	146				
Bromomethane	1.75	0.138	1.536	0	114	21.3	120				
Trichlorofluoromethane (CFC-11)	1.63	0.0768	1.536	0	106	35	131				
Chloroethane	1.73	0.0921	1.536	0	113	43.8	117				
1,1-Dichloroethene	1.61	0.0768	1.536	0	105	61.9	141				
Methylene chloride	1.45	0.0307	1.536	0	94.4	54.7	142				
trans-1,2-Dichloroethene	1.55	0.0307	1.536	0	101	52	136				
Methyl tert-butyl ether (MTBE)	1.53	0.0768	1.536	0	99.8	54.4	132				
1,1-Dichloroethane	1.57	0.0307	1.536	0	102	51.8	141				
2,2-Dichloropropane	1.39	0.0768	1.536	0	90.3	36	123				
cis-1,2-Dichloroethene	1.56	0.0307	1.536	0	102	58.6	136				
Chloroform	1.54	0.0307	1.536	0	100	53.2	129				
1,1,1-Trichloroethane (TCA)	1.57	0.0307	1.536	0	102	58.3	145				
1,1-Dichloropropene	1.58	0.0307	1.536	0	103	55.1	138				
Carbon tetrachloride	1.55	0.0307	1.536	0	101	53.3	144				
1,2-Dichloroethane (EDC)	1.56	0.0461	1.536	0	101	51.3	139				
Benzene	1.59	0.0307	1.536	0	103	63.5	133				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1304102
 CLIENT: PES Environmental, Inc.
 Project: Former Pace

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1304094-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/15/2013	RunNo: 8176							
Client ID: BATCH	Batch ID: 4436		Analysis Date: 4/16/2013	SeqNo: 162894							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	1.58	0.0461	1.536	0	103	68.6	132				
1,2-Dichloropropane	1.56	0.0307	1.536	0	102	59	136				
Bromodichloromethane	1.53	0.0307	1.536	0	99.9	50.7	141				
Dibromomethane	1.56	0.0614	1.536	0	102	50.6	137				
cis-1,3-Dichloropropene	1.50	0.0307	1.536	0	97.7	50.4	138				
Toluene	1.58	0.0307	1.536	0	103	67.8	129				
trans-1,3-Dichloropropylene	1.50	0.0461	1.536	0	97.8	44.1	147				
1,1,2-Trichloroethane	1.50	0.0461	1.536	0	97.5	51.6	137				
1,3-Dichloropropane	1.53	0.0768	1.536	0	99.9	53.1	134				
Tetrachloroethene (PCE)	2.19	0.0307	1.536	0	142	35.6	158				
Dibromochloromethane	1.54	0.0461	1.536	0	100	55.3	140				
1,2-Dibromoethane (EDB)	1.53	0.00768	1.536	0	99.8	50.4	136				
Chlorobenzene	1.56	0.0307	1.536	0	102	60	133				
1,1,1,2-Tetrachloroethane	1.57	0.0461	1.536	0	102	53.1	142				
Ethylbenzene	1.58	0.0461	1.536	0	103	54.5	134				
m,p-Xylene	3.23	0.0307	3.071	0	105	53.1	132				
o-Xylene	1.59	0.0307	1.536	0	103	53.3	139				
Styrene	1.57	0.0307	1.536	0	102	51.1	132				
Isopropylbenzene	1.60	0.123	1.536	0	104	58.9	138				
Bromoform	1.47	0.0307	1.536	0	95.5	57.9	130				
1,1,2,2-Tetrachloroethane	1.51	0.0307	1.536	0	98.4	51.9	131				
n-Propylbenzene	1.60	0.0307	1.536	0	104	53.6	140				
Bromobenzene	1.53	0.0461	1.536	0	99.8	54.2	140				
1,3,5-Trimethylbenzene	1.56	0.0307	1.536	0	102	51.8	136				
2-Chlorotoluene	1.57	0.0307	1.536	0	102	51.6	136				
4-Chlorotoluene	1.57	0.0307	1.536	0	103	50.1	139				
tert-Butylbenzene	1.43	0.0307	1.536	0	93.2	50.5	135				
1,2,3-Trichloropropane	1.55	0.0307	1.536	0	101	50.5	131				
1,2,4-Trichlorobenzene	1.50	0.0768	1.536	0	97.6	50.8	130				

Qualifiers:	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

Work Order: 1304102
 CLIENT: PES Environmental, Inc.
 Project: Former Pace

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1304094-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/15/2013	RunNo: 8176							
Client ID: BATCH	Batch ID: 4436		Analysis Date: 4/16/2013	SeqNo: 162894							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

sec-Butylbenzene	1.58	0.0307	1.536	0	103	52.6	141				
4-Isopropyltoluene	1.57	0.0307	1.536	0	102	52.9	134				
1,3-Dichlorobenzene	1.55	0.0307	1.536	0	101	52.6	131				
1,4-Dichlorobenzene	1.55	0.0307	1.536	0	101	52.9	129				
n-Butylbenzene	1.55	0.0307	1.536	0	101	52.6	130				
1,2-Dichlorobenzene	1.56	0.0307	1.536	0	102	55.8	129				
1,2-Dibromo-3-chloropropane	1.51	0.0461	1.536	0	98.1	40.5	131				
1,2,4-Trimethylbenzene	1.57	0.0307	1.536	0	102	50.6	137				
Hexachlorobutadiene	0.700	0.154	1.536	0	45.6	40.6	158				
Naphthalene	1.48	0.0461	1.536	0	96.2	52.3	124				
1,2,3-Trichlorobenzene	1.47	0.0307	1.536	0	95.4	54.4	124				
Surr: Dibromofluoromethane	3.77		3.839		98.2	67.6	119				
Surr: Toluene-d8	3.79		3.839		98.8	67	139				
Surr: 1-Bromo-4-fluorobenzene	3.84		3.839		99.9	63.1	141				

Sample ID: ICV-4436	SampType: ICV	Units: mg/Kg	Prep Date: 4/15/2013	RunNo: 8176							
Client ID: ICV	Batch ID: 4436		Analysis Date: 4/16/2013	SeqNo: 162902							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Hexachlorobutadiene	14.9	0.100	20.00	0	74.6	70	130				
Surr: Dibromofluoromethane	50.5		50.00		101	67.6	119				
Surr: Toluene-d8	50.0		50.00		100	67	139				
Surr: 1-Bromo-4-fluorobenzene	50.3		50.00		101	63.1	141				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1304102
 CLIENT: PES Environmental, Inc.
 Project: Former Pace

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: LCS-4436	SampType: LCS	Units: mg/Kg	Prep Date: 4/15/2013	RunNo: 8176							
Client ID: LCSS	Batch ID: 4436		Analysis Date: 4/16/2013	SeqNo: 162903							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	0.954	0.0600	1.000	0	95.4	37.7	136				
Chloromethane	0.968	0.0600	1.000	0	96.8	38.8	132				
Vinyl chloride	1.03	0.00200	1.000	0	103	56.1	130				
Bromomethane	1.06	0.0900	1.000	0	106	48.6	147				
Trichlorofluoromethane (CFC-11)	1.01	0.0500	1.000	0	101	60.3	132				
Chloroethane	1.04	0.0600	1.000	0	104	55.7	135				
1,1-Dichloroethene	1.00	0.0500	1.000	0	100	64.6	134				
Methylene chloride	0.898	0.0200	1.000	0	89.8	60.6	140				
trans-1,2-Dichloroethene	0.980	0.0200	1.000	0	98.0	68.7	127				
Methyl tert-butyl ether (MTBE)	0.979	0.0500	1.000	0	97.9	73.4	128				
1,1-Dichloroethane	1.00	0.0200	1.000	0	100	65.5	132				
2,2-Dichloropropane	0.850	0.0500	1.000	0	85.0	28.1	149				
cis-1,2-Dichloroethene	0.988	0.0200	1.000	0	98.8	71.6	123				
Chloroform	0.998	0.0200	1.000	0	99.8	67.5	129				
1,1,1-Trichloroethane (TCA)	1.00	0.0200	1.000	0	100	74.4	130				
1,1-Dichloropropene	1.01	0.0200	1.000	0	101	72.7	131				
Carbon tetrachloride	1.01	0.0200	1.000	0	101	67.9	126				
1,2-Dichloroethane (EDC)	1.01	0.0300	1.000	0	101	68.7	133				
Benzene	1.01	0.0200	1.000	0	101	74.6	124				
Trichloroethene (TCE)	0.998	0.0300	1.000	0	99.8	67.4	133				
1,2-Dichloropropane	1.01	0.0200	1.000	0	101	72.7	133				
Bromodichloromethane	0.968	0.0200	1.000	0	96.8	76.1	136				
Dibromomethane	0.994	0.0400	1.000	0	99.4	70	130				
cis-1,3-Dichloropropene	0.962	0.0200	1.000	0	96.2	59.1	143				
Toluene	1.02	0.0200	1.000	0	102	79.9	118				
trans-1,3-Dichloropropylene	0.963	0.0300	1.000	0	96.3	49.2	149				
1,1,2-Trichloroethane	0.972	0.0300	1.000	0	97.2	74.5	129				
1,3-Dichloropropane	0.986	0.0500	1.000	0	98.6	70	130				
Tetrachloroethene (PCE)	1.19	0.0200	1.000	0	119	52.7	150				

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1304102
 CLIENT: PES Environmental, Inc.
 Project: Former Pace

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: LCS-4436	SampType: LCS	Units: mg/Kg	Prep Date: 4/15/2013	RunNo: 8176							
Client ID: LCSS	Batch ID: 4436		Analysis Date: 4/16/2013	SeqNo: 162903							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	0.986	0.0300	1.000	0	98.6	70.6	144				
1,2-Dibromoethane (EDB)	0.973	0.00500	1.000	0	97.3	70	130				
Chlorobenzene	0.993	0.0200	1.000	0	99.3	76.1	123				
1,1,1,2-Tetrachloroethane	0.980	0.0300	1.000	0	98.0	74.8	131				
Ethylbenzene	1.00	0.0300	1.000	0	100	74	129				
m,p-Xylene	2.02	0.0200	2.000	0	101	79.8	128				
o-Xylene	1.00	0.0200	1.000	0	100	77.3	128				
Styrene	0.991	0.0200	1.000	0	99.1	76.8	130				
Isopropylbenzene	1.01	0.0800	1.000	0	101	70	130				
Bromoform	0.939	0.0200	1.000	0	93.9	67	154				
1,1,2,2-Tetrachloroethane	0.952	0.0200	1.000	0	95.2	60	130				
n-Propylbenzene	1.00	0.0200	1.000	0	100	78	130				
Bromobenzene	0.974	0.0300	1.000	0	97.4	49.2	144				
1,3,5-Trimethylbenzene	0.994	0.0200	1.000	0	99.4	74.6	123				
2-Chlorotoluene	0.983	0.0200	1.000	0	98.3	76.7	129				
4-Chlorotoluene	0.994	0.0200	1.000	0	99.4	77.5	125				
tert-Butylbenzene	0.957	0.0200	1.000	0	95.7	66.2	130				
1,2,3-Trichloropropane	0.964	0.0200	1.000	0	96.4	67.9	136				
1,2,4-Trichlorobenzene	0.940	0.0500	1.000	0	94.0	65.6	137				
sec-Butylbenzene	0.990	0.0200	1.000	0	99.0	75.6	133				
4-Isopropyltoluene	1.01	0.0200	1.000	0	101	76.8	131				
1,3-Dichlorobenzene	0.975	0.0200	1.000	0	97.5	72.8	128				
1,4-Dichlorobenzene	0.983	0.0200	1.000	0	98.2	72.6	126				
n-Butylbenzene	0.982	0.0200	1.000	0	98.2	65.3	136				
1,2-Dichlorobenzene	0.986	0.0200	1.000	0	98.6	72.8	126				
1,2-Dibromo-3-chloropropane	0.986	0.0300	1.000	0	98.6	60.3	130				
1,2,4-Trimethylbenzene	0.992	0.0200	1.000	0	99.2	77.5	129				
Hexachlorobutadiene	0.332	0.100	1.000	0	33.2	42	151				S
Naphthalene	0.906	0.0300	1.000	0	90.6	64	130				

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1304102
CLIENT: PES Environmental, Inc.
Project: Former Pace

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: LCS-4436	SampType: LCS	Units: mg/Kg	Prep Date: 4/15/2013	RunNo: 8176							
Client ID: LCSS	Batch ID: 4436		Analysis Date: 4/16/2013	SeqNo: 162903							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,3-Trichlorobenzene	0.925	0.0200	1.000	0	92.5	62.1	140				
Surr: Dibromofluoromethane	2.53		2.500		101	67.6	119				
Surr: Toluene-d8	2.51		2.500		100	67	139				
Surr: 1-Bromo-4-fluorobenzene	2.53		2.500		101	63.1	141				

NOTES:

S - Outlying spike recovery observed for Hexachlorobutadiene. The second source initial calibration verification (ICV) was within range.

Sample ID: MB-4436	SampType: MBLK	Units: mg/Kg	Prep Date: 4/15/2013	RunNo: 8176							
Client ID: MBLKS	Batch ID: 4436		Analysis Date: 4/16/2013	SeqNo: 162906							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	ND	0.0600									
Chloromethane	ND	0.0600									
Vinyl chloride	ND	0.00200									
Bromomethane	ND	0.0900									
Trichlorofluoromethane (CFC-11)	ND	0.0500									
Chloroethane	ND	0.0600									
1,1-Dichloroethene	ND	0.0500									
Methylene chloride	ND	0.0200									
trans-1,2-Dichloroethene	ND	0.0200									
Methyl tert-butyl ether (MTBE)	ND	0.0500									
1,1-Dichloroethane	ND	0.0200									
2,2-Dichloropropane	ND	0.0500									
cis-1,2-Dichloroethene	ND	0.0200									
Chloroform	ND	0.0200									
1,1,1-Trichloroethane (TCA)	ND	0.0200									
1,1-Dichloropropene	ND	0.0200									
Carbon tetrachloride	ND	0.0200									
1,2-Dichloroethane (EDC)	ND	0.0300									

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1304102
CLIENT: PES Environmental, Inc.
Project: Former Pace

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: MB-4436	SampType: MBLK	Units: mg/Kg	Prep Date: 4/15/2013	RunNo: 8176							
Client ID: MBLKS	Batch ID: 4436		Analysis Date: 4/16/2013	SeqNo: 162906							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0300									
1,2-Dichloropropane	ND	0.0200									
Bromodichloromethane	ND	0.0200									
Dibromomethane	ND	0.0400									
cis-1,3-Dichloropropene	ND	0.0200									
Toluene	ND	0.0200									
trans-1,3-Dichloropropylene	ND	0.0300									
1,1,2-Trichloroethane	ND	0.0300									
1,3-Dichloropropane	ND	0.0500									
Tetrachloroethene (PCE)	ND	0.0200									
Dibromochloromethane	ND	0.0300									
1,2-Dibromoethane (EDB)	ND	0.00500									
Chlorobenzene	ND	0.0200									
1,1,1,2-Tetrachloroethane	ND	0.0300									
Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									
o-Xylene	ND	0.0200									
Styrene	ND	0.0200									
Isopropylbenzene	ND	0.0800									
Bromoform	ND	0.0200									
1,1,1,2,2-Tetrachloroethane	ND	0.0200									
n-Propylbenzene	ND	0.0200									
Bromobenzene	ND	0.0300									
1,3,5-Trimethylbenzene	ND	0.0200									
2-Chlorotoluene	ND	0.0200									
4-Chlorotoluene	ND	0.0200									
tert-Butylbenzene	ND	0.0200									
1,2,3-Trichloropropane	ND	0.0200									

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1304102
 CLIENT: PES Environmental, Inc.
 Project: Former Pace

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: MB-4436	SampType: MBLK	Units: mg/Kg	Prep Date: 4/15/2013	RunNo: 8176							
Client ID: MBLKS	Batch ID: 4436		Analysis Date: 4/16/2013	SeqNo: 162906							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,4-Trichlorobenzene	ND	0.0500									
sec-Butylbenzene	ND	0.0200									
4-Isopropyltoluene	ND	0.0200									
1,3-Dichlorobenzene	ND	0.0200									
1,4-Dichlorobenzene	ND	0.0200									
n-Butylbenzene	ND	0.0200									
1,2-Dichlorobenzene	ND	0.0200									
1,2-Dibromo-3-chloropropane	ND	0.0300									
1,2,4-Trimethylbenzene	ND	0.0200									
Hexachlorobutadiene	ND	0.100									
Naphthalene	ND	0.0300									
1,2,3-Trichlorobenzene	ND	0.0200									
Surr: Dibromofluoromethane	2.51		2.500		100	67.6	119				
Surr: Toluene-d8	2.52		2.500		101	67	139				
Surr: 1-Bromo-4-fluorobenzene	2.54		2.500		102	63.1	141				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Client Name: **PES**
 Logged by: **Clare Griggs**

 Work Order Number: **1304102**
 Date Received: **4/12/2013 1:11:00 PM**
Chain of Custody

1. Were custodial seals present? Yes No Not Required
2. Is Chain of Custody complete? Yes No Not Present
3. How was the sample delivered? Client

Log In

4. Coolers are present? Yes No NA
5. Was an attempt made to cool the samples? Yes No NA
6. Were all coolers received at a temperature of >0° C to 10.0°C Yes No NA
7. Sample(s) in proper container(s)? Yes No
8. Sufficient sample volume for indicated test(s)? Yes No
9. Are samples properly preserved? Yes No
10. Was preservative added to bottles? Yes No NA
11. Is there headspace present in VOA vials? Yes No NA
12. Did all sample containers arrive in good condition?(unbroken) Yes No
13. Does paperwork match bottle labels? Yes No
14. Are matrices correctly identified on Chain of Custody? Yes No
15. Is it clear what analyses were requested? Yes No
16. Were all holding times able to be met? Yes No

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks/Discrepancies

Sample 016 was labeled GP-29-5 on the COC and GP-29-7.5 on the sample label, based on the sample time it is the same sample and will be using the COC version of the sample name in Omega.

Item Information

Item #	Temp °C	Condition
Cooler 1	4.1	Good
Cooler 2	2.4	Good
Tmp Blk 1	4.7	Good
Tmp Blk 2	1.2	Good

SAMPLED → LEORA 206 914 5055 CALL W/ QUESTIONS THANK



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Client: PRES
Address: SEATTLE
City, State, Zip
Reports To (PM): KELLY BANKRICH Fax:

Laboratory Project No (Internal): 1304102
Page: 1 of: 2
Project Name: FORMER PACE
Location: LD 00 SY
Project No: 1006-008-02

Chain of Custody Record

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)	Analysis Method	Result	Comments/Depts
1 GP-31-15	4/10	930	Soil	VOC (EPA 8160)	X	* W/ SILICATE
2 GP-31-9		950		BTEX by EPA 8010	X	
3 GP-30-3		1050		Gasoline Range Organics	X	
4 GP-30-8		1100		Hydrocarbon Identification (HCO)	X	
5 GP-28-3				Over/Heavy Organics	X	
6 GP-28-14				Semi Vol (EPA 8210 - SM)	X	
7 GP-28-22		1300		PCB (EPA 8270)	X	
8 GP-32-20				PAH (EPA 8270)	X	
9 GP-27-2	4/11	1010		Chlorides (EPA 8081)	X	
10 GP-27-5	4/11	1020		Chlorides (EPA 8081)	X	

*Metals Analysis (Circle): MTCA-5 RCR-8 RCR-9 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb 5b Se Sr Sn Tl U V Zn

**Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide C-Phosphate Fluoride Mitate+Nitrite

Sample Disposal: Return to Client Disposal by Lab (As fee may be assessed if samples are retained after 30 days)

Relinquished Date/Time: 4/12/13 1311 Received Date/Time: 4/12/13 1311

Relinquished: [Signature] Received: [Signature]

TAT → Next Day 2 Day 3 Day STD



Fremont

Analytical

3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-2178

Chain of Custody Record

Laboratory Project No (Internal): 2 of: Z

Date: 4/12/13

Page: FORMER PACE

Project Name: FES

Location: SEATTLE

Collected by: KEILY RANKICK

Project No: 1006-008-02

Tel: 206-529-3980

City, State, Zip: SEATTLE

Reports To (PM): KEILY RANKICK

Email: C DOODY

Fax: KEILY RANKICK

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)	VOC (EPA 8260)	GC/MS (EPA 8210)	Hydrocarbon Organics	Distillation Residue (HDD)	SEM/VOA (EPA 8270)	PCB (EPA 8070-SM)	Chlorinated (EPA 8081)	Metals (EPA 8210)	Cal. 1 Dissolved (D)	Know (C) **	Comments/Depth
1. GP-27-14.5	4/11	1050	Soil	X	X	X	X	X	X	X	X	X	X	WITH SILICA GEL
2. GP-26-2	4/11	1120		X	X	X	X	X	X	X	X	X	X	
3. GP-26-6		1130		X	X	X	X	X	X	X	X	X	X	
4. GP-26-17		1200		X	X	X	X	X	X	X	X	X	X	
5. GP-29-3		1210		X	X	X	X	X	X	X	X	X	X	
6. GP-29-5		1230		X	X	X	X	X	X	X	X	X	X	
7. GP-29-15		1240		X	X	X	X	X	X	X	X	X	X	
8. Soil Comp		1630		X	X	X	X	X	X	X	X	X	X	HOLD
9.														
10.														

**Metals Analysis (Circle): MIC-5 RCRA-8 Priority Pollutants: TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sn Sr Ss Se Sr Sn Ti Tl U V Zn

**Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide G-Phosphate Fluoride Nitrate/Nitrite

Sample Disposal: Return to Client Disposal by Lab (A for may be assessed if samples are retained after 30 days)

Relinquished: [Signature] Date/Time: 4/12/13 1311

Received: [Signature] Date/Time: 4/12/13 1311

Relinquished: [Signature] Date/Time: 4/12/13 1311

Received: [Signature] Date/Time: 4/12/13 1311

Special Remarks:

TAT --> Next Day 2 Day 3 Day STD

MEMORANDUM

TO: Project File **DATE:** April 22, 2013
FROM: Jerry Harris
SUBJECT: Laboratory Data Validation Review
PROJECT: Former Pace Facility Kirkland, WA
PROJECT #: 1006.008.02.002
TASK: April 10 and 11, 2013 Soil Samples
LAB: Fremont Analytical Service Request No. 1304102

Soil sampling was conducted at the former Pace facility in Kirkland, Washington on April 10 and 11, 2013. Seventeen (17) primary soil samples were collected from the site. In addition to the 17 primary samples, blind field duplicate GP-32-20 was collected with primary sample GP-28-14. A trip blank was also prepared by the laboratory and traveled with the samples; however, a trip blank analysis was not required for this project.

Sixteen primary samples and the blind field duplicate were analyzed for total petroleum hydrocarbons (TPH) as diesel (fuel oil) and heavy oil (HO) by the Northwest TPH-Dx method using a silica gel cleanup, TPH as gasoline by the NWTPH-Gx method, and volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260. One primary sample was analyzed for total metals (arsenic, barium, cadmium, chromium, lead, selenium and silver) by USEPA Method 6020. This sample was also analyzed for total mercury by USEPA Method 7471. The TPH-Dx analyses were performed in one analysis group (ID 4433); the TPH-Gx analyses were performed in one analysis group (ID 8178); and the VOC analyses were performed in one primary analysis group (ID 4436). Laboratory analytical services were provided by Fremont Analytical (FA) of Seattle, Washington. FA Project number: 1304102.

The quality assurance review of the groundwater samples data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, 1999) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (USEPA, 2004).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested.

Sample Collection and Preservation

The samples were collected in appropriately preserved containers supplied by the analytical laboratory. The laboratory sample log-in checklist reported that the samples were received in good condition. The laboratory received the samples in two coolers at cooler temperatures of 4.1 and 2.4 degrees centigrade (°C). Temperature blanks were also included in each cooler and the blank temperatures were 4.7 and 1.2°C, respectively. The cooler temperatures and the cooler #1 blank temperature were within the USEPA recommended temperature range of $4^{\circ} \pm 2^{\circ}\text{C}$. The temperature of the blank in the second cooler was below the lower limit of the recommended range but above freezing. The sample log-in checklist indicated that the samples were properly cooled during shipment and no potential issues were identified (i.e. frozen samples, cracked or broken sample containers, etc.) to suggest that the low blank temperature of cooler #2 adversely impacted the samples. Based upon the information provided by the laboratory and the cooler temperatures, the low blank temperature from cooler #2 is not considered sufficient cause to warrant qualification of the data. No data qualifications were warranted based upon the laboratory receipt temperatures.

Holding Times

NWTPH-Dx

The extractions and analyses for the NWTPH-Dx method were performed within the recommended 14 day holding time limit for soil samples.

NWTPH-Gx

The analyses for the NWTPH Gx method were performed within the recommended 14 day holding time limit for soil samples.

USEPA Method 8260

The analyses for VOCS were performed within the recommended 14 day holding time limit for soil samples. No data were qualified based upon holding times.

USEPA Method 6020

The analyses for total metals were performed within the recommended 180 day holding time limit for soil samples. No data were qualified based upon holding times.

USEPA Method 7471

The analyses for total mercury were performed within the recommended 180 day holding time limit for soil samples. No data were qualified based upon holding times.

Initial Calibration

Hard copies of the initial calibration verification (ICV) data for this project are not required in the data deliverable. The laboratory is required to discuss discrepancies in initial calibration results associated with the project analyses if they occur. No discrepancies were reported; therefore no data qualifications were warranted.

Continuing Calibration

Hard copies of the continuing calibration verification (CCV) data for this project are not required in the data deliverable. The laboratory is required to discuss discrepancies in continuing calibration results associated with the project analyses. No discrepancies were reported; therefore no data qualifications were warranted. However, the laboratory did report the ICV results for hexachlorobutadiene due to an LCS exceedance for this compound. The ICV recovery for this compound was within the control limits.

Method Blank Results

NWTPH-Dx

One method blank was analyzed with the single analysis group. This meets the required method blank frequency for the analytical method. The method blank results did not report any compounds at concentrations at or above the Method Reporting Limits (MRLs). No data qualifications were warranted.

NWTPH-Gx

One method blank was analyzed with the single analysis group. This meets the required method blank frequency for the analytical method. The method blank results did not report any compounds at concentrations at or above the MRLs. No data qualifications were warranted.

USEPA Method 8260

One method blank was analyzed with the single analysis group. This meets the required method blank frequency for the analytical method. The method blank results did not report any compounds at concentrations at or above the MRLs. No data qualifications were warranted.

USEPA Method 6020

One method blank was analyzed with the single analysis group. This meets the required method blank frequency for the analytical method. The method blank results did not report any compounds at concentrations at or above the MRLs. No data qualifications were warranted.

USEPA Method 7471

One method blank was analyzed with the single analysis group. This meets the required method blank frequency for the analytical method. The method blank results did not report any compounds at concentrations at or above the MRLs. No data qualifications were warranted.

Trip Blank Results

No trip blank analyses were required for this sampling event.

Field Duplicate Analyses

NWTPH-Dx

The laboratory prepared one blind field duplicate soil sample (ID GP-32-20) for analysis group 4433 from project sample GP-28-14. The primary and laboratory duplicate pair was analyzed by the NWTPH Dx method. The relative percent differences (RPDs) for all target analytes in the primary and duplicate sample were within the laboratory control criteria of 30 RPD. No data were qualified.

NWTPH-Gx

The laboratory prepared one duplicate soil sample (ID GP-32-20) for analysis group 8178 from project sample GP-28-14. The primary and laboratory duplicate pair was analyzed by the NWTPH Gx method. The RPDs for all target analytes in the primary and duplicate sample were within the laboratory control criteria of 30 RPD. No data were qualified.

USEPA Method 8260

The laboratory prepared one duplicate soil sample (ID GP-32-20) for analysis group 4436 from project sample GP-28-14. The primary and laboratory duplicate pair was analyzed by USEPA Method 8260. The RPDs for all target analytes in the primary and duplicate sample were within the laboratory control criteria of 30 RPD. No data were qualified.

USEPA Method 6020

A blind field duplicate analysis was not required for this method. No data qualifications were warranted.

USEPA Method 7471

A blind field duplicate analysis was not required for this method. No data qualifications were warranted.

Laboratory Duplicate Analyses

NWTPH-Dx

The laboratory prepared one duplicate soil sample for analysis group 4433 from project sample GP-31-5. The primary and laboratory duplicate pair was analyzed by the NWTPH Dx method. The relative percent differences (RPDs) for all target analytes in the primary and duplicate sample were within the laboratory control criteria of 30 RPD. No data were qualified.

NWTPH-Gx

The laboratory prepared one duplicate soil sample for analysis group 8178 from project sample GP-28-3. The primary and laboratory duplicate pair was analyzed by the NWTPH Gx method. The RPDs for all target analytes in the primary and duplicate sample were within the laboratory control criteria of 30 RPD. No data were qualified.

USEPA Method 8260

The laboratory prepared one duplicate soil sample for analysis group 4436 from project sample GP-28-3. The primary and laboratory duplicate pair was analyzed by USEPA Method 8260.

The RPDs for all target analytes in the primary and duplicate sample were within the laboratory control criteria of 30 RPD. No data were qualified.

USEPA Method 6020

One batch (non-project) laboratory duplicate was prepared and analyzed with the single analysis group. This meets the required duplicate frequency for the analytical method. The duplicate RPDs were within the laboratory control limits. No data qualifications were warranted.

USEPA Method 7471

One method blank was analyzed with the single analysis group. This meets the required method blank frequency for the analytical method. The method blank results did not report any compounds at concentrations at or above the MRLs. No data qualifications were warranted.

Surrogate Recoveries

NWTPH-Dx

The surrogate percent recovery (%R) results for all NWTPH Dx soil and water samples, laboratory control samples, matrix spikes, duplicates and method blanks were within the laboratory surrogate control limits of 50 to 150%R.

NWTPH-Gx

The surrogate %R results for all NWTPH Gx soil and water samples, laboratory control samples, matrix spikes, duplicates and method blanks were within the laboratory surrogate control limits of 65 to 135%. No data qualifications were warranted.

USEPA Method 8260

The surrogate %R results for all USEPA Method 8260 soil and water samples, laboratory control samples, matrix spikes, duplicates and method blanks were within the laboratory surrogate control limits. No data qualifications were warranted.

USEPA Method 6020

Surrogates are not required for this method. No data qualifications were warranted.

USEPA Method 7471

Surrogates are not required for this method. No data qualifications were warranted.

Laboratory Control Samples

NWTPH-Dx

One laboratory control sample (LCS) was prepared and analyzed for the single analytical batch. The LCS %Rs for all target analytes were within the laboratory control limits. No qualifications were warranted.

NWTPH-Gx

One LCS was prepared and analyzed for the single analytical batch. The LCS %Rs for all target analytes were within the laboratory control limits. No qualifications were warranted.

USEPA Method 8260

One LCS was prepared and analyzed for the single analytical batch. The LCS %Rs for all target analytes were within the laboratory control limits except for hexachlorobutadiene. The %R for this compound was below the lower control limit, indicating a potential low bias in sample results for hexachlorobutadiene. Because of the low %R for this compound, the laboratory reported ICV results for this compound. The ICV results indicated that the instrument was in control during the analyses. Based upon the LCS and ICV results, all hexachlorobutadiene results reported for the project samples are qualified as estimated and assigned a J flag. The laboratory report pages showing the qualifications are attached. No other qualifications were warranted.

USEPA Method 6020

One LCS was prepared and analyzed for the single analytical batch. The LCS %Rs for all target analytes were within the laboratory control limits. No qualifications were warranted.

USEPA Method 7471

One LCS was prepared and analyzed for the single analytical batch. The LCS %R for the target analyte was within the laboratory control limits. No qualifications were warranted.

Matrix Spike/Matrix Spike Duplicates

NWTPH-Dx

Matrix spikes and matrix spike duplicates (MS/MSD) are not required for the NWTPH-Dx method.

NWTPH-Gx

Matrix spikes and matrix spike duplicates (MS/MSD) are not required for the NWTPH-Dx method.

USEPA Method 8260

One batch (non-project) soil MS was prepared and analyzed with the project samples for the single analysis batch. A sample duplicate was analyzed in lieu of a MSD for the project. This is acceptable. The MS %Rs were within the laboratory control limits for all target analytes. No qualifications were warranted.

USEPA Method 6020

One batch (non-project) soil MS was prepared and analyzed with the single analysis group. This meets the required MS frequency for the analytical method. The MS %Rs were within the laboratory control limits. In addition, a batch MS duplicate was prepared and analyzed. The MS duplicate %Rs and MS-MS duplicate RPDs were within the control limits. No data qualifications were warranted.

USEPA Method 7471

One batch (non-project) soil MS was prepared and analyzed with the single analysis group. This meets the required MS frequency for the analytical method. The MS %R was within the laboratory control limits. In addition, a batch MS duplicate was prepared and analyzed. The MS

duplicate %R and MS-MS duplicate RPD were within the control limits. No data qualifications were warranted.

Other Quality Control Issues

No other laboratory quality control issues were identified in the laboratory report.

Quantitation Limits

The MRLs were acceptable for the project; therefore, no data qualifiers were assigned.

Data Assessment

All hexachlorobutadiene results reported for the project samples are qualified as estimated and assigned a J flag due to an LCS %R exceedance for this compound. The laboratory report pages showing the qualifications are attached. No other data were qualified. All data, including the qualified data, are judged to be acceptable for their intended use.



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 9:30:00 AM

Project: Former Pace

Lab ID: 1304102-001

Matrix: Soil

Client Sample ID: GP-31-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0359		mg/Kg-dry	1	4/16/2013 11:50:00 AM
cis-1,3-Dichloropropene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Toluene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
trans-1,3-Dichloropropylene	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,1,2-Trichloroethane	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,3-Dichloropropane	ND	0.0449		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Tetrachloroethene (PCE)	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Dibromochloromethane	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,2-Dibromoethane (EDB)	ND	0.00449		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Chlorobenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,1,1,2-Tetrachloroethane	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Ethylbenzene	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
m,p-Xylene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
o-Xylene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Styrene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Isopropylbenzene	ND	0.0718		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Bromoform	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,1,2,2-Tetrachloroethane	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
n-Propylbenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Bromobenzene	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,3,5-Trimethylbenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
2-Chlorotoluene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
4-Chlorotoluene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
tert-Butylbenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,2,3-Trichloropropane	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,2,4-Trichlorobenzene	ND	0.0449		mg/Kg-dry	1	4/16/2013 11:50:00 AM
sec-Butylbenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
4-Isopropyltoluene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,3-Dichlorobenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,4-Dichlorobenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
n-Butylbenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,2-Dichlorobenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,2-Dibromo-3-chloropropane	ND	0.0269		mg/Kg-dry	1	4/16/2013 11:50:00 AM
1,2,4-Trimethylbenzene	ND	0.0179		mg/Kg-dry	1	4/16/2013 11:50:00 AM
Hexachlorobutadiene	ND J	0.0897		mg/Kg-dry	1	4/16/2013 11:50:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 9:50:00 AM

Project: Former Pace

Lab ID: 1304102-002

Matrix: Soil

Client Sample ID: GP-31-9

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0299		mg/Kg-dry	1	4/16/2013 12:18:00 PM
cis-1,3-Dichloropropene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Toluene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
trans-1,3-Dichloropropylene	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,1,2-Trichloroethane	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,3-Dichloropropane	ND	0.0374		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Tetrachloroethene (PCE)	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Dibromochloromethane	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,2-Dibromoethane (EDB)	ND	0.00374		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Chlorobenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Ethylbenzene	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
m,p-Xylene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
o-Xylene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Styrene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Isopropylbenzene	ND	0.0598		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Bromoform	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
n-Propylbenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Bromobenzene	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,3,5-Trimethylbenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
2-Chlorotoluene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
4-Chlorotoluene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
tert-Butylbenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,2,3-Trichloropropane	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,2,4-Trichlorobenzene	ND	0.0374		mg/Kg-dry	1	4/16/2013 12:18:00 PM
sec-Butylbenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
4-Isopropyltoluene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,3-Dichlorobenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,4-Dichlorobenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
n-Butylbenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,2-Dichlorobenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0224		mg/Kg-dry	1	4/16/2013 12:18:00 PM
1,2,4-Trimethylbenzene	ND	0.0150		mg/Kg-dry	1	4/16/2013 12:18:00 PM
Hexachlorobutadiene	ND J	0.0748		mg/Kg-dry	1	4/16/2013 12:18:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 10:50:00 AM

Project: Former Pace

Lab ID: 1304102-003

Matrix: Soil

Client Sample ID: GP-30-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0255		mg/Kg-dry	1	4/16/2013 12:47:00 PM
cis-1,3-Dichloropropene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Toluene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
trans-1,3-Dichloropropylene	ND	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,1,2-Trichloroethane	ND	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,3-Dichloropropane	ND	0.0319		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Tetrachloroethene (PCE)	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Dibromochloromethane	ND	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,2-Dibromoethane (EDB)	ND	0.00319		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Chlorobenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Ethylbenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
m,p-Xylene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
o-Xylene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Styrene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Isopropylbenzene	ND	0.0511		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Bromoform	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
n-Propylbenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Bromobenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,3,5-Trimethylbenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
2-Chlorotoluene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
4-Chlorotoluene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
tert-Butylbenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,2,3-Trichloropropane	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,2,4-Trichlorobenzene	ND	0.0319		mg/Kg-dry	1	4/16/2013 12:47:00 PM
sec-Butylbenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
4-Isopropyltoluene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,3-Dichlorobenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,4-Dichlorobenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
n-Butylbenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,2-Dichlorobenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0192		mg/Kg-dry	1	4/16/2013 12:47:00 PM
1,2,4-Trimethylbenzene	ND	0.0128		mg/Kg-dry	1	4/16/2013 12:47:00 PM
Hexachlorobutadiene	ND J	0.0639		mg/Kg-dry	1	4/16/2013 12:47:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 11:00:00 AM

Project: Former Pace

Lab ID: 1304102-004

Matrix: Soil

Client Sample ID: GP-30-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0482		mg/Kg-dry	1	4/16/2013 1:16:00 PM
cis-1,3-Dichloropropene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Toluene	0.0331	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
trans-1,3-Dichloropropylene	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,1,2-Trichloroethane	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,3-Dichloropropane	ND	0.0602		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Tetrachloroethene (PCE)	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Dibromochloromethane	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,2-Dibromoethane (EDB)	ND	0.00602		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Chlorobenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Ethylbenzene	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
m,p-Xylene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
o-Xylene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Styrene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Isopropylbenzene	ND	0.0964		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Bromoform	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
n-Propylbenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Bromobenzene	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,3,5-Trimethylbenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
2-Chlorotoluene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
4-Chlorotoluene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
tert-Butylbenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,2,3-Trichloropropane	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,2,4-Trichlorobenzene	ND	0.0602		mg/Kg-dry	1	4/16/2013 1:16:00 PM
sec-Butylbenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
4-Isopropyltoluene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,3-Dichlorobenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,4-Dichlorobenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
n-Butylbenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,2-Dichlorobenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0361		mg/Kg-dry	1	4/16/2013 1:16:00 PM
1,2,4-Trimethylbenzene	ND	0.0241		mg/Kg-dry	1	4/16/2013 1:16:00 PM
Hexachlorobutadiene	ND J	0.120		mg/Kg-dry	1	4/16/2013 1:16:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013

Project: Former Pace

Lab ID: 1304102-005

Matrix: Soil

Client Sample ID: GP-28-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0311		mg/Kg-dry	1	4/16/2013 1:45:00 PM
cis-1,3-Dichloropropene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Toluene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
trans-1,3-Dichloropropylene	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,1,2-Trichloroethane	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,3-Dichloropropane	ND	0.0389		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Tetrachloroethene (PCE)	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Dibromochloromethane	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,2-Dibromoethane (EDB)	ND	0.00389		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Chlorobenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Ethylbenzene	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
m,p-Xylene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
o-Xylene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Styrene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Isopropylbenzene	ND	0.0623		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Bromoform	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
n-Propylbenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Bromobenzene	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,3,5-Trimethylbenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
2-Chlorotoluene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
4-Chlorotoluene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
tert-Butylbenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,2,3-Trichloropropane	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,2,4-Trichlorobenzene	ND	0.0389		mg/Kg-dry	1	4/16/2013 1:45:00 PM
sec-Butylbenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
4-Isopropyltoluene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,3-Dichlorobenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,4-Dichlorobenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
n-Butylbenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,2-Dichlorobenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0233		mg/Kg-dry	1	4/16/2013 1:45:00 PM
1,2,4-Trimethylbenzene	ND	0.0156		mg/Kg-dry	1	4/16/2013 1:45:00 PM
Hexachlorobutadiene	ND	J 0.0778		mg/Kg-dry	1	4/16/2013 1:45:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013

Project: Former Pace

Lab ID: 1304102-006

Matrix: Soil

Client Sample ID: GP-28-14

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0296		mg/Kg-dry	1	4/16/2013 4:09:00 PM
cis-1,3-Dichloropropene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Toluene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
trans-1,3-Dichloropropylene	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,1,2-Trichloroethane	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,3-Dichloropropane	ND	0.0371		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Tetrachloroethene (PCE)	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Dibromochloromethane	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,2-Dibromoethane (EDB)	ND	0.00371		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Chlorobenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Ethylbenzene	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
m,p-Xylene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
o-Xylene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Styrene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Isopropylbenzene	ND	0.0593		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Bromoform	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
n-Propylbenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Bromobenzene	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,3,5-Trimethylbenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
2-Chlorotoluene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
4-Chlorotoluene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
tert-Butylbenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,2,3-Trichloropropane	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,2,4-Trichlorobenzene	ND	0.0371		mg/Kg-dry	1	4/16/2013 4:09:00 PM
sec-Butylbenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
4-Isopropyltoluene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,3-Dichlorobenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,4-Dichlorobenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
n-Butylbenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,2-Dichlorobenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0222		mg/Kg-dry	1	4/16/2013 4:09:00 PM
1,2,4-Trimethylbenzene	ND	0.0148		mg/Kg-dry	1	4/16/2013 4:09:00 PM
Hexachlorobutadiene	ND J	0.0741		mg/Kg-dry	1	4/16/2013 4:09:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013 1:00:00 PM

Project: Former Pace

Lab ID: 1304102-007

Matrix: Soil

Client Sample ID: GP-28-22

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0225		mg/Kg-dry	1	4/16/2013 4:38:00 PM
cis-1,3-Dichloropropene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Toluene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
trans-1,3-Dichloropropylene	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,1,2-Trichloroethane	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,3-Dichloropropane	ND	0.0281		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Tetrachloroethene (PCE)	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Dibromochloromethane	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,2-Dibromoethane (EDB)	ND	0.00281		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Chlorobenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Ethylbenzene	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
m,p-Xylene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
o-Xylene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Styrene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Isopropylbenzene	ND	0.0450		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Bromoform	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
n-Propylbenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Bromobenzene	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,3,5-Trimethylbenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
2-Chlorotoluene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
4-Chlorotoluene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
tert-Butylbenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,2,3-Trichloropropane	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,2,4-Trichlorobenzene	ND	0.0281		mg/Kg-dry	1	4/16/2013 4:38:00 PM
sec-Butylbenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
4-Isopropyltoluene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,3-Dichlorobenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,4-Dichlorobenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
n-Butylbenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,2-Dichlorobenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0169		mg/Kg-dry	1	4/16/2013 4:38:00 PM
1,2,4-Trimethylbenzene	ND	0.0112		mg/Kg-dry	1	4/16/2013 4:38:00 PM
Hexachlorobutadiene	ND J	0.0562		mg/Kg-dry	1	4/16/2013 4:38:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/10/2013

Project: Former Pace

Lab ID: 1304102-008

Matrix: Soil

Client Sample ID: GP-32-20

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0336		mg/Kg-dry	1	4/16/2013 5:07:00 PM
cis-1,3-Dichloropropene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Toluene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
trans-1,3-Dichloropropylene	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,1,2-Trichloroethane	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,3-Dichloropropane	ND	0.0420		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Tetrachloroethene (PCE)	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Dibromochloromethane	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,2-Dibromoethane (EDB)	ND	0.00420		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Chlorobenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Ethylbenzene	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
m,p-Xylene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
o-Xylene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Styrene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Isopropylbenzene	ND	0.0671		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Bromoform	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
n-Propylbenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Bromobenzene	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,3,5-Trimethylbenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
2-Chlorotoluene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
4-Chlorotoluene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
tert-Butylbenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,2,3-Trichloropropane	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,2,4-Trichlorobenzene	ND	0.0420		mg/Kg-dry	1	4/16/2013 5:07:00 PM
sec-Butylbenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
4-Isopropyltoluene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,3-Dichlorobenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,4-Dichlorobenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
n-Butylbenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,2-Dichlorobenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0252		mg/Kg-dry	1	4/16/2013 5:07:00 PM
1,2,4-Trimethylbenzene	ND	0.0168		mg/Kg-dry	1	4/16/2013 5:07:00 PM
Hexachlorobutadiene	ND	0.0839	J	mg/Kg-dry	1	4/16/2013 5:07:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 10:20:00 AM

Project: Former Pace

Lab ID: 1304102-010

Matrix: Soil

Client Sample ID: GP-27-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0385		mg/Kg-dry	1	4/16/2013 5:36:00 PM
cis-1,3-Dichloropropene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Toluene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
trans-1,3-Dichloropropylene	ND	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,1,2-Trichloroethane	ND	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,3-Dichloropropane	ND	0.0481		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Tetrachloroethene (PCE)	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Dibromochloromethane	ND	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,2-Dibromoethane (EDB)	ND	0.00481		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Chlorobenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Ethylbenzene	ND	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
m,p-Xylene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
o-Xylene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Styrene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Isopropylbenzene	ND	0.0769		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Bromoform	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
n-Propylbenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Bromobenzene	ND	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,3,5-Trimethylbenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
2-Chlorotoluene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
4-Chlorotoluene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
tert-Butylbenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,2,3-Trichloropropane	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,2,4-Trichlorobenzene	ND	0.0481		mg/Kg-dry	1	4/16/2013 5:36:00 PM
sec-Butylbenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
4-Isopropyltoluene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,3-Dichlorobenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,4-Dichlorobenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
n-Butylbenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,2-Dichlorobenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0288		mg/Kg-dry	1	4/16/2013 5:36:00 PM
1,2,4-Trimethylbenzene	ND	0.0192		mg/Kg-dry	1	4/16/2013 5:36:00 PM
Hexachlorobutadiene	ND J	0.0961		mg/Kg-dry	1	4/16/2013 5:36:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 10:50:00 AM

Project: Former Pace

Lab ID: 1304102-011

Matrix: Soil

Client Sample ID: GP-27-14.5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260				Batch ID: 4436		Analyst: EM
Dibromomethane	ND	0.0399		mg/Kg-dry	1	4/16/2013 6:05:00 PM
cis-1,3-Dichloropropene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Toluene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
trans-1,3-Dichloropropylene	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,1,2-Trichloroethane	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,3-Dichloropropane	ND	0.0499		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Tetrachloroethene (PCE)	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Dibromochloromethane	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,2-Dibromoethane (EDB)	ND	0.00499		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Chlorobenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Ethylbenzene	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
m,p-Xylene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
o-Xylene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Styrene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Isopropylbenzene	ND	0.0799		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Bromoform	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,1,1,2,2-Tetrachloroethane	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
n-Propylbenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Bromobenzene	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,3,5-Trimethylbenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
2-Chlorotoluene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
4-Chlorotoluene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
tert-Butylbenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,2,3-Trichloropropane	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,2,4-Trichlorobenzene	ND	0.0499		mg/Kg-dry	1	4/16/2013 6:05:00 PM
sec-Butylbenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
4-Isopropyltoluene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,3-Dichlorobenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,4-Dichlorobenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
n-Butylbenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,2-Dichlorobenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0300		mg/Kg-dry	1	4/16/2013 6:05:00 PM
1,2,4-Trimethylbenzene	ND	0.0200		mg/Kg-dry	1	4/16/2013 6:05:00 PM
Hexachlorobutadiene	ND J	0.0998		mg/Kg-dry	1	4/16/2013 6:05:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 11:20:00 AM

Project: Former Pace

Lab ID: 1304102-012

Matrix: Soil

Client Sample ID: GP-26-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Volatile Organic Compounds by EPA Method 8260					Batch ID: 4436	Analyst: EM
Dibromomethane	ND	0.0306		mg/Kg-dry	1	4/16/2013 6:34:00 PM
cis-1,3-Dichloropropene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Toluene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
trans-1,3-Dichloropropylene	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,1,2-Trichloroethane	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,3-Dichloropropane	ND	0.0382		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Tetrachloroethene (PCE)	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Dibromochloromethane	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,2-Dibromoethane (EDB)	ND	0.00382		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Chlorobenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Ethylbenzene	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
m,p-Xylene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
o-Xylene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Styrene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Isopropylbenzene	ND	0.0611		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Bromoform	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,1,1,2,2-Tetrachloroethane	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
n-Propylbenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Bromobenzene	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,3,5-Trimethylbenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
2-Chlorotoluene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
4-Chlorotoluene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
tert-Butylbenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,2,3-Trichloropropane	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,2,4-Trichlorobenzene	ND	0.0382		mg/Kg-dry	1	4/16/2013 6:34:00 PM
sec-Butylbenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
4-Isopropyltoluene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,3-Dichlorobenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,4-Dichlorobenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
n-Butylbenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,2-Dichlorobenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0229		mg/Kg-dry	1	4/16/2013 6:34:00 PM
1,2,4-Trimethylbenzene	ND	0.0153		mg/Kg-dry	1	4/16/2013 6:34:00 PM
Hexachlorobutadiene	ND J	0.0764		mg/Kg-dry	1	4/16/2013 6:34:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 11:30:00 AM

Project: Former Pace

Lab ID: 1304102-013

Matrix: Soil

Client Sample ID: GP-26-6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0369		mg/Kg-dry	1	4/16/2013 7:07:00 PM
cis-1,3-Dichloropropene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Toluene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
trans-1,3-Dichloropropylene	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,1,2-Trichloroethane	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,3-Dichloropropane	ND	0.0461		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Tetrachloroethene (PCE)	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Dibromochloromethane	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,2-Dibromoethane (EDB)	ND	0.00461		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Chlorobenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Ethylbenzene	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
m,p-Xylene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
o-Xylene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Styrene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Isopropylbenzene	ND	0.0738		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Bromoform	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
n-Propylbenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Bromobenzene	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,3,5-Trimethylbenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
2-Chlorotoluene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
4-Chlorotoluene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
tert-Butylbenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,2,3-Trichloropropane	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,2,4-Trichlorobenzene	ND	0.0461		mg/Kg-dry	1	4/16/2013 7:07:00 PM
sec-Butylbenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
4-Isopropyltoluene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,3-Dichlorobenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,4-Dichlorobenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
n-Butylbenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,2-Dichlorobenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0277		mg/Kg-dry	1	4/16/2013 7:07:00 PM
1,2,4-Trimethylbenzene	ND	0.0184		mg/Kg-dry	1	4/16/2013 7:07:00 PM
Hexachlorobutadiene	ND	0.0922	J	mg/Kg-dry	1	4/16/2013 7:07:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 12:10:00 PM

Project: Former Pace

Lab ID: 1304102-015

Matrix: Soil

Client Sample ID: GP-29-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0233		mg/Kg-dry	1	4/16/2013 7:36:00 PM
cis-1,3-Dichloropropene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Toluene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
trans-1,3-Dichloropropylene	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,1,2-Trichloroethane	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,3-Dichloropropane	ND	0.0292		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Tetrachloroethene (PCE)	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Dibromochloromethane	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,2-Dibromoethane (EDB)	ND	0.00292		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Chlorobenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Ethylbenzene	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
m,p-Xylene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
o-Xylene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Styrene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Isopropylbenzene	ND	0.0467		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Bromoform	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
n-Propylbenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Bromobenzene	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,3,5-Trimethylbenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
2-Chlorotoluene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
4-Chlorotoluene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
tert-Butylbenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,2,3-Trichloropropane	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,2,4-Trichlorobenzene	ND	0.0292		mg/Kg-dry	1	4/16/2013 7:36:00 PM
sec-Butylbenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
4-Isopropyltoluene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,3-Dichlorobenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,4-Dichlorobenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
n-Butylbenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,2-Dichlorobenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0175		mg/Kg-dry	1	4/16/2013 7:36:00 PM
1,2,4-Trimethylbenzene	ND	0.0117		mg/Kg-dry	1	4/16/2013 7:36:00 PM
Hexachlorobutadiene	ND J	0.0584		mg/Kg-dry	1	4/16/2013 7:36:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



Analytical Report

WO#: 1304102

Date Reported: 4/18/2013

Client: PES Environmental, Inc.

Collection Date: 4/11/2013 12:30:00 PM

Project: Former Pace

Lab ID: 1304102-016

Matrix: Soil

Client Sample ID: GP-29-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: 4436

Analyst: EM

Dibromomethane	ND	0.0316		mg/Kg-dry	1	4/16/2013 8:05:00 PM
cis-1,3-Dichloropropene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Toluene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
trans-1,3-Dichloropropylene	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,1,2-Trichloroethane	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,3-Dichloropropane	ND	0.0395		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Tetrachloroethene (PCE)	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Dibromochloromethane	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,2-Dibromoethane (EDB)	ND	0.00395		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Chlorobenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,1,1,2-Tetrachloroethane	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Ethylbenzene	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
m,p-Xylene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
o-Xylene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Styrene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Isopropylbenzene	ND	0.0632		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Bromoform	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,1,2,2-Tetrachloroethane	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
n-Propylbenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Bromobenzene	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,3,5-Trimethylbenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
2-Chlorotoluene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
4-Chlorotoluene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
tert-Butylbenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,2,3-Trichloropropane	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,2,4-Trichlorobenzene	ND	0.0395		mg/Kg-dry	1	4/16/2013 8:05:00 PM
sec-Butylbenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
4-Isopropyltoluene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,3-Dichlorobenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,4-Dichlorobenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
n-Butylbenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,2-Dichlorobenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,2-Dibromo-3-chloropropane	ND	0.0237		mg/Kg-dry	1	4/16/2013 8:05:00 PM
1,2,4-Trimethylbenzene	ND	0.0158		mg/Kg-dry	1	4/16/2013 8:05:00 PM
Hexachlorobutadiene	ND	J 0.0790		mg/Kg-dry	1	4/16/2013 8:05:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 RL Reporting Limit

D Dilution was required
 H Holding times for preparation or analysis exceeded
 ND Not detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits



3600 Fremont Ave. N.
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PES Environmental, Inc.
Kelly Rankich
1215 Fourth Avenue, Suite 1350
Seattle, Washington 98161

RE: Former Pace
Lab ID: 1304101

April 18, 2013

Attention Kelly Rankich:

Fremont Analytical, Inc. received 9 sample(s) on 4/12/2013 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method 8260

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "M. Dee".

Michael Dee
Sr. Chemist / Principal



Date: 04/18/2013

CLIENT: PES Environmental, Inc.
Project: Former Pace
Lab Order: 1304101

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1304101-001	GP-31-W	04/10/2013 2:05 PM	04/12/2013 1:12 PM
1304101-002	GP-30-W	04/10/2013 3:00 PM	04/12/2013 1:12 PM
1304101-003	GP-28-W	04/10/2013 3:30 PM	04/12/2013 1:12 PM
1304101-004	GP-32-W	04/11/2013 1:00 PM	04/12/2013 1:12 PM
1304101-005	GP-26-W	04/11/2013 3:50 PM	04/12/2013 1:12 PM
1304101-006	GP-27-W	04/11/2013 2:40 PM	04/12/2013 1:12 PM
1304101-007	GP-29-W	04/11/2013 3:30 PM	04/12/2013 1:12 PM
1304101-008	GP-27A-W	04/11/2013 4:10 PM	04/12/2013 1:12 PM
1304101-009	Trip Blank	04/05/2013 12:00 AM	04/12/2013 1:12 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: PES Environmental, Inc.**Project:** Former Pace

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Analytical Report

WO#: 1304101
Date Reported: 4/18/2013

CLIENT: PES Environmental, Inc.

Project: Former Pace

Lab ID: 1304101-001

Collection Date: 4/10/2013 2:05:00 PM

Client Sample ID: GP-31-W

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R8155

Analyst: EM

Vinyl chloride	ND	0.200		µg/L	1	4/16/2013 7:42:00 AM
Surr: Dibromofluoromethane	104	72.1-122		%REC	1	4/16/2013 7:42:00 AM
Surr: Toluene-d8	92.0	62.1-129		%REC	1	4/16/2013 7:42:00 AM
Surr: 1-Bromo-4-fluorobenzene	94.5	66.8-124		%REC	1	4/16/2013 7:42:00 AM

Lab ID: 1304101-002

Collection Date: 4/10/2013 3:00:00 PM

Client Sample ID: GP-30-W

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R8155

Analyst: EM

Vinyl chloride	0.910	0.200		µg/L	1	4/16/2013 8:08:00 AM
Surr: Dibromofluoromethane	104	72.1-122		%REC	1	4/16/2013 8:08:00 AM
Surr: Toluene-d8	92.3	62.1-129		%REC	1	4/16/2013 8:08:00 AM
Surr: 1-Bromo-4-fluorobenzene	93.8	66.8-124		%REC	1	4/16/2013 8:08:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
RL Reporting Limit

D Dilution was required
H Holding times for preparation or analysis exceeded
ND Not detected at the Reporting Limit
S Spike recovery outside accepted recovery limits



CLIENT: PES Environmental, Inc.

Project: Former Pace

Lab ID: 1304101-003

Collection Date: 4/10/2013 3:30:00 PM

Client Sample ID: GP-28-W

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R8155

Analyst: EM

Vinyl chloride	1.20	0.200		µg/L	1	4/16/2013 8:34:00 AM
Surr: Dibromofluoromethane	105	72.1-122		%REC	1	4/16/2013 8:34:00 AM
Surr: Toluene-d8	92.5	62.1-129		%REC	1	4/16/2013 8:34:00 AM
Surr: 1-Bromo-4-fluorobenzene	93.3	66.8-124		%REC	1	4/16/2013 8:34:00 AM

Lab ID: 1304101-004

Collection Date: 4/11/2013 1:00:00 PM

Client Sample ID: GP-32-W

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R8155

Analyst: EM

Vinyl chloride	ND	0.200		µg/L	1	4/16/2013 9:01:00 AM
Surr: Dibromofluoromethane	103	72.1-122		%REC	1	4/16/2013 9:01:00 AM
Surr: Toluene-d8	90.4	62.1-129		%REC	1	4/16/2013 9:01:00 AM
Surr: 1-Bromo-4-fluorobenzene	91.4	66.8-124		%REC	1	4/16/2013 9:01:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
RL Reporting Limit

D Dilution was required
H Holding times for preparation or analysis exceeded
ND Not detected at the Reporting Limit
S Spike recovery outside accepted recovery limits



CLIENT: PES Environmental, Inc.

Project: Former Pace

Lab ID: 1304101-005

Collection Date: 4/11/2013 3:50:00 PM

Client Sample ID: GP-26-W

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R8155

Analyst: EM

Vinyl chloride	ND	0.200		µg/L	1	4/16/2013 9:27:00 AM
Surr: Dibromofluoromethane	104	72.1-122		%REC	1	4/16/2013 9:27:00 AM
Surr: Toluene-d8	91.8	62.1-129		%REC	1	4/16/2013 9:27:00 AM
Surr: 1-Bromo-4-fluorobenzene	91.0	66.8-124		%REC	1	4/16/2013 9:27:00 AM

Lab ID: 1304101-006

Collection Date: 4/11/2013 2:40:00 PM

Client Sample ID: GP-27-W

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R8155

Analyst: EM

Vinyl chloride	ND	0.200		µg/L	1	4/16/2013 9:54:00 AM
Surr: Dibromofluoromethane	107	72.1-122		%REC	1	4/16/2013 9:54:00 AM
Surr: Toluene-d8	93.1	62.1-129		%REC	1	4/16/2013 9:54:00 AM
Surr: 1-Bromo-4-fluorobenzene	91.6	66.8-124		%REC	1	4/16/2013 9:54:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
RL Reporting Limit

D Dilution was required
H Holding times for preparation or analysis exceeded
ND Not detected at the Reporting Limit
S Spike recovery outside accepted recovery limits



CLIENT: PES Environmental, Inc.

Project: Former Pace

Lab ID: 1304101-007

Collection Date: 4/11/2013 3:30:00 PM

Client Sample ID: GP-29-W

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R8155

Analyst: EM

Vinyl chloride	ND	0.200		µg/L	1	4/16/2013 10:21:00 AM
Surr: Dibromofluoromethane	106	72.1-122		%REC	1	4/16/2013 10:21:00 AM
Surr: Toluene-d8	92.4	62.1-129		%REC	1	4/16/2013 10:21:00 AM
Surr: 1-Bromo-4-fluorobenzene	91.1	66.8-124		%REC	1	4/16/2013 10:21:00 AM

Lab ID: 1304101-009

Collection Date: 4/5/2013

Client Sample ID: Trip Blank

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Field Parameters

Batch ID:

Analyst:

SACODE	TB
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Volatile Organic Compounds by EPA Method 8260

Batch ID: R8155

Analyst: EM

Vinyl chloride	ND	0.200		µg/L	1	4/16/2013 12:52:00 AM
Surr: Dibromofluoromethane	99.1	72.1-122		%REC	1	4/16/2013 12:52:00 AM
Surr: Toluene-d8	89.8	62.1-129		%REC	1	4/16/2013 12:52:00 AM
Surr: 1-Bromo-4-fluorobenzene	90.1	66.8-124		%REC	1	4/16/2013 12:52:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1304101
CLIENT: PES Environmental, Inc.
Project: Former Pace

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: 1304105-001AMS	SampType: MS	Units: µg/L	Prep Date: 4/16/2013	RunNo: 8155							
Client ID: BATCH	Batch ID: R8155		Analysis Date: 4/16/2013	SeqNo: 162624							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	19.3	0.200	20.00	0	96.5	45.6	149				
Surr: Dibromofluoromethane	53.4		50.00		107	72.1	122				
Surr: Toluene-d8	55.1		50.00		110	62.1	129				
Surr: 1-Bromo-4-fluorobenzene	53.7		50.00		107	66.8	124				

Sample ID: 1304113-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 4/16/2013	RunNo: 8155							
Client ID: BATCH	Batch ID: R8155		Analysis Date: 4/16/2013	SeqNo: 162629							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.200						0	0	30	
Surr: Dibromofluoromethane	51.4		50.00		103	72.1	122		0		
Surr: Toluene-d8	43.9		50.00		87.8	62.1	129		0		
Surr: 1-Bromo-4-fluorobenzene	44.2		50.00		88.4	66.8	124		0		

Sample ID: LCS-R8155	SampType: LCS	Units: µg/L	Prep Date: 4/15/2013	RunNo: 8155							
Client ID: LCSW	Batch ID: R8155		Analysis Date: 4/15/2013	SeqNo: 162635							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	17.2	0.200	20.00	0	85.9	56.2	130				
Surr: Dibromofluoromethane	51.2		50.00		102	72.1	122				
Surr: Toluene-d8	54.8		50.00		110	62.1	129				
Surr: 1-Bromo-4-fluorobenzene	53.5		50.00		107	66.8	124				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1304101
CLIENT: PES Environmental, Inc.
Project: Former Pace

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260

Sample ID: MB-R8155	SampType: MBLK	Units: µg/L	Prep Date: 4/15/2013	RunNo: 8155							
Client ID: MBLKW	Batch ID: R8155		Analysis Date: 4/15/2013	SeqNo: 162636							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.200									
Surr: Dibromofluoromethane	49.1		50.00		98.2	72.1	122				
Surr: Toluene-d8	44.3		50.00		88.5	62.1	129				
Surr: 1-Bromo-4-fluorobenzene	44.1		50.00		88.2	66.8	124				

Qualifiers:
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit
R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits

Client Name: **PES**

 Work Order Number: **1304101**

 Logged by: **Clare Griggs**

 Date Received: **4/12/2013 1:12:00 PM**

Chain of Custody

1. Were custodial seals present? Yes No Not Required
2. Is Chain of Custody complete? Yes No Not Present
3. How was the sample delivered? Client

Log In

4. Coolers are present? Yes No NA
5. Was an attempt made to cool the samples? Yes No NA
6. Were all coolers received at a temperature of >0° C to 10.0°C Yes No NA
7. Sample(s) in proper container(s)? Yes No
8. Sufficient sample volume for indicated test(s)? Yes No
9. Are samples properly preserved? Yes No
10. Was preservative added to bottles? Yes No NA
11. Is there headspace present in VOA vials? Yes No NA
12. Did all sample containers arrive in good condition?(unbroken) Yes No
13. Does paperwork match bottle labels? Yes No
14. Are matrices correctly identified on Chain of Custody? Yes No
15. Is it clear what analyses were requested? Yes No
16. Were all holding times able to be met? Yes No

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks/Disrepancies

Item Information

Item #	Temp °C	Condition
Cooler 1	4.1	Good
Cooler 2	2.4	Good
Tmp Blk 1	4.7	Good
Tmp Blk 2	1.2	Good

Chain of Custody Record



3600 Fremont Ave N.
Seattle, WA 98103

Tel: 206-352-3790
Fax: 206-352-7178

Client: **SAT PES**

Address: **1215 4TH AVE SE**

City, State, Zip: **SEA, WA 98103**

Reports To (RM): **Kelly Rankick**

Lab oratory Project No (Internal): **1304101**

Page: **1** of: **1**

Project Name: **FORMER PACE**

Location: **KIRKLAND WA**

Collected by: **DOODY**

Email: **KRANKICK@PES.COM**

Project No: **1006.008.02**

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)	Analysis Method	Result	Notes
1 GP-31-W	4/10	1405	WTR	GC/MS for EPA 8210	X	SEE PM Kelly RANKICK FOR ANALYSES! HOLD!
2 GP-30-W	4/10	1500		GC/MS for EPA 8210	X	
3 GP-28-W	4/10	1530		GC/MS for EPA 8210	X	
4 GP-32-W	4/11	1300		GC/MS for EPA 8210	X	
5 GP-26-W	4/11	1350		GC/MS for EPA 8210	X	
6 GP-27-W	4/11	1440		GC/MS for EPA 8210	X	
7 GP-29-W	4/11	1530		GC/MS for EPA 8210	X	
8 GP-27A-W	4/11	1610		GC/MS for EPA 8210	X	
9 TRIP						
10						

*Metals Analysis (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sm Ti Tl U V Zn

**Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Fluoride Nitrate+Nitrite

Sample Disposal: Return to Client Disposal by Lab (A) (see may be assessed 7 samples are retained after 30 days.)

Relinquished: **[Signature]** Date/Time: **4/12/13**

Relinquished: **[Signature]** Date/Time: **4/12/13 1:12pm**

Special Remarks: **SEE CHAIN MARKED FOR ANALYTICAL REQUESTS.**

TA* -> Next Day 2 Day 3 Day STD

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MEMORANDUM

TO: Project File **DATE:** April 22, 2013
FROM: Jerry Harris
SUBJECT: Laboratory Data Validation Review
PROJECT: Former Pace Facility Kirkland, WA
PROJECT #: 1006.008.02.002
TASK: April 10 and 11, 2013 Groundwater Samples
LAB: Fremont Analytical Service Request No. 1304101

Groundwater sampling was conducted at the former Pace facility in Kirkland, Washington on April 10 and 11, 2013. Seven (7) groundwater samples were collected from the site. In addition, one blind field duplicate (sample ID GP-32-W) was collected with primary sample GP-26-W. A trip blank was also prepared by the laboratory, traveled with the samples, and returned to the laboratory for analysis.

The samples were analyzed for vinyl chloride (VC) by United States Environmental Protection Agency (USEPA) Method 8260. The VC analyses were performed in one primary analysis group (ID 8155). Laboratory analytical services were provided by Fremont Analytical (FA) of Seattle, Washington. FA Project number: 1304101.

The quality assurance review of the groundwater samples data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (USEPA, 1999).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested.

Sample Collection and Preservation

The samples were collected in appropriately preserved containers supplied by the analytical laboratory. The laboratory sample log-in checklist reported that the samples were received in good condition. The laboratory received the samples in two coolers at cooler temperatures of 4.1

and 2.4 degrees centigrade (°C). Temperature blanks were also included in each cooler and the blank temperatures were 4.7 and 1.2°C, respectively. The cooler temperatures and the cooler #1 blank temperature were within the USEPA recommended temperature range of $4^{\circ} \pm 2^{\circ}\text{C}$. The temperature of the blank in the second cooler was below the lower limit of the recommended range but above freezing. The sample log-in checklist indicated that the samples were properly cooled during shipment and no potential issues were identified (i.e. frozen samples, cracked or broken sample containers, etc.) to suggest that the low blank temperature of cooler #2 adversely impacted the samples. Based upon the information provided by the laboratory and the cooler temperatures, the low blank temperature from cooler #2 is not considered sufficient cause to warrant qualification of the data. No data qualifications were warranted based upon the laboratory receipt temperatures.

Holding Times

USEPA Method 8260

The analyses for VC were performed within the recommended 14 day holding time limit for water samples. No data were qualified based upon holding times.

Initial Calibration

Hard copies of the initial calibration verification (ICV) data for this project are not required in the data deliverable. The laboratory is required to discuss discrepancies in initial calibration results associated with the project analyses if they occur. No discrepancies were reported; therefore no data qualifications were warranted.

Continuing Calibration

Hard copies of the continuing calibration verification (CCV) data for this project are not required in the data deliverable. The laboratory is required to discuss discrepancies in continuing calibration results associated with the project analyses. No discrepancies were reported; therefore no data qualifications were warranted.

Method Blank Results

USEPA Method 8260

One method blank was analyzed with the single analysis group. This meets the required method blank frequency for the analytical method. The method blank results did not report VC at a concentration at or above the MRL. No data qualifications were warranted.

Trip Blank Results

USEPA Method 8260

One trip blank was analyzed with the single analysis group. This meets the required trip blank frequency for the project. The trip blank results did not report VC at a concentration at or above the MRL. No data qualifications were warranted.

Field Duplicate Analyses

USEPA Method 8260

One blind field duplicate was prepared from a project sample and analyzed with the single analysis group. This meets the required blind duplicate frequency for the project. The blind field duplicate (ID GP-32-W) was prepared with project sample GP-26-W. VC was not detected in the primary sample or the blind field duplicate. Based upon this information, the field duplicate relative percent difference (RPD) met the RPD control limit of 20 for duplicates. No data qualifications were warranted.

Laboratory Duplicate Analyses

USEPA Method 8260

The laboratory prepared one batch (non-project) duplicate sample for analysis group 8155. The primary and laboratory duplicate pair was analyzed for VC by USEPA Method 8260. The RPD for VC was within the laboratory control criterion of 30 RPD. No data were qualified.

Surrogate Recoveries

USEPA Method 8260

The surrogate %R results for all USEPA Method 8260 soil and water samples, laboratory control samples, matrix spikes, duplicates and method blanks were within the laboratory surrogate control limits. No data qualifications were warranted.

Laboratory Control Samples

USEPA Method 8260

One laboratory control sample (LCS) was prepared and analyzed for the single analytical batch. The LCS %R for VC was within the laboratory control limit. No qualifications were warranted.

Matrix Spike/Matrix Spike Duplicates

USEPA Method 8260

One batch (non-project) MS was prepared and analyzed with the project samples for the single analysis batch. A sample duplicate was analyzed in lieu of a MSD for the project. This is acceptable. The MS %R for VC in analysis batch 8155 was within the laboratory control limit. No qualifications were warranted.

Other Quality Control Issues

No other laboratory quality control issues were identified in the laboratory report.

Quantitation Limits

The MRLs were acceptable for the project; therefore, no data qualifiers were assigned.

Data Assessment

No data were qualified. All data are judged to be acceptable for their intended use.