Remedial System Evaluation Report
October 2009 through March 2010

Parkwater Railyard
Spokane, Washington

for
BNSF Railway Company

May 20, 2010

GeoEngineers
Earth Science + Technology

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File No. 0506-117-11

May 20, 2010

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cc: Sandra Treccani, Washington State Department of Ecology; Craig Trueblood, K&L Gates

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1.0 INTRODUCTION

This document presents an evaluation of the operating soil and groundwater remedial system (remedial system) at the BNSF Parkwater site for the 6-month period from October 2009 through March 2010. The remedial system is located near historic and current fueling operations at the BNSF Railway Company (BNSF) Parkwater Rail Yard Facility (Parkwater) in Spokane, Washington. This document is intended to fulfill the requirements of the Agreed Order as described in the *Interim Action Work Plan* (IAWP) dated September 30, 2009.

Components of this document include: 1) site background; 2) the objectives and a description of the remedial system; 3) a discussion of the remedial system operation for the period between October 2009 and March 2010; 4) remedial system monitoring and vapor sampling results; 5) estimated petroleum hydrocarbon removal rates and volumes; and 6) an overall evaluation of the remedial system effectiveness.

The approximate location of Parkwater is shown in the Vicinity Map, Figure 1. Locations of existing wells, buildings, and other features are shown in Site Plan, Figure 2. The general location of the interim remediation system is shown in SVE and Air Sparge System Diagram, Figure 3. Information provided in the **Site Background** section of this report is discussed in greater detail in *Environmental Site Assessment and Remedial Well Installation Report* (GeoEngineers 2008).

2.0 SITE BACKGROUND

Parkwater is an approximately 130-acre active railyard located at 5202 East Trent Avenue in Spokane, Washington. Parkwater was initially constructed in the early 1900's as the main roundhouse and terminal facility for the Northern Pacific Railroad (Northern Pacific Railroad and Great Northern Railway merged in 1972). Parkwater was the central operations facility for the Northern Pacific Railroad from the early 1910's to 1959, when the roundhouse was demolished. During this time period, Parkwater supported several rail operations including fueling, maintenance, intermodal operations and switching. Parkwater continued to support many of these operations in a lesser capacity from 1959 to 2004, when BNSF opened the new fueling facility in Hauser, Idaho. Presently, Parkwater provides refueling, maintenance and switching operations.

Parkwater is located along an active BNSF east-west main line and is the principal BNSF railyard in the Spokane area. The site measures approximately 1¼ miles (east-west) by ¼ mile (north-south) and includes numerous site buildings and tracks as shown on Figure 2. The site generally is level and situated at about Elevation 1,950 feet, Mean Sea Level Datum (MSL). Parkwater is located about ½-mile south of the Spokane River and sited above the Spokane Valley-Rathdrum Prairie Aquifer, which is designated as a sole-source aquifer that provides drinking water to area residents and businesses.

The east-central portion of Parkwater, about 500 feet west-southwest of the turntable and between the Materials Storage Building and Western Fruit Express (WFE) Maintenance Facility, historically was used for locomotive fueling. Figure 2 presents the general location of the fueling area.

Several former underground storage tanks (USTs), including a 17,000-gallon and a 25,000-gallon diesel USTs, and an 18,000-gallon waste oil UST were located both south and northwest of the current fueling area. These three USTs were removed in December 1990; the former locations of the two diesel USTS are shown in Figure 3.

Vadose-zone contamination was observed in several borings advanced near the former USTs, as shallow as 12 feet below grade to groundwater. Samples collected from several groundwater monitoring wells located near the former USTs and downgradient (west-northwest) of the USTs have contained detectable concentrations of petroleum hydrocarbons (primarily within the diesel range). Samples from eleven groundwater monitoring wells have contained diesel range petroleum hydrocarbons (DRPH) concentrations exceeding the MTCA Method A cleanup criteria of 500 micrograms per liter (µg/L) on at least two occasions; these wells include MW-1 through MW-3, MW-5 through MW-9, MW-14, MW-18, and MW-21. Light non-aqueous phase liquid (LNAPL) has been observed on the water table in groundwater monitoring wells MW-2 and MW-3; the thickness of LNAPL has ranged from about 1/16- to ½-inch; LNAPL has not been observed in other wells. The remedial system was installed to address soil and groundwater impacts at the source area.

3.0 REMEDIAL SYSTEM OBJECTIVES

The purpose of the remedial system is to lower the concentrations of diesel in soil and groundwater near the refueling area. This remedial system focuses on the source area and might not address all contamination related to UST releases. Based on the success of the treatment system, the system might be expanded or new remedial systems of a similar nature might be installed in other portions of the site requiring remediation.

4.0 REMEDIAL SYSTEM DESCRIPTION

Soil vapor extraction (SVE), bioventing and air sparging (AS) enhanced with ozone were deemed appropriate remedial alternatives to address diesel-contaminated soil and groundwater near the former USTs based on the results of the single and multiple well SVE and AS pilot testing discussed in the IAWP (GeoEngineers, 2009). The SVE and AS systems were put into operation as an interim remedial action on March 25, 2009.

The SVE and bioventing system consists of two 15-horsepower (hp) regenerative blowers (blower No. 1 and blower No. 2) connected by a manifold to eight wells (wells VW-1 through VW-6, and groundwater monitoring wells MW-2 and MW-3). Each blower moves from 250 to 410 cubic feet per minute (cfm) under vacuums ranging from 2 to 5 inches of water. Air extracted from the SVE wells passes through two activated carbon filters in series before discharge. The system operates on a dual-piping system, such that wells can be converted from SVE to bioventing (introducing air into the vadose zone) based on monitoring results.

The air sparging system consists of an oxygen concentrator and ozone generation system. Air is pulled through a 7.5-hp rotary screw air compressor with a flow rate of 120 cfm at 12 pounds per square inch gauge (psig). The compressed air passes through a desiccating air dryer to an oxygen concentrator. The oxygen concentrator supplies 75 standard cubic feet per hour (scfh) of oxygen at 50 psig to a 60-gallon storage tank.

Two ozone generators each capable of producing about 4.5 pounds of ozone per day are connected to the air sparge manifold. A separate sparge compressor feeds the manifold with ambient air to act as the carrier gas for the ozone. The solenoid valves are automatically controlled to inject ozone into the subsurface through 11 AS wells (AS-1 through AS-12; there is no AS-8). Only one solenoid valve is open at any time; air and ozone is injected into each well for a period of an hour, before rotating to the next well.

Further details, including remedial system components and design, are included in the IAWP (GeoEngineers, 2009).

5.0 REMEDIAL SYSTEM OPERATION – OCTOBER 2009 TO MARCH 2010

During this progress reporting period, various malfunctions have limited the continuous and efficient operation of the AS and SVE/bioventing systems. These malfunctions and solutions to address the problems are discussed in Sections 5.1 and 5.2. Field assessment and maintenance records are included in Appendix A. Tables A-1 through A-3 summarize the field monitoring data.

5.1. SVE/Bioventing System Operation

Operation of the SVE/bioventing system also was hampered by mechanical malfunctions during this progress reporting period. During routine monitoring in February 2010, metal grinding noises were heard from blower No. 2. A mechanic from Cascade Machinery and Electric Inc. (Cascade) assessed the blower and determined that the fan was worn from coming into contact with fan cover. The fan was replaced, the cover remounted and the blower returned to service on March 22, 2010. On March 26, 2010, the electric motor for blower No. 2 overheated and seized. At the end of this reporting period, blower No. 2 was not operational and blower No. 1 was operating in SVE mode. Despite the malfunctions, at least one SVE blower has been operating on a consistent basis, extracting vapors from the SVE wells. As of March 16, 2010, the run time of the blower system measured 5,786 hours for blower No. 1 and 5,854 hours for blower No. 2.

5.2. AS System Operation

Malfunctions have prevented the AS system from regular operation. In September 2009, a power surge damaged the transformer on the desiccating air dryer. The air dryer was taken to Cascade for service. The AS system was out of service until December 28, 2009 because of difficulties obtaining replacement parts for the dryer.

In October 2009, an ozone leak was detected from ozone generator No. 1. While the system was shut down for air dryer repairs, ozone generator No. 1 was shipped back to the manufacturer for service. The ozone generator was re-installed on December 28, 2009 with the air dryer.

The AS system operated within normal parameters from December 28, 2009 until the week ending February 26, 2010 when another ozone leak caused an automatic system shutdown. The system was brought back on-line on February 26, 2010, but the ozone generators were manually shut down and the system continued sparging using oxygen and ambient air. Investigation to determine the cause of the ozone leak was hampered by a second system shut down, on March 19, 2010, from low air pressure. Repeated attempts to re-start the system have been unsuccessful. The

cause of the low air pressure and the ozone leak are being assessed. Currently, the AS system is not operational.

Malfunctioning equipment and shutdown conditions have limited each of the AS wells to about 621 hours of injection since startup to March 31, 2010. During an unknown fraction of these hours, the wells have been injected with ambient air while the ozone generators were not operating.

6.0 REMEDIATION SYSTEM MONITORING

Weekly monitoring of the remediation system has been conducted since startup on March 25, 2009. Parameters related to performance have been measured from sample ports on each SVE line near the manifold and at the inlet and outlet to the carbon filters. The parameters include: relative volatile organic compounds (VOCs) concentration, oxygen and carbon dioxide concentrations, temperature and pressure/vacuum. Additionally, pressure, temperature, and flow have been recorded from the meters included in both the AS and SVE systems. Parameters were measured to evaluate the effectiveness of the treatment system and to verify that VOCs are not released from the exhaust stack. Figures 4 through 6 present weekly comparisons of the VOC, oxygen, and carbon dioxide concentrations, respectively, measured at each monitoring point. Figure 7 shows the trends in the average VOC, oxygen, and carbon dioxide concentrations as measured at the monitoring points in the SVE lines.

6.1. Monitoring Results

During this reporting period, VOC concentrations measured at individual well ports with a photoionization detector (PID) range between 0 and 45.6 parts per million (ppm). VOC concentrations were measured at concentrations in the range of 0.0 to 2.6 ppm from the combined manifold. Measurements from SVE well VW-6 continues to provide the highest average concentration of VOCs, 13.5 ppm, since May 20, 2009. Measurements from wells VW-1, VW-2, MW-2 and MW-3 have had the lowest average VOC concentrations. The low average concentrations from MW-3 are skewed because the monitoring well is screened into the water table; therefore, the well is shut off when water is observed in the manifold. Since May 20, 2009, VOC readings from the SVE wells have averaged between 3 to 5.5 ppm.

As of the end of this reporting period, the carbon filters are nearly saturated and relatively low VOC measurements, in the range of 0.2 to 19.6 ppm, have been recorded at the exhaust stack monitoring point. An anomalous measurement of 101 ppm was recorded on March 16, 2010. As of May 20, 2009 measurements at the exhaust stack average 2.9 ppm, including the March 16, 2010 outlier. In general, the VOC concentration data suggests a downward trend since system startup, as shown in Figures 4 and 7.

During this reporting period, oxygen, measured as a percentage of the volume of air at individual well ports, ranged from 16.1 percent to 21.3 percent. Average oxygen concentrations for each individual well point were measured in the range of 18 to 20 percent. Since May 7, 2009 average concentrations at the combined manifold ranged between 17.2 and 21.3 percent. In general, oxygen concentration data suggests an upward trend since system startup, as shown in Figures 5 and 7.

During this reporting period, carbon dioxide concentrations, measured as a percentage of the volume of air at individual well ports, ranged between 0 and 3.6 percent. Average Carbon dioxide concentrations for each individual well monitoring point were measured in the range of 0.8 to 2.0 percent. Since May 7, 2009 average concentrations at the combined manifold ranged between 0 and 5 percent. In general, carbon dioxide concentration data suggests a downward trend since system startup, as shown in Figures 6 and 7.

7.0 VAPOR SAMPLING

Vapor samples have been collected from the inlet to the carbon filters and from the exhaust stack downstream from the carbon filters beginning in July 2009 when the remedial system was regularly operating with minimal shutdowns. The purposes of the sampling are to monitor the relative extracted concentrations of petroleum hydrocarbons and VOCs; quantify the removal efficiency of diesel-range hydrocarbons as vapors, and to verify that VOC-impacted vapors are not being released to the atmosphere at concentrations exceeding the air discharge permit. Samples from the carbon filter inlet are collected on a bi-weekly basis and samples from the exhaust stack are collected quarterly. Samples are collected in a 6-liter summa canister and a carbon tube and are analyzed using Method TO-15 for VOCs, including total hydrocarbons (THC) as gasoline, and NIOSH 1550 for THC as diesel. Sample results are summarized in Table 1, Chemical Analytical Results - Vapor Samples.

Samples were collected from a sample port installed in the inlet pipe to the activated carbon filters and from the exhaust stack. Sampling procedures for the NIOSH 1550 analysis consist of collecting about 8 liters of air through the carbon tube at a flow rate of 0.2 liters per minute over a 40-minute period. A composite sample is collected in the summa canisters by using a flow regulator to collect a sample over a 30-minute period.

7.1. Chemical Analytical Results

Ten carbon inlet samples and two exhaust stack samples were collected during this reporting period. THC as diesel was not detected in the samples at concentrations greater than the laboratory method reporting limit. THC as diesel was detected in the exhaust stack sample VP-EX-012710 at a concentration of 13,000 micrograms per cubic meter (µg/m^3). THC as gasoline was detected in the carbon inlet samples at concentrations ranging from 4,380 µg/m^3 to 156,000 µg/m^3. The lowest concentration, 4,380 µg/m^3 was measured on February 12, 2010. THC as gasoline was also detected in samples VP-EX-102209 and VP-EX-102710, obtained from the exhaust port, at concentrations of 27,300 µg/m^3 and 11,000 µg/m^3, respectively. Various other VOCs were detected at generally low concentrations, as summarized in Table 1, in the carbon inlet samples and the exhaust samples.

7.2. Petroleum Removal Rates

The weight of petroleum hydrocarbons extracted by the SVE system was calculated based on the run time between samples and an average concentration of THC as gasoline from the samples taken at both the beginning and end of the sampling period. The air flow was also measured with one and both blowers operating. The weight of THC as gasoline removed between each sample was calculated by multiplying the average concentrations and run times between samples by the flow

rate and the appropriate unit conversions. This methodology only estimates physical removal of petroleum hydrocarbons in the vapor phase and does not account for treatment by natural attenuation. THC as gasoline and as diesel were used to calculate the hydrocarbon removal as only minimal VOC concentrations have been detected. The following equation was used to calculate the hydrocarbon removal:

$W = C \times Q \times T \times c$

W = Weight of THC as gasoline and diesel removed during a given period (grams)

C = Average vapor concentration of THC as gasoline from samples collected at the beginning and end of the sampling period ($\mu g/m^3$)

Q = Air flow rate in SCFM

T = Run time of the blowers during the sample period (hours)

c = A conversion factor, calculated to be 1.6989×10^{-6}

Through March 16, 2010, approximately 3,016 pounds of THC as gasoline and diesel in the vapor phase have been removed since system startup. Over the approximately 244 days of system operation, startup to the March 16, 2010, the system has averaged about 12.3 pounds per day removed. Assuming a gallon of diesel weighs 7 pounds, about 427 gallons have been removed by the SVE system at a rate of about 1.75 gallons per day. Table 2, Hydrocarbon Removal Calculations summarizes the calculations used to determine the quantity of hydrocarbons removed.

8.0 CONCLUSIONS

The remedial system is successfully removing petroleum hydrocarbons from subsurface soil and groundwater. At least 3,016 pounds of petroleum hydrocarbons have been extracted through the SVE system through March 16, 2010, and as discussed in the December 11, 2009 Remedial System Evaluation Report, this amount likely is under reported because vapor samples were not collected during the intermittent startup period. Typically, removal rates are very high in the first weeks and months of an operating SVE system, which then decrease through the operational period of the remedial system. The data supports this assertion, as we have observed an overall decline in removal rates between since system startup.

Based on field measurements, carbon dioxide concentrations have been observed at percentages above background conditions and oxygen concentrations have been observed at percentages below background conditions, indicating biological degradation of petroleum hydrocarbons continues to be occurring. However, oxygen concentrations have been steadily increasing while carbon dioxide concentrations have been decreasing, which indicates biodegradation activity might be decreasing overall. Coupled with the overall decline in removal rates since startup, further emphasis in the bioventing mode will be conducted in the near future.

Analytical results from groundwater samples collected in wells downgradient from the remedial system indicate petroleum hydrocarbons have not been detected at concentrations greater than MTCA Method A cleanup levels since remedial system startup. Planned activities associated with the remedial system during the next reporting period are to diagnose and repair problems with the AS System.

The next 6-month remedial system evaluation report will encompass the period from April 2010 through September 2010 and be provided in October 2010. A brief update of the remedial systems progress will be provided in the next quarterly progress report in July 2010.

9.0 REFERENCES

GeoEngineers, Inc., "Environmental Site Assessment and Remedial Well Installation Report, BNSF, Spokane, Washington" GEI File No. 0506-117-05, 2008.

GeoEngineers, Inc., "Interim Action Work Plan, BNSF, Spokane, Washington" GEI File No. 0506-117-09, 2009.

TABLES

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Table 1

Chemical Analytical Results: Vapor Samples

BNSF Parkwater Railyard
Spokane, Washington

Sample ID	Date Collected	NIOSH 1550 (µg/m³)[1]	TO-15 MSV Air (µg/m³)[2]																							
		THC as Diesel	1,1,1-Trichloroethane	1,2-Dichloroethane	1,3,5-Trimethylbenze	1,2,4 -Trimethylbenzene	2,2,4-Trimethylpentane	2-Butanone (MEK)	2-Propanol	Acetone	Benzene	Carbon Disulfide	Cyclohexane	Dichlorodifluoromethane	Ethanol	Ethylbenzene	Ethyl acetate	Methylene Chloride	Naphthalene	Propylene	THC as Gas	Tetrachloroethene	Tetrahydorfuran	Toluene	Trichloroflouromethane	Total Xylenes	Vinyl acetate	n-Hexane
Carbon Filter Inlet Samples																											
VP-CI-070909	07/09/09	517,885	7.77	ND	9.49	ND	66.5	15.6	ND	9.90	ND	16.5	27.3	ND	8.81	ND	ND	ND	5.06	24.7	117,000	13.1	6.30	ND	7.42	ND	ND	ND
VP-CI-082709	08/27/09	ND	ND	ND	ND	ND	77.4	10.5	11.2	14.5	ND	13.6	57.7	ND	97.5	ND	20.1	51.9	ND	15.6	64,200	15.9	ND	21.1	8.57	ND	ND	3.94
VP-CI-091109	09/11/09	ND	ND	ND	ND	ND	123	2.88	ND	ND	ND	12.7	45.1	ND	ND	ND	ND	ND	ND	ND	62,500	20.7	ND	ND	9.14	ND	ND	ND
VP-CI-092409	09/24/09	ND	ND	ND	ND	ND	64.1	3.30	ND	13.0	2.66	5.06	14.3	ND	14.9	ND	ND	7.42	ND	7.00	24,400	6.89	3.30	4.98	5.14	ND	ND	7.88
VP-CI-100909	10/09/09	ND	3.83	ND	ND	ND	53.2	ND	12.5	41.8	ND	6.65	17.1	ND	7.66	ND	ND	249	ND	ND	59,900	9.65	ND	3.60	7.42	ND	ND	92.1
VP-CI-102210	10/22/09	ND	ND	ND	ND	ND	68.9	2.97	ND	ND	ND	10.8	14.3	ND	28.3	ND	ND	3.88	ND	ND	75,100	11.0	ND	3.79	5.71	ND	ND	ND
VP-CI-110609	11/06/09	ND	ND	ND	88.5	187	64.1	96.2	216	125	ND	ND	ND	ND	253	ND	ND	ND	ND	ND	156,000	ND	ND	132	ND	413	ND	ND
VP-CI-120309	12/03/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49,000	ND	ND	ND	ND	ND	ND	ND
VP-CI-121709	12/17/09	ND	ND	ND	ND	ND	9.50	7.20	11.2	23.2	ND	2.60	2.41	ND	9.58	ND	ND	ND	ND	8.22	41,600	4.55	ND	ND	ND	ND	4.65	ND
VP-CI-123109	12/31/09	ND	ND	4.94	ND	ND	7.60	15.3	ND	18.8	ND	2.15	2.66	ND	10.3	3.40	ND	ND	ND	9.80	28,200	ND	ND	3.75	ND	12.8	ND	ND
VP-CI-012710	01/27/10	ND	ND	ND	ND	ND	7.12	3.60	ND	8.21	ND	ND	ND	ND	11.7	ND	ND	ND	ND	ND	49,500	ND	ND	3.49	ND	ND	ND	ND
VP-CI-021210	02/12/10	ND	ND	ND	ND	ND	ND	ND	ND	12.1	ND	ND	ND	8.04	ND	ND	ND	ND	ND	18.4	4,380	ND	ND	ND	ND	ND	ND	ND
VP-CI-022610	02/26/10	ND	ND	ND	ND	ND	ND	ND	ND	29.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16,400	311	ND	ND	ND	ND	ND	ND
VP-CI-031610	03/16/10	ND	ND	ND	ND	ND	9.5	8.69	12.7	23.6	ND	2.66	ND	ND	17.6	ND	ND	ND	ND	15.9	32,900	6.76	ND	ND	4.97	6.18	3.94	ND
Exhaust Stack Samples																												
VP-EX-070909	07/09/09	ND	ND	ND	ND	ND	ND	ND	ND	7.49	ND	ND	ND	ND	ND	ND	ND	ND	7.46	ND	699	ND	ND	ND	ND	ND	ND	ND
VP-EX-102209	10/22/09	ND	ND	ND	ND	ND	ND	ND	ND	3.14	ND	3.17	ND	ND	ND	ND	ND	ND	6.92	ND	27,300	ND	ND	2.91	ND	ND	ND	ND
VP-EX-012710	01/27/10	13,000	ND	ND	ND	ND	87.4	ND	ND	9.18	ND	ND	23.8	ND	9.96	ND	ND	ND	ND	7.52	11,000	ND	2.28	ND	6.85	ND	ND	ND

Notes:

[1]Concnetration based on a sample volume of about 8 Liters.

[2]Only analytes with detected concentrations greater than the laboratory reporting limit are included in the table. For a full list of analytes tested, refer to the laboratory report.

Samples submitted to Pace Analytical in Minneapolis, Minnesota.

P:\0\0506117\11\Finals\Oct 2009 - March 2010 O and M Report\[050611711Tables Oct 2009 - Mar 2010.xlsx]Table 1

Table 2

Hydrocarbon Removal Calculations

BNSF Parkwater Railyard

Spokane, Washington

Sample ID	THC as Gas and Diesel ($\mu g/m^3$)	Sample Period		Run Time (hrs)		Flow (SCFM)		Conversion Factor (unitless)	THC as Gas and Diesel Removed[3] (grams)	THC as Gas and Diesel Removed (lbs)	Removal Rate (lbs/hr)
		Start Date	End Date	Both Blowers Operating[1]	One Blower Operating[2]	Both Blowers Operating[1]	One Blower Operating[2]				
VP-CI-070909	634,885	03/25/09	07/09/09	1248	335	636	253	1.69892E-06	947,324	2,089	1.67
VP-CI-082709	64,200	07/09/09	08/27/09	594	160	636	253	1.69892E-06	248,361	548	0.92
VP-CI-091109	62,500	08/27/09	09/11/09	166	45	636	253	1.69892E-06	12,603	28	0.17
VP-CI-092409	24,400	09/11/09	09/24/09	154	89	636	253	1.69892E-06	8,914	20	0.13
VP-CI-100909	59,900	09/24/09	10/09/09	178	0	636	0	1.69892E-06	8,117	18	0.10
VP-CI-102209	75,100	10/09/09	10/22/09	83	108	636	409	1.69892E-06	11,119	25	0.30
VP-CI-110609	156,000	10/22/09	11/06/09	0	359	0	406	1.69892E-06	28,613	63	0.18
VP-CI-120309	49,000	11/06/09	12/03/09	0	647	0	439	1.69892E-06	49,461	109	0.17
VP-CI-121709	41,600	12/03/09	12/17/09	0	320	0	431	1.69892E-06	10,614	23	0.07
VP-CI-123110	28,200	12/17/09	12/31/09	0	337	0	481	1.69892E-06	9,611	21	0.06
VP-CI-012710	49,500	12/31/09	01/27/10	0	643	0	408	1.69892E-06	17,315	38	0.06
VP-CI-021210	4,380	01/27/10	02/12/10	0	386	0	406	1.69892E-06	7,173	16	0.04
VP-CI-022610	16,400	02/12/10	02/26/10	0	167	0	387	1.69892E-06	1,141	3	0.02
VP-CI-031610	32,900	02/26/10	03/16/10	0	399	0	433	1.69892E-06	7,235	16	0.04
Total				2,424	3,994	--	--		1,367,603	3,016	0.75

Notes:

[1]Run time of both blowers 1 and 2 operating in SVE mode since last sample.

[2]Run time of only one blower operating in SVE mode since last sample.

[3] (THC concentration) x (run rime) x (flow rate) x (conversion factor).

[4]Sample results pending.

SCFM = Standard Cubic Feet per Minute; $\mu g/m^3$ = micrograms per cubic meter; lbs = pounds.

P:\0\0506117\11\Finals\Oct 2009 - March 2010 O and M Report\[050611711Tables Oct 2009 - Mar 2010.xlsx]Table 2

FIGURES

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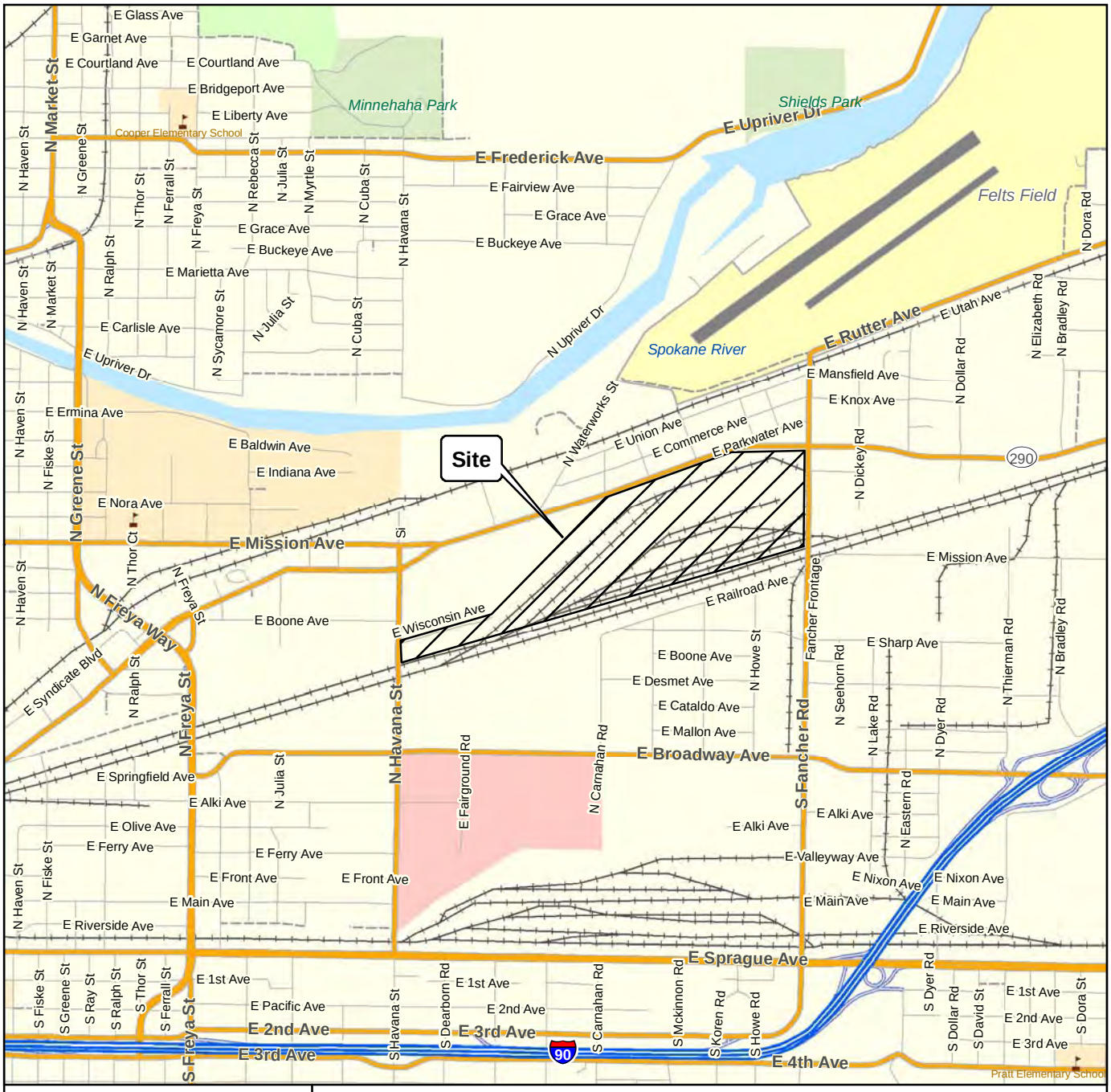

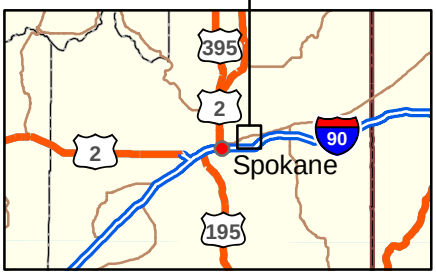

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Feet

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Data Sources: ESRI Data & Maps, Street Maps 2005

Transverse Mercator, Zone 11 N North, North American Datum 1983
North arrow oriented to grid north

Vicinity Map

BNSF Parkwater Railyard
Spokane, Washington

GeoEngineers

Figure 1

Map Revised: January 23, 2009

Office: SPOK Path: P:\0050611703\GIS\MXDs\09\0506117709_Figure01.mxd

Legend

MW-18 Monitoring Well Identification and Approximate Location

Interpreted Groundwater Flow Direction

Fueling Area

N
W E
S

200 0 200
Feet

Reference: 2007 aerial photograph provided by Spokane County.

Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
3. Groundwater elevations are relative to the NAVD 88 datum.

Site Plan

BNSF Parkwater Railyard
Spokane, Washington

GeoEngineers

Figure 2

Map Revised: May 20, 2010 CRC

Path: P:\005061\17\GIS\11\050611711_Figure02_OMProgressReport.mxd

Spokane

Legend

Remediation System Wells

Type (Install Year)

- Air Sparge Well (2007)
- Air Sparge Well (2008)
- Vapor Extraction Well (2007)
- Vapor Extraction Well (2008)
- Monitoring Well (converted to vapor extraction well)
- Remedial System Electrical Line
- Carbon Scrub Unit
- Electrical Vault
- Trailer
- Tracks
- Approximate Trench Boundary
- Tank Farm Wall
- Power Pole
- Overhead Power Line
- Current Above Ground Storage Tank Location
- Former Underground Storage Tank Location
- Approximate Extent of Petroleum Contaminated Soil Excavation

Remedial Treatment System

Carbon Scrub Filters

Former UST

Former UST

VW-1 VW-2 VW-3 VW-4 VW-5 VW-6

AS-1 AS-2 AS-3 AS-4 AS-5 AS-6 AS-7 AS-9 AS-10 AS-11 AS-12

MW-2 MW-3

Reference:
Aboveground storage tank and rail road track locations adapted from a 2006 aerial photograph obtained from Spokane County. Former underground storage tank locations from a 1981 blue print titled “Parkwater Station Map, Lands, Tracks, and Structures, Northern Pacific RY”. Monitoring well and excavation locations adapted from the January 1992 Remediation Technologies Inc. report titled "Subsurface Investigation of Underground Storage Tank Releases, Parkwater Railyard, Spokane, Washington”. Remedial system well locations were surveyed by TD&H, Inc. Remedial excavation limits were based, in part, on observation of apparent fill material during trenching activities.

Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

N W E S

20 0 20

Feet

SVE and Air Sparge System Diagram

BNSF Parkwater Railyard
Spokane, Washington

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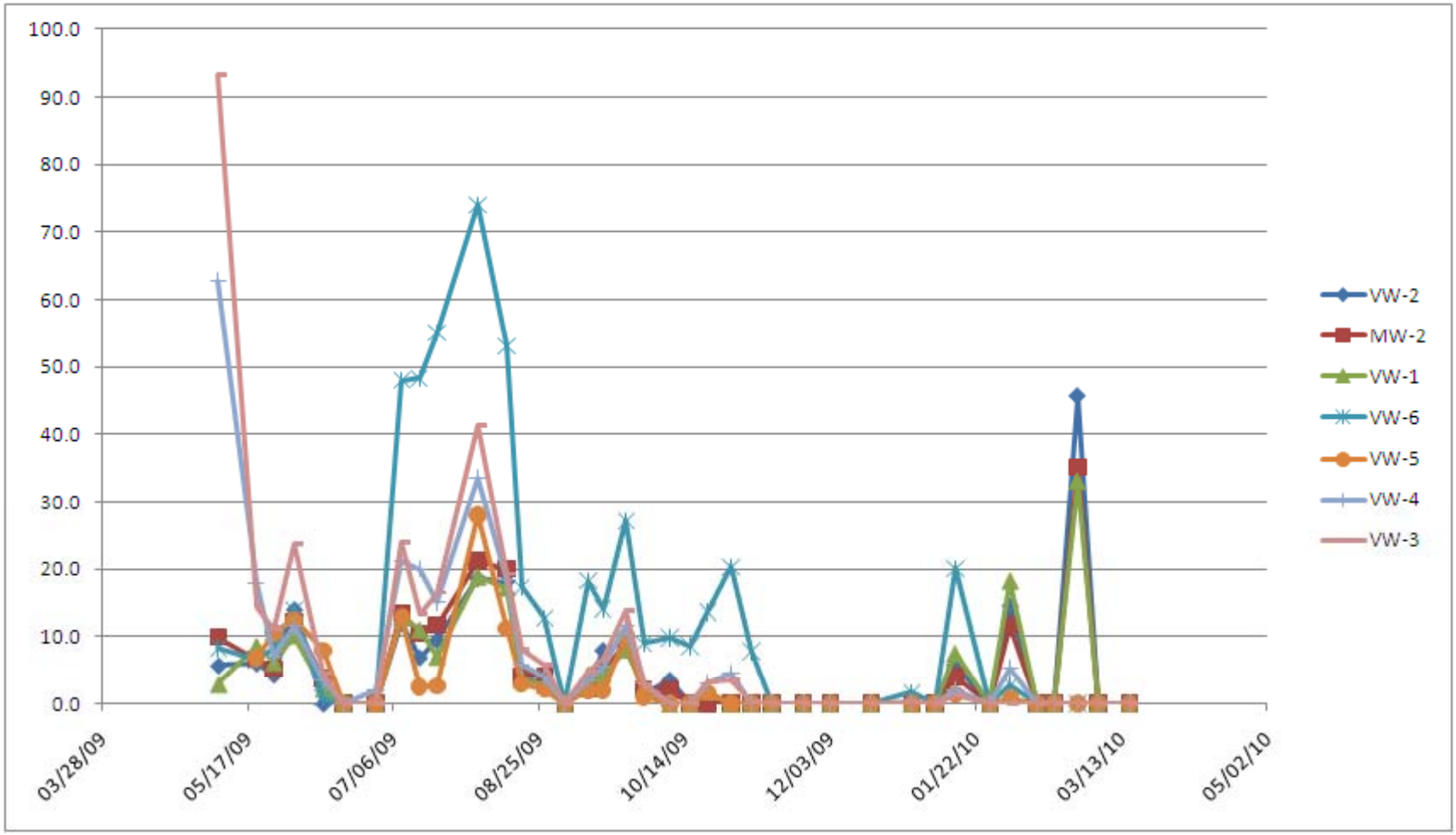
Figure 3

Map Revised: October 28, 2009 LMS:CRC

Path: P:\0\05061117\GIS\10MXDs\050611709Figure3_InterimActionPlan_SVE_Airsystem.mxd

Spokane

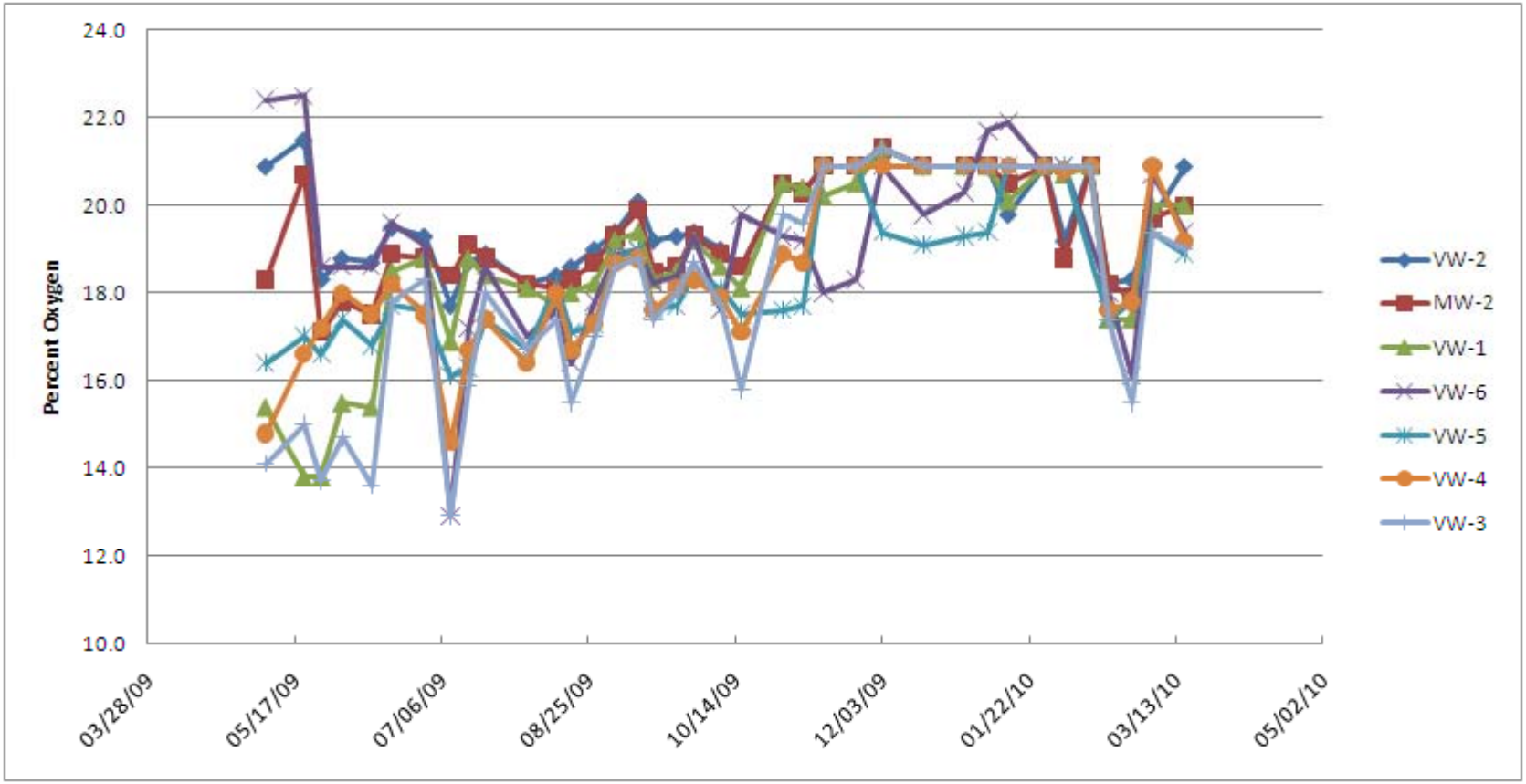


Volatile Organic Compounds

BNSF Parkwater Railyard
Spokane, Washington

GeoEngineers

Figure 4

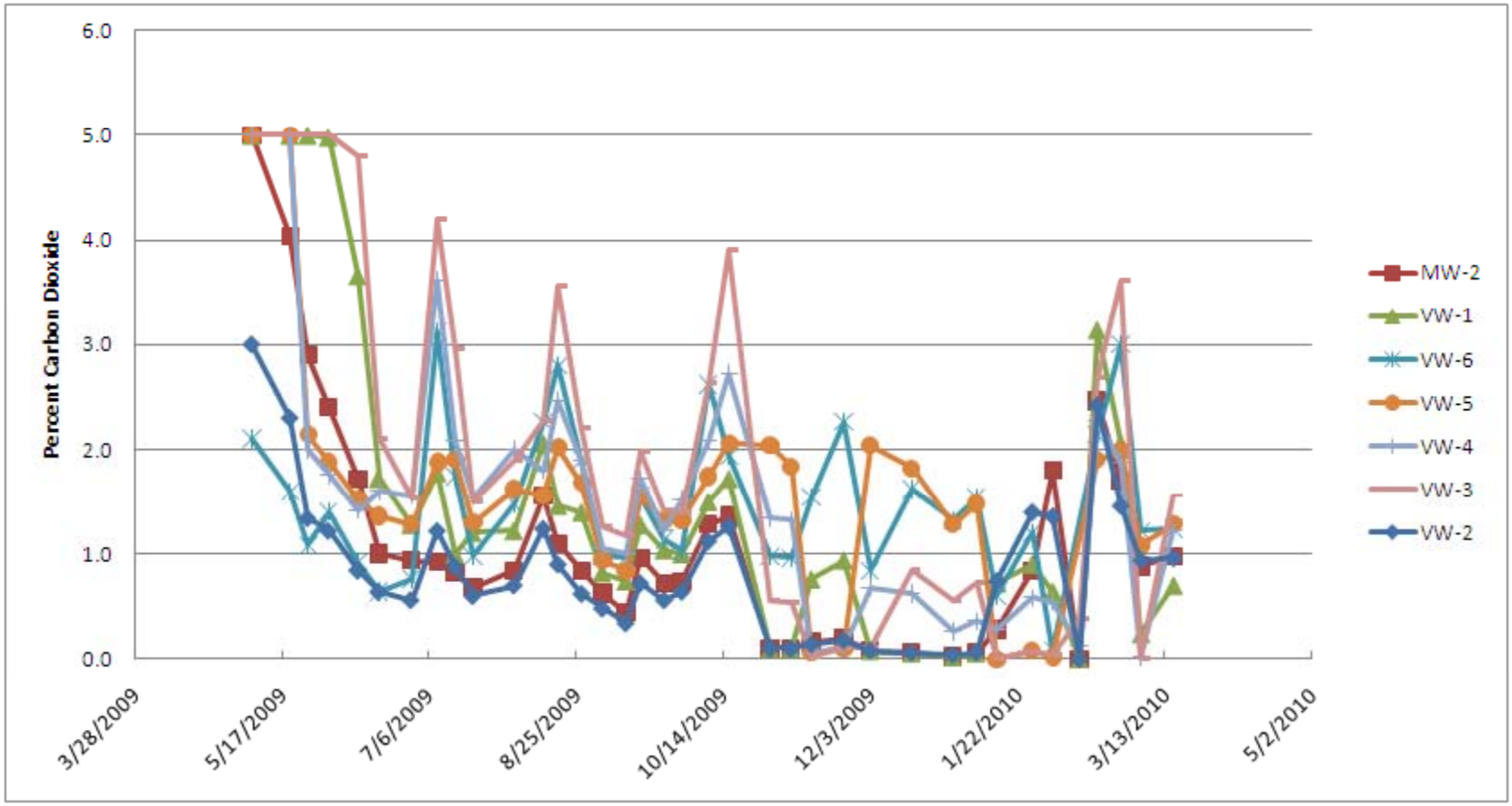


Oxygen Concentrations

BNSF Parkwater Railyard
Spokane, Washington

GeoEngineers

Figure 5

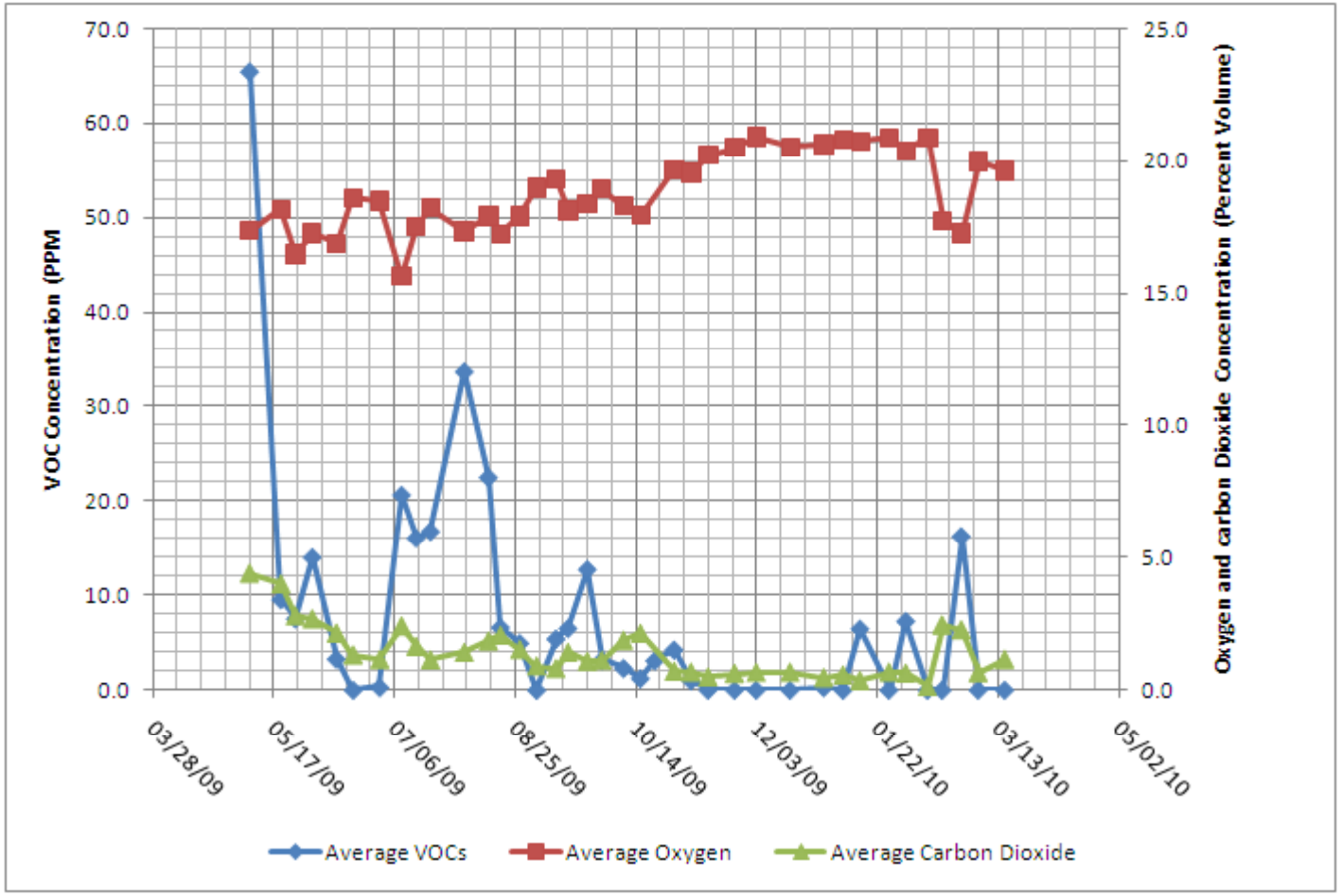


Carbon Dioxide

BNSF Parkwater Railyard
Spokane, Washington

GeoEngineers

Figure 6



SVE Well Daily Averages

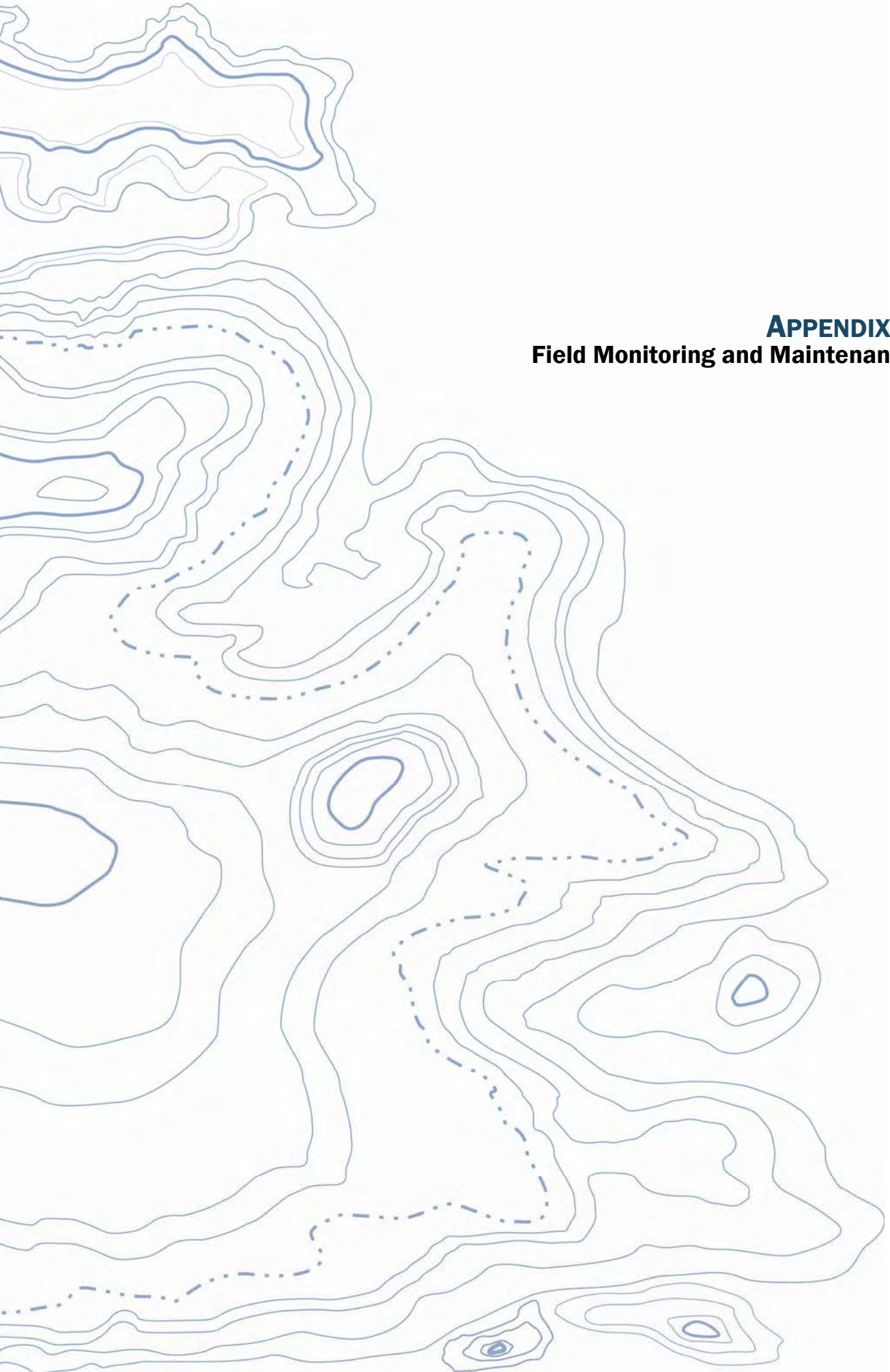
BNSF Parkwater Railyard
Spokane, Washington

GeoEngineers

Figure 7

APPENDICES

GeoEngineers



APPENDIX A
Field Monitoring and Maintenance

APPENDIX A
FIELD MONITORING AND MAINTENANCE

Field Monitoring

Field monitoring of the air sparge (AS) and soil vapor extraction (SVE) system has been conducted since the installation of monitoring ports on May 7, 2009. Monitoring ports, consisting of ¼ inch ball valves, were installed in each of the PVC pipes between the manifold and the individual SVE wells. Monitoring ports also were installed in the SVE pipe manifold (between the manifold and carbon scrub units) and the exhaust stack from the carbon filters. On June 19, 2009, a monitoring port was installed on the steel pipe stub that connects to the carbon filter inlet hoses to monitor readings at the carbon scrub unit inlets.

Measurements of pressure/vacuum, VOC concentration, and the volume of carbon dioxide and oxygen are measured from each monitoring point using Magnehelic gauges, a photoionization detector, and a 4-gas meter. Pressure, flow, and temperature also are recorded at gauges installed in the AS and SVE systems. Tables A-1 through A-3 summarize the monitoring results for VOCs, oxygen, and carbon dioxide from weekly monitoring events.

Maintenance Log

The following timeline summarizes the malfunctions and maintenance/repairs implemented on the AS and SVE system. This does not include regularly scheduled maintenance performed in accordance with manufacturer recommendations except when such actions were deemed necessary at unscheduled times in an attempt to correct a malfunction.

- 10/16/2009 – Replaced fuse in desiccating air dryer. The new fuse blew immediately when the system was restarted. Ozone Generator No. 1 was observed to be leaking ozone. The generator was removed and shipped to the manufacturer, Absolute Ozone, for service.
- 10/20/2009 – An electrician visited the site to check the air dryer. He observed the internal transformer in the air dryer was damaged and required service. He believed that a power surge caused the damage. The air dryer was disconnected and taken to Cascade Machinery and Electric Inc (Cascade), a local machinery service company, for repair.
- 12/28/2009 – The electrician re-installed the repaired air dryer and added surge protection to prevent power surges from causing future damage. The serviced ozone generator was re-installed and the AS system was re-started. Ozone was observed leaking from the AS well manifold (outside the container box) from the connection of the Teflon tubing to the PVC lines running to the AS wells. The connections were sealed with Teflon and electrical tape to prevent ozone from leaking.
- 2/12/2010 – SVE blower No. 2 made metal grinding noise when turned on. The blower was shut off pending assessment of the problem.
- 2/15/2010 - Cascade inspected the blower and determined than the aluminum fan was worn down and impacting the cover. A new fan was ordered.

- 2/26/2010 - System shut down on arrival because of an ozone alarm. Ozone concentrations elevated immediately after system re-start. Ozone generators were turned off and sparging continued with ambient air mixed with oxygen.
- 3/19/2010 – Cascade attempted to install a new fan on blower No. 2 and discovered that one of the bolts to the fan cover was sheared off. The missing bolt caused the fan cover to be loose and probably caused the damage to the fan. Cascade removed the broken bolt from the cover and re-tapped the bolt hole. The AS system was shut down because of a low pressure alarm condition.
- 3/22/2010 – Cascade replaced the fan and repaired fan cover on blower No. 2. Attempted to troubleshoot cause of AS system shut down from previous visit. The AS system is shutting down after the final charge of the oxygen tank, used for ozone production, before the AS solenoid valves open and the sparge compressor turns on.
- 3/26/2010 – Blower No. 2 was switched on before opening the air intake valve causing the blower to burn out. Blower No. 2 is not operational and has been locked out. Blower No. 1 continues to operate in SVE mode.

Table A-1

Field Data Summary Table - Volatile Organic Compounds

BNSF Parkwater Railyard

Spokane, Washington

	Sample Location												
Date Sampled	**VW-2**	**MW-2**	**VW-1**	**MW-3**	**VW-6**	**VW-5**	**VW-4**	**VW-3**	**Manifold (PVC)**	**Inlet (Steel Pipe)**	**Between Filters[1]**	**Exhaust Stack[1]**	**SVE Well Daily Average**
05/07/09	5.7	9.9	2.9	21.1	8.3	319.0	62.8	93.3	4400.0	--	0.0	0.0	65.4
05/20/09	6.0	6.6	8.6	--	6.5	6.8	17.9	14.4	10.8	--	0.0	0.0	9.5
05/26/09	4.3	5.1	6.2	--	8.3	10.6	7.1	11.0	90.8	--	0.0	0.0	7.5
06/02/09	14.0	12.1	10.2	--	14.0	12.5	11.6	23.6	13.5	--	0.0	0.0	14.0
06/12/09	0.0	3.8	2.2	--	0.8	8.0	3.5	4.6	3.0	--	0.0	0.0	3.3
06/19/09	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0	0.0	29.5	0.0	0.0	0.0
06/30/09	0.0	0.0	0.0	--	0.0	0.0	2.0	0.0	0.0	17.0	0.0	0.0	0.3
07/09/09	12.0	13.5	12.8	--	48.0	12.9	21.3	23.9	7.7	27.4	0.0	0.0	20.6
07/15/09	6.9	10.4	11.0	--	48.3	2.5	20.0	13.3	0.0	0.0	0.0	0.0	16.1
07/21/09	9.5	11.7	7.0	--	55.0	2.7	15.0	16.5	7.7	10.2	0.0	0.0	16.8
08/04/09	18.6	21.2	18.8	--	74.0	28.0	33.5	41.3	17.5	46.7	0.0	0.0	33.6
08/14/09	18.2	20.0	17.2	--	53.1	11.3	18.3	19.3	12.0	35.4	0.0	0.0	22.5
08/19/09	4.3	4.2	3.7	--	17.3	2.9	5.8	8.0	3.4	58.9	0.0	0.0	6.6
08/27/09	2.8	4.2	2.8	--	12.8	2.1	4.0	5.9	5.4	40.5	0.0	0.0	4.9
09/03/09	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0	2.4	45.5	0.0	0.0	0.0
09/11/09	2.5	2.2	4.4	--	18.2	2.0	3.6	4.8	3.8	59.1	0.0	0.0	5.4
09/16/09	8.0	4.8	4.4	--	14.1	2.0	5.5	6.7	2.1	70.2	0.0	0.0	6.5
09/24/09	9.1	9.2	8.1	--	27.1	10.1	11.5	13.9	4.2	35.6	22.9	0.2	12.7
09/30/09	1.6	2.2	2.3	--	9.0	1.0	3.1	2.8	1.9	225.0	19.0	1.1	3.1
10/09/09	3.6	2.0	0.0	3.0	9.8	0.0	0.0	0.0	0.5	308.0	51.9	0.0	2.3
10/16/09	0.0	0.0	0.0	1.2	8.6	0.0	0.0	0.0	0.6	43.5	30.2	0.0	1.2
10/22/09	0.0	0.0	1.8	1.5	13.6	1.6	3.0	3.3	2.6	18.8	11.5	0.0	3.1
10/30/09	0.0	0.0	0.0	5.6	20.3	0.0	4.5	3.5	1.7	47.5	109.0	0.0	4.2
11/06/09	0.0	0.0	0.0	0.0	7.8	0.0	0.0	0.2	1.3	26.5	237.0	0.3	1.0
11/13/09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	33.8	0.0	0.0

	Sample Location												
Date Sampled	VW-2	MW-2	VW-1	MW-3	VW-6	VW-5	VW-4	VW-3	Manifold (PVC)	Inlet (Steel Pipe)	Between Filters[1]	Exhaust Stack[1]	SVE Well Daily Average
11/24/09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	101.0	555.0	0.0	0.0
12/03/09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.0	896.0	0.0	0.0
12/17/09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	162.0	0.0	0.0
12/31/09	0.0	0.0	0.0	0.2	1.7	0.0	0.0	0.3	0.0	29.2	40.9	0.3	0.3
01/08/10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.7	285.0	0.0	0.0
01/15/10	5.8	4.0	7.5	9.5	20.1	1.4	2.1	1.2	0.5	14.4	115.0	3.2	6.5
01/27/10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.2	90.3	0.0	0.0
02/03/10	14.6	11.7	18.2	4.5	2.8	0.8	5.4	0.0	2.0	16.2	20.4	2.7	7.3
02/12/10	0.0	0.0	0.0	--	--	--	0.0	0.0	0.0	11.1	0.0	0.0	0.0
02/18/10	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0	0.1	51.0	119.0	0.0	0.0
02/26/10	45.6	35.2	33.0	--	0.0	0.0	0.0	0.0	--	48.3	21.5	0.1	16.3
03/05/10	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0	0.0	29.8	20.1	3.1	0.0
03/16/10	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0	0.0	1.6	68.8	101.0	0.0
Average	5.1	5.1	4.8	3.1	13.5	11.8	6.9	8.2	124.2	49.3	76.6	2.9	7.7

Notes:

Measurements reported in parts per million as measured using a photoionization detector.

P:\0\0506117\11\Finals\Oct 2009 - March 2010 O and M Report\[050611711 Oct 2009 - Mar 2010 App A tables.xlsx]VOCs

Table A-2

Field Data Summary Table - Percent Oxygen

BNSF Parkwater Railyard
Spokane, Washington

	Sample Location												
Date Sampled	**VW-2**	**MW-2**	**VW-1**	**MW-3**	**VW-6**	**VW-5**	**VW-4**	**VW-3**	**Manifold (PVC)**	**Inlet (Steel Pipe)**	**Between Filters[1]**	**Exhaust Stack[1]**	**SVE Well Daily Average**
05/07/09	20.9	18.3	15.4	16.5	22.4	16.4	14.8	14.1	17.2	--	18.4	18.4	17.4
05/20/09	21.5	20.7	13.8	--	22.5	17.0	16.6	15.0	18.9	--	16.2	16.4	18.2
05/26/09	18.3	17.1	13.8	--	18.6	16.6	17.2	13.7	17.6	--	16.9	16.9	16.5
06/02/09	18.8	17.8	15.5	--	18.6	17.4	18.0	14.7	17.4	--	17.4	17.4	17.3
06/12/09	18.7	17.5	15.4	--	18.6	16.8	17.5	13.6	17.3	--	17.2	17.4	16.9
06/19/09	19.5	18.9	18.5	--	19.6	17.7	18.2	17.8	18.4	19.0	18.6	18.3	18.6
06/30/09	19.3	18.8	18.8	--	19.1	17.6	17.5	18.3	18.4	18.9	18.3	18.4	18.5
07/09/09	17.7	18.4	16.9	--	12.9	16.1	14.6	12.9	16.0	16.0	16.1	16.1	15.6
07/15/09	18.7	19.1	18.8	--	17.2	16.3	16.7	15.9	17.5	17.6	17.5	17.5	17.5
07/21/09	18.9	18.8	18.4	--	18.6	17.4	17.4	18.0	18.2	18.2	18.1	18.2	18.2
08/04/09	18.2	18.2	18.1	--	17.0	16.7	16.4	16.7	17.4	17.4	17.5	17.4	17.3
08/14/09	18.4	18.1	17.7	--	17.6	18.2	18.0	17.4	18.4	17.0	17.1	17.1	17.9
08/19/09	18.6	18.3	18.0	--	16.4	17.1	16.7	15.5	17.4	16.6	16.6	16.6	17.2
08/27/09	19.0	18.7	18.2	--	17.8	17.3	17.3	17.0	18.0	17.3	17.2	17.2	17.9
09/03/09	19.4	19.3	19.2	--	18.9	18.8	18.7	18.6	19.0	17.6	17.4	17.4	19.0
09/11/09	20.1	19.9	19.4	--	19.0	19.0	18.8	18.8	19.8	17.5	17.4	17.2	19.3
09/16/09	19.2	18.5	18.3	--	18.2	17.6	17.6	17.4	18.2	17.6	17.5	17.2	18.1
09/24/09	19.3	18.6	18.5	--	18.4	17.7	18.1	18.0	18.3	18.3	17.6	17.6	18.4
09/30/09	19.4	19.3	19.2	--	19.3	18.4	18.3	18.7	18.5	18.1	17.9	17.8	18.9
10/09/09	19.0	18.9	18.6	18.4	17.6	18.1	17.9	17.7	18.6	17.8	17.2	17.1	18.3
10/16/09	18.6	18.6	18.1	18.0	19.8	17.5	17.1	15.8	17.8	16.6	16.6	16.5	17.9
10/30/09	20.5	20.5	20.5	20.2	19.3	17.6	18.9	19.8	19.9	20.0	19.6	19.3	19.7
11/06/09	20.3	20.3	20.4	20.2	19.2	17.7	18.7	19.6	19.6	19.8	19.4	18.5	19.6
11/13/09	20.9	20.9	20.2	19.1	18.0	20.9	20.9	20.9	20.9	20.9	20.9	20.7	20.2
11/24/09	20.9	20.9	20.5	20.7	18.3	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.5

	Sample Location												
Date Sampled	VW-2	MW-2	VW-1	MW-3	VW-6	VW-5	VW-4	VW-3	Manifold (PVC)	Inlet (Steel Pipe)	Between Filters[1]	Exhaust Stack[1]	SVE Well Daily Average
12/03/09	21.3	21.3	21.3	20.9	20.9	19.4	20.9	21.3	20.9	21.0	20.9	20.9	20.9
12/17/09	20.9	20.9	20.9	20.9	19.8	19.1	20.9	20.9	20.9	19.5	20.9	20.9	20.5
12/31/09	20.9	20.9	20.9	20.9	20.3	19.3	20.9	20.9	20.9	20.9	20.9	20.9	20.6
01/08/10	20.9	20.9	20.9	20.9	21.7	19.4	20.9	20.9	21.3	20.9	20.9	20.9	20.8
01/15/10	19.8	20.5	20.1	20.9	21.9	20.9	20.9	20.9	20.9	20.4	20.3	20.8	20.7
01/27/10	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.9	20.7	20.3	20.9
02/03/10	19.2	18.8	20.7	20.9	20.9	20.9	20.8	20.9	20.9	20.7	20.3	20.1	20.4
02/12/10	20.9	20.9	20.9	--	--	--	20.9	20.9	20.9	20.7	20.5	20.7	20.9
02/18/10	18.2	18.2	17.4	--	18.0	17.4	17.6	17.4	16.9	16.3	15.8	15.7	17.7
02/26/10	18.3	17.9	17.4	--	16.1	17.8	17.8	15.5	--	16.3	16.0	16.0	17.3
03/05/10	19.7	19.7	20.0	--	20.7	19.4	20.9	19.4	20.9	18.5	18.7	18.6	20.0
03/16/10	20.9	20.0	20.0	--	19.4	18.9	19.2	19.0	19.1	18.8	18.7	18.7	19.6
Average	19.6	19.3	18.7	20.0	19.0	18.2	18.5	18.0	19.0	18.7	18.4	18.3	18.8

Notes:

Measurements reported in percent oxygen as measured using a 4-gas meter.

P:\0\0506117\11\Finals\Oct 2009 - March 2010 O and M Report\[050611711 Oct 2009 - Mar 2010 App A tables.xlsx]Oxygen

Table A-3

Field Data Summary Table - Percent Carbon Dioxide

BNSF Parkwater Railyard
Spokane, Washington

	Sample Location												
Date Sampled	**VW-2**	**MW-2**	**VW-1**	**MW-3**	**VW-6**	**VW-5**	**VW-4**	**VW-3**	**Manifold (PVC)**	**Carbon Inlet (Steel Pipe)**	**Between Filters[1]**	**Exhaust Stack[1]**	**SVE Well Daily Average**
05/07/09	3.0	5.0	5.0	5.0	2.1	5.0	5.0	5.0	5.0	--	5.0	5.0	4.4
05/20/09	2.3	4.0	5.0	--	1.6	5.0	5.0	5.0	5.0	--	2.5	3.8	4.0
05/26/09	1.3	2.9	5.0	--	1.1	2.1	2.0	5.0	2.3	--	2.2	2.1	2.8
06/02/09	1.2	2.4	5.0	--	1.4	1.9	1.8	5.0	2.0	--	2.0	1.9	2.7
06/12/09	0.8	1.7	3.7	--	0.9	1.5	1.4	4.8	1.6	--	1.6	1.5	2.1
06/19/09	0.6	1.0	1.7	--	0.6	1.4	1.6	2.1	1.4	1.6	1.5	1.5	1.3
06/30/09	0.6	0.9	1.3	--	0.8	1.3	1.6	1.5	1.2	1.4	1.3	1.2	1.1
07/09/09	1.2	0.9	1.8	--	3.1	1.9	3.6	4.2	2.1	2.2	2.0	2.0	2.4
07/15/09	0.9	0.8	1.0	--	1.7	1.9	2.1	3.0	1.7	1.7	1.7	1.7	1.6
07/21/09	0.6	0.7	1.2	--	1.0	1.3	1.5	1.5	1.2	1.2	1.2	1.2	1.1
08/04/09	0.7	0.8	1.2	--	1.5	1.6	2.0	1.9	1.4	1.4	1.4	1.4	1.4
08/14/09	1.2	1.6	2.1	--	2.3	1.6	1.8	2.3	1.4	2.4	2.6	2.6	1.8
08/19/09	0.9	1.1	1.5	--	2.8	2.0	2.5	3.6	2.1	2.6	2.5	2.4	2.0
08/27/09	0.6	0.8	1.4	--	1.9	1.7	1.9	2.2	1.5	1.8	1.9	1.9	1.5
09/03/09	0.5	0.6	0.8	--	1.0	0.9	1.1	1.3	1.0	2.2	2.0	2.1	0.9
09/11/09	0.3	0.4	0.7	--	1.0	0.8	1.0	1.2	0.8	2.1	2.1	2.0	0.8
09/16/09	0.7	1.0	1.3	--	1.6	1.6	1.7	2.0	1.4	2.1	2.1	1.9	1.4
09/24/09	0.6	0.7	1.0	--	1.1	1.3	1.2	1.4	1.1	1.8	1.7	1.7	1.1
09/30/09	0.6	0.7	1.0	--	1.0	1.3	1.5	1.4	1.4	2.0	1.9	1.9	1.1
10/09/09	1.1	1.3	1.5	1.8	2.6	1.7	2.1	2.6	1.7	3.1	2.8	2.8	1.9
10/16/09	1.3	1.4	1.7	2.0	1.9	2.1	2.7	3.9	2.1	3.2	3.2	3.1	2.1
10/30/09	0.1	0.1	0.1	0.2	1.0	2.0	1.3	0.6	0.5	0.7	0.7	0.5	0.7
11/06/09	0.1	0.1	0.1	0.2	1.0	1.8	1.3	0.5	0.4	0.6	0.7	1.2	0.6
11/13/09	0.1	0.2	0.8	1.0	1.5	0.1	0.1	0.0	0.2	0.3	0.4	0.5	0.5

	Sample Location												
Date Sampled	VW-2	MW-2	VW-1	MW-3	VW-6	VW-5	VW-4	VW-3	Manifold (PVC)	Carbon Inlet (Steel Pipe)	Between Filters[1]	Exhaust Stack[1]	SVE Well Daily Average
11/24/09	0.2	0.2	0.9	0.9	2.3	0.1	0.1	0.1	0.3	0.4	0.5	0.5	0.6
12/03/09	0.1	0.1	0.1	1.2	0.8	2.0	0.7	0.1	0.5	0.8	0.8	0.8	0.6
12/17/09	0.1	0.1	0.1	0.1	1.6	1.8	0.6	0.8	0.5	1.7	0.7	0.6	0.6
12/31/09	0.0	0.0	0.0	0.0	1.3	1.3	0.3	0.6	0.3	0.4	0.5	0.5	0.4
01/08/10	0.1	0.1	0.1	0.1	1.5	1.5	0.4	0.7	0.0	0.5	0.6	0.6	0.5
01/15/10	0.7	0.3	0.7	0.0	0.6	0.0	0.3	0.0	0.2	0.4	0.5	0.3	0.3
01/27/10	1.4	0.8	0.9	0.1	1.2	0.1	0.6	0.1	0.4	1.2	1.1	1.1	0.6
02/03/10	1.4	1.8	0.6	0.4	0.1	0.0	0.5	0.0	0.5	0.6	0.6	0.6	0.6
02/12/10	0.0	0.0	0.0	--	--	--	0.1	0.4	0.4	0.6	0.6	0.6	0.1
02/18/10	2.4	2.5	3.1	--	2.1	1.9	2.3	2.7	3.2	1.9	4.5	4.4	2.4
02/26/10	1.5	1.7	2.1	--	3.0	2.0	1.9	3.6	--	3.5	3.6	3.6	2.2
03/05/10	0.9	0.9	0.2	--	1.2	1.1	0.0	0.0	0.0	2.0	0.0	2.0	0.6
03/16/10	1.0	1.0	0.7	--	1.2	1.3	1.2	1.6	1.4	1.9	2.0	1.9	1.1
Average	0.8	1.1	1.5	0.9	1.5	1.6	1.5	2.0	1.3	1.6	1.7	1.8	1.4

Notes:

Measurements reported in percent carbon dioxide as measured using a 4-gas meter.

P:\0\0506117\11\Finals\Oct 2009 - March 2010 O and M Report\[050611711 Oct 2009 - Mar 2010 App A tables.xlsx]Carbon Dioxide

APPENDIX B
Laboratory Reports

APPENDIX B
LABORATORY REPORTS

Chemical Analytical Data

Chain-of-custody procedures were maintained during the transport of the field samples to the accredited analytical laboratory. The analytical results and quality control records are included in this appendix.

Analytical Data Review

The laboratory maintains an internal quality assurance program as documented in its laboratory quality assurance manual. The laboratory uses a combination of blanks, surrogate recoveries, duplicates, matrix spike recoveries, matrix spike duplicate recoveries, blank spike recoveries and blank spike duplicate recoveries to evaluate the analytical results. The laboratory also uses data quality goals for individual chemicals or groups of chemicals based on the long-term performance of the test methods. The data quality goals were included in the laboratory reports. The laboratory compared each group of samples with the existing data quality goals and noted any exceptions in the laboratory report. Any data quality exceptions documented by the accredited laboratory were reviewed by GeoEngineers and are addressed in the data quality exception section of this appendix.

Data Quality Summary

It is our opinion that the analytical data are of acceptable quality for their intended use.

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January 11, 2010

Bruce Williams
GeoEngineers,Inc.
523 East Second Ave
Spokane, WA 99202

RE: Project: 0506-117-11 Parkwater
Pace Project No.: 10119238

Dear Bruce Williams:
Enclosed are the analytical results for sample(s) received by the laboratory between December 19, 2009 and December 24, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carol Davy

Carol Davy

carol.davy@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 0506-117-11 Parkwater
Pace Project No.: 10119238

Minnesota Certification IDs
Alaska Certification #: UST-078
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
California Certification #: 01155CA
Florida/NELAP Certification #: E87605
Illinois Certification #: 200011
Iowa Certification #: 368
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Montana Certification #: MT CERT0092
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Oregon Certification #: MN200001
Pennsylvania Certification #: 68-00563
Tennessee Certification #: 02818
Washington Certification #: C754
Wisconsin Certification #: 999407970
Arizona Certification #: AZ-0014

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SAMPLE SUMMARY

Project: 0506-117-11 Parkwater
Pace Project No.: 10119238

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10119238001	**VP-CI-121709**	Air	12/17/09 12:57	12/19/09 09:32

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SAMPLE ANALYTE COUNT

Project: 0506-117-11 Parkwater
Pace Project No.: 10119238

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10119238001	**VP-CI-121709**	TO-15	CJR	65	PASI-M

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PROJECT NARRATIVE

Project: 0506-117-11 Parkwater
Pace Project No.: 10119238

Method: **TO-15**
Description: TO15 MSV AIR
Client: GeoEngineers,Inc.
Date: January 11, 2010

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 0506-117-11 Parkwater
Pace Project No.: 10119238

Sample: VP-CI-121709 **Lab ID: 10119238001** Collected: 12/17/09 12:57 Received: 12/19/09 09:32 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,1-Trichloroethane	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	76-13-1	
1,1-Dichloroethane	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	75-35-4	
1,2,4-Trichlorobenzene	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	120-82-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.64	0.32	1.25		01/08/10 22:05	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.64	0.32	1.25		01/08/10 22:05	95-50-1	
1,2-Dichloroethane	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	107-06-2	
1,2-Dichloropropane	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	108-67-8	
1,3-Butadiene	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	106-99-0	
1,3-Dichlorobenzene	ND	ppbv	0.64	0.32	1.25		01/08/10 22:05	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.64	0.32	1.25		01/08/10 22:05	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	0.12	0.062	1.25		01/08/10 22:05	123-91-1	
2,2,4-Trimethylpentane	**2.0**	ppbv	0.62	0.31	1.25		01/08/10 22:05	540-84-1	
2-Butanone (MEK)	**2.4**	ppbv	0.69	0.34	1.25		01/08/10 22:05	78-93-3	
2-Hexanone	ND	ppbv	0.69	0.34	1.25		01/08/10 22:05	591-78-6	
2-Propanol	**4.5**	ppbv	0.62	0.31	1.25		01/08/10 22:05	67-63-0	
4-Ethyltoluene	ND	ppbv	0.66	0.33	1.25		01/08/10 22:05	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	0.69	0.34	1.25		01/08/10 22:05	108-10-1	
Acetone	**9.6**	ppbv	0.69	0.34	1.25		01/08/10 22:05	67-64-1	
Benzene	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	71-43-2	
Bromodichloromethane	ND	ppbv	0.64	0.32	1.25		01/08/10 22:05	75-27-4	
Bromoform	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	75-25-2	
Bromomethane	ND	ppbv	0.64	0.32	1.25		01/08/10 22:05	74-83-9	
Carbon disulfide	**0.82**	ppbv	0.62	0.31	1.25		01/08/10 22:05	75-15-0	
Carbon tetrachloride	ND	ppbv	0.64	0.32	1.25		01/08/10 22:05	56-23-5	
Chlorobenzene	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	108-90-7	
Chloroethane	ND	ppbv	0.64	0.32	1.25		01/08/10 22:05	75-00-3	
Chloroform	ND	ppbv	0.64	0.32	1.25		01/08/10 22:05	67-66-3	
Chloromethane	ND	ppbv	0.62	0.31	1.25		01/08/10 22:05	74-87-3	
Cyclohexane	**0.69**	ppbv	0.65	0.32	1.25		01/08/10 22:05	110-82-7	
Dibromochloromethane	ND	ppbv	0.66	0.33	1.25		01/08/10 22:05	124-48-1	
Dichlorodifluoromethane	ND	ppbv	0.64	0.32	1.25		01/08/10 22:05	75-71-8	
Dichlorotetrafluoroethane	ND	ppbv	0.71	0.36	1.25		01/08/10 22:05	76-14-2	
Ethanol	**5.0**	ppbv	0.62	0.31	1.25		01/08/10 22:05	64-17-5	
Ethyl acetate	ND	ppbv	0.64	0.32	1.25		01/08/10 22:05	141-78-6	
Ethylbenzene	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.62	0.31	1.25		01/08/10 22:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ppbv	0.62	0.31	1.25		01/08/10 22:05	98-82-8	
Methyl-tert-butyl ether	ND	ppbv	1.2	0.62	1.25		01/08/10 22:05	1634-04-4	
Methylene Chloride	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	75-09-2	
Naphthalene	ND	ppbv	0.62	0.31	1.25		01/08/10 22:05	91-20-3	

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ANALYTICAL RESULTS

Project: 0506-117-11 Parkwater
Pace Project No.: 10119238

Sample: VP-CI-121709 **Lab ID: 10119238001** Collected: 12/17/09 12:57 Received: 12/19/09 09:32 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Propylene	**4.7**	ppbv	2.5	1.2	1.25		01/08/10 22:05	115-07-1	
Styrene	ND	ppbv	0.69	0.34	1.25		01/08/10 22:05	100-42-5	
THC as Gas	**9590**	ppbv	25.0	12.5	1.25		01/08/10 22:05		
Tetrachloroethene	**0.66**	ppbv	0.65	0.32	1.25		01/08/10 22:05	127-18-4	
Tetrahydrofuran	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	109-99-9	
Toluene	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	108-88-3	
Trichloroethene	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	79-01-6	
Trichlorofluoromethane	ND	ppbv	0.62	0.31	1.25		01/08/10 22:05	75-69-4	
Vinyl acetate	**1.3**	ppbv	0.69	0.34	1.25		01/08/10 22:05	108-05-4	
Vinyl chloride	ND	ppbv	0.64	0.32	1.25		01/08/10 22:05	75-01-4	
Xylene (Total)	ND	ppbv	1.9	0.94	1.25		01/08/10 22:05	1330-20-7	
cis-1,2-Dichloroethene	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	0.64	0.32	1.25		01/08/10 22:05	10061-01-5	
m&p-Xylene	ND	ppbv	1.2	0.62	1.25		01/08/10 22:05	1330-20-7	
n-Heptane	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	142-82-5	
n-Hexane	ND	ppbv	0.66	0.33	1.25		01/08/10 22:05	110-54-3	
o-Xylene	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	95-47-6	
trans-1,2-Dichloroethene	ND	ppbv	1.2	0.62	1.25		01/08/10 22:05	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	0.65	0.32	1.25		01/08/10 22:05	10061-02-6	

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QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10119238

QC Batch: AIR/9602
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10119238001

METHOD BLANK: 734954
Matrix: Air
Associated Lab Samples: 10119238001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.52	01/08/10 18:26	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.52	01/08/10 18:26	
1,1,2-Trichloroethane	ppbv	ND	0.52	01/08/10 18:26	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.52	01/08/10 18:26	
1,1-Dichloroethane	ppbv	ND	0.52	01/08/10 18:26	
1,1-Dichloroethene	ppbv	ND	0.52	01/08/10 18:26	
1,2,4-Trichlorobenzene	ppbv	ND	0.52	01/08/10 18:26	
1,2,4-Trimethylbenzene	ppbv	ND	0.51	01/08/10 18:26	
1,2-Dibromoethane (EDB)	ppbv	ND	0.52	01/08/10 18:26	
1,2-Dichlorobenzene	ppbv	ND	0.51	01/08/10 18:26	
1,2-Dichloroethane	ppbv	ND	0.52	01/08/10 18:26	
1,2-Dichloropropane	ppbv	ND	0.52	01/08/10 18:26	
1,3,5-Trimethylbenzene	ppbv	ND	0.52	01/08/10 18:26	
1,3-Butadiene	ppbv	ND	0.52	01/08/10 18:26	
1,3-Dichlorobenzene	ppbv	ND	0.51	01/08/10 18:26	
1,4-Dichlorobenzene	ppbv	ND	0.51	01/08/10 18:26	
1,4-Dioxane (p-Dioxane)	ppbv	ND	0.10	01/08/10 18:26	
2,2,4-Trimethylpentane	ppbv	ND	0.50	01/08/10 18:26	
2-Butanone (MEK)	ppbv	ND	0.55	01/08/10 18:26	
2-Hexanone	ppbv	ND	0.55	01/08/10 18:26	
2-Propanol	ppbv	ND	0.50	01/08/10 18:26	
4-Ethyltoluene	ppbv	ND	0.53	01/08/10 18:26	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	0.55	01/08/10 18:26	
Acetone	ppbv	ND	0.55	01/08/10 18:26	
Benzene	ppbv	ND	0.52	01/08/10 18:26	
Bromodichloromethane	ppbv	ND	0.51	01/08/10 18:26	
Bromoform	ppbv	ND	0.52	01/08/10 18:26	
Bromomethane	ppbv	ND	0.51	01/08/10 18:26	
Carbon disulfide	ppbv	ND	0.50	01/08/10 18:26	
Carbon tetrachloride	ppbv	ND	0.51	01/08/10 18:26	
Chlorobenzene	ppbv	ND	0.52	01/08/10 18:26	
Chloroethane	ppbv	ND	0.51	01/08/10 18:26	
Chloroform	ppbv	ND	0.51	01/08/10 18:26	
Chloromethane	ppbv	ND	0.50	01/08/10 18:26	
cis-1,2-Dichloroethene	ppbv	ND	0.52	01/08/10 18:26	
cis-1,3-Dichloropropene	ppbv	ND	0.51	01/08/10 18:26	
Cyclohexane	ppbv	ND	0.52	01/08/10 18:26	
Dibromochloromethane	ppbv	ND	0.53	01/08/10 18:26	
Dichlorodifluoromethane	ppbv	ND	0.51	01/08/10 18:26	
Dichlorotetrafluoroethane	ppbv	ND	0.57	01/08/10 18:26	
Ethanol	ppbv	ND	0.50	01/08/10 18:26	
Ethyl acetate	ppbv	ND	0.51	01/08/10 18:26	
Ethylbenzene	ppbv	ND	0.52	01/08/10 18:26	

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QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10119238

METHOD BLANK: 734954 Matrix: Air

Associated Lab Samples: 10119238001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ppbv	ND	0.50	01/08/10 18:26	
Isopropylbenzene (Cumene)	ppbv	ND	0.50	01/08/10 18:26	
m&p-Xylene	ppbv	ND	1.0	01/08/10 18:26	
Methyl-tert-butyl ether	ppbv	ND	1.0	01/08/10 18:26	
Methylene Chloride	ppbv	ND	0.52	01/08/10 18:26	
n-Heptane	ppbv	ND	0.52	01/08/10 18:26	
n-Hexane	ppbv	ND	0.53	01/08/10 18:26	
Naphthalene	ppbv	ND	0.50	01/08/10 18:26	
o-Xylene	ppbv	ND	0.52	01/08/10 18:26	
Propylene	ppbv	ND	2.0	01/08/10 18:26	
Styrene	ppbv	ND	0.55	01/08/10 18:26	
Tetrachloroethene	ppbv	ND	0.52	01/08/10 18:26	
Tetrahydrofuran	ppbv	ND	0.52	01/08/10 18:26	
THC as Gas	ppbv	ND	20.0	01/08/10 18:26	
Toluene	ppbv	ND	0.52	01/08/10 18:26	
trans-1,2-Dichloroethene	ppbv	ND	1.0	01/08/10 18:26	
trans-1,3-Dichloropropene	ppbv	ND	0.52	01/08/10 18:26	
Trichloroethene	ppbv	ND	0.52	01/08/10 18:26	
Trichlorofluoromethane	ppbv	ND	0.50	01/08/10 18:26	
Vinyl acetate	ppbv	ND	0.55	01/08/10 18:26	
Vinyl chloride	ppbv	ND	0.51	01/08/10 18:26	
Xylene (Total)	ppbv	ND	1.5	01/08/10 18:26	

LABORATORY CONTROL SAMPLE: 734955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10	10	100	60-125	
1,1,2,2-Tetrachloroethane	ppbv	10	11.1	111	57-127	
1,1,2-Trichloroethane	ppbv	10	10.2	102	56-125	
1,1,2-Trichlorotrifluoroethane	ppbv	10	9.1	91	52-133	
1,1-Dichloroethane	ppbv	10	9.7	97	54-127	
1,1-Dichloroethene	ppbv	10	9.6	96	52-129	
1,2,4-Trichlorobenzene	ppbv	10	10	100	30-150	
1,2,4-Trimethylbenzene	ppbv	10	10.1	101	52-145	
1,2-Dibromoethane (EDB)	ppbv	10	11.1	111	59-133	
1,2-Dichlorobenzene	ppbv	10	10.0	100	67-135	
1,2-Dichloroethane	ppbv	10	9.8	98	54-125	
1,2-Dichloropropane	ppbv	10	9.8	98	64-125	
1,3,5-Trimethylbenzene	ppbv	10	12.4	124	56-135	
1,3-Butadiene	ppbv	10	9.5	95	55-125	
1,3-Dichlorobenzene	ppbv	10	10.0	100	61-142	
1,4-Dichlorobenzene	ppbv	10	10.2	102	55-142	
1,4-Dioxane (p-Dioxane)	ppbv	10	8.9	89	70-130	
2,2,4-Trimethylpentane	ppbv	10	9.6	96	70-130	
2-Butanone (MEK)	ppbv	10	9.7	97	47-141	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10119238

LABORATORY CONTROL SAMPLE: 734955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ppbv	10	9.8	98	41-138	
2-Propanol	ppbv	10	8.1	81	63-125	
4-Ethyltoluene	ppbv	10	12.4	124	62-130	
4-Methyl-2-pentanone (MIBK)	ppbv	10	9.7	97	53-134	
Acetone	ppbv	10	10.2	102	44-149	
Benzene	ppbv	10	9.7	97	61-126	
Bromodichloromethane	ppbv	10	10.4	104	54-129	
Bromoform	ppbv	10	12.3	123	56-125	
Bromomethane	ppbv	10	9.6	96	56-128	
Carbon disulfide	ppbv	10	9.9	99	58-150	
Carbon tetrachloride	ppbv	10	10.2	102	55-125	
Chlorobenzene	ppbv	10	10.9	109	48-138	
Chloroethane	ppbv	10	9.4	94	56-128	
Chloroform	ppbv	10	10	100	55-125	
Chloromethane	ppbv	10	8.2	82	50-131	
cis-1,2-Dichloroethene	ppbv	10	9.8	98	64-125	
cis-1,3-Dichloropropene	ppbv	10	11.0	110	61-132	
Cyclohexane	ppbv	10	9.6	96	61-130	
Dibromochloromethane	ppbv	10	11.5	115	51-129	
Dichlorodifluoromethane	ppbv	10	9.5	95	56-132	
Dichlorotetrafluoroethane	ppbv	10	9.4	94	48-125	
Ethanol	ppbv	10	8.8	88	70-130	
Ethyl acetate	ppbv	10	9.5	95	66-149	
Ethylbenzene	ppbv	10	11.7	117	56-137	
Hexachloro-1,3-butadiene	ppbv	10	9.9	99	30-150	
Isopropylbenzene (Cumene)	ppbv	10.4	11.8	113	67-134	
m&p-Xylene	ppbv	20	23.5	117	62-135	
Methyl-tert-butyl ether	ppbv	10	9.8	98	59-125	
Methylene Chloride	ppbv	10	10.3	103	46-143	
n-Heptane	ppbv	10	9.6	96	64-130	
n-Hexane	ppbv	10	10.3	103	61-134	
Naphthalene	ppbv	10	10.0	100	30-150	
o-Xylene	ppbv	10	11.8	118	61-134	
Propylene	ppbv	10	10	100	62-146	
Styrene	ppbv	10	11.8	118	63-134	
Tetrachloroethene	ppbv	10	10.8	108	61-132	
Tetrahydrofuran	ppbv	10	9.7	97	62-137	
THC as Gas	ppbv	700	717	102	61-125	
Toluene	ppbv	10	10.3	103	57-132	
trans-1,2-Dichloroethene	ppbv	10	9.8	98	52-130	
trans-1,3-Dichloropropene	ppbv	10	11.6	116	61-129	
Trichloroethene	ppbv	10	9.3	93	72-147	
Trichlorofluoromethane	ppbv	10	9.8	98	58-141	
Vinyl acetate	ppbv	10	9.9	99	56-131	
Vinyl chloride	ppbv	10	9.6	96	56-136	
Xylene (Total)	ppbv	30	35.3	118	70-130	

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Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 0506-117-11 Parkwater
Pace Project No.: 10119238

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

January 05, 2010

Carol Davy
PACE ANALYTICAL
1700 Elm Street SE
Minneapolis, MN 55127-

Bureau Veritas Work Order No. 09121166

Reference: 10119238/0506-117-11 PARKWATER

Dear Carol Davy:

Bureau Veritas North America, Inc. received 1 sample on 12/22/2009 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

for

Karen Coonan
Client Services Representative

cc:

Bureau Veritas North America, Inc.
22345 Roethel Drive
Novi, MI 48375

Main: (248) 344.1770
Fax: (248) 344.2655
www.us.bureauveritas.com

CASE NARRATIVE

Date: *05-Jan-10*

Client: PACE ANALYTICAL

Project: 10119238/0506-117-11 PARKWATER

Work Order No 09121166

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

Please note that a field blank was not identified by the client for this sample set.

The following result has been converted from mg/m3 to ug/m3.
Sample -001A: THCs as Diesel = <1,200 ug/m3

ANALYTICAL RESULTS

Date: *05-Jan-10*

Client: PACE ANALYTICAL

Project: 10119238/0506-117-11 PARKWATER **Work Order No:** 09121166

Sample Identification: VP-CI-121709

Lab Number: 001A **Date Sampled:** 12/17/2009

Sample Type Charcoal Tube **Date Received:** 12/22/2009

Analyst CMI **Air Volume (L):** 8.18

Analyte	Analytical Results (µg)	Analytical Results (mg/m^3)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
THCs as Diesel	<10	<1.2	--	10	NIOSH 1550	12/30/2009

14 of 17

General Notes:
<: Less than the indicated reporting limit (RL).
--: Information not available or not applicable.
Back sections (if applicable) were checked and showed no significant breakthrough unless otherwise noted.

Chain of Custody

09121166

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Workorder: 10119238 **Workorder Name:** 0506-117-11 Parkwater **Results Requested** 1/5/2010

Report / Invoice To	Subcontract To
Carol Davy Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700 Email: carol.davy@pacelabs.com	Bureau Veritas P.O. 10119238

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: General	Requested Analysis: X Diesel 1550	LAB USE ONLY
1	VP-CI-121709	12/17/2009 12:57	10119238001	Air	1	X	
2							
3							
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time
1	Carol Davy Pace MN	12/18/09 1100	[illegible]	12/18/09 12:05 pm
2				
3				
4				
5				

Comments

Volume of air 8.180L

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10119238

01073 | Page: of

Section A Required Client Information:

Company: GeoEngineers
Address: 523 E 2nd Ave
Spokane WA 99202
Email To: bwilliams@geoengineers.com
Phone: 509-363-3125 Fax: 509-363-3126
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Bruce Williams
Copy To: Scott Lathen
slathen@geoengineers.com
Purchase Order No.:
Project Name: Parkwater
Project Number: 0506-117-01

Section C Invoice Information:

Attention: Bruce Sheppard
Company Name: BNSF
Address:
Pace Quote Reference: TT0101-J02
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☒ Emmisions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WA

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level: II. X III. IV. Other

Section D Required Client Information

AIR SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	SAMPLE TYPE G=Grab C=Composite	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field)	Canister Pressure (Final Field)	Summa Can Number	Method: TO-3 BTEX +TPH(ppmv)	TO-3M PPMV MEE	3C- Fixed Gas (%)	TO-14/15 VOCs	TO-15 (SIM VOCs)	TO-15 Low Level	TO-13 (PAH)	TO-4 (PCBs)	PM10	Pace Lab ID
1	VP-CI-121709	AC	C	12/7/09	1227	12/7/09	1257	-27"	+1"	1250	X				X					10119238001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments:

Sorbent tube included for NIOSH 1550 Analysis

Volum of Air ORIGINAL = 8,180 L

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Scott Lathen GEI	12/7/09	1615	[signature] MN	12/14/09	0932

SAMPLE CONDITIONS

Amb	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Scott Lathen

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/12/09

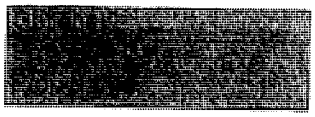
Pace Analytical

AIR Sample Condition Upon Receipt

Client Name: Geo Engineers Project #: 10119238

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

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



Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Tracking #: 12-FLT4-400 -4/4-9560-8099

Comments:

Date and Initials of person examining contents: 12/19/09

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☑No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☑N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Media: Summa		11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.

Samples Received: 1 CAN, 1 FC, 1 CARBON TUBE

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
001	1250	FC#	095				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

Project Manager Review: _____ **Date:** 12-2009

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

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Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10119238
Project Name: 0506-117-11 Parkwater

Lab Sample No: 10119238001 ProjSampleNum: 10119238001 Date Collected: 12/17/09 12:57
Client Sample ID: VP-CI-121709 Matrix: Air Date Received: 12/19/09 9:32

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
1,1,1-Trichloroethane	ND	ug/m3	3.6	1.25	01/08/10 22:05 CJR	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/m3	4.5	1.25	01/08/10 22:05 CJR	79-34-5	
1,1,2-Trichloroethane	ND	ug/m3	3.6	1.25	01/08/10 22:05 CJR	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	5.1	1.25	01/08/10 22:05 CJR	76-13-1	
1,1-Dichloroethane	ND	ug/m3	2.7	1.25	01/08/10 22:05 CJR	75-34-3	
1,1-Dichloroethene	ND	ug/m3	2.6	1.25	01/08/10 22:05 CJR	75-35-4	
1,2,4-Trichlorobenzene	ND	ug/m3	4.9	1.25	01/08/10 22:05 CJR	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/m3	3.2	1.25	01/08/10 22:05 CJR	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/m3	5.1	1.25	01/08/10 22:05 CJR	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.9	1.25	01/08/10 22:05 CJR	95-50-1	
1,2-Dichloroethane	ND	ug/m3	2.7	1.25	01/08/10 22:05 CJR	107-06-2	
1,2-Dichloropropane	ND	ug/m3	3.1	1.25	01/08/10 22:05 CJR	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/m3	3.2	1.25	01/08/10 22:05 CJR	108-67-8	
1,3-Butadiene	ND	ug/m3	1.5	1.25	01/08/10 22:05 CJR	106-99-0	
1,3-Dichlorobenzene	ND	ug/m3	3.9	1.25	01/08/10 22:05 CJR	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	3.9	1.25	01/08/10 22:05 CJR	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.44	1.25	01/08/10 22:05 CJR	123-91-1	
2,2,4-Trimethylpentane	9.5	ug/m3	2.9	1.25	01/08/10 22:05 CJR	540-84-1	
2-Butanone (MEK)	7.2	ug/m3	2.1	1.25	01/08/10 22:05 CJR	78-93-3	
2-Hexanone	ND	ug/m3	2.9	1.25	01/08/10 22:05 CJR	591-78-6	
2-Propanol	11.2	ug/m3	1.5	1.25	01/08/10 22:05 CJR	67-63-0	
4-Ethyltoluene	ND	ug/m3	3.3	1.25	01/08/10 22:05 CJR	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.9	1.25	01/08/10 22:05 CJR	108-10-1	
Acetone	23.2	ug/m3	1.7	1.25	01/08/10 22:05 CJR	67-64-1	
Benzene	ND	ug/m3	2.1	1.25	01/08/10 22:05 CJR	71-43-2	
Bromodichloromethane	ND	ug/m3	4.4	1.25	01/08/10 22:05 CJR	75-27-4	
Bromoform	ND	ug/m3	6.8	1.25	01/08/10 22:05 CJR	75-25-2	
Bromomethane	ND	ug/m3	2.5	1.25	01/08/10 22:05 CJR	74-83-9	
Carbon disulfide	2.6	ug/m3	2	1.25	01/08/10 22:05 CJR	75-15-0	
Carbon tetrachloride	ND	ug/m3	4.1	1.25	01/08/10 22:05 CJR	56-23-5	
Chlorobenzene	ND	ug/m3	3	1.25	01/08/10 22:05 CJR	108-90-7	
Chloroethane	ND	ug/m3	1.7	1.25	01/08/10 22:05 CJR	75-00-3	
Chloroform	ND	ug/m3	3.2	1.25	01/08/10 22:05 CJR	67-66-3	
Chloromethane	ND	ug/m3	1.3	1.25	01/08/10 22:05 CJR	74-87-3	
cis-1,2-Dichloroethene	ND	ug/m3	2.6	1.25	01/08/10 22:05 CJR	156-59-2	
cis-1,3-Dichloropropene	ND	ug/m3	3	1.25	01/08/10 22:05 CJR	10061-01-5	
Cyclohexane	2.41	ug/m3	2.3	1.25	01/08/10 22:05 CJR	110-82-7	
Dibromochloromethane	ND	ug/m3	5.7	1.25	01/08/10 22:05 CJR	124-48-1	

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10119238
Project Name: 0506-117-11 Parkwater

Dichlorodifluoromethane	ND	ug/m3	3.2	1.25	01/08/10 22:05	CJR	75-71-8
Dichlorotetrafluoroethane	ND	ug/m3	5	1.25	01/08/10 22:05	CJR	76-14-2
Ethanol	9.58	ug/m3	1.2	1.25	01/08/10 22:05	CJR	64-17-5
Ethyl acetate	ND	ug/m3	2.3	1.25	01/08/10 22:05	CJR	141-78-6
Ethylbenzene	ND	ug/m3	2.9	1.25	01/08/10 22:05	CJR	100-41-4
Hexachloro-1,3-butadiene	ND	ug/m3	6.7	1.25	01/08/10 22:05	CJR	87-68-3
Isopropylbenzene (Cumene)	ND	ug/m3	3.1	1.25	01/08/10 22:05	CJR	98-82-8
m&p-Xylene	ND	ug/m3	5.3	1.25	01/08/10 22:05	CJR	1330-20-7
Methylene Chloride	ND	ug/m3	2.3	1.25	01/08/10 22:05	CJR	75-09-2
Methyl-tert-butyl ether	ND	ug/m3	4.4	1.25	01/08/10 22:05	CJR	1634-04-4
Naphthalene	ND	ug/m3	3.3	1.25	01/08/10 22:05	CJR	91-20-3
n-Heptane	ND	ug/m3	2.7	1.25	01/08/10 22:05	CJR	142-82-5
n-Hexane	ND	ug/m3	2.4	1.25	01/08/10 22:05	CJR	110-54-3
o-Xylene	ND	ug/m3	2.9	1.25	01/08/10 22:05	CJR	95-47-6
Propylene	8.22	ug/m3	4.4	1.25	01/08/10 22:05	CJR	115-07-1
Styrene	ND	ug/m3	3	1.25	01/08/10 22:05	CJR	100-42-5
Tetrachloroethene	4.55	ug/m3	4.5	1.25	01/08/10 22:05	CJR	127-18-4
Tetrahydrofuran	ND	ug/m3	1.9	1.25	01/08/10 22:05	CJR	109-99-9
THC as Gas	41600	ug/m3	110	1.25	01/08/10 22:05	CJR	
Toluene	ND	ug/m3	2.5	1.25	01/08/10 22:05	CJR	108-88-3
trans-1,2-Dichloroethene	ND	ug/m3	4.8	1.25	01/08/10 22:05	CJR	156-60-5
trans-1,3-Dichloropropene	ND	ug/m3	3	1.25	01/08/10 22:05	CJR	10061-02-6
Trichloroethene	ND	ug/m3	3.6	1.25	01/08/10 22:05	CJR	79-01-6
Trichlorofluoromethane	ND	ug/m3	3.5	1.25	01/08/10 22:05	CJR	75-69-4
Vinyl acetate	4.65	ug/m3	2.5	1.25	01/08/10 22:05	CJR	108-05-4
Vinyl chloride	ND	ug/m3	1.7	1.25	01/08/10 22:05	CJR	75-01-4
Xylene (Total)	ND	ug/m3	8.4	1.25	01/08/10 22:05	CJR	1330-20-7

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

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Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10119238
Project Name: 0506-117-11 Parkwater

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT
Units Conversion Request

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(612)607-1700

October 28, 2009

Bruce Williams
GeoEngineers,Inc.
523 East Second Ave
Spokane, WA 99202

RE: Project: 0506-117-10 Parkwater
Pace Project No.: 10114487

Dear Bruce Williams:
Enclosed are the analytical results for sample(s) received by the laboratory on October 13, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carol Davy

carol.davy@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 0506-117-10 Parkwater
Pace Project No.: 10114487

Minnesota Certification IDs
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 0506-117-10 Parkwater
Pace Project No.: 10114487

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10114487001	**VP-CI-100909**	Air	10/09/09 14:07	10/13/09 09:13

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SAMPLE ANALYTE COUNT

Project: 0506-117-10 Parkwater
Pace Project No.: 10114487

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10114487001	**VP-CI-100909**	TO-15	LCW	65	PASI-M

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PROJECT NARRATIVE

Project: 0506-117-10 Parkwater
Pace Project No.: 10114487

Method: **TO-15**
Description: TO15 MSV AIR
Client: GeoEngineers,Inc.
Date: October 28, 2009

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/9303

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- BLANK (Lab ID: 703275)
  - 1,4-Dioxane (p-Dioxane)
- LCS (Lab ID: 703276)
  - 1,4-Dioxane (p-Dioxane)
- VP-CI-100909 (Lab ID: 10114487001)
  - 1,4-Dioxane (p-Dioxane)

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: AIR/9303

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 703276)
  - Carbon tetrachloride
  - Naphthalene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 0506-117-10 Parkwater
Pace Project No.: 10114487

Method: **TO-15**
Description: TO15 MSV AIR
Client: GeoEngineers,Inc.
Date: October 28, 2009

Analyte Comments:

QC Batch: AIR/9303

E: Analyte concentration exceeded the calibration range. The reported result is estimated.
- VP-CI-100909 (Lab ID: 10114487001)
  - Methylene Chloride

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 0506-117-10 Parkwater
Pace Project No.: 10114487

Sample: VP-CI-100909 **Lab ID: 10114487001** Collected: 10/09/09 14:07 Received: 10/13/09 09:13 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,1-Trichloroethane	**0.69**	ppbv	0.65	0.32	1.25		10/28/09 11:57	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	76-13-1	
1,1-Dichloroethane	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	75-35-4	
1,2,4-Trichlorobenzene	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	120-82-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.64	0.32	1.25		10/28/09 11:57	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.64	0.32	1.25		10/28/09 11:57	95-50-1	
1,2-Dichloroethane	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	107-06-2	
1,2-Dichloropropane	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	108-67-8	
1,3-Butadiene	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	106-99-0	
1,3-Dichlorobenzene	ND	ppbv	0.64	0.32	1.25		10/28/09 11:57	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.64	0.32	1.25		10/28/09 11:57	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	0.12	0.062	1.25		10/28/09 10:22	123-91-1	SS
2,2,4-Trimethylpentane	**11.2**	ppbv	0.62	0.31	1.25		10/28/09 11:57	540-84-1	
2-Butanone (MEK)	ND	ppbv	0.69	0.34	1.25		10/28/09 11:57	78-93-3	
2-Hexanone	ND	ppbv	0.69	0.34	1.25		10/28/09 11:57	591-78-6	
2-Propanol	**5.0**	ppbv	0.62	0.31	1.25		10/28/09 11:57	67-63-0	
4-Ethyltoluene	ND	ppbv	0.66	0.33	1.25		10/28/09 11:57	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	0.69	0.34	1.25		10/28/09 11:57	108-10-1	
Acetone	**17.3**	ppbv	0.69	0.34	1.25		10/28/09 11:57	67-64-1	
Benzene	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	71-43-2	
Bromodichloromethane	ND	ppbv	0.64	0.32	1.25		10/28/09 11:57	75-27-4	
Bromoform	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	75-25-2	
Bromomethane	ND	ppbv	0.64	0.32	1.25		10/28/09 11:57	74-83-9	
Carbon disulfide	**2.1**	ppbv	0.62	0.31	1.25		10/28/09 11:57	75-15-0	
Carbon tetrachloride	ND	ppbv	0.64	0.32	1.25		10/28/09 11:57	56-23-5	
Chlorobenzene	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	108-90-7	
Chloroethane	ND	ppbv	0.64	0.32	1.25		10/28/09 11:57	75-00-3	
Chloroform	ND	ppbv	0.64	0.32	1.25		10/28/09 11:57	67-66-3	
Chloromethane	ND	ppbv	0.62	0.31	1.25		10/28/09 11:57	74-87-3	
Cyclohexane	**4.9**	ppbv	0.65	0.32	1.25		10/28/09 11:57	110-82-7	
Dibromochloromethane	ND	ppbv	0.66	0.33	1.25		10/28/09 11:57	124-48-1	
Dichlorodifluoromethane	ND	ppbv	0.64	0.32	1.25		10/28/09 11:57	75-71-8	
Dichlorotetrafluoroethane	ND	ppbv	0.71	0.36	1.25		10/28/09 11:57	76-14-2	
Ethanol	**4.0**	ppbv	0.62	0.31	1.25		10/28/09 11:57	64-17-5	
Ethyl acetate	ND	ppbv	0.64	0.32	1.25		10/28/09 11:57	141-78-6	
Ethylbenzene	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.62	0.31	1.25		10/28/09 11:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ppbv	0.62	0.31	1.25		10/28/09 11:57	98-82-8	
Methyl-tert-butyl ether	ND	ppbv	1.2	0.62	1.25		10/28/09 11:57	1634-04-4	
Methylene Chloride	**70.5**	ppbv	0.65	0.32	1.25		10/28/09 11:57	75-09-2	E
Naphthalene	ND	ppbv	0.62	0.31	1.25		10/28/09 11:57	91-20-3	

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ANALYTICAL RESULTS

Project: 0506-117-10 Parkwater
Pace Project No.: 10114487

Sample: VP-CI-100909 **Lab ID: 10114487001** Collected: 10/09/09 14:07 Received: 10/13/09 09:13 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Propylene	ND	ppbv	2.5	1.2	1.25		10/28/09 11:57	115-07-1	
Styrene	ND	ppbv	0.69	0.34	1.25		10/28/09 11:57	100-42-5	
THC as Gas	**13800**	ppbv	25.0	12.5	1.25		10/28/09 11:57		
Tetrachloroethene	**1.4**	ppbv	0.65	0.32	1.25		10/28/09 11:57	127-18-4	
Tetrahydrofuran	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	109-99-9	
Toluene	**0.94**	ppbv	0.65	0.32	1.25		10/28/09 11:57	108-88-3	
Trichloroethene	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	79-01-6	
Trichlorofluoromethane	**1.3**	ppbv	0.62	0.31	1.25		10/28/09 11:57	75-69-4	
Vinyl acetate	ND	ppbv	0.69	0.34	1.25		10/28/09 11:57	108-05-4	
Vinyl chloride	ND	ppbv	0.64	0.32	1.25		10/28/09 11:57	75-01-4	
Xylene (Total)	ND	ppbv	1.9	0.94	1.25		10/28/09 11:57	1330-20-7	
cis-1,2-Dichloroethene	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	0.64	0.32	1.25		10/28/09 11:57	10061-01-5	
m&p-Xylene	ND	ppbv	1.2	0.62	1.25		10/28/09 11:57	1330-20-7	
n-Heptane	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	142-82-5	
n-Hexane	**25.7**	ppbv	0.66	0.33	1.25		10/28/09 11:57	110-54-3	
o-Xylene	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	95-47-6	
trans-1,2-Dichloroethene	ND	ppbv	1.2	0.62	1.25		10/28/09 11:57	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	0.65	0.32	1.25		10/28/09 11:57	10061-02-6	

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QUALITY CONTROL DATA

Project: 0506-117-10 Parkwater
Pace Project No.: 10114487

QC Batch: AIR/9303 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10114487001

METHOD BLANK: 703275 Matrix: Air
Associated Lab Samples: 10114487001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.52	10/28/09 11:17	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.52	10/28/09 11:17	
1,1,2-Trichloroethane	ppbv	ND	0.52	10/28/09 11:17	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.52	10/28/09 11:17	
1,1-Dichloroethane	ppbv	ND	0.52	10/28/09 11:17	
1,1-Dichloroethene	ppbv	ND	0.52	10/28/09 11:17	
1,2,4-Trichlorobenzene	ppbv	ND	0.52	10/28/09 11:17	
1,2,4-Trimethylbenzene	ppbv	ND	0.51	10/28/09 11:17	
1,2-Dibromoethane (EDB)	ppbv	ND	0.52	10/28/09 11:17	
1,2-Dichlorobenzene	ppbv	ND	0.51	10/28/09 11:17	
1,2-Dichloroethane	ppbv	ND	0.52	10/28/09 11:17	
1,2-Dichloropropane	ppbv	ND	0.52	10/28/09 11:17	
1,3,5-Trimethylbenzene	ppbv	ND	0.52	10/28/09 11:17	
1,3-Butadiene	ppbv	ND	0.52	10/28/09 11:17	
1,3-Dichlorobenzene	ppbv	ND	0.51	10/28/09 11:17	
1,4-Dichlorobenzene	ppbv	ND	0.51	10/28/09 11:17	
1,4-Dioxane (p-Dioxane)	ppbv	ND	0.10	10/28/09 09:51	SS
2,2,4-Trimethylpentane	ppbv	ND	0.50	10/28/09 11:17	
2-Butanone (MEK)	ppbv	ND	0.55	10/28/09 11:17	
2-Hexanone	ppbv	ND	0.55	10/28/09 11:17	
2-Propanol	ppbv	ND	0.50	10/28/09 11:17	
4-Ethyltoluene	ppbv	ND	0.53	10/28/09 11:17	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	0.55	10/28/09 11:17	
Acetone	ppbv	ND	0.55	10/28/09 11:17	
Benzene	ppbv	ND	0.52	10/28/09 11:17	
Bromodichloromethane	ppbv	ND	0.51	10/28/09 11:17	
Bromoform	ppbv	ND	0.52	10/28/09 11:17	
Bromomethane	ppbv	ND	0.51	10/28/09 11:17	
Carbon disulfide	ppbv	ND	0.50	10/28/09 11:17	
Carbon tetrachloride	ppbv	ND	0.51	10/28/09 11:17	
Chlorobenzene	ppbv	ND	0.52	10/28/09 11:17	
Chloroethane	ppbv	ND	0.51	10/28/09 11:17	
Chloroform	ppbv	ND	0.51	10/28/09 11:17	
Chloromethane	ppbv	ND	0.50	10/28/09 11:17	
cis-1,2-Dichloroethene	ppbv	ND	0.52	10/28/09 11:17	
cis-1,3-Dichloropropene	ppbv	ND	0.51	10/28/09 11:17	
Cyclohexane	ppbv	ND	0.52	10/28/09 11:17	
Dibromochloromethane	ppbv	ND	0.53	10/28/09 11:17	
Dichlorodifluoromethane	ppbv	ND	0.51	10/28/09 11:17	
Dichlorotetrafluoroethane	ppbv	ND	0.57	10/28/09 11:17	
Ethanol	ppbv	ND	0.50	10/28/09 11:17	
Ethyl acetate	ppbv	ND	0.51	10/28/09 11:17	
Ethylbenzene	ppbv	ND	0.52	10/28/09 11:17	

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QUALITY CONTROL DATA

Project: 0506-117-10 Parkwater
Pace Project No.: 10114487

METHOD BLANK: 703275 Matrix: Air

Associated Lab Samples: 10114487001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ppbv	ND	0.50	10/28/09 11:17	
Isopropylbenzene (Cumene)	ppbv	ND	0.50	10/28/09 11:17	
m&p-Xylene	ppbv	ND	1.0	10/28/09 11:17	
Methyl-tert-butyl ether	ppbv	ND	1.0	10/28/09 11:17	
Methylene Chloride	ppbv	ND	0.52	10/28/09 11:17	
n-Heptane	ppbv	ND	0.52	10/28/09 11:17	
n-Hexane	ppbv	ND	0.53	10/28/09 11:17	
Naphthalene	ppbv	ND	0.50	10/28/09 11:17	
o-Xylene	ppbv	ND	0.52	10/28/09 11:17	
Propylene	ppbv	ND	2.0	10/28/09 11:17	
Styrene	ppbv	ND	0.55	10/28/09 11:17	
Tetrachloroethene	ppbv	ND	0.52	10/28/09 11:17	
Tetrahydrofuran	ppbv	ND	0.52	10/28/09 11:17	
THC as Gas	ppbv	ND	20.0	10/28/09 11:17	
Toluene	ppbv	ND	0.52	10/28/09 11:17	
trans-1,2-Dichloroethene	ppbv	ND	1.0	10/28/09 11:17	
trans-1,3-Dichloropropene	ppbv	ND	0.52	10/28/09 11:17	
Trichloroethene	ppbv	ND	0.52	10/28/09 11:17	
Trichlorofluoromethane	ppbv	ND	0.50	10/28/09 11:17	
Vinyl acetate	ppbv	ND	0.55	10/28/09 11:17	
Vinyl chloride	ppbv	ND	0.51	10/28/09 11:17	
Xylene (Total)	ppbv	ND	1.5	10/28/09 11:17	

LABORATORY CONTROL SAMPLE: 703276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10.3	9.3	91	60-125	
1,1,2,2-Tetrachloroethane	ppbv	10.2	10.2	100	57-127	
1,1,2-Trichloroethane	ppbv	10.1	8.8	87	56-125	
1,1,2-Trichlorotrifluoroethane	ppbv	9.8	7.8	80	52-133	
1,1-Dichloroethane	ppbv	10	9.4	94	54-127	
1,1-Dichloroethene	ppbv	10	10.9	109	52-129	
1,2,4-Trichlorobenzene	ppbv	9.9	12.7	128	30-150	
1,2,4-Trimethylbenzene	ppbv	9.9	10.9	110	52-145	
1,2-Dibromoethane (EDB)	ppbv	10.4	9.6	92	59-133	
1,2-Dichlorobenzene	ppbv	10.2	11.3	111	67-135	
1,2-Dichloroethane	ppbv	10.9	9.6	88	54-125	
1,2-Dichloropropane	ppbv	10.8	10.5	98	64-125	
1,3,5-Trimethylbenzene	ppbv	9.9	11.1	112	56-135	
1,3-Butadiene	ppbv	10.1	11.1	110	55-125	
1,3-Dichlorobenzene	ppbv	10.5	10.9	104	61-142	
1,4-Dichlorobenzene	ppbv	10.3	10.5	102	55-142	
1,4-Dioxane (p-Dioxane)	ppbv	10	2.4	24	70-130	SS
2,2,4-Trimethylpentane	ppbv	10	8.8	88	70-130	
2-Butanone (MEK)	ppbv	10.3	8.7	84	47-141	

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QUALITY CONTROL DATA

Project: 0506-117-10 Parkwater
Pace Project No.: 10114487

LABORATORY CONTROL SAMPLE: 703276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ppbv	10.1	8.3	83	41-138	
2-Propanol	ppbv	9.5	7.6	80	63-125	
4-Ethyltoluene	ppbv	10	9.6	96	62-130	
4-Methyl-2-pentanone (MIBK)	ppbv	10.2	7.8	76	53-134	
Acetone	ppbv	10	6.0	60	44-149	
Benzene	ppbv	10.1	11.7	116	61-126	
Bromodichloromethane	ppbv	10	9.9	99	54-129	
Bromoform	ppbv	10.2	11.3	111	56-125	
Bromomethane	ppbv	10.1	11.5	114	56-128	
Carbon disulfide	ppbv	10.3	8.4	82	58-150	
Carbon tetrachloride	ppbv	10.1	18.4	182	55-125	L3
Chlorobenzene	ppbv	9.9	9.7	98	48-138	
Chloroethane	ppbv	9.9	10.8	109	56-128	
Chloroform	ppbv	9.7	11.9	123	55-125	
Chloromethane	ppbv	10	11.8	118	50-131	
cis-1,2-Dichloroethene	ppbv	10.3	9.6	93	64-125	
cis-1,3-Dichloropropene	ppbv	10.5	10.7	102	61-132	
Cyclohexane	ppbv	10.2	12.9	127	61-130	
Dibromochloromethane	ppbv	10.5	10.6	101	51-129	
Dichlorodifluoromethane	ppbv	9.8	8.7	88	56-132	
Dichlorotetrafluoroethane	ppbv	10	9.9	99	48-125	
Ethanol	ppbv	10	7.0	70	70-130	
Ethyl acetate	ppbv	10.2	9.1	89	66-149	
Ethylbenzene	ppbv	11	10.9	99	56-137	
Hexachloro-1,3-butadiene	ppbv	9.8	13.4	136	30-150	
Isopropylbenzene (Cumene)	ppbv	10.4	10.8	104	67-134	
m&p-Xylene	ppbv	21	21.2	101	62-135	
Methyl-tert-butyl ether	ppbv	10	10.5	105	59-125	
Methylene Chloride	ppbv	9.8	6.8	70	46-143	
n-Heptane	ppbv	10.3	8.4	81	64-130	
n-Hexane	ppbv	10.9	9.8	90	61-134	
Naphthalene	ppbv	9.5	15.8	166	30-150	L3
o-Xylene	ppbv	10.3	10	97	61-134	
Propylene	ppbv	10.6	7.2	67	62-146	
Styrene	ppbv	10	10.2	102	63-134	
Tetrachloroethene	ppbv	10.4	12.7	122	61-132	
Tetrahydrofuran	ppbv	7.5	4.9	65	62-137	
THC as Gas	ppbv	700	794	113	61-125	
Toluene	ppbv	10.4	9.3	89	57-132	
trans-1,2-Dichloroethene	ppbv	10.4	10.8	104	52-130	
trans-1,3-Dichloropropene	ppbv	10.6	10.2	96	61-129	
Trichloroethene	ppbv	10.1	10.6	105	72-147	
Trichlorofluoromethane	ppbv	9.8	11.0	112	58-141	
Vinyl acetate	ppbv	10.3	10.2	99	56-131	
Vinyl chloride	ppbv	10.3	10.3	100	56-136	
Xylene (Total)	ppbv	31.3	31.2	100	70-130	

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www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 0506-117-10 Parkwater
Pace Project No.: 10114487

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

October 20, 2009

Carol Davy
PACE ANALYTICAL
1700 Elm Street SE
Minneapolis, MN 55127-

Bureau Veritas Work Order No. 09100677

Reference: 0506-117-10 PARKWATER

Dear Carol Davy:

Bureau Veritas North America, Inc. received 1 sample on 10/15/2009 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

for

Karen Coonan
Client Services Representative

cc:

Bureau Veritas North America, Inc.
22345 Roethel Drive
Novi, MI 48375

Main: (248) 344.1770
Fax: (248) 344.2655
www.us.bureauveritas.com

CASE NARRATIVE

Date: *22-Oct-09*

Client: PACE ANALYTICAL

Project: 0506-117-10 PARKWATER

Work Order No 09100677

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, and 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results.

The industrial hygiene results have not been blank corrected. Please note that a field blank was not identified by the client for this sample set.

The following result has been converted from mg/m3 to ug/m3:

Sample -001A: THCs as Diesel = <1300 ug/m3

ANALYTICAL RESULTS

Date: *20-Oct-09*

Client: PACE ANALYTICAL

Project: 0506-117-10 PARKWATER **Work Order No:** 09100677

Sample Identification: VP-CI-100909

Lab Number: 001A **Date Sampled:** 10/9/2009

Sample Type Charcoal Tube **Date Received:** 10/15/2009

Analyst CMI **Air Volume (L):** 8

Analyte	Analytical Results (µg)	(mg/m³)	(ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
THCs as Diesel	<10	<1.3	--	10	NIOSH 1550	10/16/2009

15 of 18

General Notes:
<: Less than the indicated reporting limit (RL).
--: Information not available or not applicable.
Back sections (if applicable) were checked and showed no significant breakthrough unless otherwise noted.

Chain of Custody

09100677

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www.pacelabs.com

Workorder: 10114487 **Workorder Name:** 0506-117-10 Parkwater **Results Requested** 10/26/2009

Report / Invoice To	Subcontract To
Carol Davy Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700 Email: carol.davy@pacelabs.com	Bureau Veritas P.O. 10114487

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: General	Requested Analysis: Diesel 1550	LAB USE ONLY
1	VP-CI-100909	10/9/2009 14:07	10114487001	Air	1	X	
2							
3							
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time
1	Carol Davy Pace Anl	10/14/09 1002	[illegible]	10/15/09
2				
3				
4				
5				

Comments: 1205p

Sample volume 8.000L

Please email report to: carol.davy@pacelabs.com

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10114487

00328 | Page: 1 of 1

17 of 18

Section A Required Client Information:

Company: GeoEngineers
Address: 523 E 2nd Ave
Spokane WA 99202
Email To: bwilliams@geoengineers.com
Phone: 509 363 3125 | Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Bruce Williams
Copy To: Scott Lathen slathen@geoengineers.com
Purchase Order No.:
Project Name: Parkwater
Project Number: 0806-117-10

Section C Invoice Information:

Attention: Bruce Sheppard
Company Name: BNSF
Address:
Pace Quote Reference: WO# TTO101-J02
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☒ Emmisions ☐ Clean Air Act ☒ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WA

Reporting Units: ug/m³ ☒ mg/m³ ☐ PPBV ☐ PPMV ☐ Other

Report Level II.☐ III.☐ IV.☐ Other

Section D Required Client Information

AIR SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	SAMPLE TYPE G=Grab C=Composite	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field)	Canister Pressure (Final Field)	Summa Can Number	Method: TO-3 BTEX,+TPH(gas/mv)	TO-3M PPMV MEE	3C- Fixed Gas (%)	TO-14/15 (SIM VOCs)	TO-15 (Low Level)	TO-13 (PAH)	TO-4 (PCBs)	PM10	NIOSH 1550	Pace Lab ID
1	VP-CI-100909	6C	C	10/9/09	~~1253~~ 1353	10/9/09	~~1307~~ 1407	-27	+2	07799	X				X			X		10114487001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments:

1 sorbent sample tube included for NIOSH 1550 Analysis:
Sample Volume = 8.000 L

ORIGINAL

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Scott Lathen / GET	10/12/09	0800	[signature]	10.13.09	0913

SAMPLE CONDITIONS

AMB	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Scott Lathen
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 10/12/09

AIR Sample Condition Upon Receipt

Pace Analytical

Client Name: GEO ENGINEERS Project # 10114487

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

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

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other_____

Tracking #: 1Z R64 A00 0192 5014 04

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 10-13-09 AK

Comments:

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Media: AIR (CAN, CHARCOAL TUBE)		11.
Sample Labels match COC:	☐Yes ☐No ☐N/A	12.

Samples Received: 1 CAN, 1 FC, 1 CHARCOAL TUBE

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
VP-CI-100[illegible]	0779		8588				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: DMP **Date:** 10/14/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

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Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10114487
Project Name: 0506-117-10 Parkwater

Lab Sample No: 10114487001 ProjSampleNum: 10114487001 Date Collected: 10/09/09 14:07
Client Sample ID: VP-CI-100909 Matrix: Air Date Received: 10/13/09 9:13

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
1,1,1-Trichloroethane	3.83	ug/m3	3.6	1.25	10/28/09 11:57 LCW	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/m3	4.5	1.25	10/28/09 11:57 LCW	79-34-5	
1,1,2-Trichloroethane	ND	ug/m3	3.6	1.25	10/28/09 11:57 LCW	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	5.1	1.25	10/28/09 11:57 LCW	76-13-1	
1,1-Dichloroethane	ND	ug/m3	2.7	1.25	10/28/09 11:57 LCW	75-34-3	
1,1-Dichloroethene	ND	ug/m3	2.6	1.25	10/28/09 11:57 LCW	75-35-4	
1,2,4-Trichlorobenzene	ND	ug/m3	4.9	1.25	10/28/09 11:57 LCW	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/m3	3.2	1.25	10/28/09 11:57 LCW	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/m3	5.1	1.25	10/28/09 11:57 LCW	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.9	1.25	10/28/09 11:57 LCW	95-50-1	
1,2-Dichloroethane	ND	ug/m3	2.7	1.25	10/28/09 11:57 LCW	107-06-2	
1,2-Dichloropropane	ND	ug/m3	3.1	1.25	10/28/09 11:57 LCW	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/m3	3.2	1.25	10/28/09 11:57 LCW	108-67-8	
1,3-Butadiene	ND	ug/m3	1.5	1.25	10/28/09 11:57 LCW	106-99-0	
1,3-Dichlorobenzene	ND	ug/m3	3.9	1.25	10/28/09 11:57 LCW	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	3.9	1.25	10/28/09 11:57 LCW	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.44	1.25	10/28/09 10:22 LCW	123-91-1	SS
2,2,4-Trimethylpentane	53.2	ug/m3	2.9	1.25	10/28/09 11:57 LCW	540-84-1	
2-Butanone (MEK)	ND	ug/m3	2.1	1.25	10/28/09 11:57 LCW	78-93-3	
2-Hexanone	ND	ug/m3	2.9	1.25	10/28/09 11:57 LCW	591-78-6	
2-Propanol	12.5	ug/m3	1.5	1.25	10/28/09 11:57 LCW	67-63-0	
4-Ethyltoluene	ND	ug/m3	3.3	1.25	10/28/09 11:57 LCW	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.9	1.25	10/28/09 11:57 LCW	108-10-1	
Acetone	41.8	ug/m3	1.7	1.25	10/28/09 11:57 LCW	67-64-1	
Benzene	ND	ug/m3	2.1	1.25	10/28/09 11:57 LCW	71-43-2	
Bromodichloromethane	ND	ug/m3	4.4	1.25	10/28/09 11:57 LCW	75-27-4	
Bromoform	ND	ug/m3	6.8	1.25	10/28/09 11:57 LCW	75-25-2	
Bromomethane	ND	ug/m3	2.5	1.25	10/28/09 11:57 LCW	74-83-9	
Carbon disulfide	6.65	ug/m3	2	1.25	10/28/09 11:57 LCW	75-15-0	
Carbon tetrachloride	ND	ug/m3	4.1	1.25	10/28/09 11:57 LCW	56-23-5	
Chlorobenzene	ND	ug/m3	3	1.25	10/28/09 11:57 LCW	108-90-7	

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10114487
Project Name: 0506-117-10 Parkwater

Chloroethane	ND	ug/m3	1.7	1.25	10/28/09 11:57	LCW	75-00-3
Chloroform	ND	ug/m3	3.2	1.25	10/28/09 11:57	LCW	67-66-3
Chloromethane	ND	ug/m3	1.3	1.25	10/28/09 11:57	LCW	74-87-3
cis-1,2-Dichloroethene	ND	ug/m3	2.6	1.25	10/28/09 11:57	LCW	156-59-2
cis-1,3-Dichloropropene	ND	ug/m3	3	1.25	10/28/09 11:57	LCW	10061-01-5
Cyclohexane	17.1	ug/m3	2.3	1.25	10/28/09 11:57	LCW	110-82-7
Dibromochloromethane	ND	ug/m3	5.7	1.25	10/28/09 11:57	LCW	124-48-1
Dichlorodifluoromethane	ND	ug/m3	3.2	1.25	10/28/09 11:57	LCW	75-71-8
Dichlorotetrafluoroethane	ND	ug/m3	5	1.25	10/28/09 11:57	LCW	76-14-2
Ethanol	7.66	ug/m3	1.2	1.25	10/28/09 11:57	LCW	64-17-5
Ethyl acetate	ND	ug/m3	2.3	1.25	10/28/09 11:57	LCW	141-78-6
Ethylbenzene	ND	ug/m3	2.9	1.25	10/28/09 11:57	LCW	100-41-4
Hexachloro-1,3-butadiene	ND	ug/m3	6.7	1.25	10/28/09 11:57	LCW	87-68-3
Isopropylbenzene (Cumene)	ND	ug/m3	3.1	1.25	10/28/09 11:57	LCW	98-82-8
m&p-Xylene	ND	ug/m3	5.3	1.25	10/28/09 11:57	LCW	1330-20-7
Methylene Chloride	249	ug/m3	2.3	1.25	10/28/09 11:57	LCW	75-09-2 E
Methyl-tert-butyl ether	ND	ug/m3	4.4	1.25	10/28/09 11:57	LCW	1634-04-4
Naphthalene	ND	ug/m3	3.3	1.25	10/28/09 11:57	LCW	91-20-3
n-Heptane	ND	ug/m3	2.7	1.25	10/28/09 11:57	LCW	142-82-5
n-Hexane	92.1	ug/m3	2.4	1.25	10/28/09 11:57	LCW	110-54-3
o-Xylene	ND	ug/m3	2.9	1.25	10/28/09 11:57	LCW	95-47-6
Propylene	ND	ug/m3	4.4	1.25	10/28/09 11:57	LCW	115-07-1
Styrene	ND	ug/m3	3	1.25	10/28/09 11:57	LCW	100-42-5
Tetrachloroethene	9.65	ug/m3	4.5	1.25	10/28/09 11:57	LCW	127-18-4
Tetrahydrofuran	ND	ug/m3	1.9	1.25	10/28/09 11:57	LCW	109-99-9
THC as Gas	59900	ug/m3	110	1.25	10/28/09 11:57	LCW	
Toluene	3.6	ug/m3	2.5	1.25	10/28/09 11:57	LCW	108-88-3
trans-1,2-Dichloroethene	ND	ug/m3	4.8	1.25	10/28/09 11:57	LCW	156-60-5
trans-1,3-Dichloropropene	ND	ug/m3	3	1.25	10/28/09 11:57	LCW	10061-02-6
Trichloroethene	ND	ug/m3	3.6	1.25	10/28/09 11:57	LCW	79-01-6
Trichlorofluoromethane	7.42	ug/m3	3.5	1.25	10/28/09 11:57	LCW	75-69-4
Vinyl acetate	ND	ug/m3	2.5	1.25	10/28/09 11:57	LCW	108-05-4
Vinyl chloride	ND	ug/m3	1.7	1.25	10/28/09 11:57	LCW	75-01-4
Xylene (Total)	ND	ug/m3	8.4	1.25	10/28/09 11:57	LCW	1330-20-7

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10114487
Project Name: 0506-117-10 Parkwater

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical
www.paceiabs.com

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10114487
Project Name: 0506-117-10 Parkwater

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

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

[E] Analyte concentration exceeded the calibration range. The reported result is estimated.

[SS] This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

Pace Analytical®
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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

November 05, 2009

Bruce Williams
GeoEngineers,Inc.
523 East Second Ave
Spokane, WA 99202

RE: Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

Dear Bruce Williams:
Enclosed are the analytical results for sample(s) received by the laboratory on October 23, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carol Davy

Carol Davy

carol.davy@pacelabs.com
Project Manager

Enclosures

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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CERTIFICATIONS

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

Minnesota Certification IDs
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10115347001	**VP-CI-102209**	Air	10/22/09 11:45	10/23/09 09:09
10115347002	**VP-EX-102209**	Air	10/22/09 12:26	10/23/09 09:09

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SAMPLE ANALYTE COUNT

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10115347001	**VP-CI-102209**	TO-15	LCW	68	PASI-M
10115347002	**VP-EX-102209**	TO-15	LCW	65	PASI-M

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PROJECT NARRATIVE

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

Method: **TO-15**
Description: TO15 MSV AIR
Client: GeoEngineers,Inc.
Date: November 05, 2009

General Information:
2 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/9303

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- BLANK (Lab ID: 703275)
  - 1,4-Dioxane (p-Dioxane)
- LCS (Lab ID: 703276)
  - 1,4-Dioxane (p-Dioxane)
- VP-EX-102209 (Lab ID: 10115347002)
  - 1,4-Dioxane (p-Dioxane)

QC Batch: AIR/9312

IC: The initial calibration for this compound was outside of method control limits. The result is estimated.

- VP-CI-102209 (Lab ID: 10115347001)
  - THC as Gas

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- BLANK (Lab ID: 704578)
  - 1,4-Dioxane (p-Dioxane)
- LCS (Lab ID: 704579)
  - 1,4-Dioxane (p-Dioxane)

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: AIR/9303

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 703276)

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PROJECT NARRATIVE

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

Method: **TO-15**
Description: TO15 MSV AIR
Client: GeoEngineers,Inc.
Date: November 05, 2009

QC Batch: AIR/9303

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- Carbon tetrachloride
- Naphthalene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

QC Batch: AIR/9303

D6: The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

- DUP (Lab ID: 704349)
  - Acetone
  - Methylene Chloride
  - THC as Gas
  - n-Hexane

Additional Comments:

Analyte Comments:

QC Batch: AIR/9303

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- DUP (Lab ID: 704349)
  - Acetone
  - Methylene Chloride

QC Batch: AIR/9312

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- VP-CI-102209 (Lab ID: 10115347001)
  - THC as Gas

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

Sample: VP-CI-102209 **Lab ID: 10115347001** Collected: 10/22/09 11:45 Received: 10/23/09 09:09 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,1-Trichloroethane	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	76-13-1	
1,1-Dichloroethane	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	75-35-4	
1,2,4-Trichlorobenzene	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	120-82-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.86	0.43	1.68		10/31/09 06:52	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.86	0.43	1.68		10/31/09 06:52	95-50-1	
1,2-Dichloroethane	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	107-06-2	
1,2-Dichloropropane	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	108-67-8	
1,3-Butadiene	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	106-99-0	
1,3-Dichlorobenzene	ND	ppbv	0.86	0.43	1.68		10/31/09 06:52	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.86	0.43	1.68		10/31/09 06:52	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	0.12	0.062	1.25		10/28/09 11:24	123-91-1	
2,2,4-Trimethylpentane	**14.5**	ppbv	0.84	0.42	1.68		10/31/09 06:52	540-84-1	
2-Butanone (MEK)	**0.99**	ppbv	0.92	0.46	1.68		10/31/09 06:52	78-93-3	
2-Hexanone	ND	ppbv	0.92	0.46	1.68		10/31/09 06:52	591-78-6	
2-Propanol	ND	ppbv	0.84	0.42	1.68		10/31/09 06:52	67-63-0	
4-Ethyltoluene	ND	ppbv	0.89	0.45	1.68		10/31/09 06:52	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	0.92	0.46	1.68		10/31/09 06:52	108-10-1	
Acetone	ND	ppbv	0.92	0.46	1.68		10/31/09 06:52	67-64-1	
Benzene	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	71-43-2	
Bromodichloromethane	ND	ppbv	0.86	0.43	1.68		10/31/09 06:52	75-27-4	
Bromoform	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	75-25-2	
Bromomethane	ND	ppbv	0.86	0.43	1.68		10/31/09 06:52	74-83-9	
Carbon disulfide	**3.4**	ppbv	0.84	0.42	1.68		10/31/09 06:52	75-15-0	
Carbon tetrachloride	ND	ppbv	0.86	0.43	1.68		10/31/09 06:52	56-23-5	
Chlorobenzene	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	108-90-7	
Chloroethane	ND	ppbv	0.86	0.43	1.68		10/31/09 06:52	75-00-3	
Chloroform	ND	ppbv	0.86	0.43	1.68		10/31/09 06:52	67-66-3	
Chloromethane	ND	ppbv	0.84	0.42	1.68		10/31/09 06:52	74-87-3	
Cyclohexane	**4.1**	ppbv	0.87	0.44	1.68		10/31/09 06:52	110-82-7	
Dibromochloromethane	ND	ppbv	0.89	0.45	1.68		10/31/09 06:52	124-48-1	
Dichlorodifluoromethane	ND	ppbv	0.86	0.43	1.68		10/31/09 06:52	75-71-8	
Dichlorotetrafluoroethane	ND	ppbv	0.96	0.48	1.68		10/31/09 06:52	76-14-2	
Ethanol	**14.8**	ppbv	0.84	0.42	1.68		10/31/09 06:52	64-17-5	
Ethyl acetate	ND	ppbv	0.86	0.43	1.68		10/31/09 06:52	141-78-6	
Ethylbenzene	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.84	0.42	1.68		10/31/09 06:52	87-68-3	
Isopropylbenzene (Cumene)	ND	ppbv	0.84	0.42	1.68		10/31/09 06:52	98-82-8	
Methyl-tert-butyl ether	ND	ppbv	1.7	0.84	1.68		10/31/09 06:52	1634-04-4	
Methylene Chloride	**1.1**	ppbv	0.87	0.44	1.68		10/31/09 06:52	75-09-2	
Naphthalene	ND	ppbv	0.84	0.42	1.68		10/31/09 06:52	91-20-3	

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ANALYTICAL RESULTS

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

Sample: VP-CI-102209 **Lab ID: 10115347001** Collected: 10/22/09 11:45 Received: 10/23/09 09:09 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Propylene	ND	ppbv	3.4	1.7	1.68		10/31/09 06:52	115-07-1	
Styrene	ND	ppbv	0.92	0.46	1.68		10/31/09 06:52	100-42-5	
THC as Gas	**17300**	ppbv	33.6	16.8	1.68		10/31/09 06:52		E,IC
Tetrachloroethene	**1.6**	ppbv	0.87	0.44	1.68		10/31/09 06:52	127-18-4	
Tetrahydrofuran	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	109-99-9	
Toluene	**0.99**	ppbv	0.87	0.44	1.68		10/31/09 06:52	108-88-3	
Trichloroethene	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	79-01-6	
Trichlorofluoromethane	**1.0**	ppbv	0.84	0.42	1.68		10/31/09 06:52	75-69-4	
Vinyl acetate	ND	ppbv	0.92	0.46	1.68		10/31/09 06:52	108-05-4	
Vinyl chloride	ND	ppbv	0.86	0.43	1.68		10/31/09 06:52	75-01-4	
Xylene (Total)	ND	ppbv	2.5	1.3	1.68		10/31/09 06:52	1330-20-7	
cis-1,2-Dichloroethene	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	0.86	0.43	1.68		10/31/09 06:52	10061-01-5	
m&p-Xylene	ND	ppbv	1.7	0.84	1.68		10/31/09 06:52	1330-20-7	
n-Heptane	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	142-82-5	
n-Hexane	ND	ppbv	0.89	0.45	1.68		10/31/09 06:52	110-54-3	
o-Xylene	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	95-47-6	
trans-1,2-Dichloroethene	ND	ppbv	1.7	0.84	1.68		10/31/09 06:52	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	0.87	0.44	1.68		10/31/09 06:52	10061-02-6	
Toluene-d8 (S)	80	%	75-125		1.25		10/28/09 11:24	2037-26-5	
1,4-Dichlorobenzene-d4 (S)	19	%	64-130		1.25		10/28/09 11:24	3855-82-1	
Hexane-d14 (S)	85	%	65-150		1.25		10/28/09 11:24	110-54-3	

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ANALYTICAL RESULTS

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

Sample: VP-EX-102209 **Lab ID: 10115347002** Collected: 10/22/09 12:26 Received: 10/23/09 09:09 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,1-Trichloroethane	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	76-13-1	
1,1-Dichloroethane	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	75-35-4	
1,2,4-Trichlorobenzene	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	120-82-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.70	0.35	1.38		10/28/09 16:09	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.70	0.35	1.38		10/28/09 16:09	95-50-1	
1,2-Dichloroethane	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	107-06-2	
1,2-Dichloropropane	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	108-67-8	
1,3-Butadiene	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	106-99-0	
1,3-Dichlorobenzene	ND	ppbv	0.70	0.35	1.38		10/28/09 16:09	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.70	0.35	1.38		10/28/09 16:09	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	0.14	0.069	1.38		10/28/09 11:55	123-91-1	SS
2,2,4-Trimethylpentane	ND	ppbv	0.69	0.34	1.38		10/28/09 16:09	540-84-1	
2-Butanone (MEK)	ND	ppbv	0.76	0.38	1.38		10/28/09 16:09	78-93-3	
2-Hexanone	ND	ppbv	0.76	0.38	1.38		10/28/09 16:09	591-78-6	
2-Propanol	ND	ppbv	0.69	0.34	1.38		10/28/09 16:09	67-63-0	
4-Ethyltoluene	ND	ppbv	0.73	0.37	1.38		10/28/09 16:09	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	0.76	0.38	1.38		10/28/09 16:09	108-10-1	
Acetone	**1.3**	ppbv	0.76	0.38	1.38		10/28/09 16:09	67-64-1	
Benzene	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	71-43-2	
Bromodichloromethane	ND	ppbv	0.70	0.35	1.38		10/28/09 16:09	75-27-4	
Bromoform	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	75-25-2	
Bromomethane	ND	ppbv	0.70	0.35	1.38		10/28/09 16:09	74-83-9	
Carbon disulfide	**1.0**	ppbv	0.69	0.34	1.38		10/28/09 16:09	75-15-0	
Carbon tetrachloride	ND	ppbv	0.70	0.35	1.38		10/28/09 16:09	56-23-5	
Chlorobenzene	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	108-90-7	
Chloroethane	ND	ppbv	0.70	0.35	1.38		10/28/09 16:09	75-00-3	
Chloroform	ND	ppbv	0.70	0.35	1.38		10/28/09 16:09	67-66-3	
Chloromethane	ND	ppbv	0.69	0.34	1.38		10/28/09 16:09	74-87-3	
Cyclohexane	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	110-82-7	
Dibromochloromethane	ND	ppbv	0.73	0.37	1.38		10/28/09 16:09	124-48-1	
Dichlorodifluoromethane	ND	ppbv	0.70	0.35	1.38		10/28/09 16:09	75-71-8	
Dichlorotetrafluoroethane	ND	ppbv	0.79	0.39	1.38		10/28/09 16:09	76-14-2	
Ethanol	ND	ppbv	0.69	0.34	1.38		10/28/09 16:09	64-17-5	
Ethyl acetate	ND	ppbv	0.70	0.35	1.38		10/28/09 16:09	141-78-6	
Ethylbenzene	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.69	0.34	1.38		10/28/09 16:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ppbv	0.69	0.34	1.38		10/28/09 16:09	98-82-8	
Methyl-tert-butyl ether	ND	ppbv	1.4	0.69	1.38		10/28/09 16:09	1634-04-4	
Methylene Chloride	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	75-09-2	
Naphthalene	**1.3**	ppbv	0.69	0.34	1.38		10/28/09 16:09	91-20-3	

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ANALYTICAL RESULTS

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

Sample: VP-EX-102209 **Lab ID: 10115347002** Collected: 10/22/09 12:26 Received: 10/23/09 09:09 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Propylene	ND	ppbv	2.8	1.4	1.38		10/28/09 16:09	115-07-1	
Styrene	ND	ppbv	0.76	0.38	1.38		10/28/09 16:09	100-42-5	
THC as Gas	**6280**	ppbv	27.6	13.8	1.38		10/28/09 16:09		
Tetrachloroethene	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	127-18-4	
Tetrahydrofuran	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	109-99-9	
Toluene	**0.76**	ppbv	0.72	0.36	1.38		10/28/09 16:09	108-88-3	
Trichloroethene	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	79-01-6	
Trichlorofluoromethane	ND	ppbv	0.69	0.34	1.38		10/28/09 16:09	75-69-4	
Vinyl acetate	ND	ppbv	0.76	0.38	1.38		10/28/09 16:09	108-05-4	
Vinyl chloride	ND	ppbv	0.70	0.35	1.38		10/28/09 16:09	75-01-4	
Xylene (Total)	ND	ppbv	2.1	1.0	1.38		10/28/09 16:09	1330-20-7	
cis-1,2-Dichloroethene	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	0.70	0.35	1.38		10/28/09 16:09	10061-01-5	
m&p-Xylene	ND	ppbv	1.4	0.69	1.38		10/28/09 16:09	1330-20-7	
n-Heptane	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	142-82-5	
n-Hexane	ND	ppbv	0.73	0.37	1.38		10/28/09 16:09	110-54-3	
o-Xylene	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	95-47-6	
trans-1,2-Dichloroethene	ND	ppbv	1.4	0.69	1.38		10/28/09 16:09	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	0.72	0.36	1.38		10/28/09 16:09	10061-02-6	

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QUALITY CONTROL DATA

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

QC Batch: AIR/9303 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10115347002

METHOD BLANK: 703275 Matrix: Air
Associated Lab Samples: 10115347002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.52	10/28/09 11:17	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.52	10/28/09 11:17	
1,1,2-Trichloroethane	ppbv	ND	0.52	10/28/09 11:17	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.52	10/28/09 11:17	
1,1-Dichloroethane	ppbv	ND	0.52	10/28/09 11:17	
1,1-Dichloroethene	ppbv	ND	0.52	10/28/09 11:17	
1,2,4-Trichlorobenzene	ppbv	ND	0.52	10/28/09 11:17	
1,2,4-Trimethylbenzene	ppbv	ND	0.51	10/28/09 11:17	
1,2-Dibromoethane (EDB)	ppbv	ND	0.52	10/28/09 11:17	
1,2-Dichlorobenzene	ppbv	ND	0.51	10/28/09 11:17	
1,2-Dichloroethane	ppbv	ND	0.52	10/28/09 11:17	
1,2-Dichloropropane	ppbv	ND	0.52	10/28/09 11:17	
1,3,5-Trimethylbenzene	ppbv	ND	0.52	10/28/09 11:17	
1,3-Butadiene	ppbv	ND	0.52	10/28/09 11:17	
1,3-Dichlorobenzene	ppbv	ND	0.51	10/28/09 11:17	
1,4-Dichlorobenzene	ppbv	ND	0.51	10/28/09 11:17	
1,4-Dioxane (p-Dioxane)	ppbv	ND	0.10	10/28/09 09:51	SS
2,2,4-Trimethylpentane	ppbv	ND	0.50	10/28/09 11:17	
2-Butanone (MEK)	ppbv	ND	0.55	10/28/09 11:17	
2-Hexanone	ppbv	ND	0.55	10/28/09 11:17	
2-Propanol	ppbv	ND	0.50	10/28/09 11:17	
4-Ethyltoluene	ppbv	ND	0.53	10/28/09 11:17	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	0.55	10/28/09 11:17	
Acetone	ppbv	ND	0.55	10/28/09 11:17	
Benzene	ppbv	ND	0.52	10/28/09 11:17	
Bromodichloromethane	ppbv	ND	0.51	10/28/09 11:17	
Bromoform	ppbv	ND	0.52	10/28/09 11:17	
Bromomethane	ppbv	ND	0.51	10/28/09 11:17	
Carbon disulfide	ppbv	ND	0.50	10/28/09 11:17	
Carbon tetrachloride	ppbv	ND	0.51	10/28/09 11:17	
Chlorobenzene	ppbv	ND	0.52	10/28/09 11:17	
Chloroethane	ppbv	ND	0.51	10/28/09 11:17	
Chloroform	ppbv	ND	0.51	10/28/09 11:17	
Chloromethane	ppbv	ND	0.50	10/28/09 11:17	
cis-1,2-Dichloroethene	ppbv	ND	0.52	10/28/09 11:17	
cis-1,3-Dichloropropene	ppbv	ND	0.51	10/28/09 11:17	
Cyclohexane	ppbv	ND	0.52	10/28/09 11:17	
Dibromochloromethane	ppbv	ND	0.53	10/28/09 11:17	
Dichlorodifluoromethane	ppbv	ND	0.51	10/28/09 11:17	
Dichlorotetrafluoroethane	ppbv	ND	0.57	10/28/09 11:17	
Ethanol	ppbv	ND	0.50	10/28/09 11:17	
Ethyl acetate	ppbv	ND	0.51	10/28/09 11:17	
Ethylbenzene	ppbv	ND	0.52	10/28/09 11:17	

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QUALITY CONTROL DATA

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

METHOD BLANK: 703275 Matrix: Air

Associated Lab Samples: 10115347002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ppbv	ND	0.50	10/28/09 11:17	
Isopropylbenzene (Cumene)	ppbv	ND	0.50	10/28/09 11:17	
m&p-Xylene	ppbv	ND	1.0	10/28/09 11:17	
Methyl-tert-butyl ether	ppbv	ND	1.0	10/28/09 11:17	
Methylene Chloride	ppbv	ND	0.52	10/28/09 11:17	
n-Heptane	ppbv	ND	0.52	10/28/09 11:17	
n-Hexane	ppbv	ND	0.53	10/28/09 11:17	
Naphthalene	ppbv	ND	0.50	10/28/09 11:17	
o-Xylene	ppbv	ND	0.52	10/28/09 11:17	
Propylene	ppbv	ND	2.0	10/28/09 11:17	
Styrene	ppbv	ND	0.55	10/28/09 11:17	
Tetrachloroethene	ppbv	ND	0.52	10/28/09 11:17	
Tetrahydrofuran	ppbv	ND	0.52	10/28/09 11:17	
THC as Gas	ppbv	ND	20.0	10/28/09 11:17	
Toluene	ppbv	ND	0.52	10/28/09 11:17	
trans-1,2-Dichloroethene	ppbv	ND	1.0	10/28/09 11:17	
trans-1,3-Dichloropropene	ppbv	ND	0.52	10/28/09 11:17	
Trichloroethene	ppbv	ND	0.52	10/28/09 11:17	
Trichlorofluoromethane	ppbv	ND	0.50	10/28/09 11:17	
Vinyl acetate	ppbv	ND	0.55	10/28/09 11:17	
Vinyl chloride	ppbv	ND	0.51	10/28/09 11:17	
Xylene (Total)	ppbv	ND	1.5	10/28/09 11:17	

LABORATORY CONTROL SAMPLE: 703276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10.3	9.3	91	60-125	
1,1,2,2-Tetrachloroethane	ppbv	10.2	10.2	100	57-127	
1,1,2-Trichloroethane	ppbv	10.1	8.8	87	56-125	
1,1,2-Trichlorotrifluoroethane	ppbv	9.8	7.8	80	52-133	
1,1-Dichloroethane	ppbv	10	9.4	94	54-127	
1,1-Dichloroethene	ppbv	10	10.9	109	52-129	
1,2,4-Trichlorobenzene	ppbv	9.9	12.7	128	30-150	
1,2,4-Trimethylbenzene	ppbv	9.9	10.9	110	52-145	
1,2-Dibromoethane (EDB)	ppbv	10.4	9.6	92	59-133	
1,2-Dichlorobenzene	ppbv	10.2	11.3	111	67-135	
1,2-Dichloroethane	ppbv	10.9	9.6	88	54-125	
1,2-Dichloropropane	ppbv	10.8	10.5	98	64-125	
1,3,5-Trimethylbenzene	ppbv	9.9	11.1	112	56-135	
1,3-Butadiene	ppbv	10.1	11.1	110	55-125	
1,3-Dichlorobenzene	ppbv	10.5	10.9	104	61-142	
1,4-Dichlorobenzene	ppbv	10.3	10.5	102	55-142	
1,4-Dioxane (p-Dioxane)	ppbv	10	2.4	24	70-130	SS
2,2,4-Trimethylpentane	ppbv	10	8.8	88	70-130	
2-Butanone (MEK)	ppbv	10.3	8.7	84	47-141	

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QUALITY CONTROL DATA

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

LABORATORY CONTROL SAMPLE: 703276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ppbv	10.1	8.3	83	41-138	
2-Propanol	ppbv	9.5	7.6	80	63-125	
4-Ethyltoluene	ppbv	10	9.6	96	62-130	
4-Methyl-2-pentanone (MIBK)	ppbv	10.2	7.8	76	53-134	
Acetone	ppbv	10	6.0	60	44-149	
Benzene	ppbv	10.1	11.7	116	61-126	
Bromodichloromethane	ppbv	10	9.9	99	54-129	
Bromoform	ppbv	10.2	11.3	111	56-125	
Bromomethane	ppbv	10.1	11.5	114	56-128	
Carbon disulfide	ppbv	10.3	8.4	82	58-150	
Carbon tetrachloride	ppbv	10.1	18.4	182	55-125	L3
Chlorobenzene	ppbv	9.9	9.7	98	48-138	
Chloroethane	ppbv	9.9	10.8	109	56-128	
Chloroform	ppbv	9.7	11.9	123	55-125	
Chloromethane	ppbv	10	11.8	118	50-131	
cis-1,2-Dichloroethene	ppbv	10.3	9.6	93	64-125	
cis-1,3-Dichloropropene	ppbv	10.5	10.7	102	61-132	
Cyclohexane	ppbv	10.2	12.9	127	61-130	
Dibromochloromethane	ppbv	10.5	10.6	101	51-129	
Dichlorodifluoromethane	ppbv	9.8	8.7	88	56-132	
Dichlorotetrafluoroethane	ppbv	10	9.9	99	48-125	
Ethanol	ppbv	10	7.0	70	70-130	
Ethyl acetate	ppbv	10.2	9.1	89	66-149	
Ethylbenzene	ppbv	11	10.9	99	56-137	
Hexachloro-1,3-butadiene	ppbv	9.8	13.4	136	30-150	
Isopropylbenzene (Cumene)	ppbv	10.4	10.8	104	67-134	
m&p-Xylene	ppbv	21	21.2	101	62-135	
Methyl-tert-butyl ether	ppbv	10	10.5	105	59-125	
Methylene Chloride	ppbv	9.8	6.8	70	46-143	
n-Heptane	ppbv	10.3	8.4	81	64-130	
n-Hexane	ppbv	10.9	9.8	90	61-134	
Naphthalene	ppbv	9.5	15.8	166	30-150	L3
o-Xylene	ppbv	10.3	10	97	61-134	
Propylene	ppbv	10.6	7.2	67	62-146	
Styrene	ppbv	10	10.2	102	63-134	
Tetrachloroethene	ppbv	10.4	12.7	122	61-132	
Tetrahydrofuran	ppbv	7.5	4.9	65	62-137	
THC as Gas	ppbv	700	794	113	61-125	
Toluene	ppbv	10.4	9.3	89	57-132	
trans-1,2-Dichloroethene	ppbv	10.4	10.8	104	52-130	
trans-1,3-Dichloropropene	ppbv	10.6	10.2	96	61-129	
Trichloroethene	ppbv	10.1	10.6	105	72-147	
Trichlorofluoromethane	ppbv	9.8	11.0	112	58-141	
Vinyl acetate	ppbv	10.3	10.2	99	56-131	
Vinyl chloride	ppbv	10.3	10.3	100	56-136	
Xylene (Total)	ppbv	31.3	31.2	100	70-130	

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QUALITY CONTROL DATA

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

SAMPLE DUPLICATE: 704349

Parameter	Units	10115557005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	ND		30	
1,1,2,2-Tetrachloroethane	ppbv	ND	ND		30	
1,1,2-Trichloroethane	ppbv	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	ND		30	
1,1-Dichloroethane	ppbv	ND	ND		30	
1,1-Dichloroethene	ppbv	ND	ND		30	
1,2,4-Trichlorobenzene	ppbv	ND	ND		30	
1,2,4-Trimethylbenzene	ppbv	ND	ND		30	
1,2-Dibromoethane (EDB)	ppbv	ND	ND		30	
1,2-Dichlorobenzene	ppbv	ND	ND		30	
1,2-Dichloroethane	ppbv	ND	ND		30	
1,2-Dichloropropane	ppbv	ND	ND		30	
1,3,5-Trimethylbenzene	ppbv	ND	ND		30	
1,3-Butadiene	ppbv	ND	ND		30	
1,3-Dichlorobenzene	ppbv	ND	ND		30	
1,4-Dichlorobenzene	ppbv	ND	ND		30	
1,4-Dioxane (p-Dioxane)	ppbv	0.0	ND	0	30	
2,2,4-Trimethylpentane	ppbv	ND	ND		30	
2-Butanone (MEK)	ppbv	ND	ND		30	
2-Hexanone	ppbv	ND	ND		30	
2-Propanol	ppbv	ND	ND		30	
4-Ethyltoluene	ppbv	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	ND		30	
Acetone	ppbv	79.6	181	78	30	D6,E
Benzene	ppbv	ND	ND		30	
Bromodichloromethane	ppbv	ND	ND		30	
Bromoform	ppbv	ND	ND		30	
Bromomethane	ppbv	ND	ND		30	
Carbon disulfide	ppbv	ND	ND		30	
Carbon tetrachloride	ppbv	ND	ND		30	
Chlorobenzene	ppbv	ND	ND		30	
Chloroethane	ppbv	ND	ND		30	
Chloroform	ppbv	ND	ND		30	
Chloromethane	ppbv	ND	ND		30	
cis-1,2-Dichloroethene	ppbv	ND	ND		30	
cis-1,3-Dichloropropene	ppbv	ND	ND		30	
Cyclohexane	ppbv	ND	ND		30	
Dibromochloromethane	ppbv	ND	ND		30	
Dichlorodifluoromethane	ppbv	ND	ND		30	
Dichlorotetrafluoroethane	ppbv	ND	ND		30	
Ethanol	ppbv	10.8	11.4	5	30	
Ethyl acetate	ppbv	ND	ND		30	
Ethylbenzene	ppbv	ND	ND		30	
Hexachloro-1,3-butadiene	ppbv	ND	ND		30	
Isopropylbenzene (Cumene)	ppbv	ND	ND		30	
m&p-Xylene	ppbv	ND	ND		30	
Methyl-tert-butyl ether	ppbv	ND	ND		30	
Methylene Chloride	ppbv	28.6	74.4	89	30	D6,E

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QUALITY CONTROL DATA

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

SAMPLE DUPLICATE: 704349

Parameter	Units	10115557005 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Heptane	ppbv	ND	ND		30	
n-Hexane	ppbv	1.6	10.2	146	30	D6
Naphthalene	ppbv	ND	ND		30	
o-Xylene	ppbv	ND	ND		30	
Propylene	ppbv	ND	ND		30	
Styrene	ppbv	ND	ND		30	
Tetrachloroethene	ppbv	ND	ND		30	
Tetrahydrofuran	ppbv	ND	1.4		30	
THC as Gas	ppbv	205	316	42	30	D6
Toluene	ppbv	ND	ND		30	
trans-1,2-Dichloroethene	ppbv	ND	ND		30	
trans-1,3-Dichloropropene	ppbv	ND	ND		30	
Trichloroethene	ppbv	ND	ND		30	
Trichlorofluoromethane	ppbv	ND	ND		30	
Vinyl acetate	ppbv	ND	1.1		30	
Vinyl chloride	ppbv	ND	ND		30	
Xylene (Total)	ppbv	ND	ND		30	

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QUALITY CONTROL DATA

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

QC Batch: AIR/9312 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10115347001

METHOD BLANK: 704578 Matrix: Air
Associated Lab Samples: 10115347001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.52	10/30/09 14:17	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.52	10/30/09 14:17	
1,1,2-Trichloroethane	ppbv	ND	0.52	10/30/09 14:17	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.52	10/30/09 14:17	
1,1-Dichloroethane	ppbv	ND	0.52	10/30/09 14:17	
1,1-Dichloroethene	ppbv	ND	0.52	10/30/09 14:17	
1,2,4-Trichlorobenzene	ppbv	ND	0.52	10/30/09 14:17	
1,2,4-Trimethylbenzene	ppbv	ND	0.51	10/30/09 14:17	
1,2-Dibromoethane (EDB)	ppbv	ND	0.52	10/30/09 14:17	
1,2-Dichlorobenzene	ppbv	ND	0.51	10/30/09 14:17	
1,2-Dichloroethane	ppbv	ND	0.52	10/30/09 14:17	
1,2-Dichloropropane	ppbv	ND	0.52	10/30/09 14:17	
1,3,5-Trimethylbenzene	ppbv	ND	0.52	10/30/09 14:17	
1,3-Butadiene	ppbv	ND	0.52	10/30/09 14:17	
1,3-Dichlorobenzene	ppbv	ND	0.51	10/30/09 14:17	
1,4-Dichlorobenzene	ppbv	ND	0.51	10/30/09 14:17	
1,4-Dioxane (p-Dioxane)	ppbv	ND	0.10	10/28/09 09:51	SS
2,2,4-Trimethylpentane	ppbv	ND	0.50	10/30/09 14:17	
2-Butanone (MEK)	ppbv	ND	0.55	10/30/09 14:17	
2-Hexanone	ppbv	ND	0.55	10/30/09 14:17	
2-Propanol	ppbv	ND	0.50	10/30/09 14:17	
4-Ethyltoluene	ppbv	ND	0.53	10/30/09 14:17	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	0.55	10/30/09 14:17	
Acetone	ppbv	ND	0.55	10/30/09 14:17	
Benzene	ppbv	ND	0.52	10/30/09 14:17	
Bromodichloromethane	ppbv	ND	0.51	10/30/09 14:17	
Bromoform	ppbv	ND	0.52	10/30/09 14:17	
Bromomethane	ppbv	ND	0.51	10/30/09 14:17	
Carbon disulfide	ppbv	ND	0.50	10/30/09 14:17	
Carbon tetrachloride	ppbv	ND	0.51	10/30/09 14:17	
Chlorobenzene	ppbv	ND	0.52	10/30/09 14:17	
Chloroethane	ppbv	ND	0.51	10/30/09 14:17	
Chloroform	ppbv	ND	0.51	10/30/09 14:17	
Chloromethane	ppbv	ND	0.50	10/30/09 14:17	
cis-1,2-Dichloroethene	ppbv	ND	0.52	10/30/09 14:17	
cis-1,3-Dichloropropene	ppbv	ND	0.51	10/30/09 14:17	
Cyclohexane	ppbv	ND	0.52	10/30/09 14:17	
Dibromochloromethane	ppbv	ND	0.53	10/30/09 14:17	
Dichlorodifluoromethane	ppbv	ND	0.51	10/30/09 14:17	
Dichlorotetrafluoroethane	ppbv	ND	0.57	10/30/09 14:17	
Ethanol	ppbv	ND	0.50	10/30/09 14:17	
Ethyl acetate	ppbv	ND	0.51	10/30/09 14:17	
Ethylbenzene	ppbv	ND	0.52	10/30/09 14:17	

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QUALITY CONTROL DATA

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

METHOD BLANK: 704578 Matrix: Air

Associated Lab Samples: 10115347001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ppbv	ND	0.50	10/30/09 14:17	
Isopropylbenzene (Cumene)	ppbv	ND	0.50	10/30/09 14:17	
m&p-Xylene	ppbv	ND	1.0	10/30/09 14:17	
Methyl-tert-butyl ether	ppbv	ND	1.0	10/30/09 14:17	
Methylene Chloride	ppbv	ND	0.52	10/30/09 14:17	
n-Heptane	ppbv	ND	0.52	10/30/09 14:17	
n-Hexane	ppbv	ND	0.53	10/30/09 14:17	
Naphthalene	ppbv	ND	0.50	10/30/09 14:17	
o-Xylene	ppbv	ND	0.52	10/30/09 14:17	
Propylene	ppbv	ND	2.0	10/30/09 14:17	
Styrene	ppbv	ND	0.55	10/30/09 14:17	
Tetrachloroethene	ppbv	ND	0.52	10/30/09 14:17	
Tetrahydrofuran	ppbv	ND	0.52	10/30/09 14:17	
THC as Gas	ppbv	ND	20.0	10/30/09 14:17	
Toluene	ppbv	ND	0.52	10/30/09 14:17	
trans-1,2-Dichloroethene	ppbv	ND	1.0	10/30/09 14:17	
trans-1,3-Dichloropropene	ppbv	ND	0.52	10/30/09 14:17	
Trichloroethene	ppbv	ND	0.52	10/30/09 14:17	
Trichlorofluoromethane	ppbv	ND	0.50	10/30/09 14:17	
Vinyl acetate	ppbv	ND	0.55	10/30/09 14:17	
Vinyl chloride	ppbv	ND	0.51	10/30/09 14:17	
Xylene (Total)	ppbv	ND	1.5	10/30/09 14:17	

LABORATORY CONTROL SAMPLE: 704579

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10.3	10.9	106	60-125	
1,1,2,2-Tetrachloroethane	ppbv	10.2	10.5	103	57-127	
1,1,2-Trichloroethane	ppbv	10.1	11.3	112	56-125	
1,1,2-Trichlorotrifluoroethane	ppbv	9.8	7.8	79	52-133	
1,1-Dichloroethane	ppbv	10	9.7	97	54-127	
1,1-Dichloroethene	ppbv	10	10.9	109	52-129	
1,2,4-Trichlorobenzene	ppbv	9.9	11.1	112	30-150	
1,2,4-Trimethylbenzene	ppbv	9.9	10.4	106	52-145	
1,2-Dibromoethane (EDB)	ppbv	10.4	9.9	95	59-133	
1,2-Dichlorobenzene	ppbv	10.2	11.2	110	67-135	
1,2-Dichloroethane	ppbv	10.9	10.7	98	54-125	
1,2-Dichloropropane	ppbv	10.8	11.7	108	64-125	
1,3,5-Trimethylbenzene	ppbv	9.9	11.1	113	56-135	
1,3-Butadiene	ppbv	10.1	11.6	115	55-125	
1,3-Dichlorobenzene	ppbv	10.5	10.4	99	61-142	
1,4-Dichlorobenzene	ppbv	10.3	10	97	55-142	
1,4-Dioxane (p-Dioxane)	ppbv	10	2.4	24	70-130	SS
2,2,4-Trimethylpentane	ppbv	10	11.6	116	70-130	
2-Butanone (MEK)	ppbv	10.3	8.8	85	47-141	

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

LABORATORY CONTROL SAMPLE: 704579

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ppbv	10.1	8.7	86	41-138	
2-Propanol	ppbv	9.5	9.8	103	63-125	
4-Ethyltoluene	ppbv	10	9.7	97	62-130	
4-Methyl-2-pentanone (MIBK)	ppbv	10.2	8.0	79	53-134	
Acetone	ppbv	10	5.0	50	44-149	
Benzene	ppbv	10.1	12.0	119	61-126	
Bromodichloromethane	ppbv	10	8.9	89	54-129	
Bromoform	ppbv	10.2	10.4	102	56-125	
Bromomethane	ppbv	10.1	11.7	116	56-128	
Carbon disulfide	ppbv	10.3	11.2	109	58-150	
Carbon tetrachloride	ppbv	10.1	9.8	97	55-125	
Chlorobenzene	ppbv	9.9	10.2	103	48-138	
Chloroethane	ppbv	9.9	11.3	114	56-128	
Chloroform	ppbv	9.7	12.0	124	55-125	
Chloromethane	ppbv	10	12.0	120	50-131	
cis-1,2-Dichloroethene	ppbv	10.3	12.6	123	64-125	
cis-1,3-Dichloropropene	ppbv	10.5	11.2	107	61-132	
Cyclohexane	ppbv	10.2	10.4	102	61-130	
Dibromochloromethane	ppbv	10.5	9.4	89	51-129	
Dichlorodifluoromethane	ppbv	9.8	9.5	96	56-132	
Dichlorotetrafluoroethane	ppbv	10	10.2	102	48-125	
Ethanol	ppbv	10	10.4	104	70-130	
Ethyl acetate	ppbv	10.2	12.0	118	66-149	
Ethylbenzene	ppbv	11	10.9	99	56-137	
Hexachloro-1,3-butadiene	ppbv	9.8	10.1	103	30-150	
Isopropylbenzene (Cumene)	ppbv	10.4	10.8	104	67-134	
m&p-Xylene	ppbv	21	21.1	100	62-135	
Methyl-tert-butyl ether	ppbv	10	10.4	104	59-125	
Methylene Chloride	ppbv	9.8	7.3	74	46-143	
n-Heptane	ppbv	10.3	8.7	85	64-130	
n-Hexane	ppbv	10.9	12.7	117	61-134	
Naphthalene	ppbv	9.5	12.9	135	30-150	
o-Xylene	ppbv	10.3	10.3	100	61-134	
Propylene	ppbv	10.6	11.4	108	62-146	
Styrene	ppbv	10	9.3	93	63-134	
Tetrachloroethene	ppbv	10.4	13.1	126	61-132	
Tetrahydrofuran	ppbv	7.5	4.8	64	62-137	
THC as Gas	ppbv	700	686	98	61-125	
Toluene	ppbv	10.4	9.6	92	57-132	
trans-1,2-Dichloroethene	ppbv	10.4	12.1	116	52-130	
trans-1,3-Dichloropropene	ppbv	10.6	10.4	99	61-129	
Trichloroethene	ppbv	10.1	14.3	142	72-147	
Trichlorofluoromethane	ppbv	9.8	10.6	108	58-141	
Vinyl acetate	ppbv	10.3	11.0	107	56-131	
Vinyl chloride	ppbv	10.3	11.3	109	56-136	
Xylene (Total)	ppbv	31.3	31.4	100	70-130	

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QUALITY CONTROL DATA

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

SAMPLE DUPLICATE: 706094

Parameter	Units	10115557004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	ND		30	
1,1,2,2-Tetrachloroethane	ppbv	ND	ND		30	
1,1,2-Trichloroethane	ppbv	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	ND		30	
1,1-Dichloroethane	ppbv	ND	ND		30	
1,1-Dichloroethene	ppbv	ND	ND		30	
1,2,4-Trichlorobenzene	ppbv	ND	ND		30	
1,2,4-Trimethylbenzene	ppbv	ND	ND		30	
1,2-Dibromoethane (EDB)	ppbv	ND	ND		30	
1,2-Dichlorobenzene	ppbv	ND	ND		30	
1,2-Dichloroethane	ppbv	ND	ND		30	
1,2-Dichloropropane	ppbv	ND	ND		30	
1,3,5-Trimethylbenzene	ppbv	ND	ND		30	
1,3-Butadiene	ppbv	ND	ND		30	
1,3-Dichlorobenzene	ppbv	ND	ND		30	
1,4-Dichlorobenzene	ppbv	ND	ND		30	
1,4-Dioxane (p-Dioxane)	ppbv	0.0	ND	0	30	
2,2,4-Trimethylpentane	ppbv	ND	ND		30	
2-Butanone (MEK)	ppbv	2.2	2.2	2	30	
2-Hexanone	ppbv	ND	ND		30	
2-Propanol	ppbv	3.4	3.6	4	30	
4-Ethyltoluene	ppbv	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	ND		30	
Acetone	ppbv	12.9	13.2	3	30	
Benzene	ppbv	ND	ND		30	
Bromodichloromethane	ppbv	ND	ND		30	
Bromoform	ppbv	ND	ND		30	
Bromomethane	ppbv	ND	ND		30	
Carbon disulfide	ppbv	ND	ND		30	
Carbon tetrachloride	ppbv	ND	ND		30	
Chlorobenzene	ppbv	ND	ND		30	
Chloroethane	ppbv	ND	ND		30	
Chloroform	ppbv	ND	ND		30	
Chloromethane	ppbv	ND	ND		30	
cis-1,2-Dichloroethene	ppbv	ND	ND		30	
cis-1,3-Dichloropropene	ppbv	ND	ND		30	
Cyclohexane	ppbv	ND	ND		30	
Dibromochloromethane	ppbv	ND	ND		30	
Dichlorodifluoromethane	ppbv	ND	ND		30	
Dichlorotetrafluoroethane	ppbv	ND	ND		30	
Ethanol	ppbv	36.0	39.3	9	30	
Ethyl acetate	ppbv	ND	ND		30	
Ethylbenzene	ppbv	ND	ND		30	
Hexachloro-1,3-butadiene	ppbv	ND	ND		30	
Isopropylbenzene (Cumene)	ppbv	ND	ND		30	
m&p-Xylene	ppbv	ND	ND		30	
Methyl-tert-butyl ether	ppbv	ND	ND		30	
Methylene Chloride	ppbv	ND	ND		30	

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QUALITY CONTROL DATA

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

SAMPLE DUPLICATE: 706094

Parameter	Units	10115557004 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Heptane	ppbv	ND	ND		30	
n-Hexane	ppbv	ND	ND		30	
Naphthalene	ppbv	1.3	1.3	3	30	
o-Xylene	ppbv	ND	ND		30	
Propylene	ppbv	ND	ND		30	
Styrene	ppbv	ND	ND		30	
Tetrachloroethene	ppbv	ND	ND		30	
Tetrahydrofuran	ppbv	ND	ND		30	
THC as Gas	ppbv	85.8	83.1	3	30	
Toluene	ppbv	0.91	0.89	2	30	
trans-1,2-Dichloroethene	ppbv	ND	ND		30	
trans-1,3-Dichloropropene	ppbv	ND	ND		30	
Trichloroethene	ppbv	ND	ND		30	
Trichlorofluoromethane	ppbv	ND	ND		30	
Vinyl acetate	ppbv	ND	ND		30	
Vinyl chloride	ppbv	ND	ND		30	
Xylene (Total)	ppbv	ND	ND		30	

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QUALIFIERS

Project: 0506-117-10 BNSF Parkwater, WA
Pace Project No.: 10115347

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
IC	The initial calibration for this compound was outside of method control limits. The result is estimated.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

November 02, 2009

Carol Davy
PACE ANALYTICAL
1700 Elm Street SE
Minneapolis, MN 55127-

Bureau Veritas Work Order No. 09101264

Reference: 10115347/0506-117-10 BNSF PARKWATER, WA

Dear Carol Davy:

Bureau Veritas North America, Inc. received 2 samples on 10/27/2009 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

Karen Coonan

Karen Coonan
Client Services Representative

cc:

Bureau Veritas North America, Inc.
22345 Roethel Drive
Novi, MI 48375

Main: (248) 344.1770
Fax: (248) 344.2655
www.us.bureauveritas.com

CASE NARRATIVE

Date: *02-Nov-09*

Client: PACE ANALYTICAL

Project: 10115347/0506-117-10 BNSF PARKWATER, WA

Work Order No 09101264

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

The following result has been converted from mg/m3 to ug/m3.
Sample -001A: THCs as Diesel = <1300 ug/m3
Sample -002A: THCs as Diesel = <1200 ug/m3

ANALYTICAL RESULTS

Date: *02-Nov-09*

Client: PACE ANALYTICAL

Project: 10115347/0506-117-10 BNSF PARKWATER, WA **Work Order No:** 09101264

Sample Identification: VP-CI-102209

Lab Number: 001A **Date Sampled:** 10/22/2009

Sample Type Charcoal Tube **Date Received:** 10/27/2009

Analyst CCR **Air Volume (L):** 8

Analyte	Analytical Results (µg)	Analytical Results (mg/m³)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
THCs as Diesel	<10	<1.3	--	10	NIOSH 1550	10/29/2009

Sample Identification: VP-EX-102209

Lab Number: 002A **Date Sampled:** 10/22/2009

Sample Type Charcoal Tube **Date Received:** 10/27/2009

Analyst CCR **Air Volume (L):** 8.057

Analyte	Analytical Results (µg)	Analytical Results (mg/m³)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
THCs as Diesel	<10	<1.2	--	10	NIOSH 1550	10/29/2009

General Notes:
<: Less than the indicated reporting limit (RL).
--: Information not available or not applicable.
Back sections (if applicable) were checked and showed no significant breakthrough unless otherwise noted.

Chain of Custody

09101264

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Workorder: 10115347 **Workorder Name:** 0506-117-10 BNSF Parkwater, WA **Results Requested** 11/5/2009

Report / Invoice To	Subcontract To	Requested Analysis
Carol Davy Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700 Email: carol.davy@pacelabs.com	Bureau Veritas P.O. 10115347	

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: General	Requested Analysis: Dilsh 1550	Requested Analysis: D1946-1	LAB USE ONLY
1	VP-CI-102209	10/22/2009 11:45	10115347001	Air	1	X	X	
2	VP-EX-102209	10/22/2009 12:26	10115347002	Air	1	X	X	
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time
1	Carol Davy, Pace MN	10/23/09 1050	O Massey	10/27/09 1:00pm
2				
3				
4				
5				

Comments: please email report to carol.davy@pacelabs.com

VP-CI-102209 8,0002
VP-EX-102209 8,0572

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10115347

00699 | Page: 1 of 1

Section A Required Client Information:

Company: GeoEngineers
Address: 523 E 2nd Ave
Spokane WA 99202
Email To: bwilliams@geoengineers.com
Phone: 509-363-3125 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Bruce Williams
Copy To: Scott Lathen
Purchase Order No.:
Project Name: Parkwater
Project Number: 0506-117-10

Section C Invoice Information:

Attention: Bruce Sheppard
Company Name: BNSF
Address:
Pace Quote Reference: Work TT0101-JOZ
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☒ Emmisions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WA

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level: II X III. IV. Other

Section D Required Client Information

AIR SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	SAMPLE TYPE (G=Grab C=Composite)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE - END/GRAB DATE	COLLECTED COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field)	Canister Pressure (Final Field)	Summa Can Number	Method: TO-3 BTEX, +TPH(ppmv)	TO-3M PPMV MEE	3C- Fixed Gas (%)	TO-14(55 VOCs)	TO-15 (55+VOCs)	TO-15 Low Level	TO-13 (PAH)	TO-4 (PCBs)	PM10	NIOSH 1550	Pace Lab ID
1	VP-CI-102209	UC	C	10/22/09	1115	10/22/09	1145	-29	-1	243	X				X			X			10115347001
2	VP-EX-102209	↓	↓	↓	1150	↓	1220	-26	-1	846	✓				✓			✓			002
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Additional Comments:

A Charcol tube is included w/ each sample for NIOSH 1550
VP-CI-102209 - 8,000 L
VP-EX-102209 - 8,057 L
ORIGINAL

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
			[signature]	10-23-09	09:09

SAMPLE CONDITIONS

Temp In °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Scott Lathen
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/22/09

26 of 27

AIR Sample Condition Upon Receipt

Pace Analytical

Client Name: GEOENGINEERS Project # 10115347

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

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

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other_____

Tracking #: 12F64 A00 139741 7840

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: 10-23-09 JL

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☒No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Media:	AIR (CAN, CHARCOAL TUBES)	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.

Samples Received: 2 CANS, 2 FC's, 2 CHARCOAL TUBES

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
VP-CI-102209	0243		120				
VP-EX-102209	0846		037				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 10-23-09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

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Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10115347
Project Name: 0506-117-10 BNSF Parkwater,

Lab Sample No: 10115347001 ProjSampleNum: 10115347001 Date Collected: 10/22/09 11:45
Client Sample ID: VP-CI-102209 Matrix: Air Date Received: 10/23/09 9:09

Parameters	Report Limit ppbv	Results ppbv	Report Limit ug/m3	Results ug/m3	DF	Analyzed	CAS No.
Air							
TO-15							
1,1,1-Trichloroethane	0.87	ND	4.8	ND	1.68	10/31/09 6:52 LCW	71-55-6
1,1,2,2-Tetrachloroethane	0.87	ND	6.1	ND	1.68	10/31/09 6:52 LCW	79-34-5
1,1,2-Trichloroethane	0.87	ND	4.8	ND	1.68	10/31/09 6:52 LCW	79-00-5
1,1,2-Trichlorotrifluoroethane	0.87	ND	6.8	ND	1.68	10/31/09 6:52 LCW	76-13-1
1,1-Dichloroethane	0.87	ND	3.6	ND	1.68	10/31/09 6:52 LCW	75-34-3
1,1-Dichloroethene	0.87	ND	3.5	ND	1.68	10/31/09 6:52 LCW	75-35-4
1,2,4-Trichlorobenzene	0.87	ND	6.6	ND	1.68	10/31/09 6:52 LCW	120-82-1
1,2,4-Trimethylbenzene	0.86	ND	4.3	ND	1.68	10/31/09 6:52 LCW	95-63-6
1,2-Dibromoethane (EDB)	0.87	ND	6.8	ND	1.68	10/31/09 6:52 LCW	106-93-4
1,2-Dichlorobenzene	0.86	ND	5.3	ND	1.68	10/31/09 6:52 LCW	95-50-1
1,2-Dichloroethane	0.87	ND	3.6	ND	1.68	10/31/09 6:52 LCW	107-06-2
1,2-Dichloropropane	0.87	ND	4.1	ND	1.68	10/31/09 6:52 LCW	78-87-5
1,3,5-Trimethylbenzene	0.87	ND	4.3	ND	1.68	10/31/09 6:52 LCW	108-67-8
1,3-Butadiene	0.87	ND	2	ND	1.68	10/31/09 6:52 LCW	106-99-0
1,3-Dichlorobenzene	0.86	ND	5.3	ND	1.68	10/31/09 6:52 LCW	541-73-1
1,4-Dichlorobenzene	0.86	ND	5.3	ND	1.68	10/31/09 6:52 LCW	106-46-7
1,4-Dioxane (p-Dioxane)	0.12	ND	0.44	ND	1.25	10/28/09 11:24 LCW	123-91-1
2,2,4-Trimethylpentane	0.84	14.5	4	68.9	1.68	10/31/09 6:52 LCW	540-84-1
2-Butanone (MEK)	0.92	0.99	2.8	2.97	1.68	10/31/09 6:52 LCW	78-93-3
2-Hexanone	0.92	ND	3.8	ND	1.68	10/31/09 6:52 LCW	591-78-6
2-Propanol	0.84	ND	2.1	ND	1.68	10/31/09 6:52 LCW	67-63-0
4-Ethyltoluene	0.89	ND	4.4	ND	1.68	10/31/09 6:52 LCW	622-96-8
4-Methyl-2-pentanone (MIBK)	0.92	ND	3.8	ND	1.68	10/31/09 6:52 LCW	108-10-1
Acetone	0.92	ND	2.2	ND	1.68	10/31/09 6:52 LCW	67-64-1
Benzene	0.87	ND	2.8	ND	1.68	10/31/09 6:52 LCW	71-43-2
Bromodichloromethane	0.86	ND	5.9	ND	1.68	10/31/09 6:52 LCW	75-27-4
Bromoform	0.87	ND	9.1	ND	1.68	10/31/09 6:52 LCW	75-25-2
Bromomethane	0.86	ND	3.4	ND	1.68	10/31/09 6:52 LCW	74-83-9
Carbon disulfide	0.84	3.4	2.7	10.8	1.68	10/31/09 6:52 LCW	75-15-0
Carbon tetrachloride	0.86	ND	5.5	ND	1.68	10/31/09 6:52 LCW	56-23-5
Chlorobenzene	0.87	ND	4.1	ND	1.68	10/31/09 6:52 LCW	108-90-7
Chloroethane	0.86	ND	2.3	ND	1.68	10/31/09 6:52 LCW	75-00-3
Chloroform	0.86	ND	4.3	ND	1.68	10/31/09 6:52 LCW	67-66-3
Chloromethane	0.84	ND	1.8	ND	1.68	10/31/09 6:52 LCW	74-87-3
cis-1,2-Dichloroethene	0.87	ND	3.5	ND	1.68	10/31/09 6:52 LCW	156-59-2
cis-1,3-Dichloropropene	0.86	ND	4	ND	1.68	10/31/09 6:52 LCW	10061-01-5
Cyclohexane	0.87	4.1	3	14.3	1.68	10/31/09 6:52 LCW	110-82-7
Dibromochloromethane	0.89	ND	7.7	ND	1.68	10/31/09 6:52 LCW	124-48-1
Dichlorodifluoromethane	0.86	ND	4.3	ND	1.68	10/31/09 6:52 LCW	75-71-8
Dichlorotetrafluoroethane	0.96	ND	6.8	ND	1.68	10/31/09 6:52 LCW	76-14-2
Ethanol	0.84	14.8	1.6	28.3	1.68	10/31/09 6:52 LCW	64-17-5

SUPPLEMENTAL REPORT

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ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10115347
Project Name: 0506-117-10 BNSF Parkwater,

Ethyl acetate	0.86	ND	3.2	ND	1.68	10/31/09 6:52	LCW	141-78-6
Ethylbenzene	0.87	ND	3.8	ND	1.68	10/31/09 6:52	LCW	100-41-4
Hexachloro-1,3-butadiene	0.84	ND	9.1	ND	1.68	10/31/09 6:52	LCW	87-68-3
Isopropylbenzene (Cumene)	0.84	ND	4.2	ND	1.68	10/31/09 6:52	LCW	98-82-8
m&p-Xylene	1.7	ND	7.5	ND	1.68	10/31/09 6:52	LCW	1330-20-7
Methylene Chloride	0.87	1.1	3.1	3.88	1.68	10/31/09 6:52	LCW	75-09-2
Methyl-tert-butyl ether	1.7	ND	6.2	ND	1.68	10/31/09 6:52	LCW	1634-04-4
Naphthalene	0.84	ND	4.5	ND	1.68	10/31/09 6:52	LCW	91-20-3
n-Heptane	0.87	ND	3.6	ND	1.68	10/31/09 6:52	LCW	142-82-5
n-Hexane	0.89	ND	3.2	ND	1.68	10/31/09 6:52	LCW	110-54-3
o-Xylene	0.87	ND	3.8	ND	1.68	10/31/09 6:52	LCW	95-47-6
Propylene	3.4	ND	5.9	ND	1.68	10/31/09 6:52	LCW	115-07-1
Styrene	0.92	ND	4	ND	1.68	10/31/09 6:52	LCW	100-42-5
Tetrachloroethene	0.87	1.6	6	11	1.68	10/31/09 6:52	LCW	127-18-4
Tetrahydrofuran	0.87	ND	2.6	ND	1.68	10/31/09 6:52	LCW	109-99-9
THC as Gas	33.6	17300	150	75100	1.68	10/31/09 6:52	LCW	
Toluene	0.87	0.99	3.3	3.79	1.68	10/31/09 6:52	LCW	108-88-3
trans-1,2-Dichloroethene	1.7	ND	6.9	ND	1.68	10/31/09 6:52	LCW	156-60-5
trans-1,3-Dichloropropene	0.87	ND	4	ND	1.68	10/31/09 6:52	LCW	10061-02-6
Trichloroethene	0.87	ND	4.8	ND	1.68	10/31/09 6:52	LCW	79-01-6
Trichlorofluoromethane	0.84	1.0	4.8	5.71	1.68	10/31/09 6:52	LCW	75-69-4
Vinyl acetate	0.92	ND	3.3	ND	1.68	10/31/09 6:52	LCW	108-05-4
Vinyl chloride	0.86	ND	2.2	ND	1.68	10/31/09 6:52	LCW	75-01-4
Xylene (Total)	2.5	ND	11	ND	1.68	10/31/09 6:52	LCW	1330-20-7

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ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10115347
Project Name: 0506-117-10 BNSF Parkwater,

Lab Sample No: 10115347002
Client Sample ID: VP-EX-102209

ProjSampleNum: 10115347002
Matrix: Air

Date Collected: 10/22/09 12:26
Date Received: 10/23/09 9:09

Parameters	Report Limit ppbv	Results ppbv	Report Limit ug/m3	Results ug/m3	DF	Analyzed	CAS No.
Air							
TO-15							
1,1,1-Trichloroethane	0.72	ND	4	ND	1.38	10/28/09 16:09 LCW	71-55-6
1,1,2,2-Tetrachloroethane	0.72	ND	5	ND	1.38	10/28/09 16:09 LCW	79-34-5
1,1,2-Trichloroethane	0.72	ND	4	ND	1.38	10/28/09 16:09 LCW	79-00-5
1,1,2-Trichlorotrifluoroethane	0.72	ND	5.6	ND	1.38	10/28/09 16:09 LCW	76-13-1
1,1-Dichloroethane	0.72	ND	3	ND	1.38	10/28/09 16:09 LCW	75-34-3
1,1-Dichloroethene	0.72	ND	2.9	ND	1.38	10/28/09 16:09 LCW	75-35-4
1,2,4-Trichlorobenzene	0.72	ND	5.4	ND	1.38	10/28/09 16:09 LCW	120-82-1
1,2,4-Trimethylbenzene	0.7	ND	3.5	ND	1.38	10/28/09 16:09 LCW	95-63-6
1,2-Dibromoethane (EDB)	0.72	ND	5.6	ND	1.38	10/28/09 16:09 LCW	106-93-4
1,2-Dichlorobenzene	0.7	ND	4.3	ND	1.38	10/28/09 16:09 LCW	95-50-1
1,2-Dichloroethane	0.72	ND	3	ND	1.38	10/28/09 16:09 LCW	107-06-2
1,2-Dichloropropane	0.72	ND	3.4	ND	1.38	10/28/09 16:09 LCW	78-87-5
1,3,5-Trimethylbenzene	0.72	ND	3.6	ND	1.38	10/28/09 16:09 LCW	108-67-8
1,3-Butadiene	0.72	ND	1.6	ND	1.38	10/28/09 16:09 LCW	106-99-0
1,3-Dichlorobenzene	0.7	ND	4.3	ND	1.38	10/28/09 16:09 LCW	541-73-1
1,4-Dichlorobenzene	0.7	ND	4.3	ND	1.38	10/28/09 16:09 LCW	106-46-7
1,4-Dioxane (p-Dioxane)	0.14	ND	0.51	ND	1.38	10/28/09 11:55 LCW	123-91-1
2,2,4-Trimethylpentane	0.69	ND	3.3	ND	1.38	10/28/09 16:09 LCW	540-84-1
2-Butanone (MEK)	0.76	ND	2.3	ND	1.38	10/28/09 16:09 LCW	78-93-3
2-Hexanone	0.76	ND	3.2	ND	1.38	10/28/09 16:09 LCW	591-78-6
2-Propanol	0.69	ND	1.7	ND	1.38	10/28/09 16:09 LCW	67-63-0
4-Ethyltoluene	0.73	ND	3.6	ND	1.38	10/28/09 16:09 LCW	622-96-8
4-Methyl-2-pentanone (MIBK)	0.76	ND	3.2	ND	1.38	10/28/09 16:09 LCW	108-10-1
Acetone	0.76	1.3	1.8	3.14	1.38	10/28/09 16:09 LCW	67-64-1
Benzene	0.72	ND	2.3	ND	1.38	10/28/09 16:09 LCW	71-43-2
Bromodichloromethane	0.7	ND	4.8	ND	1.38	10/28/09 16:09 LCW	75-27-4
Bromoform	0.72	ND	7.6	ND	1.38	10/28/09 16:09 LCW	75-25-2
Bromomethane	0.7	ND	2.8	ND	1.38	10/28/09 16:09 LCW	74-83-9
Carbon disulfide	0.69	1.0	2.2	3.17	1.38	10/28/09 16:09 LCW	75-15-0
Carbon tetrachloride	0.7	ND	4.5	ND	1.38	10/28/09 16:09 LCW	56-23-5
Chlorobenzene	0.72	ND	3.4	ND	1.38	10/28/09 16:09 LCW	108-90-7
Chloroethane	0.7	ND	1.9	ND	1.38	10/28/09 16:09 LCW	75-00-3
Chloroform	0.7	ND	3.5	ND	1.38	10/28/09 16:09 LCW	67-66-3
Chloromethane	0.69	ND	1.4	ND	1.38	10/28/09 16:09 LCW	74-87-3
cis-1,2-Dichloroethene	0.72	ND	2.9	ND	1.38	10/28/09 16:09 LCW	156-59-2
cis-1,3-Dichloropropene	0.7	ND	3.2	ND	1.38	10/28/09 16:09 LCW	10061-01-5
Cyclohexane	0.72	ND	2.5	ND	1.38	10/28/09 16:09 LCW	110-82-7
Dibromochloromethane	0.73	ND	6.3	ND	1.38	10/28/09 16:09 LCW	124-48-1
Dichlorodifluoromethane	0.7	ND	3.5	ND	1.38	10/28/09 16:09 LCW	75-71-8
Dichlorotetrafluoroethane	0.79	ND	5.6	ND	1.38	10/28/09 16:09 LCW	76-14-2
Ethanol	0.69	ND	1.3	ND	1.38	10/28/09 16:09 LCW	64-17-5

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ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10115347
Project Name: 0506-117-10 BNSF Parkwater,

Ethyl acetate	0.7	ND	2.6	ND	1.38	10/28/09 16:09	LCW	141-78-6
Ethylbenzene	0.72	ND	3.2	ND	1.38	10/28/09 16:09	LCW	100-41-4
Hexachloro-1,3-butadiene	0.69	ND	7.5	ND	1.38	10/28/09 16:09	LCW	87-68-3
Isopropylbenzene (Cumene)	0.69	ND	3.4	ND	1.38	10/28/09 16:09	LCW	98-82-8
m&p-Xylene	1.4	ND	6.2	ND	1.38	10/28/09 16:09	LCW	1330-20-7
Methylene Chloride	0.72	ND	2.5	ND	1.38	10/28/09 16:09	LCW	75-09-2
Methyl-tert-butyl ether	1.4	ND	5.1	ND	1.38	10/28/09 16:09	LCW	1634-04-4
Naphthalene	0.69	1.3	3.7	6.92	1.38	10/28/09 16:09	LCW	91-20-3
n-Heptane	0.72	ND	3	ND	1.38	10/28/09 16:09	LCW	142-82-5
n-Hexane	0.73	ND	2.6	ND	1.38	10/28/09 16:09	LCW	110-54-3
o-Xylene	0.72	ND	3.2	ND	1.38	10/28/09 16:09	LCW	95-47-6
Propylene	2.8	ND	4.9	ND	1.38	10/28/09 16:09	LCW	115-07-1
Styrene	0.76	ND	3.3	ND	1.38	10/28/09 16:09	LCW	100-42-5
Tetrachloroethene	0.72	ND	5	ND	1.38	10/28/09 16:09	LCW	127-18-4
Tetrahydrofuran	0.72	ND	2.2	ND	1.38	10/28/09 16:09	LCW	109-99-9
THC as Gas	27.6	6280	120	27300	1.38	10/28/09 16:09	LCW	
Toluene	0.72	0.76	2.8	2.91	1.38	10/28/09 16:09	LCW	108-88-3
trans-1,2-Dichloroethene	1.4	ND	5.6	ND	1.38	10/28/09 16:09	LCW	156-60-5
trans-1,3-Dichloropropene	0.72	ND	3.3	ND	1.38	10/28/09 16:09	LCW	10061-02-6
Trichloroethene	0.72	ND	3.9	ND	1.38	10/28/09 16:09	LCW	79-01-6
Trichlorofluoromethane	0.69	ND	3.9	ND	1.38	10/28/09 16:09	LCW	75-69-4
Vinyl acetate	0.76	ND	2.7	ND	1.38	10/28/09 16:09	LCW	108-05-4
Vinyl chloride	0.7	ND	1.8	ND	1.38	10/28/09 16:09	LCW	75-01-4
Xylene (Total)	2.1	ND	9.3	ND	1.38	10/28/09 16:09	LCW	1330-20-7

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November 20, 2009

Bruce Williams
GeoEngineers,Inc.
523 East Second Ave
Spokane, WA 99202

RE: Project: 0506-117-10 Parkwater
Pace Project No.: 10116526

Dear Bruce Williams:
Enclosed are the analytical results for sample(s) received by the laboratory on November 07, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

This report contains data that were produced by a subcontracted laboratory that performed fields of testing that do not require certification.

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

Sincerely,

Carol Davy

Carol Davy

carol.davy@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 0506-117-10 Parkwater
Pace Project No.: 10116526

Minnesota Certification IDs
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 0506-117-10 Parkwater
Pace Project No.: 10116526

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10116526001	**VP-CI-110609**	Air	11/06/09 11:13	11/07/09 09:40

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SAMPLE ANALYTE COUNT

Project: 0506-117-10 Parkwater
Pace Project No.: 10116526

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10116526001	**VP-CI-110609**	TO-15	DB1	65	PASI-M

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PROJECT NARRATIVE

Project: 0506-117-10 Parkwater
Pace Project No.: 10116526

Method: **TO-15**
Description: TO15 MSV AIR
Client: GeoEngineers,Inc.
Date: November 20, 2009

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
- VP-CI-110609 (Lab ID: 10116526001)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/9400

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.
- LCS (Lab ID: 715898)
  - 2-Propanol
- VP-CI-110609 (Lab ID: 10116526001)
  - 2-Propanol

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: AIR/9400

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- LCS (Lab ID: 715898)
  - 1,2-Dichlorobenzene
  - 4-Ethyltoluene
  - Bromoform
  - cis-1,3-Dichloropropene
  - trans-1,3-Dichloropropene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

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PROJECT NARRATIVE

Project: 0506-117-10 Parkwater
Pace Project No.: 10116526

Method: **TO-15**
Description: TO15 MSV AIR
Client: GeoEngineers,Inc.
Date: November 20, 2009

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 0506-117-10 Parkwater
Pace Project No.: 10116526

Sample: VP-CI-110609 **Lab ID: 10116526001** Collected: 11/06/09 11:13 Received: 11/07/09 09:40 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,1-Trichloroethane	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	76-13-1	
1,1-Dichloroethane	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	75-34-3	
1,1-Dichloroethene	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	75-35-4	
1,2,4-Trichlorobenzene	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	120-82-1	
1,2,4-Trimethylbenzene	**37.4**	ppbv	13.7	6.8	26.8		11/19/09 10:57	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	13.7	6.8	26.8		11/19/09 10:57	95-50-1	
1,2-Dichloroethane	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	107-06-2	
1,2-Dichloropropane	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	78-87-5	
1,3,5-Trimethylbenzene	**17.7**	ppbv	13.9	7.0	26.8		11/19/09 10:57	108-67-8	
1,3-Butadiene	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	106-99-0	
1,3-Dichlorobenzene	ND	ppbv	13.7	6.8	26.8		11/19/09 10:57	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	13.7	6.8	26.8		11/19/09 10:57	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	5.4	2.7	26.8		11/19/09 10:57	123-91-1	L2
2,2,4-Trimethylpentane	**13.5**	ppbv	13.4	6.7	26.8		11/19/09 10:57	540-84-1	
2-Butanone (MEK)	**32.1**	ppbv	14.7	7.4	26.8		11/19/09 10:57	78-93-3	
2-Hexanone	ND	ppbv	14.7	7.4	26.8		11/19/09 10:57	591-78-6	
2-Propanol	**86.6**	ppbv	13.4	6.7	26.8		11/19/09 10:57	67-63-0	SS
4-Ethyltoluene	ND	ppbv	14.2	7.1	26.8		11/19/09 10:57	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	14.7	7.4	26.8		11/19/09 10:57	108-10-1	
Acetone	**51.6**	ppbv	14.7	7.4	26.8		11/19/09 10:57	67-64-1	
Benzene	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	71-43-2	
Bromodichloromethane	ND	ppbv	13.7	6.8	26.8		11/19/09 10:57	75-27-4	
Bromoform	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	75-25-2	
Bromomethane	ND	ppbv	13.7	6.8	26.8		11/19/09 10:57	74-83-9	
Carbon disulfide	ND	ppbv	13.4	6.7	26.8		11/19/09 10:57	75-15-0	
Carbon tetrachloride	ND	ppbv	13.7	6.8	26.8		11/19/09 10:57	56-23-5	
Chlorobenzene	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	108-90-7	
Chloroethane	ND	ppbv	13.7	6.8	26.8		11/19/09 10:57	75-00-3	
Chloroform	ND	ppbv	13.7	6.8	26.8		11/19/09 10:57	67-66-3	
Chloromethane	ND	ppbv	13.4	6.7	26.8		11/19/09 10:57	74-87-3	
Cyclohexane	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	110-82-7	
Dibromochloromethane	ND	ppbv	14.2	7.1	26.8		11/19/09 10:57	124-48-1	
Dichlorodifluoromethane	ND	ppbv	13.7	6.8	26.8		11/19/09 10:57	75-71-8	
Dichlorotetrafluoroethane	ND	ppbv	15.3	7.6	26.8		11/19/09 10:57	76-14-2	
Ethanol	**132**	ppbv	13.4	6.7	26.8		11/19/09 10:57	64-17-5	
Ethyl acetate	ND	ppbv	13.7	6.8	26.8		11/19/09 10:57	141-78-6	
Ethylbenzene	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	13.4	6.7	26.8		11/19/09 10:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ppbv	13.4	6.7	26.8		11/19/09 10:57	98-82-8	
Methyl-tert-butyl ether	ND	ppbv	26.8	13.4	26.8		11/19/09 10:57	1634-04-4	
Methylene Chloride	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	75-09-2	
Naphthalene	ND	ppbv	13.4	6.7	26.8		11/19/09 10:57	91-20-3	

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ANALYTICAL RESULTS

Project: 0506-117-10 Parkwater
Pace Project No.: 10116526

Sample: VP-CI-110609 **Lab ID: 10116526001** Collected: 11/06/09 11:13 Received: 11/07/09 09:40 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Propylene	ND	ppbv	53.6	26.8	26.8		11/19/09 10:57	115-07-1	
Styrene	ND	ppbv	14.7	7.4	26.8		11/19/09 10:57	100-42-5	
THC as Gas	**36000**	ppbv	536	268	26.8		11/19/09 10:57		
Tetrachloroethene	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	127-18-4	
Tetrahydrofuran	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	109-99-9	
Toluene	**34.5**	ppbv	13.9	7.0	26.8		11/19/09 10:57	108-88-3	
Trichloroethene	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	79-01-6	
Trichlorofluoromethane	ND	ppbv	13.4	6.7	26.8		11/19/09 10:57	75-69-4	
Vinyl acetate	ND	ppbv	14.7	7.4	26.8		11/19/09 10:57	108-05-4	
Vinyl chloride	ND	ppbv	13.7	6.8	26.8		11/19/09 10:57	75-01-4	
Xylene (Total)	**93.6**	ppbv	40.2	20.1	26.8		11/19/09 10:57	1330-20-7	
cis-1,2-Dichloroethene	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	13.7	6.8	26.8		11/19/09 10:57	10061-01-5	
m&p-Xylene	**65.6**	ppbv	26.8	13.4	26.8		11/19/09 10:57	1330-20-7	
n-Heptane	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	142-82-5	
n-Hexane	ND	ppbv	14.2	7.1	26.8		11/19/09 10:57	110-54-3	
o-Xylene	**27.9**	ppbv	13.9	7.0	26.8		11/19/09 10:57	95-47-6	
trans-1,2-Dichloroethene	ND	ppbv	26.8	13.4	26.8		11/19/09 10:57	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	13.9	7.0	26.8		11/19/09 10:57	10061-02-6	

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QUALITY CONTROL DATA

Project: 0506-117-10 Parkwater
Pace Project No.: 10116526

QC Batch: AIR/9400
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10116526001

METHOD BLANK: 715897
Matrix: Air
Associated Lab Samples: 10116526001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.52	11/18/09 21:43	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.52	11/18/09 21:43	
1,1,2-Trichloroethane	ppbv	ND	0.52	11/18/09 21:43	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.52	11/18/09 21:43	
1,1-Dichloroethane	ppbv	ND	0.52	11/18/09 21:43	
1,1-Dichloroethene	ppbv	ND	0.52	11/18/09 21:43	
1,2,4-Trichlorobenzene	ppbv	ND	0.52	11/18/09 21:43	
1,2,4-Trimethylbenzene	ppbv	ND	0.51	11/18/09 21:43	
1,2-Dibromoethane (EDB)	ppbv	ND	0.52	11/18/09 21:43	
1,2-Dichlorobenzene	ppbv	ND	0.51	11/18/09 21:43	
1,2-Dichloroethane	ppbv	ND	0.52	11/18/09 21:43	
1,2-Dichloropropane	ppbv	ND	0.52	11/18/09 21:43	
1,3,5-Trimethylbenzene	ppbv	ND	0.52	11/18/09 21:43	
1,3-Butadiene	ppbv	ND	0.52	11/18/09 21:43	
1,3-Dichlorobenzene	ppbv	ND	0.51	11/18/09 21:43	
1,4-Dichlorobenzene	ppbv	ND	0.51	11/18/09 21:43	
1,4-Dioxane (p-Dioxane)	ppbv	ND	0.20	11/18/09 21:43	
2,2,4-Trimethylpentane	ppbv	ND	0.50	11/18/09 21:43	
2-Butanone (MEK)	ppbv	ND	0.55	11/18/09 21:43	
2-Hexanone	ppbv	ND	0.55	11/18/09 21:43	
2-Propanol	ppbv	ND	0.50	11/18/09 21:43	
4-Ethyltoluene	ppbv	ND	0.53	11/18/09 21:43	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	0.55	11/18/09 21:43	
Acetone	ppbv	ND	0.55	11/18/09 21:43	
Benzene	ppbv	ND	0.52	11/18/09 21:43	
Bromodichloromethane	ppbv	ND	0.51	11/18/09 21:43	
Bromoform	ppbv	ND	0.52	11/18/09 21:43	
Bromomethane	ppbv	ND	0.51	11/18/09 21:43	
Carbon disulfide	ppbv	ND	0.50	11/18/09 21:43	
Carbon tetrachloride	ppbv	ND	0.51	11/18/09 21:43	
Chlorobenzene	ppbv	ND	0.52	11/18/09 21:43	
Chloroethane	ppbv	ND	0.51	11/18/09 21:43	
Chloroform	ppbv	ND	0.51	11/18/09 21:43	
Chloromethane	ppbv	ND	0.50	11/18/09 21:43	
cis-1,2-Dichloroethene	ppbv	ND	0.52	11/18/09 21:43	
cis-1,3-Dichloropropene	ppbv	ND	0.51	11/18/09 21:43	
Cyclohexane	ppbv	ND	0.52	11/18/09 21:43	
Dibromochloromethane	ppbv	ND	0.53	11/18/09 21:43	
Dichlorodifluoromethane	ppbv	ND	0.51	11/18/09 21:43	
Dichlorotetrafluoroethane	ppbv	ND	0.57	11/18/09 21:43	
Ethanol	ppbv	ND	0.50	11/18/09 21:43	
Ethyl acetate	ppbv	ND	0.51	11/18/09 21:43	
Ethylbenzene	ppbv	ND	0.52	11/18/09 21:43	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 0506-117-10 Parkwater
Pace Project No.: 10116526

METHOD BLANK: 715897 Matrix: Air

Associated Lab Samples: 10116526001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ppbv	ND	0.50	11/18/09 21:43	
Isopropylbenzene (Cumene)	ppbv	ND	0.50	11/18/09 21:43	
m&p-Xylene	ppbv	ND	1.0	11/18/09 21:43	
Methyl-tert-butyl ether	ppbv	ND	1.0	11/18/09 21:43	
Methylene Chloride	ppbv	ND	0.52	11/18/09 21:43	
n-Heptane	ppbv	ND	0.52	11/18/09 21:43	
n-Hexane	ppbv	ND	0.53	11/18/09 21:43	
Naphthalene	ppbv	ND	0.50	11/18/09 21:43	
o-Xylene	ppbv	ND	0.52	11/18/09 21:43	
Propylene	ppbv	ND	2.0	11/18/09 21:43	
Styrene	ppbv	ND	0.55	11/18/09 21:43	
Tetrachloroethene	ppbv	ND	0.52	11/18/09 21:43	
Tetrahydrofuran	ppbv	ND	0.52	11/18/09 21:43	
THC as Gas	ppbv	ND	20.0	11/18/09 21:43	
Toluene	ppbv	ND	0.52	11/18/09 21:43	
trans-1,2-Dichloroethene	ppbv	ND	1.0	11/18/09 21:43	
trans-1,3-Dichloropropene	ppbv	ND	0.52	11/18/09 21:43	
Trichloroethene	ppbv	ND	0.52	11/18/09 21:43	
Trichlorofluoromethane	ppbv	ND	0.50	11/18/09 21:43	
Vinyl acetate	ppbv	ND	0.55	11/18/09 21:43	
Vinyl chloride	ppbv	ND	0.51	11/18/09 21:43	
Xylene (Total)	ppbv	ND	1.5	11/18/09 21:43	

LABORATORY CONTROL SAMPLE: 715898

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10.3	11.4	110	60-125	
1,1,2,2-Tetrachloroethane	ppbv	10.2	12.6	124	57-127	
1,1,2-Trichloroethane	ppbv	10.1	10.7	106	56-125	
1,1,2-Trichlorotrifluoroethane	ppbv	9.8	6.8	70	52-133	
1,1-Dichloroethane	ppbv	10	9.0	90	54-127	
1,1-Dichloroethene	ppbv	10	11.9	119	52-129	
1,2,4-Trichlorobenzene	ppbv	9.9	10.3	104	30-150	
1,2,4-Trimethylbenzene	ppbv	9.9	14.4	145	52-145	
1,2-Dibromoethane (EDB)	ppbv	10.4	12.2	117	59-133	
1,2-Dichlorobenzene	ppbv	10.2	14.2	140	67-135	L3
1,2-Dichloroethane	ppbv	10.9	11.9	109	54-125	
1,2-Dichloropropane	ppbv	10.8	13.1	121	64-125	
1,3,5-Trimethylbenzene	ppbv	9.9	13.1	132	56-135	
1,3-Butadiene	ppbv	10.1	10.7	106	55-125	
1,3-Dichlorobenzene	ppbv	10.5	13.7	130	61-142	
1,4-Dichlorobenzene	ppbv	10.3	12.2	119	55-142	
1,4-Dioxane (p-Dioxane)	ppbv	10	5.9	59	70-130	L2
2,2,4-Trimethylpentane	ppbv	10	8.4	84	70-130	
2-Butanone (MEK)	ppbv	10.3	9.6	93	47-141	

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QUALITY CONTROL DATA

Project: 0506-117-10 Parkwater
Pace Project No.: 10116526

LABORATORY CONTROL SAMPLE: 715898

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ppbv	10.1	10.6	104	41-138	
2-Propanol	ppbv	9.5	14.6	154	63-125	SS
4-Ethyltoluene	ppbv	10	14.4	144	62-130	L3
4-Methyl-2-pentanone (MIBK)	ppbv	10.2	11.9	117	53-134	
Acetone	ppbv	10	9.1	91	44-149	
Benzene	ppbv	10.1	10.4	103	61-126	
Bromodichloromethane	ppbv	10	11.4	114	54-129	
Bromoform	ppbv	10.2	13.2	130	56-125	L3
Bromomethane	ppbv	10.1	9.7	96	56-128	
Carbon disulfide	ppbv	10.3	9.4	92	58-150	
Carbon tetrachloride	ppbv	10.1	9.5	94	55-125	
Chlorobenzene	ppbv	9.9	11.4	115	48-138	
Chloroethane	ppbv	9.9	9.2	93	56-128	
Chloroform	ppbv	9.7	10.4	108	55-125	
Chloromethane	ppbv	10	11.2	112	50-131	
cis-1,2-Dichloroethene	ppbv	10.3	11.8	115	64-125	
cis-1,3-Dichloropropene	ppbv	10.5	15.7	149	61-132	L3
Cyclohexane	ppbv	10.2	12.9	127	61-130	
Dibromochloromethane	ppbv	10.5	12.4	118	51-129	
Dichlorodifluoromethane	ppbv	9.8	7.8	80	56-132	
Dichlorotetrafluoroethane	ppbv	10	8.8	88	48-125	
Ethanol	ppbv	10	12.1	121	70-130	
Ethyl acetate	ppbv	10.2	12.2	120	66-149	
Ethylbenzene	ppbv	11	12.4	113	56-137	
Hexachloro-1,3-butadiene	ppbv	9.8	9.8	100	30-150	
Isopropylbenzene (Cumene)	ppbv	10.4	12.8	123	67-134	
m&p-Xylene	ppbv	21	23.5	112	62-135	
Methyl-tert-butyl ether	ppbv	10	9.7	97	59-125	
Methylene Chloride	ppbv	9.8	6.0	62	46-143	
n-Heptane	ppbv	10.3	10.7	104	64-130	
n-Hexane	ppbv	10.9	9.4	86	61-134	
Naphthalene	ppbv	9.5	10.2	107	30-150	
o-Xylene	ppbv	10.3	12.2	118	61-134	
Propylene	ppbv	10.6	12.4	117	62-146	
Styrene	ppbv	10	11.0	110	63-134	
Tetrachloroethene	ppbv	10.4	11.3	109	61-132	
Tetrahydrofuran	ppbv	7.5	5.2	69	62-137	
THC as Gas	ppbv	700	860	123	61-125	
Toluene	ppbv	10.4	9.4	90	57-132	
trans-1,2-Dichloroethene	ppbv	10.4	10.8	103	52-130	
trans-1,3-Dichloropropene	ppbv	10.6	14.5	137	61-129	L3
Trichloroethene	ppbv	10.1	13.3	131	72-147	
Trichlorofluoromethane	ppbv	9.8	10.8	111	58-141	
Vinyl acetate	ppbv	10.3	10.5	101	56-131	
Vinyl chloride	ppbv	10.3	10	97	56-136	
Xylene (Total)	ppbv	31.3	35.6	114	70-130	

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QUALIFIERS

Project: 0506-117-10 Parkwater
Pace Project No.: 10116526

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

November 17, 2009

Carol Davy
PACE ANALYTICAL
1700 Elm Street SE
Minneapolis, MN 55127-

Bureau Veritas Work Order No. 09110495

Reference: 0506-117-10 PARKWATER

Dear Carol Davy:

Bureau Veritas North America, Inc. received 1 sample on 11/10/2009 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

Karen Coonan

Karen Coonan
Client Services Representative

cc:

Bureau Veritas North America, Inc.
22345 Roethel Drive
Novi, MI 48375

Main: (248) 344.1770
Fax: (248) 344.2655
www.us.bureauveritas.com

CASE NARRATIVE

Date: *18-Nov-09*

Client: PACE ANALYTICAL

Project: 0506-117-10 PARKWATER

Work Order No 09110495

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

The industrial hygiene results have not been blank corrected. Please note that a field blank was not identified by the client for this sample set.

The following result has been converted from mg/m3 to ug/m3.
Sample -001A: THCs as Diesel = <1300 ug/m3

ANALYTICAL RESULTS

Date: *17-Nov-09*

Client: PACE ANALYTICAL

Project: 0506-117-10 PARKWATER **Work Order No:** 09110495

Sample Identification: VP-CI-110609

Lab Number: 001A **Date Sampled:** 11/6/2009

Sample Type Charcoal Tube **Date Received:** 11/10/2009

Analyst CCR **Air Volume (L):** 8

Analyte	Analytical Results (µg)	Analytical Results (mg/m^3)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
THCs as Diesel	<10	<1.3	--	10	NIOSH 1550	11/16/2009

15 of 18

General Notes:
<: Less than the indicated reporting limit (RL).
--: Information not available or not applicable.
Back sections (if applicable) were checked and showed no significant breakthrough unless otherwise noted.

Chain of Custody

0911049S

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Workorder: 10116526 **Workorder Name:** 0506-117-10 Parkwater **Results Requested** 11/20/2009

Report / Invoice To	Subcontract To	Requested Analysis
Carol Davy Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700 Email: carol.davy@pacelabs.com	Bureau Veritas P.O. 10116526	

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis	LAB USE ONLY
1	VP-CI-110609	11/6/2009 11:13	10116526001	Air	1	X	
2							
3							
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	[signature]	11/10/09 0945	[signature]	11/10/09 1220p	
2					
3					
4					
5					

Sample volume 8.000L

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10116526

00651 | Page: of

Section A Required Client Information:

Company: GeoEngineers
Address: 523 E 2nd Ave
Spokane WA 99202
Email To: bwilliams@geoengineers.com
Phone: 509-363-3125 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Bruce William
Copy To: Scott Lathen slathen@geoengineers.com
Purchase Order No.: TTO101-J02
Project Name: Parkwater
Project Number: 0506-117-10

Section C Invoice Information:

Attention: Bruce Sheppard
Company Name: BNSF
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: UST Superfund Emmisions Clean Air Act Voluntary Clean Up Dry Clean RCRA Other

Location of Sampling by State: WA

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level: II. X III. IV. Other

Section D Required Client Information

AIR SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	SAMPLE TYPE G=Grab C=Composite	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE - END/GRAB DATE	COLLECTED COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field)	Canister Pressure (Final Field)	Summa Can Number	Method: TO-3 BTEX +TPH(ppmv)	TO-3M PPMV MEE	3C- Fixed Gas (%)	TO-14(SIM VOCs)	TO-15 (SIM VOC)	TO-15 Low Level	TO-13 (PAH)	TO-4 (PCBs)	PM10	NIOSH 1550	Pace Lab ID
1	VP-CI-110609	AIR	C	11/6/09	1044	11/6/09	1113	-25	0	0711	X				X				X		10116526001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Additional Comments:
Sorbent tube included for NIOSH 1550 analysis
Sample Volume = 8,000 L
ORIGINAL

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
J. Then / GEI	11/6/09	1350	[signature] KAA	11.7.09	0940

SAMPLE CONDITIONS

	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N

Temp in °C | Received on Ice | Custody Sealed Cooler | Samples Intact

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Scott Lathen
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM / DD / YY): 11/06/09

Pace Analytical

AIR Sample Condition Upon Receipt

Client Name: GEOENGINEERS Project # 10116526

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

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

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other_____

Optional
Proj. Due Date:
Proj. Name:

Tracking #: 1ZF64A0044 9671 8941

Comments:

Date and Initials of person examining contents: 11-7-09 K

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Media: AIR (CAN)		11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.

Samples Received: 1 CAN, 1 FC

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
VP-CI-11069	0071		152				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 11-9-09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

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ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10116526
Project Name: 0506-117-10 Parkwater

Lab Sample No: 10116526001
Client Sample ID: VP-CI-110609

ProjSampleNum: 10116526001
Matrix: Air

Date Collected: 11/06/09 11:13
Date Received: 11/07/09 9:40

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
1,1,1-Trichloroethane	ND	ug/m3	77	26.8	11/19/09 10:57 DB1	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/m3	97	26.8	11/19/09 10:57 DB1	79-34-5	
1,1,2-Trichloroethane	ND	ug/m3	77	26.8	11/19/09 10:57 DB1	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	110	26.8	11/19/09 10:57 DB1	76-13-1	
1,1-Dichloroethane	ND	ug/m3	57	26.8	11/19/09 10:57 DB1	75-34-3	
1,1-Dichloroethene	ND	ug/m3	56	26.8	11/19/09 10:57 DB1	75-35-4	
1,2,4-Trichlorobenzene	ND	ug/m3	100	26.8	11/19/09 10:57 DB1	120-82-1	
1,2,4-Trimethylbenzene	187	ug/m3	68	26.8	11/19/09 10:57 DB1	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/m3	110	26.8	11/19/09 10:57 DB1	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	84	26.8	11/19/09 10:57 DB1	95-50-1	
1,2-Dichloroethane	ND	ug/m3	57	26.8	11/19/09 10:57 DB1	107-06-2	
1,2-Dichloropropane	ND	ug/m3	65	26.8	11/19/09 10:57 DB1	78-87-5	
1,3,5-Trimethylbenzene	88.5	ug/m3	69	26.8	11/19/09 10:57 DB1	108-67-8	
1,3-Butadiene	ND	ug/m3	31	26.8	11/19/09 10:57 DB1	106-99-0	
1,3-Dichlorobenzene	ND	ug/m3	84	26.8	11/19/09 10:57 DB1	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	84	26.8	11/19/09 10:57 DB1	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	20	26.8	11/19/09 10:57 DB1	123-91-1	L2
2,2,4-Trimethylpentane	64.1	ug/m3	64	26.8	11/19/09 10:57 DB1	540-84-1	
2-Butanone (MEK)	96.2	ug/m3	44	26.8	11/19/09 10:57 DB1	78-93-3	
2-Hexanone	ND	ug/m3	61	26.8	11/19/09 10:57 DB1	591-78-6	
2-Propanol	216	ug/m3	33	26.8	11/19/09 10:57 DB1	67-63-0	SS
4-Ethyltoluene	ND	ug/m3	71	26.8	11/19/09 10:57 DB1	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	61	26.8	11/19/09 10:57 DB1	108-10-1	
Acetone	125	ug/m3	35	26.8	11/19/09 10:57 DB1	67-64-1	
Benzene	ND	ug/m3	45	26.8	11/19/09 10:57 DB1	71-43-2	
Bromodichloromethane	ND	ug/m3	93	26.8	11/19/09 10:57 DB1	75-27-4	
Bromoform	ND	ug/m3	150	26.8	11/19/09 10:57 DB1	75-25-2	
Bromomethane	ND	ug/m3	54	26.8	11/19/09 10:57 DB1	74-83-9	
Carbon disulfide	ND	ug/m3	42	26.8	11/19/09 10:57 DB1	75-15-0	
Carbon tetrachloride	ND	ug/m3	88	26.8	11/19/09 10:57 DB1	56-23-5	
Chlorobenzene	ND	ug/m3	65	26.8	11/19/09 10:57 DB1	108-90-7	
Chloroethane	ND	ug/m3	37	26.8	11/19/09 10:57 DB1	75-00-3	
Chloroform	ND	ug/m3	68	26.8	11/19/09 10:57 DB1	67-66-3	
Chloromethane	ND	ug/m3	28	26.8	11/19/09 10:57 DB1	74-87-3	
cis-1,2-Dichloroethene	ND	ug/m3	56	26.8	11/19/09 10:57 DB1	156-59-2	
cis-1,3-Dichloropropene	ND	ug/m3	63	26.8	11/19/09 10:57 DB1	10061-01-5	
Cyclohexane	ND	ug/m3	49	26.8	11/19/09 10:57 DB1	110-82-7	

SUPPLEMENTAL REPORT

Units Conversion Request

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ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10116526
Project Name: 0506-117-10 Parkwater

Dibromochloromethane	ND	ug/m3	120	26.8	11/19/09 10:57 DB1	124-48-1
Dichlorodifluoromethane	ND	ug/m3	69	26.8	11/19/09 10:57 DB1	75-71-8
Dichlorotetrafluoroethane	ND	ug/m3	110	26.8	11/19/09 10:57 DB1	76-14-2
Ethanol	253	ug/m3	26	26.8	11/19/09 10:57 DB1	64-17-5
Ethyl acetate	ND	ug/m3	50	26.8	11/19/09 10:57 DB1	141-78-6
Ethylbenzene	ND	ug/m3	61	26.8	11/19/09 10:57 DB1	100-41-4
Hexachloro-1,3-butadiene	ND	ug/m3	150	26.8	11/19/09 10:57 DB1	87-68-3
Isopropylbenzene (Cumene)	ND	ug/m3	67	26.8	11/19/09 10:57 DB1	98-82-8
m&p-Xylene	290	ug/m3	120	26.8	11/19/09 10:57 DB1	1330-20-7
Methylene Chloride	ND	ug/m3	49	26.8	11/19/09 10:57 DB1	75-09-2
Methyl-tert-butyl ether	ND	ug/m3	98	26.8	11/19/09 10:57 DB1	1634-04-4
Naphthalene	ND	ug/m3	71	26.8	11/19/09 10:57 DB1	91-20-3
n-Heptane	ND	ug/m3	58	26.8	11/19/09 10:57 DB1	142-82-5
n-Hexane	ND	ug/m3	51	26.8	11/19/09 10:57 DB1	110-54-3
o-Xylene	123	ug/m3	61	26.8	11/19/09 10:57 DB1	95-47-6
Propylene	ND	ug/m3	94	26.8	11/19/09 10:57 DB1	115-07-1
Styrene	ND	ug/m3	64	26.8	11/19/09 10:57 DB1	100-42-5
Tetrachloroethene	ND	ug/m3	96	26.8	11/19/09 10:57 DB1	127-18-4
Tetrahydrofuran	ND	ug/m3	42	26.8	11/19/09 10:57 DB1	109-99-9
THC as Gas	156000	ug/m3	2300	26.8	11/19/09 10:57 DB1	
Toluene	132	ug/m3	53	26.8	11/19/09 10:57 DB1	108-88-3
trans-1,2-Dichloroethene	ND	ug/m3	110	26.8	11/19/09 10:57 DB1	156-60-5
trans-1,3-Dichloropropene	ND	ug/m3	64	26.8	11/19/09 10:57 DB1	10061-02-6
Trichloroethene	ND	ug/m3	76	26.8	11/19/09 10:57 DB1	79-01-6
Trichlorofluoromethane	ND	ug/m3	77	26.8	11/19/09 10:57 DB1	75-69-4
Vinyl acetate	ND	ug/m3	53	26.8	11/19/09 10:57 DB1	108-05-4
Vinyl chloride	ND	ug/m3	36	26.8	11/19/09 10:57 DB1	75-01-4
Xylene (Total)	413	ug/m3	180	26.8	11/19/09 10:57 DB1	1330-20-7

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

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ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10116526
Project Name: 0506-117-10 Parkwater

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

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

[SS] This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

[L2] Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

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December 22, 2009

John Haney
GeoEngineers,Inc.
523 East Second Ave
Spokane, WA 99202

RE: Project: 0506-117-11 Parkwater
Pace Project No.: 10118258

Dear John Haney:
Enclosed are the analytical results for sample(s) received by the laboratory on December 04, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carol Davy

Carol Davy

carol.davy@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
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CERTIFICATIONS

Project: 0506-117-11 Parkwater
Pace Project No.: 10118258

Minnesota Certification IDs
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 0506-117-11 Parkwater
Pace Project No.: 10118258

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10118258001	**VP-CI-120309**	Air	12/03/09 10:01	12/04/09 09:07

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SAMPLE ANALYTE COUNT

Project: 0506-117-11 Parkwater
Pace Project No.: 10118258

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10118258001	**VP-CI-120309**	TO-15	CJR	65	PASI-M

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PROJECT NARRATIVE

Project: 0506-117-11 Parkwater
Pace Project No.: 10118258

Method: **TO-15**
Description: TO15 MSV AIR
Client: GeoEngineers,Inc.
Date: December 22, 2009

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: AIR/9503

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 727324)
  - 1,1,2-Trichloroethane

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: AIR/9503

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- VP-CI-120309 (Lab ID: 10118258001)
  - Dichlorodifluoromethane

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 0506-117-11 Parkwater
Pace Project No.: 10118258

Sample: VP-CI-120309 **Lab ID: 10118258001** Collected: 12/03/09 10:01 Received: 12/04/09 09:07 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,1-Trichloroethane	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	76-13-1	
1,1-Dichloroethane	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	75-34-3	
1,1-Dichloroethene	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	75-35-4	
1,2,4-Trichlorobenzene	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	120-82-1	
1,2,4-Trimethylbenzene	ND	ppbv	13.7	6.8	26.8		12/17/09 05:42	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	13.7	6.8	26.8		12/17/09 05:42	95-50-1	
1,2-Dichloroethane	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	107-06-2	
1,2-Dichloropropane	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	108-67-8	
1,3-Butadiene	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	106-99-0	
1,3-Dichlorobenzene	ND	ppbv	13.7	6.8	26.8		12/17/09 05:42	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	13.7	6.8	26.8		12/17/09 05:42	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	2.7	1.3	26.8		12/17/09 05:42	123-91-1	
2,2,4-Trimethylpentane	ND	ppbv	13.4	6.7	26.8		12/17/09 05:42	540-84-1	
2-Butanone (MEK)	ND	ppbv	14.7	7.4	26.8		12/17/09 05:42	78-93-3	
2-Hexanone	ND	ppbv	14.7	7.4	26.8		12/17/09 05:42	591-78-6	
2-Propanol	ND	ppbv	13.4	6.7	26.8		12/17/09 05:42	67-63-0	
4-Ethyltoluene	ND	ppbv	14.2	7.1	26.8		12/17/09 05:42	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	14.7	7.4	26.8		12/17/09 05:42	108-10-1	
Acetone	ND	ppbv	14.7	7.4	26.8		12/17/09 05:42	67-64-1	
Benzene	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	71-43-2	
Bromodichloromethane	ND	ppbv	13.7	6.8	26.8		12/17/09 05:42	75-27-4	
Bromoform	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	75-25-2	
Bromomethane	ND	ppbv	13.7	6.8	26.8		12/17/09 05:42	74-83-9	
Carbon disulfide	ND	ppbv	13.4	6.7	26.8		12/17/09 05:42	75-15-0	
Carbon tetrachloride	ND	ppbv	13.7	6.8	26.8		12/17/09 05:42	56-23-5	
Chlorobenzene	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	108-90-7	
Chloroethane	ND	ppbv	13.7	6.8	26.8		12/17/09 05:42	75-00-3	
Chloroform	ND	ppbv	13.7	6.8	26.8		12/17/09 05:42	67-66-3	
Chloromethane	ND	ppbv	13.4	6.7	26.8		12/17/09 05:42	74-87-3	
Cyclohexane	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	110-82-7	
Dibromochloromethane	ND	ppbv	14.2	7.1	26.8		12/17/09 05:42	124-48-1	
Dichlorodifluoromethane	ND	ppbv	13.7	6.8	26.8		12/17/09 05:42	75-71-8	D3
Dichlorotetrafluoroethane	ND	ppbv	15.3	7.6	26.8		12/17/09 05:42	76-14-2	
Ethanol	ND	ppbv	13.4	6.7	26.8		12/17/09 05:42	64-17-5	
Ethyl acetate	ND	ppbv	13.7	6.8	26.8		12/17/09 05:42	141-78-6	
Ethylbenzene	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	13.4	6.7	26.8		12/17/09 05:42	87-68-3	
Isopropylbenzene (Cumene)	ND	ppbv	13.4	6.7	26.8		12/17/09 05:42	98-82-8	
Methyl-tert-butyl ether	ND	ppbv	26.8	13.4	26.8		12/17/09 05:42	1634-04-4	
Methylene Chloride	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	75-09-2	
Naphthalene	ND	ppbv	13.4	6.7	26.8		12/17/09 05:42	91-20-3	

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ANALYTICAL RESULTS

Project: 0506-117-11 Parkwater
Pace Project No.: 10118258

Sample: VP-CI-120309 **Lab ID: 10118258001** Collected: 12/03/09 10:01 Received: 12/04/09 09:07 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Propylene	ND	ppbv	53.6	26.8	26.8		12/17/09 05:42	115-07-1	
Styrene	ND	ppbv	14.7	7.4	26.8		12/17/09 05:42	100-42-5	
THC as Gas	**11300**	ppbv	536	268	26.8		12/17/09 05:42		
Tetrachloroethene	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	127-18-4	
Tetrahydrofuran	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	109-99-9	
Toluene	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	108-88-3	
Trichloroethene	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	79-01-6	
Trichlorofluoromethane	ND	ppbv	13.4	6.7	26.8		12/17/09 05:42	75-69-4	
Vinyl acetate	ND	ppbv	14.7	7.4	26.8		12/17/09 05:42	108-05-4	
Vinyl chloride	ND	ppbv	13.7	6.8	26.8		12/17/09 05:42	75-01-4	
Xylene (Total)	ND	ppbv	40.2	20.1	26.8		12/17/09 05:42	1330-20-7	
cis-1,2-Dichloroethene	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	13.7	6.8	26.8		12/17/09 05:42	10061-01-5	
m&p-Xylene	ND	ppbv	26.8	13.4	26.8		12/17/09 05:42	1330-20-7	
n-Heptane	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	142-82-5	
n-Hexane	ND	ppbv	14.2	7.1	26.8		12/17/09 05:42	110-54-3	
o-Xylene	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	95-47-6	
trans-1,2-Dichloroethene	ND	ppbv	26.8	13.4	26.8		12/17/09 05:42	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	13.9	7.0	26.8		12/17/09 05:42	10061-02-6	

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QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10118258

QC Batch: AIR/9503 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10118258001

METHOD BLANK: 727323 Matrix: Air
Associated Lab Samples: 10118258001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.52	12/16/09 20:18	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.52	12/16/09 20:18	
1,1,2-Trichloroethane	ppbv	ND	0.52	12/16/09 20:18	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.52	12/16/09 20:18	
1,1-Dichloroethane	ppbv	ND	0.52	12/16/09 20:18	
1,1-Dichloroethene	ppbv	ND	0.52	12/16/09 20:18	
1,2,4-Trichlorobenzene	ppbv	ND	0.52	12/16/09 20:18	
1,2,4-Trimethylbenzene	ppbv	ND	0.51	12/16/09 20:18	
1,2-Dibromoethane (EDB)	ppbv	ND	0.52	12/16/09 20:18	
1,2-Dichlorobenzene	ppbv	ND	0.51	12/16/09 20:18	
1,2-Dichloroethane	ppbv	ND	0.52	12/16/09 20:18	
1,2-Dichloropropane	ppbv	ND	0.52	12/16/09 20:18	
1,3,5-Trimethylbenzene	ppbv	ND	0.52	12/16/09 20:18	
1,3-Butadiene	ppbv	ND	0.52	12/16/09 20:18	
1,3-Dichlorobenzene	ppbv	ND	0.51	12/16/09 20:18	
1,4-Dichlorobenzene	ppbv	ND	0.51	12/16/09 20:18	
1,4-Dioxane (p-Dioxane)	ppbv	ND	0.10	12/16/09 20:18	
2,2,4-Trimethylpentane	ppbv	ND	0.50	12/16/09 20:18	
2-Butanone (MEK)	ppbv	ND	0.55	12/16/09 20:18	
2-Hexanone	ppbv	ND	0.55	12/16/09 20:18	
2-Propanol	ppbv	ND	0.50	12/16/09 20:18	
4-Ethyltoluene	ppbv	ND	0.53	12/16/09 20:18	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	0.55	12/16/09 20:18	
Acetone	ppbv	ND	0.55	12/16/09 20:18	
Benzene	ppbv	ND	0.52	12/16/09 20:18	
Bromodichloromethane	ppbv	ND	0.51	12/16/09 20:18	
Bromoform	ppbv	ND	0.52	12/16/09 20:18	
Bromomethane	ppbv	ND	0.51	12/16/09 20:18	
Carbon disulfide	ppbv	ND	0.50	12/16/09 20:18	
Carbon tetrachloride	ppbv	ND	0.51	12/16/09 20:18	
Chlorobenzene	ppbv	ND	0.52	12/16/09 20:18	
Chloroethane	ppbv	ND	0.51	12/16/09 20:18	
Chloroform	ppbv	ND	0.51	12/16/09 20:18	
Chloromethane	ppbv	ND	0.50	12/16/09 20:18	
cis-1,2-Dichloroethene	ppbv	ND	0.52	12/16/09 20:18	
cis-1,3-Dichloropropene	ppbv	ND	0.51	12/16/09 20:18	
Cyclohexane	ppbv	ND	0.52	12/16/09 20:18	
Dibromochloromethane	ppbv	ND	0.53	12/16/09 20:18	
Dichlorodifluoromethane	ppbv	ND	0.51	12/16/09 20:18	
Dichlorotetrafluoroethane	ppbv	ND	0.57	12/16/09 20:18	
Ethanol	ppbv	ND	0.50	12/16/09 20:18	
Ethyl acetate	ppbv	ND	0.51	12/16/09 20:18	
Ethylbenzene	ppbv	ND	0.52	12/16/09 20:18	

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10118258

METHOD BLANK: 727323 Matrix: Air

Associated Lab Samples: 10118258001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ppbv	ND	0.50	12/16/09 20:18	
Isopropylbenzene (Cumene)	ppbv	ND	0.50	12/16/09 20:18	
m&p-Xylene	ppbv	ND	1.0	12/16/09 20:18	
Methyl-tert-butyl ether	ppbv	ND	1.0	12/16/09 20:18	
Methylene Chloride	ppbv	ND	0.52	12/16/09 20:18	
n-Heptane	ppbv	ND	0.52	12/16/09 20:18	
n-Hexane	ppbv	ND	0.53	12/16/09 20:18	
Naphthalene	ppbv	ND	0.50	12/16/09 20:18	
o-Xylene	ppbv	ND	0.52	12/16/09 20:18	
Propylene	ppbv	ND	2.0	12/16/09 20:18	
Styrene	ppbv	ND	0.55	12/16/09 20:18	
Tetrachloroethene	ppbv	ND	0.52	12/16/09 20:18	
Tetrahydrofuran	ppbv	ND	0.52	12/16/09 20:18	
THC as Gas	ppbv	ND	20.0	12/16/09 20:18	
Toluene	ppbv	ND	0.52	12/16/09 20:18	
trans-1,2-Dichloroethene	ppbv	ND	1.0	12/16/09 20:18	
trans-1,3-Dichloropropene	ppbv	ND	0.52	12/16/09 20:18	
Trichloroethene	ppbv	ND	0.52	12/16/09 20:18	
Trichlorofluoromethane	ppbv	ND	0.50	12/16/09 20:18	
Vinyl acetate	ppbv	ND	0.55	12/16/09 20:18	
Vinyl chloride	ppbv	ND	0.51	12/16/09 20:18	
Xylene (Total)	ppbv	ND	1.5	12/16/09 20:18	

LABORATORY CONTROL SAMPLE: 727324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10	10.4	104	60-125	
1,1,2,2-Tetrachloroethane	ppbv	10	11.0	110	57-127	
1,1,2-Trichloroethane	ppbv	10	12.6	126	56-125	L3
1,1,2-Trichlorotrifluoroethane	ppbv	10	9.6	96	52-133	
1,1-Dichloroethane	ppbv	10	9.8	98	54-127	
1,1-Dichloroethene	ppbv	10	10.0	100	52-129	
1,2,4-Trichlorobenzene	ppbv	10	10.4	104	30-150	
1,2,4-Trimethylbenzene	ppbv	10	10.7	107	52-145	
1,2-Dibromoethane (EDB)	ppbv	10	10.8	108	59-133	
1,2-Dichlorobenzene	ppbv	10	10.8	108	67-135	
1,2-Dichloroethane	ppbv	10	10.5	105	54-125	
1,2-Dichloropropane	ppbv	10	11.0	110	64-125	
1,3,5-Trimethylbenzene	ppbv	10	11.1	111	56-135	
1,3-Butadiene	ppbv	10	9.8	98	55-125	
1,3-Dichlorobenzene	ppbv	10	10.7	107	61-142	
1,4-Dichlorobenzene	ppbv	10	11.7	117	55-142	
1,4-Dioxane (p-Dioxane)	ppbv	10	11.6	116	70-130	
2,2,4-Trimethylpentane	ppbv	10	11.2	112	70-130	
2-Butanone (MEK)	ppbv	10	10.2	102	47-141	

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QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10118258

LABORATORY CONTROL SAMPLE: 727324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ppbv	10	10.5	105	41-138	
2-Propanol	ppbv	10	10.2	102	63-125	
4-Ethyltoluene	ppbv	10	10.8	108	62-130	
4-Methyl-2-pentanone (MIBK)	ppbv	10	10.4	104	53-134	
Acetone	ppbv	10	10.9	109	44-149	
Benzene	ppbv	10	10.7	107	61-126	
Bromodichloromethane	ppbv	10	11.1	111	54-129	
Bromoform	ppbv	10	10.7	107	56-125	
Bromomethane	ppbv	10	9.4	94	56-128	
Carbon disulfide	ppbv	10	9.9	99	58-150	
Carbon tetrachloride	ppbv	10	10	100	55-125	
Chlorobenzene	ppbv	10	13.1	131	48-138	
Chloroethane	ppbv	10	9.7	97	56-128	
Chloroform	ppbv	10	10.1	101	55-125	
Chloromethane	ppbv	10	9.2	92	50-131	
cis-1,2-Dichloroethene	ppbv	10	10.1	101	64-125	
cis-1,3-Dichloropropene	ppbv	10	10.7	107	61-132	
Cyclohexane	ppbv	10	10.9	109	61-130	
Dibromochloromethane	ppbv	10	10.7	107	51-129	
Dichlorodifluoromethane	ppbv	10	9.2	92	56-132	
Dichlorotetrafluoroethane	ppbv	10	9.7	97	48-125	
Ethanol	ppbv	10	11.8	118	70-130	
Ethyl acetate	ppbv	10	10.5	105	66-149	
Ethylbenzene	ppbv	10	10.8	108	56-137	
Hexachloro-1,3-butadiene	ppbv	10	10.5	105	30-150	
Isopropylbenzene (Cumene)	ppbv	10.4	10.8	104	67-134	
m&p-Xylene	ppbv	20	22.0	110	62-135	
Methyl-tert-butyl ether	ppbv	10	10.0	100	59-125	
Methylene Chloride	ppbv	10	11.4	114	46-143	
n-Heptane	ppbv	10	11.3	113	64-130	
n-Hexane	ppbv	10	8.4	84	61-134	
Naphthalene	ppbv	10	10.5	105	30-150	
o-Xylene	ppbv	10	11.3	113	61-134	
Propylene	ppbv	10	11.4	114	62-146	
Styrene	ppbv	10	11.0	110	63-134	
Tetrachloroethene	ppbv	10	12.6	126	61-132	
Tetrahydrofuran	ppbv	10	12.0	120	62-137	
THC as Gas	ppbv	700	681	97	61-125	
Toluene	ppbv	10	10.6	106	57-132	
trans-1,2-Dichloroethene	ppbv	10	9.8	98	52-130	
trans-1,3-Dichloropropene	ppbv	10	10.4	104	61-129	
Trichloroethene	ppbv	10	9.1	91	72-147	
Trichlorofluoromethane	ppbv	10	9.7	97	58-141	
Vinyl acetate	ppbv	10	10.8	108	56-131	
Vinyl chloride	ppbv	10	9.6	96	56-136	
Xylene (Total)	ppbv	30	33.3	111	70-130	

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QUALIFIERS

Project: 0506-117-11 Parkwater
Pace Project No.: 10118258

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

December 15, 2009

Carol Davy
PACE ANALYTICAL
1700 Elm Street SE
Minneapolis, MN 55127-

Bureau Veritas Work Order No. 09120425

Reference: 10118258/0506-117-11 PARKWATER

Dear Carol Davy:

Bureau Veritas North America, Inc. received 1 sample on 12/8/2009 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

Karen Coonan

Karen Coonan
Client Services Representative

cc:

Bureau Veritas North America, Inc.
22345 Roethel Drive
Novi, MI 48375

Main: (248) 344.1770
Fax: (248) 344.2655
www.us.bureauveritas.com

CASE NARRATIVE

Date: *16-Dec-09*

Client: PACE ANALYTICAL

Project: 10118258/0506-117-11 PARKWATER

Work Order No 09120425

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

The following result has been converted from mg/m3 to ug/m3.
Sample -001A: THCs as Diesel = <1200 ug/m3

ANALYTICAL RESULTS

Date: *15-Dec-09*

Client: PACE ANALYTICAL

Project: 10118258/0506-117-11 PARKWATER

Work Order No: 09120425

Sample Identification: VP-CI-120309

Lab Number: 001A

Date Sampled: 12/3/2009

Sample Type Charcoal Tube

Date Received: 12/8/2009

Analyst CMI

Air Volume (L): 8.02

Analyte	Analytical Results (µg)	Analytical Results (mg/m^3)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
THCs as Diesel	<10	<1.2	--	10	NIOSH 1550	12/11/2009

General Notes:
<: Less than the indicated reporting limit (RL).
--: Information not available or not applicable.
Back sections (if applicable) were checked and showed no significant breakthrough unless otherwise noted.

Chain of Custody

09120425

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Workorder: 10118258 Workorder Name: 0506-117-11 Parkwater Results Requested 12/17/2009

Report / Invoice To	Subcontract To
Carol Davy Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700 Email: carol.davy@pacelabs.com	Bureau Veritas P.O. 10118258

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: General	Requested Analysis: MNOSH 1550	Requested Analysis: Diesel	LAB USE ONLY
1	VP-CI-120309	12/3/2009 10:01	10118258001	Air	1	X		
2								
3								
4								
5								

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	Carol Davy / Pace MW	12/4/09 1700	MA Thompson	12/8/09	11 a m
2					
3					
4					
5					

Sample volume 0.020 L.

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10118258

00976 | Page: 1 of 1

Section A Required Client Information:

Company: GeoEngineers
Address: 523 E 2nd Ave
Spokane WA 99202
Email To: bwilliams@geoengineers.com
Phone: 509-363-3125 Fax: 509 363 3121
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Bruce Williams
Copy To: Scott Lathen
Purchase Order No.:
Project Name: Parkwater
Project Number: 0506-117-11

Section C Invoice Information:

Attention: Bruce Sheppard
Company Name: BNSF
Address:
Pace Quote Reference: WO# TT0101-J02
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☒ Emmisions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WA

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level: II. X III. IV. Other

Section D Required Client Information

AIR SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	SAMPLE TYPE G=Grab C=Composite	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE - END/GRAB DATE	COLLECTED COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field)	Canister Pressure (Final Field)	Summa Can Number	Method: TO-3 BTEX +TPH(gpmv)	TO-3M PPMV MEE	3C- Fixed Gas (%)	TO-14(a) VOCs	TO-15 (SIM VOCs)	TO-15 Low Level	TO-13 (PAH)	TO-4 (PCBs)	PM10	Pace Lab ID
1	VP-CJ-120309	6LC	C	12/3/09	932	12/3/09	1001	-26	+2	0431	X			X						10118258001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments:

Sorbent tube included for NIOSH 1550 analysis. Sample Volume = 8.020 L

ORIGINAL

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Scott Lathen / GEI	12/3/09	1235		12/4/09	09:07

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
Amb	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Scott Lathen

SIGNATURE of SAMPLER: J. Lathen

DATE Signed (MM/DD/YY): 12/03/09

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

Pace Analytical

AIR Sample Condition Upon Receipt

Client Name: GeoEngineers Project # 10118258

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

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

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other_____

Optional
Proj. Due Date:
Proj. Name:

Tracking #: 1Z F64 A00 0198 5582 5

Date and Initials of person examining contents: 12-4-09 K

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Media:	AIR (CAN, CHARCOAL Tube)	11.
Sample Labels match COC:	☐Yes ☐No ☐N/A	12.

Samples Received: 1 CAN, 1 FC, 1 CHARCOAL Tube

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
VP-CI-12009	0431		248				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CMD **Date:** 12-7-09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10118258
Project Name: 0506-117-11 Parkwater

Lab Sample No: 10118258001
Client Sample ID: VP-CI-120309

ProjSampleNum: 10118258001
Matrix: Air

Date Collected: 12/03/09 10:01
Date Received: 12/04/09 9:07

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
1,1,1-Trichloroethane	ND	ug/L	0.077	26.8	12/17/09 5:42 CJR	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.097	26.8	12/17/09 5:42 CJR	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	0.077	26.8	12/17/09 5:42 CJR	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	0.11	26.8	12/17/09 5:42 CJR	76-13-1	
1,1-Dichloroethane	ND	ug/L	0.057	26.8	12/17/09 5:42 CJR	75-34-3	
1,1-Dichloroethene	ND	ug/L	0.056	26.8	12/17/09 5:42 CJR	75-35-4	
1,2,4-Trichlorobenzene	ND	ug/L	0.1	26.8	12/17/09 5:42 CJR	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/L	0.068	26.8	12/17/09 5:42 CJR	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/L	0.11	26.8	12/17/09 5:42 CJR	106-93-4	
1,2-Dichlorobenzene	ND	ug/L	0.084	26.8	12/17/09 5:42 CJR	95-50-1	
1,2-Dichloroethane	ND	ug/L	0.057	26.8	12/17/09 5:42 CJR	107-06-2	
1,2-Dichloropropane	ND	ug/L	0.065	26.8	12/17/09 5:42 CJR	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/L	0.069	26.8	12/17/09 5:42 CJR	108-67-8	
1,3-Butadiene	ND	ug/L	0.031	26.8	12/17/09 5:42 CJR	106-99-0	
1,3-Dichlorobenzene	ND	ug/L	0.084	26.8	12/17/09 5:42 CJR	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.084	26.8	12/17/09 5:42 CJR	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ug/L	0.0099	26.8	12/17/09 5:42 CJR	123-91-1	
2,2,4-Trimethylpentane	ND	ug/L	0.064	26.8	12/17/09 5:42 CJR	540-84-1	
2-Butanone (MEK)	ND	ug/L	0.044	26.8	12/17/09 5:42 CJR	78-93-3	
2-Hexanone	ND	ug/L	0.061	26.8	12/17/09 5:42 CJR	591-78-6	
2-Propanol	ND	ug/L	0.033	26.8	12/17/09 5:42 CJR	67-63-0	
4-Ethyltoluene	ND	ug/L	0.071	26.8	12/17/09 5:42 CJR	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	0.061	26.8	12/17/09 5:42 CJR	108-10-1	
Acetone	ND	ug/L	0.035	26.8	12/17/09 5:42 CJR	67-64-1	
Benzene	ND	ug/L	0.045	26.8	12/17/09 5:42 CJR	71-43-2	
Bromodichloromethane	ND	ug/L	0.093	26.8	12/17/09 5:42 CJR	75-27-4	
Bromoform	ND	ug/L	0.15	26.8	12/17/09 5:42 CJR	75-25-2	
Bromomethane	ND	ug/L	0.054	26.8	12/17/09 5:42 CJR	74-83-9	
Carbon disulfide	ND	ug/L	0.042	26.8	12/17/09 5:42 CJR	75-15-0	
Carbon tetrachloride	ND	ug/L	0.088	26.8	12/17/09 5:42 CJR	56-23-5	
Chlorobenzene	ND	ug/L	0.065	26.8	12/17/09 5:42 CJR	108-90-7	
Chloroethane	ND	ug/L	0.037	26.8	12/17/09 5:42 CJR	75-00-3	
Chloroform	ND	ug/L	0.068	26.8	12/17/09 5:42 CJR	67-66-3	
Chloromethane	ND	ug/L	0.028	26.8	12/17/09 5:42 CJR	74-87-3	
cis-1,2-Dichloroethene	ND	ug/L	0.056	26.8	12/17/09 5:42 CJR	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	0.063	26.8	12/17/09 5:42 CJR	10061-01-5	
Cyclohexane	ND	ug/L	0.049	26.8	12/17/09 5:42 CJR	110-82-7	
Dibromochloromethane	ND	ug/L	0.12	26.8	12/17/09 5:42 CJR	124-48-1	

SUPPLEMENTAL REPORT

Units Conversion Request

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Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10118258
Project Name: 0506-117-11 Parkwater

Dichlorodifluoromethane	ND	ug/L	0.069	26.8	12/17/09 5:42 CJR	75-71-8	D3
Dichlorotetrafluoroethane	ND	ug/L	0.11	26.8	12/17/09 5:42 CJR	76-14-2	
Ethanol	ND	ug/L	0.026	26.8	12/17/09 5:42 CJR	64-17-5	
Ethyl acetate	ND	ug/L	0.05	26.8	12/17/09 5:42 CJR	141-78-6	
Ethylbenzene	ND	ug/L	0.061	26.8	12/17/09 5:42 CJR	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	0.15	26.8	12/17/09 5:42 CJR	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.067	26.8	12/17/09 5:42 CJR	98-82-8	
m&p-Xylene	ND	ug/L	0.12	26.8	12/17/09 5:42 CJR	1330-20-7	
Methylene Chloride	ND	ug/L	0.049	26.8	12/17/09 5:42 CJR	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.098	26.8	12/17/09 5:42 CJR	1634-04-4	
Naphthalene	ND	ug/L	0.071	26.8	12/17/09 5:42 CJR	91-20-3	
n-Heptane	ND	ug/L	0.058	26.8	12/17/09 5:42 CJR	142-82-5	
n-Hexane	ND	ug/L	0.051	26.8	12/17/09 5:42 CJR	110-54-3	
o-Xylene	ND	ug/L	0.061	26.8	12/17/09 5:42 CJR	95-47-6	
Propylene	ND	ug/L	0.094	26.8	12/17/09 5:42 CJR	115-07-1	
Styrene	ND	ug/L	0.064	26.8	12/17/09 5:42 CJR	100-42-5	
Tetrachloroethene	ND	ug/L	0.096	26.8	12/17/09 5:42 CJR	127-18-4	
Tetrahydrofuran	ND	ug/L	0.042	26.8	12/17/09 5:42 CJR	109-99-9	
THC as Gas	49	ug/L	2.3	26.8	12/17/09 5:42 CJR		
Toluene	ND	ug/L	0.053	26.8	12/17/09 5:42 CJR	108-88-3	
trans-1,2-Dichloroethene	ND	ug/L	0.11	26.8	12/17/09 5:42 CJR	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	0.064	26.8	12/17/09 5:42 CJR	10061-02-6	
Trichloroethene	ND	ug/L	0.076	26.8	12/17/09 5:42 CJR	79-01-6	
Trichlorofluoromethane	ND	ug/L	0.077	26.8	12/17/09 5:42 CJR	75-69-4	
Vinyl acetate	ND	ug/L	0.053	26.8	12/17/09 5:42 CJR	108-05-4	
Vinyl chloride	ND	ug/L	0.036	26.8	12/17/09 5:42 CJR	75-01-4	
Xylene (Total)	ND	ug/L	0.18	26.8	12/17/09 5:42 CJR	1330-20-7	

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

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ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10118258
Project Name: 0506-117-11 Parkwater

PARAMETER FOOTNOTES

ND Not detected at or above adjusted reporting limit

NC Not Calculable

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

[D3] Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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January 15, 2010

Bruce Williams
GeoEngineers,Inc.
523 East Second Ave
Spokane, WA 99202

RE: Project: 0506-117-11 Parkwater
Pace Project No.: 10119878

Dear Bruce Williams:
Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carol Davy

Carol Davy

carol.davy@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 0506-117-11 Parkwater
Pace Project No.: 10119878

Minnesota Certification IDs
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 0506-117-11 Parkwater
Pace Project No.: 10119878

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10119878001	**VP-CI-123109**	Air	12/31/09 11:18	01/05/10 09:11

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SAMPLE ANALYTE COUNT

Project: 0506-117-11 Parkwater
Pace Project No.: 10119878

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10119878001	**VP-CI-123109**	TO-15	CJR	65	PASI-M

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PROJECT NARRATIVE

Project: 0506-117-11 Parkwater
Pace Project No.: 10119878

Method: **TO-15**
Description: TO15 MSV AIR
Client: GeoEngineers,Inc.
Date: January 15, 2010

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: AIR/9627

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 736371)
  - Bromoform

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 0506-117-11 Parkwater
Pace Project No.: 10119878

Sample: VP-CI-123109 **Lab ID: 10119878001** Collected: 12/31/09 11:18 Received: 01/05/10 09:11 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,1-Trichloroethane	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	76-13-1	
1,1-Dichloroethane	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	75-35-4	
1,2,4-Trichlorobenzene	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	120-82-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.68	0.34	1.34		01/13/10 16:00	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.68	0.34	1.34		01/13/10 16:00	95-50-1	
1,2-Dichloroethane	**1.2**	ppbv	0.70	0.35	1.34		01/13/10 16:00	107-06-2	
1,2-Dichloropropane	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	108-67-8	
1,3-Butadiene	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	106-99-0	
1,3-Dichlorobenzene	ND	ppbv	0.68	0.34	1.34		01/13/10 16:00	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.68	0.34	1.34		01/13/10 16:00	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	0.13	0.067	1.34		01/13/10 16:00	123-91-1	
2,2,4-Trimethylpentane	**1.6**	ppbv	0.67	0.34	1.34		01/13/10 16:00	540-84-1	
2-Butanone (MEK)	**5.1**	ppbv	0.74	0.37	1.34		01/13/10 16:00	78-93-3	
2-Hexanone	ND	ppbv	0.74	0.37	1.34		01/13/10 16:00	591-78-6	
2-Propanol	ND	ppbv	0.67	0.34	1.34		01/13/10 16:00	67-63-0	
4-Ethyltoluene	ND	ppbv	0.71	0.36	1.34		01/13/10 16:00	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	0.74	0.37	1.34		01/13/10 16:00	108-10-1	
Acetone	**7.8**	ppbv	0.74	0.37	1.34		01/13/10 16:00	67-64-1	
Benzene	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	71-43-2	
Bromodichloromethane	ND	ppbv	0.68	0.34	1.34		01/13/10 16:00	75-27-4	
Bromoform	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	75-25-2	
Bromomethane	ND	ppbv	0.68	0.34	1.34		01/13/10 16:00	74-83-9	
Carbon disulfide	**0.68**	ppbv	0.67	0.34	1.34		01/13/10 16:00	75-15-0	
Carbon tetrachloride	ND	ppbv	0.68	0.34	1.34		01/13/10 16:00	56-23-5	
Chlorobenzene	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	108-90-7	
Chloroethane	ND	ppbv	0.68	0.34	1.34		01/13/10 16:00	75-00-3	
Chloroform	ND	ppbv	0.68	0.34	1.34		01/13/10 16:00	67-66-3	
Chloromethane	ND	ppbv	0.67	0.34	1.34		01/13/10 16:00	74-87-3	
Cyclohexane	**0.76**	ppbv	0.70	0.35	1.34		01/13/10 16:00	110-82-7	
Dibromochloromethane	ND	ppbv	0.71	0.36	1.34		01/13/10 16:00	124-48-1	
Dichlorodifluoromethane	ND	ppbv	0.68	0.34	1.34		01/13/10 16:00	75-71-8	
Dichlorotetrafluoroethane	ND	ppbv	0.76	0.38	1.34		01/13/10 16:00	76-14-2	
Ethanol	**5.4**	ppbv	0.67	0.34	1.34		01/13/10 16:00	64-17-5	
Ethyl acetate	ND	ppbv	0.68	0.34	1.34		01/13/10 16:00	141-78-6	
Ethylbenzene	**0.77**	ppbv	0.70	0.35	1.34		01/13/10 16:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.67	0.34	1.34		01/13/10 16:00	87-68-3	
Isopropylbenzene (Cumene)	ND	ppbv	0.67	0.34	1.34		01/13/10 16:00	98-82-8	
Methyl-tert-butyl ether	ND	ppbv	1.3	0.67	1.34		01/13/10 16:00	1634-04-4	
Methylene Chloride	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	75-09-2	
Naphthalene	ND	ppbv	0.67	0.34	1.34		01/13/10 16:00	91-20-3	

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ANALYTICAL RESULTS

Project: 0506-117-11 Parkwater
Pace Project No.: 10119878

Sample: VP-CI-123109 **Lab ID: 10119878001** Collected: 12/31/09 11:18 Received: 01/05/10 09:11 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Propylene	**5.6**	ppbv	2.7	1.3	1.34		01/13/10 16:00	115-07-1	
Styrene	ND	ppbv	0.74	0.37	1.34		01/13/10 16:00	100-42-5	
THC as Gas	**6490**	ppbv	26.8	13.4	1.34		01/13/10 16:00		
Tetrachloroethene	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	127-18-4	
Tetrahydrofuran	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	109-99-9	
Toluene	**0.98**	ppbv	0.70	0.35	1.34		01/13/10 16:00	108-88-3	
Trichloroethene	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	79-01-6	
Trichlorofluoromethane	ND	ppbv	0.67	0.34	1.34		01/13/10 16:00	75-69-4	
Vinyl acetate	ND	ppbv	0.74	0.37	1.34		01/13/10 16:00	108-05-4	
Vinyl chloride	ND	ppbv	0.68	0.34	1.34		01/13/10 16:00	75-01-4	
Xylene (Total)	**2.9**	ppbv	2.0	1.0	1.34		01/13/10 16:00	1330-20-7	
cis-1,2-Dichloroethene	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	0.68	0.34	1.34		01/13/10 16:00	10061-01-5	
m&p-Xylene	**2.9**	ppbv	1.3	0.67	1.34		01/13/10 16:00	1330-20-7	
n-Heptane	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	142-82-5	
n-Hexane	ND	ppbv	0.71	0.36	1.34		01/13/10 16:00	110-54-3	
o-Xylene	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	95-47-6	
trans-1,2-Dichloroethene	ND	ppbv	1.3	0.67	1.34		01/13/10 16:00	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	0.70	0.35	1.34		01/13/10 16:00	10061-02-6	

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QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10119878

QC Batch: AIR/9627 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10119878001

METHOD BLANK: 736370 Matrix: Air
Associated Lab Samples: 10119878001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.52	01/13/10 10:55	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.52	01/13/10 10:55	
1,1,2-Trichloroethane	ppbv	ND	0.52	01/13/10 10:55	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.52	01/13/10 10:55	
1,1-Dichloroethane	ppbv	ND	0.52	01/13/10 10:55	
1,1-Dichloroethene	ppbv	ND	0.52	01/13/10 10:55	
1,2,4-Trichlorobenzene	ppbv	ND	0.52	01/13/10 10:55	
1,2,4-Trimethylbenzene	ppbv	ND	0.51	01/13/10 10:55	
1,2-Dibromoethane (EDB)	ppbv	ND	0.52	01/13/10 10:55	
1,2-Dichlorobenzene	ppbv	ND	0.51	01/13/10 10:55	
1,2-Dichloroethane	ppbv	ND	0.52	01/13/10 10:55	
1,2-Dichloropropane	ppbv	ND	0.52	01/13/10 10:55	
1,3,5-Trimethylbenzene	ppbv	ND	0.52	01/13/10 10:55	
1,3-Butadiene	ppbv	ND	0.52	01/13/10 10:55	
1,3-Dichlorobenzene	ppbv	ND	0.51	01/13/10 10:55	
1,4-Dichlorobenzene	ppbv	ND	0.51	01/13/10 10:55	
1,4-Dioxane (p-Dioxane)	ppbv	ND	0.10	01/13/10 10:55	
2,2,4-Trimethylpentane	ppbv	ND	0.50	01/13/10 10:55	
2-Butanone (MEK)	ppbv	ND	0.55	01/13/10 10:55	
2-Hexanone	ppbv	ND	0.55	01/13/10 10:55	
2-Propanol	ppbv	ND	0.50	01/13/10 10:55	
4-Ethyltoluene	ppbv	ND	0.53	01/13/10 10:55	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	0.55	01/13/10 10:55	
Acetone	ppbv	ND	0.55	01/13/10 10:55	
Benzene	ppbv	ND	0.52	01/13/10 10:55	
Bromodichloromethane	ppbv	ND	0.51	01/13/10 10:55	
Bromoform	ppbv	ND	0.52	01/13/10 10:55	
Bromomethane	ppbv	ND	0.51	01/13/10 10:55	
Carbon disulfide	ppbv	ND	0.50	01/13/10 10:55	
Carbon tetrachloride	ppbv	ND	0.51	01/13/10 10:55	
Chlorobenzene	ppbv	ND	0.52	01/13/10 10:55	
Chloroethane	ppbv	ND	0.51	01/13/10 10:55	
Chloroform	ppbv	ND	0.51	01/13/10 10:55	
Chloromethane	ppbv	ND	0.50	01/13/10 10:55	
cis-1,2-Dichloroethene	ppbv	ND	0.52	01/13/10 10:55	
cis-1,3-Dichloropropene	ppbv	ND	0.51	01/13/10 10:55	
Cyclohexane	ppbv	ND	0.52	01/13/10 10:55	
Dibromochloromethane	ppbv	ND	0.53	01/13/10 10:55	
Dichlorodifluoromethane	ppbv	ND	0.51	01/13/10 10:55	
Dichlorotetrafluoroethane	ppbv	ND	0.57	01/13/10 10:55	
Ethanol	ppbv	ND	0.50	01/13/10 10:55	
Ethyl acetate	ppbv	ND	0.51	01/13/10 10:55	
Ethylbenzene	ppbv	ND	0.52	01/13/10 10:55	

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QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10119878

METHOD BLANK: 736370 Matrix: Air

Associated Lab Samples: 10119878001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ppbv	ND	0.50	01/13/10 10:55	
Isopropylbenzene (Cumene)	ppbv	ND	0.50	01/13/10 10:55	
m&p-Xylene	ppbv	ND	1.0	01/13/10 10:55	
Methyl-tert-butyl ether	ppbv	ND	1.0	01/13/10 10:55	
Methylene Chloride	ppbv	ND	0.52	01/13/10 10:55	
n-Heptane	ppbv	ND	0.52	01/13/10 10:55	
n-Hexane	ppbv	ND	0.53	01/13/10 10:55	
Naphthalene	ppbv	ND	0.50	01/13/10 10:55	
o-Xylene	ppbv	ND	0.52	01/13/10 10:55	
Propylene	ppbv	ND	2.0	01/13/10 10:55	
Styrene	ppbv	ND	0.55	01/13/10 10:55	
Tetrachloroethene	ppbv	ND	0.52	01/13/10 10:55	
Tetrahydrofuran	ppbv	ND	0.52	01/13/10 10:55	
THC as Gas	ppbv	ND	20.0	01/13/10 10:55	
Toluene	ppbv	ND	0.52	01/13/10 10:55	
trans-1,2-Dichloroethene	ppbv	ND	1.0	01/13/10 10:55	
trans-1,3-Dichloropropene	ppbv	ND	0.52	01/13/10 10:55	
Trichloroethene	ppbv	ND	0.52	01/13/10 10:55	
Trichlorofluoromethane	ppbv	ND	0.50	01/13/10 10:55	
Vinyl acetate	ppbv	ND	0.55	01/13/10 10:55	
Vinyl chloride	ppbv	ND	0.51	01/13/10 10:55	
Xylene (Total)	ppbv	ND	1.5	01/13/10 10:55	

LABORATORY CONTROL SAMPLE: 736371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10	10.8	108	60-125	
1,1,2,2-Tetrachloroethane	ppbv	10	12.3	123	57-127	
1,1,2-Trichloroethane	ppbv	10	11.5	115	56-125	
1,1,2-Trichlorotrifluoroethane	ppbv	10	10.2	102	52-133	
1,1-Dichloroethane	ppbv	10	10.3	103	54-127	
1,1-Dichloroethene	ppbv	10	10.2	102	52-129	
1,2,4-Trichlorobenzene	ppbv	10	11.5	115	30-150	
1,2,4-Trimethylbenzene	ppbv	10	11.5	115	52-145	
1,2-Dibromoethane (EDB)	ppbv	10	12.4	124	59-133	
1,2-Dichlorobenzene	ppbv	10	11.4	114	67-135	
1,2-Dichloroethane	ppbv	10	10.3	103	54-125	
1,2-Dichloropropane	ppbv	10	10.9	109	64-125	
1,3,5-Trimethylbenzene	ppbv	10	10.8	108	56-135	
1,3-Butadiene	ppbv	10	10.4	104	55-125	
1,3-Dichlorobenzene	ppbv	10	11.4	114	61-142	
1,4-Dichlorobenzene	ppbv	10	11.2	112	55-142	
1,4-Dioxane (p-Dioxane)	ppbv	10	12.3	123	70-130	
2,2,4-Trimethylpentane	ppbv	10	10.3	103	70-130	
2-Butanone (MEK)	ppbv	10	9.3	93	47-141	

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(612)607-1700

QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10119878

LABORATORY CONTROL SAMPLE: 736371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ppbv	10	10.4	104	41-138	
2-Propanol	ppbv	10	11.2	112	63-125	
4-Ethyltoluene	ppbv	10	10.8	108	62-130	
4-Methyl-2-pentanone (MIBK)	ppbv	10	10.3	103	53-134	
Acetone	ppbv	10	11.2	112	44-149	
Benzene	ppbv	10	10.7	107	61-126	
Bromodichloromethane	ppbv	10	11.1	111	54-129	
Bromoform	ppbv	10	12.9	129	56-125	L3
Bromomethane	ppbv	10	10.4	104	56-128	
Carbon disulfide	ppbv	10	10.9	109	58-150	
Carbon tetrachloride	ppbv	10	10.6	106	55-125	
Chlorobenzene	ppbv	10	12.3	123	48-138	
Chloroethane	ppbv	10	10.4	104	56-128	
Chloroform	ppbv	10	10.5	105	55-125	
Chloromethane	ppbv	10	9.7	97	50-131	
cis-1,2-Dichloroethene	ppbv	10	10.8	108	64-125	
cis-1,3-Dichloropropene	ppbv	10	11.9	119	61-132	
Cyclohexane	ppbv	10	10	100	61-130	
Dibromochloromethane	ppbv	10	12.5	125	51-129	
Dichlorodifluoromethane	ppbv	10	10.3	103	56-132	
Dichlorotetrafluoroethane	ppbv	10	10.5	105	48-125	
Ethanol	ppbv	10	11.1	111	70-130	
Ethyl acetate	ppbv	10	10.3	103	66-149	
Ethylbenzene	ppbv	10	12.6	126	56-137	
Hexachloro-1,3-butadiene	ppbv	10	11.5	115	30-150	
Isopropylbenzene (Cumene)	ppbv	10.4	10.9	105	67-134	
m&p-Xylene	ppbv	20	26.0	130	62-135	
Methyl-tert-butyl ether	ppbv	10	11.1	111	59-125	
Methylene Chloride	ppbv	10	10.6	106	46-143	
n-Heptane	ppbv	10	9.9	99	64-130	
n-Hexane	ppbv	10	8.0	80	61-134	
Naphthalene	ppbv	10	11.2	112	30-150	
o-Xylene	ppbv	10	12.9	129	61-134	
Propylene	ppbv	10	10.9	109	62-146	
Styrene	ppbv	10	13.0	130	63-134	
Tetrachloroethene	ppbv	10	11.9	119	61-132	
Tetrahydrofuran	ppbv	10	10.2	102	62-137	
THC as Gas	ppbv	700	737	105	61-125	
Toluene	ppbv	10	11.4	114	57-132	
trans-1,2-Dichloroethene	ppbv	10	10.6	106	52-130	
trans-1,3-Dichloropropene	ppbv	10	12.2	122	61-129	
Trichloroethene	ppbv	10	10.3	103	72-147	
Trichlorofluoromethane	ppbv	10	10.1	101	58-141	
Vinyl acetate	ppbv	10	10.4	104	56-131	
Vinyl chloride	ppbv	10	10.7	107	56-136	
Xylene (Total)	ppbv	30	38.9	130	70-130	

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QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10119878

SAMPLE DUPLICATE: 736591

Parameter	Units	10119987005 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.78		30	
1,1,2,2-Tetrachloroethane	ppbv	ND	ND		30	
1,1,2-Trichloroethane	ppbv	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	ND		30	
1,1-Dichloroethane	ppbv	ND	ND		30	
1,1-Dichloroethene	ppbv	ND	ND		30	
1,2,4-Trichlorobenzene	ppbv	ND	ND		30	
1,2,4-Trimethylbenzene	ppbv	ND	ND		30	
1,2-Dibromoethane (EDB)	ppbv	ND	ND		30	
1,2-Dichlorobenzene	ppbv	ND	ND		30	
1,2-Dichloroethane	ppbv	ND	ND		30	
1,2-Dichloropropane	ppbv	ND	ND		30	
1,3,5-Trimethylbenzene	ppbv	ND	ND		30	
1,3-Butadiene	ppbv	ND	ND		30	
1,3-Dichlorobenzene	ppbv	ND	ND		30	
1,4-Dichlorobenzene	ppbv	ND	ND		30	
1,4-Dioxane (p-Dioxane)	ppbv	ND	ND		30	
2,2,4-Trimethylpentane	ppbv	ND	ND		30	
2-Butanone (MEK)	ppbv	1.6	1.6	2	30	
2-Hexanone	ppbv	ND	ND		30	
2-Propanol	ppbv	1.0	1.1	6	30	
4-Ethyltoluene	ppbv	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	ND		30	
Acetone	ppbv	2.7	2.9	6	30	
Benzene	ppbv	ND	ND		30	
Bromodichloromethane	ppbv	ND	ND		30	
Bromoform	ppbv	ND	ND		30	
Bromomethane	ppbv	ND	ND		30	
Carbon disulfide	ppbv	ND	ND		30	
Carbon tetrachloride	ppbv	ND	ND		30	
Chlorobenzene	ppbv	ND	ND		30	
Chloroethane	ppbv	ND	ND		30	
Chloroform	ppbv	ND	ND		30	
Chloromethane	ppbv	ND	ND		30	
cis-1,2-Dichloroethene	ppbv	ND	ND		30	
cis-1,3-Dichloropropene	ppbv	ND	ND		30	
Cyclohexane	ppbv	ND	ND		30	
Dibromochloromethane	ppbv	ND	ND		30	
Dichlorodifluoromethane	ppbv	ND	ND		30	
Dichlorotetrafluoroethane	ppbv	ND	ND		30	
Ethanol	ppbv	ND	ND		30	
Ethyl acetate	ppbv	ND	ND		30	
Ethylbenzene	ppbv	ND	ND		30	
Hexachloro-1,3-butadiene	ppbv	ND	ND		30	
Isopropylbenzene (Cumene)	ppbv	ND	ND		30	
m&p-Xylene	ppbv	ND	ND		30	
Methyl-tert-butyl ether	ppbv	ND	ND		30	
Methylene Chloride	ppbv	ND	ND		30	

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QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10119878

SAMPLE DUPLICATE: 736591

Parameter	Units	10119987005 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Heptane	ppbv	ND	ND		30	
n-Hexane	ppbv	0.83	0.89	7	30	
Naphthalene	ppbv	ND	ND		30	
o-Xylene	ppbv	ND	ND		30	
Propylene	ppbv	ND	ND		30	
Styrene	ppbv	ND	ND		30	
Tetrachloroethene	ppbv	ND	ND		30	
Tetrahydrofuran	ppbv	ND	ND		30	
THC as Gas	ppbv	ND	ND		30	
Toluene	ppbv	ND	ND		30	
trans-1,2-Dichloroethene	ppbv	ND	ND		30	
trans-1,3-Dichloropropene	ppbv	ND	ND		30	
Trichloroethene	ppbv	10.8	11.6	7	30	
Trichlorofluoromethane	ppbv	ND	ND		30	
Vinyl acetate	ppbv	ND	ND		30	
Vinyl chloride	ppbv	ND	ND		30	
Xylene (Total)	ppbv	ND	ND		30	

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QUALIFIERS

Project: 0506-117-11 Parkwater
Pace Project No.: 10119878

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

January 13, 2010

Carol Davy
PACE ANALYTICAL
1700 Elm Street SE
Minneapolis, MN 55127-

Bureau Veritas Work Order No. 10010139

Reference: 10119878/0506-117-11 PARKWATER

Dear Carol Davy:

Bureau Veritas North America, Inc. received 1 sample on 1/7/2010 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

Karen Coonan
Client Services Representative

cc:

Bureau Veritas North America, Inc.
22345 Rocket Drive
Novi, MI 48375

Main: (248) 344.1770
Fax: (248) 344.2655
www.us.bureauveritas.com

CASE NARRATIVE

Date: *13-Jan-10*

Client: PACE ANALYTICAL

Project: 10119878/0506-117-11 PARKWATER

Work Order No 10010139

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

Please note that a field blank was not identified by the client for this sample set.

The following results have been converted from mg/m3 to ug/m3.
Sample -001A: THCs as Diesel = <1,300 ug/m3

ANALYTICAL RESULTS

Date: *13-Jan-10*

Client: PACE ANALYTICAL

Project: 10119878/0506-117-11 PARKWATER **Work Order No:** 10010139

Sample Identification: VP-CI-123109

Lab Number: 001A **Date Sampled:** 12/31/2009

Sample Type Charcoal Tube **Date Received:** 1/7/2010

Analyst CCR **Air Volume (L):** 8

Analyte	Analytical Results (µg)	Analytical Results (mg/m^3)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
THCs as Diesel	<10	<1.3	--	10	NIOSH 1550	01/08/2010

16 of 19

General Notes:
<: Less than the indicated reporting limit (RL).
--: Information not available or not applicable.
Back sections (if applicable) were checked and showed no significant breakthrough unless otherwise noted.

Chain of Custody

1001 0139

Pace Analytical
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Workorder: 10119878 Workorder Name: 0506-117-11 Parkwater Results Requested 1/18/2010

Report / Invoice To	Subcontract To	Requested Analysis
Carol Davy Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700 Email: carol.davy@pacelabs.com	Bureau Veritas P.O. 10119878	XYLENES 1532 DIESEL

						Preserved Containers						
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	General							LAB USE ONLY
1	VP-CI-123109	12/31/2009 11:18	10119878001	Air	1							
2												
3												
4												
5												

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	Carol Davy Pace	1/5/10 1657	O Massey	1-7-10	10:25AM
2					
3					
4					
5					

volume 2.000L

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10119878

01043 | Page: 1 of 1

18 of 19

Section A Required Client Information:

Company: GeoEngineers
Address: 523 E 2nd Ave
Spokane WA 99202
Email To: bwilliams@geoengineers.com
Phone: 509-363-3125 Fax: 509-363-3126
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Bruce Williams
Copy To: Scott Lathen
slathen@geoengineers.com
Purchase Order No.:
Project Name: Parkwater
Project Number: 0506-117-11

Section C Invoice Information:

Attention: Bruce Sheppard
Company Name: BNSF
Address:
Pace Quote Reference: TT0101-JO2
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☒ Emmisions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WA

Reporting Units: ug/m³ ☒ mg/m³ ☐ PPBV ☐ PPMV ☐ Other

Report Level: II. ☒ III. ☐ IV. ☐ Other

Section D Required Client Information

AIR SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	SAMPLE TYPE G=Grab C=Composite	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE - END/GRAB DATE	COLLECTED COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field)	Canister Pressure (Final Field)	Summa Can Number	Method: TO-3 BTEX+TPH(ppmv)	TO-3M PPMV MEE	3C- Fixed Gas (%)	TO-14A/25 (VOCs)	TO-15 (SIM VOCs)	TO-15 Low Level	TO-13 (PAH)	TO-4 (PCBs)	PM10	Pace Lab ID
1	VP-CI-123109	UC	C	12/3/09	1048	12/31/09	1114	-30	-4	1204	X	X			X					10119878001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments:

Sorbent tube included for NIOSH 1550 Analysis

Volume = 8.006 L

ORIGINAL

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Scott Lathen/GET	12/4/10	1230	[signature] BAX	1-5-10	09:11

SAMPLE CONDITIONS

	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	AmB	Y/N (Y)	Y/N (Y)	Y/N (Y)
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Scott Lathen
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM / DD / YY): 01/04/10

Pace Analytical

AIR Sample Condition Upon Receipt

Client Name: GEOENGINEERS Project # 10119878

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

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

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other_____

Tracking #: 12 F64 A00019208 5043

Comments:

Date and Initials of person examining contents: 1-5-10 JK

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Media: AIR (CAN, CHARCOAL TUBE)		11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.

Samples Received: 1 CAN, 1 FC, 1 CHARCOAL TUBE

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
VP-CI-123109	1204		30				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 1-5-10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10119878
Project Name: 0506-117-11 Parkwater

Lab Sample No: 10119878001 ProjSampleNum: 10119878001 Date Collected: 12/31/09 11:18
Client Sample ID: VP-CI-123109 Matrix: Air Date Received: 01/05/10 9:11

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
1,1,1-Trichloroethane	ND	ug/m3	3.9	1.34	01/13/10 16:00 CJR	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/m3	4.9	1.34	01/13/10 16:00 CJR	79-34-5	
1,1,2-Trichloroethane	ND	ug/m3	3.9	1.34	01/13/10 16:00 CJR	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	5.5	1.34	01/13/10 16:00 CJR	76-13-1	
1,1-Dichloroethane	ND	ug/m3	2.9	1.34	01/13/10 16:00 CJR	75-34-3	
1,1-Dichloroethene	ND	ug/m3	2.8	1.34	01/13/10 16:00 CJR	75-35-4	
1,2,4-Trichlorobenzene	ND	ug/m3	5.3	1.34	01/13/10 16:00 CJR	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/m3	3.4	1.34	01/13/10 16:00 CJR	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/m3	5.5	1.34	01/13/10 16:00 CJR	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4.2	1.34	01/13/10 16:00 CJR	95-50-1	
1,2-Dichloroethane	4.94	ug/m3	2.9	1.34	01/13/10 16:00 CJR	107-06-2	
1,2-Dichloropropane	ND	ug/m3	3.3	1.34	01/13/10 16:00 CJR	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/m3	3.5	1.34	01/13/10 16:00 CJR	108-67-8	
1,3-Butadiene	ND	ug/m3	1.6	1.34	01/13/10 16:00 CJR	106-99-0	
1,3-Dichlorobenzene	ND	ug/m3	4.2	1.34	01/13/10 16:00 CJR	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.2	1.34	01/13/10 16:00 CJR	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.48	1.34	01/13/10 16:00 CJR	123-91-1	
2,2,4-Trimethylpentane	7.6	ug/m3	3.2	1.34	01/13/10 16:00 CJR	540-84-1	
2-Butanone (MEK)	15.3	ug/m3	2.2	1.34	01/13/10 16:00 CJR	78-93-3	
2-Hexanone	ND	ug/m3	3.1	1.34	01/13/10 16:00 CJR	591-78-6	
2-Propanol	ND	ug/m3	1.7	1.34	01/13/10 16:00 CJR	67-63-0	
4-Ethyltoluene	ND	ug/m3	3.5	1.34	01/13/10 16:00 CJR	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	3.1	1.34	01/13/10 16:00 CJR	108-10-1	
Acetone	18.8	ug/m3	1.8	1.34	01/13/10 16:00 CJR	67-64-1	
Benzene	ND	ug/m3	2.3	1.34	01/13/10 16:00 CJR	71-43-2	
Bromodichloromethane	ND	ug/m3	4.6	1.34	01/13/10 16:00 CJR	75-27-4	
Bromoform	ND	ug/m3	7.4	1.34	01/13/10 16:00 CJR	75-25-2	
Bromomethane	ND	ug/m3	2.7	1.34	01/13/10 16:00 CJR	74-83-9	
Carbon disulfide	2.15	ug/m3	2.1	1.34	01/13/10 16:00 CJR	75-15-0	
Carbon tetrachloride	ND	ug/m3	4.3	1.34	01/13/10 16:00 CJR	56-23-5	
Chlorobenzene	ND	ug/m3	3.3	1.34	01/13/10 16:00 CJR	108-90-7	
Chloroethane	ND	ug/m3	1.8	1.34	01/13/10 16:00 CJR	75-00-3	
Chloroform	ND	ug/m3	3.4	1.34	01/13/10 16:00 CJR	67-66-3	
Chloromethane	ND	ug/m3	1.4	1.34	01/13/10 16:00 CJR	74-87-3	
cis-1,2-Dichloroethene	ND	ug/m3	2.8	1.34	01/13/10 16:00 CJR	156-59-2	
cis-1,3-Dichloropropene	ND	ug/m3	3.1	1.34	01/13/10 16:00 CJR	10061-01-5	
Cyclohexane	2.66	ug/m3	2.4	1.34	01/13/10 16:00 CJR	110-82-7	
Dibromochloromethane	ND	ug/m3	6.1	1.34	01/13/10 16:00 CJR	124-48-1	

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10119878
Project Name: 0506-117-11 Parkwater

Dichlorodifluoromethane	ND	ug/m3	3.4	1.34	01/13/10 16:00	CJR	75-71-8
Dichlorotetrafluoroethane	ND	ug/m3	5.4	1.34	01/13/10 16:00	CJR	76-14-2
Ethanol	10.3	ug/m3	1.3	1.34	01/13/10 16:00	CJR	64-17-5
Ethyl acetate	ND	ug/m3	2.5	1.34	01/13/10 16:00	CJR	141-78-6
Ethylbenzene	3.4	ug/m3	3.1	1.34	01/13/10 16:00	CJR	100-41-4
Hexachloro-1,3-butadiene	ND	ug/m3	7.3	1.34	01/13/10 16:00	CJR	87-68-3
Isopropylbenzene (Cumene)	ND	ug/m3	3.3	1.34	01/13/10 16:00	CJR	98-82-8
m&p-Xylene	12.8	ug/m3	5.7	1.34	01/13/10 16:00	CJR	1330-20-7
Methylene Chloride	ND	ug/m3	2.5	1.34	01/13/10 16:00	CJR	75-09-2
Methyl-tert-butyl ether	ND	ug/m3	4.8	1.34	01/13/10 16:00	CJR	1634-04-4
Naphthalene	ND	ug/m3	3.6	1.34	01/13/10 16:00	CJR	91-20-3
n-Heptane	ND	ug/m3	2.9	1.34	01/13/10 16:00	CJR	142-82-5
n-Hexane	ND	ug/m3	2.5	1.34	01/13/10 16:00	CJR	110-54-3
o-Xylene	ND	ug/m3	3.1	1.34	01/13/10 16:00	CJR	95-47-6
Propylene	9.8	ug/m3	4.7	1.34	01/13/10 16:00	CJR	115-07-1
Styrene	ND	ug/m3	3.2	1.34	01/13/10 16:00	CJR	100-42-5
Tetrachloroethene	ND	ug/m3	4.8	1.34	01/13/10 16:00	CJR	127-18-4
Tetrahydrofuran	ND	ug/m3	2.1	1.34	01/13/10 16:00	CJR	109-99-9
THC as Gas	28200	ug/m3	120	1.34	01/13/10 16:00	CJR	
Toluene	3.75	ug/m3	2.7	1.34	01/13/10 16:00	CJR	108-88-3
trans-1,2-Dichloroethene	ND	ug/m3	5.2	1.34	01/13/10 16:00	CJR	156-60-5
trans-1,3-Dichloropropene	ND	ug/m3	3.2	1.34	01/13/10 16:00	CJR	10061-02-6
Trichloroethene	ND	ug/m3	3.8	1.34	01/13/10 16:00	CJR	79-01-6
Trichlorofluoromethane	ND	ug/m3	3.8	1.34	01/13/10 16:00	CJR	75-69-4
Vinyl acetate	ND	ug/m3	2.6	1.34	01/13/10 16:00	CJR	108-05-4
Vinyl chloride	ND	ug/m3	1.8	1.34	01/13/10 16:00	CJR	75-01-4
Xylene (Total)	12.8	ug/m3	8.8	1.34	01/13/10 16:00	CJR	1330-20-7

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10119878
Project Name: 0506-117-11 Parkwater

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT
Units Conversion Request

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Minneapolis, MN 55414
(612)607-1700

February 11, 2010

Bruce Williams
GeoEngineers,Inc.
523 East Second Ave
Spokane, WA 99202

RE: Project: 0506-117-11 Parkwater
Pace Project No.: 10121444

Dear Bruce Williams:
Enclosed are the analytical results for sample(s) received by the laboratory on January 29, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carol Davy

carol.davy@pacelabs.com
Project Manager

Enclosures

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Minneapolis, MN 55414
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CERTIFICATIONS

Project: 0506-117-11 Parkwater
Pace Project No.: 10121444

Minnesota Certification IDs
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 0506-117-11 Parkwater
Pace Project No.: 10121444

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10121444001	**VP-EX-012710**	Air	01/27/10 12:06	01/29/10 09:08
10121444002	**VP-CI-012710**	Air	01/27/10 11:33	01/29/10 09:08

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SAMPLE ANALYTE COUNT

Project: 0506-117-11 Parkwater
Pace Project No.: 10121444

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10121444001	**VP-EX-012710**	TO-15	CJR	65	PASI-M
10121444002	**VP-CI-012710**	TO-15	CJR	65	PASI-M

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PROJECT NARRATIVE

Project: 0506-117-11 Parkwater
Pace Project No.: 10121444

Method: **TO-15**
Description: TO15 MSV AIR
Client: GeoEngineers,Inc.
Date: February 11, 2010

General Information:
2 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

QC Batch: AIR/9762

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- DUP (Lab ID: 746268)
  - Naphthalene
- LCS (Lab ID: 746124)
  - Methylene Chloride
  - Naphthalene

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: AIR/9762

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 746124)
  - trans-1,3-Dichloropropene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 0506-117-11 Parkwater
Pace Project No.: 10121444

Sample: VP-EX-012710 **Lab ID: 10121444001** Collected: 01/27/10 12:06 Received: 01/29/10 09:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,1-Trichloroethane	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	76-13-1	
1,1-Dichloroethane	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	75-35-4	
1,2,4-Trichlorobenzene	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	120-82-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.70	0.35	1.38		02/09/10 17:16	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.70	0.35	1.38		02/09/10 17:16	95-50-1	
1,2-Dichloroethane	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	107-06-2	
1,2-Dichloropropane	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	108-67-8	
1,3-Butadiene	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	106-99-0	
1,3-Dichlorobenzene	ND	ppbv	0.70	0.35	1.38		02/09/10 17:16	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.70	0.35	1.38		02/09/10 17:16	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	0.14	0.069	1.38		02/09/10 17:16	123-91-1	
2,2,4-Trimethylpentane	**18.4**	ppbv	0.69	0.34	1.38		02/09/10 17:16	540-84-1	
2-Butanone (MEK)	ND	ppbv	0.76	0.38	1.38		02/09/10 17:16	78-93-3	
2-Hexanone	ND	ppbv	0.76	0.38	1.38		02/09/10 17:16	591-78-6	
2-Propanol	ND	ppbv	0.69	0.34	1.38		02/09/10 17:16	67-63-0	
4-Ethyltoluene	ND	ppbv	0.73	0.37	1.38		02/09/10 17:16	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	0.76	0.38	1.38		02/09/10 17:16	108-10-1	
Acetone	**3.8**	ppbv	0.76	0.38	1.38		02/09/10 17:16	67-64-1	
Benzene	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	71-43-2	
Bromodichloromethane	ND	ppbv	0.70	0.35	1.38		02/09/10 17:16	75-27-4	
Bromoform	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	75-25-2	
Bromomethane	ND	ppbv	0.70	0.35	1.38		02/09/10 17:16	74-83-9	
Carbon disulfide	ND	ppbv	0.69	0.34	1.38		02/09/10 17:16	75-15-0	
Carbon tetrachloride	ND	ppbv	0.70	0.35	1.38		02/09/10 17:16	56-23-5	
Chlorobenzene	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	108-90-7	
Chloroethane	ND	ppbv	0.70	0.35	1.38		02/09/10 17:16	75-00-3	
Chloroform	ND	ppbv	0.70	0.35	1.38		02/09/10 17:16	67-66-3	
Chloromethane	ND	ppbv	0.69	0.34	1.38		02/09/10 17:16	74-87-3	
Cyclohexane	**6.8**	ppbv	0.72	0.36	1.38		02/09/10 17:16	110-82-7	
Dibromochloromethane	ND	ppbv	0.73	0.37	1.38		02/09/10 17:16	124-48-1	
Dichlorodifluoromethane	ND	ppbv	0.70	0.35	1.38		02/09/10 17:16	75-71-8	
Dichlorotetrafluoroethane	ND	ppbv	0.79	0.39	1.38		02/09/10 17:16	76-14-2	
Ethanol	**5.2**	ppbv	0.69	0.34	1.38		02/09/10 17:16	64-17-5	
Ethyl acetate	ND	ppbv	0.70	0.35	1.38		02/09/10 17:16	141-78-6	
Ethylbenzene	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.69	0.34	1.38		02/09/10 17:16	87-68-3	
Isopropylbenzene (Cumene)	ND	ppbv	0.69	0.34	1.38		02/09/10 17:16	98-82-8	
Methyl-tert-butyl ether	ND	ppbv	1.4	0.69	1.38		02/09/10 17:16	1634-04-4	
Methylene Chloride	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	75-09-2	
Naphthalene	ND	ppbv	0.69	0.34	1.38		02/09/10 17:16	91-20-3	

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ANALYTICAL RESULTS

Project: 0506-117-11 Parkwater
Pace Project No.: 10121444

Sample: VP-EX-012710 **Lab ID: 10121444001** Collected: 01/27/10 12:06 Received: 01/29/10 09:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Propylene	**4.3**	ppbv	2.8	1.4	1.38		02/09/10 17:16	115-07-1	
Styrene	ND	ppbv	0.76	0.38	1.38		02/09/10 17:16	100-42-5	
THC as Gas	**2540**	ppbv	27.6	13.8	1.38		02/09/10 17:16		
Tetrachloroethene	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	127-18-4	
Tetrahydrofuran	**0.76**	ppbv	0.72	0.36	1.38		02/09/10 17:16	109-99-9	
Toluene	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	108-88-3	
Trichloroethene	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	79-01-6	
Trichlorofluoromethane	**1.2**	ppbv	0.69	0.34	1.38		02/09/10 17:16	75-69-4	
Vinyl acetate	ND	ppbv	0.76	0.38	1.38		02/09/10 17:16	108-05-4	
Vinyl chloride	ND	ppbv	0.70	0.35	1.38		02/09/10 17:16	75-01-4	
Xylene (Total)	ND	ppbv	2.1	1.0	1.38		02/09/10 17:16	1330-20-7	
cis-1,2-Dichloroethene	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	0.70	0.35	1.38		02/09/10 17:16	10061-01-5	
m&p-Xylene	ND	ppbv	1.4	0.69	1.38		02/09/10 17:16	1330-20-7	
n-Heptane	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	142-82-5	
n-Hexane	ND	ppbv	0.73	0.37	1.38		02/09/10 17:16	110-54-3	
o-Xylene	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	95-47-6	
trans-1,2-Dichloroethene	ND	ppbv	1.4	0.69	1.38		02/09/10 17:16	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	0.72	0.36	1.38		02/09/10 17:16	10061-02-6	

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ANALYTICAL RESULTS

Project: 0506-117-11 Parkwater
Pace Project No.: 10121444

Sample: VP-CI-012710 **Lab ID: 10121444002** Collected: 01/27/10 11:33 Received: 01/29/10 09:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,1-Trichloroethane	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	76-13-1	
1,1-Dichloroethane	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	75-35-4	
1,2,4-Trichlorobenzene	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	120-82-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.64	0.32	1.25		02/09/10 17:46	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.64	0.32	1.25		02/09/10 17:46	95-50-1	
1,2-Dichloroethane	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	107-06-2	
1,2-Dichloropropane	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	108-67-8	
1,3-Butadiene	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	106-99-0	
1,3-Dichlorobenzene	ND	ppbv	0.64	0.32	1.25		02/09/10 17:46	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.64	0.32	1.25		02/09/10 17:46	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	0.12	0.062	1.25		02/09/10 17:46	123-91-1	
2,2,4-Trimethylpentane	**1.5**	ppbv	0.62	0.31	1.25		02/09/10 17:46	540-84-1	
2-Butanone (MEK)	**1.2**	ppbv	0.69	0.34	1.25		02/09/10 17:46	78-93-3	
2-Hexanone	ND	ppbv	0.69	0.34	1.25		02/09/10 17:46	591-78-6	
2-Propanol	ND	ppbv	0.62	0.31	1.25		02/09/10 17:46	67-63-0	
4-Ethyltoluene	ND	ppbv	0.66	0.33	1.25		02/09/10 17:46	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	0.69	0.34	1.25		02/09/10 17:46	108-10-1	
Acetone	**3.4**	ppbv	0.69	0.34	1.25		02/09/10 17:46	67-64-1	
Benzene	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	71-43-2	
Bromodichloromethane	ND	ppbv	0.64	0.32	1.25		02/09/10 17:46	75-27-4	
Bromoform	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	75-25-2	
Bromomethane	ND	ppbv	0.64	0.32	1.25		02/09/10 17:46	74-83-9	
Carbon disulfide	ND	ppbv	0.62	0.31	1.25		02/09/10 17:46	75-15-0	
Carbon tetrachloride	ND	ppbv	0.64	0.32	1.25		02/09/10 17:46	56-23-5	
Chlorobenzene	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	108-90-7	
Chloroethane	ND	ppbv	0.64	0.32	1.25		02/09/10 17:46	75-00-3	
Chloroform	ND	ppbv	0.64	0.32	1.25		02/09/10 17:46	67-66-3	
Chloromethane	ND	ppbv	0.62	0.31	1.25		02/09/10 17:46	74-87-3	
Cyclohexane	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	110-82-7	
Dibromochloromethane	ND	ppbv	0.66	0.33	1.25		02/09/10 17:46	124-48-1	
Dichlorodifluoromethane	ND	ppbv	0.64	0.32	1.25		02/09/10 17:46	75-71-8	
Dichlorotetrafluoroethane	ND	ppbv	0.71	0.36	1.25		02/09/10 17:46	76-14-2	
Ethanol	**6.1**	ppbv	0.62	0.31	1.25		02/09/10 17:46	64-17-5	
Ethyl acetate	ND	ppbv	0.64	0.32	1.25		02/09/10 17:46	141-78-6	
Ethylbenzene	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.62	0.31	1.25		02/09/10 17:46	87-68-3	
Isopropylbenzene (Cumene)	ND	ppbv	0.62	0.31	1.25		02/09/10 17:46	98-82-8	
Methyl-tert-butyl ether	ND	ppbv	1.2	0.62	1.25		02/09/10 17:46	1634-04-4	
Methylene Chloride	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	75-09-2	
Naphthalene	ND	ppbv	0.62	0.31	1.25		02/09/10 17:46	91-20-3	

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ANALYTICAL RESULTS

Project: 0506-117-11 Parkwater
Pace Project No.: 10121444

Sample: VP-CI-012710 **Lab ID: 10121444002** Collected: 01/27/10 11:33 Received: 01/29/10 09:08 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Propylene	ND	ppbv	2.5	1.2	1.25		02/09/10 17:46	115-07-1	
Styrene	ND	ppbv	0.69	0.34	1.25		02/09/10 17:46	100-42-5	
THC as Gas	**11400**	ppbv	25.0	12.5	1.25		02/09/10 17:46		
Tetrachloroethene	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	127-18-4	
Tetrahydrofuran	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	109-99-9	
Toluene	**0.91**	ppbv	0.65	0.32	1.25		02/09/10 17:46	108-88-3	
Trichloroethene	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	79-01-6	
Trichlorofluoromethane	ND	ppbv	0.62	0.31	1.25		02/09/10 17:46	75-69-4	
Vinyl acetate	ND	ppbv	0.69	0.34	1.25		02/09/10 17:46	108-05-4	
Vinyl chloride	ND	ppbv	0.64	0.32	1.25		02/09/10 17:46	75-01-4	
Xylene (Total)	ND	ppbv	1.9	0.94	1.25		02/09/10 17:46	1330-20-7	
cis-1,2-Dichloroethene	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	0.64	0.32	1.25		02/09/10 17:46	10061-01-5	
m&p-Xylene	ND	ppbv	1.2	0.62	1.25		02/09/10 17:46	1330-20-7	
n-Heptane	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	142-82-5	
n-Hexane	ND	ppbv	0.66	0.33	1.25		02/09/10 17:46	110-54-3	
o-Xylene	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	95-47-6	
trans-1,2-Dichloroethene	ND	ppbv	1.2	0.62	1.25		02/09/10 17:46	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	0.65	0.32	1.25		02/09/10 17:46	10061-02-6	

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QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10121444

QC Batch: AIR/9762 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10121444001, 10121444002

METHOD BLANK: 746123 Matrix: Air
Associated Lab Samples: 10121444001, 10121444002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.52	02/09/10 10:26	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.52	02/09/10 10:26	
1,1,2-Trichloroethane	ppbv	ND	0.52	02/09/10 10:26	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.52	02/09/10 10:26	
1,1-Dichloroethane	ppbv	ND	0.52	02/09/10 10:26	
1,1-Dichloroethene	ppbv	ND	0.52	02/09/10 10:26	
1,2,4-Trichlorobenzene	ppbv	ND	0.52	02/09/10 10:26	
1,2,4-Trimethylbenzene	ppbv	ND	0.51	02/09/10 10:26	
1,2-Dibromoethane (EDB)	ppbv	ND	0.52	02/09/10 10:26	
1,2-Dichlorobenzene	ppbv	ND	0.51	02/09/10 10:26	
1,2-Dichloroethane	ppbv	ND	0.52	02/09/10 10:26	
1,2-Dichloropropane	ppbv	ND	0.52	02/09/10 10:26	
1,3,5-Trimethylbenzene	ppbv	ND	0.52	02/09/10 10:26	
1,3-Butadiene	ppbv	ND	0.52	02/09/10 10:26	
1,3-Dichlorobenzene	ppbv	ND	0.51	02/09/10 10:26	
1,4-Dichlorobenzene	ppbv	ND	0.51	02/09/10 10:26	
1,4-Dioxane (p-Dioxane)	ppbv	ND	0.10	02/09/10 10:26	
2,2,4-Trimethylpentane	ppbv	ND	0.50	02/09/10 10:26	
2-Butanone (MEK)	ppbv	ND	0.55	02/09/10 10:26	
2-Hexanone	ppbv	ND	0.55	02/09/10 10:26	
2-Propanol	ppbv	ND	0.50	02/09/10 10:26	
4-Ethyltoluene	ppbv	ND	0.53	02/09/10 10:26	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	0.55	02/09/10 10:26	
Acetone	ppbv	ND	0.55	02/09/10 10:26	
Benzene	ppbv	ND	0.52	02/09/10 10:26	
Bromodichloromethane	ppbv	ND	0.51	02/09/10 10:26	
Bromoform	ppbv	ND	0.52	02/09/10 10:26	
Bromomethane	ppbv	ND	0.51	02/09/10 10:26	
Carbon disulfide	ppbv	ND	0.50	02/09/10 10:26	
Carbon tetrachloride	ppbv	ND	0.51	02/09/10 10:26	
Chlorobenzene	ppbv	ND	0.52	02/09/10 10:26	
Chloroethane	ppbv	ND	0.51	02/09/10 10:26	
Chloroform	ppbv	ND	0.51	02/09/10 10:26	
Chloromethane	ppbv	ND	0.50	02/09/10 10:26	
cis-1,2-Dichloroethene	ppbv	ND	0.52	02/09/10 10:26	
cis-1,3-Dichloropropene	ppbv	ND	0.51	02/09/10 10:26	
Cyclohexane	ppbv	ND	0.52	02/09/10 10:26	
Dibromochloromethane	ppbv	ND	0.53	02/09/10 10:26	
Dichlorodifluoromethane	ppbv	ND	0.51	02/09/10 10:26	
Dichlorotetrafluoroethane	ppbv	ND	0.57	02/09/10 10:26	
Ethanol	ppbv	ND	0.50	02/09/10 10:26	
Ethyl acetate	ppbv	ND	0.51	02/09/10 10:26	
Ethylbenzene	ppbv	ND	0.52	02/09/10 10:26	

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QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10121444

METHOD BLANK: 746123 Matrix: Air

Associated Lab Samples: 10121444001, 10121444002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ppbv	ND	0.50	02/09/10 10:26	
Isopropylbenzene (Cumene)	ppbv	ND	0.50	02/09/10 10:26	
m&p-Xylene	ppbv	ND	1.0	02/09/10 10:26	
Methyl-tert-butyl ether	ppbv	ND	1.0	02/09/10 10:26	
Methylene Chloride	ppbv	ND	0.52	02/09/10 10:26	
n-Heptane	ppbv	ND	0.52	02/09/10 10:26	
n-Hexane	ppbv	ND	0.53	02/09/10 10:26	
Naphthalene	ppbv	ND	0.50	02/09/10 10:26	
o-Xylene	ppbv	ND	0.52	02/09/10 10:26	
Propylene	ppbv	ND	2.0	02/09/10 10:26	
Styrene	ppbv	ND	0.55	02/09/10 10:26	
Tetrachloroethene	ppbv	ND	0.52	02/09/10 10:26	
Tetrahydrofuran	ppbv	ND	0.52	02/09/10 10:26	
THC as Gas	ppbv	ND	20.0	02/09/10 10:26	
Toluene	ppbv	ND	0.52	02/09/10 10:26	
trans-1,2-Dichloroethene	ppbv	ND	1.0	02/09/10 10:26	
trans-1,3-Dichloropropene	ppbv	ND	0.52	02/09/10 10:26	
Trichloroethene	ppbv	ND	0.52	02/09/10 10:26	
Trichlorofluoromethane	ppbv	ND	0.50	02/09/10 10:26	
Vinyl acetate	ppbv	ND	0.55	02/09/10 10:26	
Vinyl chloride	ppbv	ND	0.51	02/09/10 10:26	
Xylene (Total)	ppbv	ND	1.5	02/09/10 10:26	

LABORATORY CONTROL SAMPLE: 746124

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10	8.6	86	60-125	
1,1,2,2-Tetrachloroethane	ppbv	10	10.1	101	57-127	
1,1,2-Trichloroethane	ppbv	10	9.3	93	56-125	
1,1,2-Trichlorotrifluoroethane	ppbv	10	7.7	77	52-133	
1,1-Dichloroethane	ppbv	10	8.3	83	54-127	
1,1-Dichloroethene	ppbv	10	7.9	79	52-129	
1,2,4-Trichlorobenzene	ppbv	10	17.6	176	30-150	CU
1,2,4-Trimethylbenzene	ppbv	10	10.2	102	52-145	
1,2-Dibromoethane (EDB)	ppbv	10	9.2	92	59-133	
1,2-Dichlorobenzene	ppbv	10	12.6	126	67-135	
1,2-Dichloroethane	ppbv	10	8.3	83	54-125	
1,2-Dichloropropane	ppbv	10	9.5	95	64-125	
1,3,5-Trimethylbenzene	ppbv	10	11.8	118	56-135	
1,3-Butadiene	ppbv	10	8.4	84	55-125	
1,3-Dichlorobenzene	ppbv	10	12.2	122	61-142	
1,4-Dichlorobenzene	ppbv	10	11.4	114	55-142	
1,4-Dioxane (p-Dioxane)	ppbv	10	10.5	105	70-130	
2,2,4-Trimethylpentane	ppbv	10	9.2	92	70-130	
2-Butanone (MEK)	ppbv	10	9.7	97	47-141	

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QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10121444

LABORATORY CONTROL SAMPLE: 746124

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ppbv	10	10.2	102	41-138	
2-Propanol	ppbv	10	9.1	91	63-125	
4-Ethyltoluene	ppbv	10	12.0	120	62-130	
4-Methyl-2-pentanone (MIBK)	ppbv	10	10.8	108	53-134	
Acetone	ppbv	10	11.7	117	44-149	
Benzene	ppbv	10	9.0	90	61-126	
Bromodichloromethane	ppbv	10	8.8	88	54-129	
Bromoform	ppbv	10	10.4	104	56-125	
Bromomethane	ppbv	10	8.1	81	56-128	
Carbon disulfide	ppbv	10	8.6	86	58-150	
Carbon tetrachloride	ppbv	10	7.7	77	55-125	
Chlorobenzene	ppbv	10	9.4	94	48-138	
Chloroethane	ppbv	10	8.2	82	56-128	
Chloroform	ppbv	10	7.9	79	55-125	
Chloromethane	ppbv	10	7.9	79	50-131	
cis-1,2-Dichloroethene	ppbv	10	8.6	86	64-125	
cis-1,3-Dichloropropene	ppbv	10	11.2	112	61-132	
Cyclohexane	ppbv	10	8.6	86	61-130	
Dibromochloromethane	ppbv	10	9.2	92	51-129	
Dichlorodifluoromethane	ppbv	10	7.5	75	56-132	
Dichlorotetrafluoroethane	ppbv	10	7.8	78	48-125	
Ethanol	ppbv	10	12.3	123	70-130	
Ethyl acetate	ppbv	10	9.4	94	66-149	
Ethylbenzene	ppbv	10	10.3	103	56-137	
Hexachloro-1,3-butadiene	ppbv	10	18.3	183	30-150	CU
Isopropylbenzene (Cumene)	ppbv	10.4	10.3	99	67-134	
m&p-Xylene	ppbv	20	19.6	98	62-135	
Methyl-tert-butyl ether	ppbv	10	11.5	115	59-125	
Methylene Chloride	ppbv	10	18.7	187	46-143	CH
n-Heptane	ppbv	10	9.3	93	64-130	
n-Hexane	ppbv	10	8.6	86	61-134	
Naphthalene	ppbv	10	17.8	178	30-150	CH
o-Xylene	ppbv	10	10.4	104	61-134	
Propylene	ppbv	10	11.8	118	62-146	
Styrene	ppbv	10	12.1	121	63-134	
Tetrachloroethene	ppbv	10	8.1	81	61-132	
Tetrahydrofuran	ppbv	10	9.9	99	62-137	
THC as Gas	ppbv	700	740	106	61-125	
Toluene	ppbv	10	10	100	57-132	
trans-1,2-Dichloroethene	ppbv	10	8.6	86	52-130	
trans-1,3-Dichloropropene	ppbv	10	13.0	130	61-129	L3
Trichloroethene	ppbv	10	8.7	87	72-147	
Trichlorofluoromethane	ppbv	10	7.4	74	58-141	
Vinyl acetate	ppbv	10	9.8	98	56-131	
Vinyl chloride	ppbv	10	11.1	111	56-136	
Xylene (Total)	ppbv	30	30.0	100	70-130	

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QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10121444

SAMPLE DUPLICATE: 746268

Parameter	Units	10121337001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	ND		30	
1,1,2,2-Tetrachloroethane	ppbv	ND	ND		30	
1,1,2-Trichloroethane	ppbv	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	ND		30	
1,1-Dichloroethane	ppbv	ND	ND		30	
1,1-Dichloroethene	ppbv	ND	ND		30	
1,2,4-Trichlorobenzene	ppbv	ND	ND		30	
1,2,4-Trimethylbenzene	ppbv	1.2	1.2	0	30	
1,2-Dibromoethane (EDB)	ppbv	ND	ND		30	
1,2-Dichlorobenzene	ppbv	ND	ND		30	
1,2-Dichloroethane	ppbv	ND	ND		30	
1,2-Dichloropropane	ppbv	ND	ND		30	
1,3,5-Trimethylbenzene	ppbv	ND	ND		30	
1,3-Butadiene	ppbv	ND	ND		30	
1,3-Dichlorobenzene	ppbv	ND	ND		30	
1,4-Dichlorobenzene	ppbv	ND	ND		30	
1,4-Dioxane (p-Dioxane)	ppbv	ND	ND		30	
2,2,4-Trimethylpentane	ppbv	ND	ND		30	
2-Butanone (MEK)	ppbv	0.78	.71J		30	
2-Hexanone	ppbv	ND	ND		30	
2-Propanol	ppbv	24.8	25.4	3	30	
4-Ethyltoluene	ppbv	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	ND		30	
Acetone	ppbv	8.0	7.2	10	30	
Benzene	ppbv	ND	ND		30	
Bromodichloromethane	ppbv	ND	ND		30	
Bromoform	ppbv	ND	ND		30	
Bromomethane	ppbv	ND	ND		30	
Carbon disulfide	ppbv	ND	ND		30	
Carbon tetrachloride	ppbv	ND	ND		30	
Chlorobenzene	ppbv	ND	ND		30	
Chloroethane	ppbv	ND	ND		30	
Chloroform	ppbv	ND	ND		30	
Chloromethane	ppbv	ND	ND		30	
cis-1,2-Dichloroethene	ppbv	ND	ND		30	
cis-1,3-Dichloropropene	ppbv	ND	ND		30	
Cyclohexane	ppbv	ND	ND		30	
Dibromochloromethane	ppbv	ND	ND		30	
Dichlorodifluoromethane	ppbv	ND	ND		30	
Dichlorotetrafluoroethane	ppbv	ND	ND		30	
Ethanol	ppbv	3.6	3.6	0	30	
Ethyl acetate	ppbv	ND	ND		30	
Ethylbenzene	ppbv	ND	ND		30	
Hexachloro-1,3-butadiene	ppbv	ND	ND		30	
Isopropylbenzene (Cumene)	ppbv	ND	ND		30	
m&p-Xylene	ppbv	ND	ND		30	
Methyl-tert-butyl ether	ppbv	ND	ND		30	
Methylene Chloride	ppbv	ND	ND		30	

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QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10121444

SAMPLE DUPLICATE: 746268

Parameter	Units	10121337001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Heptane	ppbv	ND	ND		30	
n-Hexane	ppbv	ND	ND		30	
Naphthalene	ppbv	0.74	0.74	0	30	CH
o-Xylene	ppbv	ND	ND		30	
Propylene	ppbv	ND	ND		30	
Styrene	ppbv	ND	ND		30	
Tetrachloroethene	ppbv	ND	ND		30	
Tetrahydrofuran	ppbv	0.76	0.71	7	30	
THC as Gas	ppbv	ND	16.9J		30	
Toluene	ppbv	ND	ND		30	
trans-1,2-Dichloroethene	ppbv	ND	ND		30	
trans-1,3-Dichloropropene	ppbv	ND	ND		30	
Trichloroethene	ppbv	ND	ND		30	
Trichlorofluoromethane	ppbv	ND	ND		30	
Vinyl acetate	ppbv	ND	ND		30	
Vinyl chloride	ppbv	ND	ND		30	
Xylene (Total)	ppbv	ND	ND		30	

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QUALIFIERS

Project: 0506-117-11 Parkwater
Pace Project No.: 10121444

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CU	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

February 09, 2010

Carol Davy
PACE ANALYTICAL
1700 Elm Street SE
Minneapolis, MN 55127-

Bureau Veritas Work Order No. 10020134

Reference: 10121444/0506-117-11 PARKWATER

Dear Carol Davy:

Bureau Veritas North America, Inc. received 2 samples on 2/2/2010 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

Karen Coonan
Client Services Representative

cc:

Bureau Veritas North America, Inc.
22345 Roethel Drive
Novi, MI 48375

Main: (248) 344.1770
Fax: (248) 344.2655
www.us.bureauveritas.com

CASE NARRATIVE

Date: *09-Feb-10*

Client:	**PACE ANALYTICAL**
Project:	**10121444/0506-117-11 PARKWATER**
Work Order No	**10020134**

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

Please note that a field blank was not identified by the client for this sample set.

The following results have been converted from mg/m3 to ug/m3.
Sample -001A: THCs as Diesel = 13,000 ug/m3
Sample -002A: THCs as Diesel = <1,200 ug/m3

ANALYTICAL RESULTS

Date: *09-Feb-10*

Client: PACE ANALYTICAL

Project: 10121444/0506-117-11 PARKWATER

Work Order No: 10020134

Sample Identification: VP-EX-012710

Lab Number: 001A

Date Sampled: 1/27/2010

Sample Type Charcoal Tube

Date Received: 2/2/2010

Analyst CCR

Air Volume (L): 8

Analyte	Analytical Results (µg)	(mg/m³)	(ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
THCs as Diesel	110	13	--	10	NIOSH 1550	02/05/2010

Sample Identification: VP-CI-012710

Lab Number: 002A

Date Sampled: 1/27/2010

Sample Type Charcoal Tube

Date Received: 2/2/2010

Analyst CCR

Air Volume (L): 8.06

Analyte	Analytical Results (µg)	(mg/m³)	(ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
THCs as Diesel	<10	<1.2	--	10	NIOSH 1550	02/05/2010

General Notes:
<: Less than the indicated reporting limit (RL).
--: Information not available or not applicable.
Back sections (if applicable) were checked and showed no significant breakthrough unless otherwise noted.

Chain of Custody

10020134

Pace Analytical®
www.pacelabs.com

Workorder: 10121444 **Workorder Name:** 0506-117-11 Parkwater **Results Requested** 2/11/2010

Report / Invoice To	Subcontract To
Carol Davy Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700 Email: carol.davy@pacelabs.com	Bureau Veritas P.O. 10121444

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: General	Requested Analysis: 1145M 1552 Diesel	LAB USE ONLY
1	VP-EX-012710	1/27/2010 12:06	10121444001	Air	1	X	
2	VP-CI-012710	1/27/2010 11:33	10121444002	Air	1	X	
3							
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time
1	Carol Davy / Pace	1/29/10 1330		
2			D Massey	2/2/10
3				
4				
5				

Comments: 10:07 AM

VP-EX-012710 = 8.003 L

VP-CI-012710 = 8.063 L

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10121444

00734 | Page: of

Section A Required Client Information:

Company: GeoEngineers
Address: 523 E 2nd Ave
Spokane WA 99202
Email To: slathen@geoengineers.com
Phone: 509 3633125 Fax: 509 363 3126
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Scott Lathen
Copy To: Bruce Williams
Purchase Order No.: 110101-J02
Project Name: Parkwater
Project Number: 0506-117-11

Section C Invoice Information:

Attention: Bruce Sheppard
Company Name: BNSF
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☒ Emmisions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WA

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

Section D Required Client Information

AIR SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	SAMPLE TYPE G=Grab C=Composite	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE - END/GRAB DATE	COLLECTED COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field)	Canister Pressure (Final Field)	Summa Can Number	Method: TO-3 BTEX+TPH(ppmv)	TO-3M PPMV MEE	3C- Fixed Gas (%)	TO-14a (VOCs)	TO-15 (SIM VOCs)	TO-15 Low Level	TO-13 (PAH)	TO-4 (PCBs)	PM10	NIOSH 1550	Pace Lab ID
1	VP-EX-012710	6LC	C	1/27/10	1137	1/27/10	1206	-26	+1	1007	X				X						10121444001
2	VP-CI-012710	6LC	C	1/27/10	1104	1/27/10	1133	-24	+2	0933											
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Additional Comments:

Absorbent tube for each sample to run for NIOSH 1550

ORIGINAL

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Scott Lathen	1/27/10	1530	[signature]	1-29-10	09:08

SAMPLE CONDITIONS

	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
	AMB	(Y) N/A	(Y) N/A	(Y) N/A
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Scott Lathen

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 01/27/10

20 of 21

Pace Analytical

AIR Sample Condition Upon Receipt

Client Name: GEOENGINEERS Project # 10121444

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

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

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other_____

Optional
Proj. Due Date:
Proj. Name:

Tracking #: 12 F64 A00 029542 2242

Date and Initials of person examining contents: 1-29-10 K

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Media: AIR (CAN, CHARCOAL TUBE)		11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.

Samples Received: 2CANS, 2FCS, 2 CHARCOAL TUBES

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
VP-EX	1057		152				
VP-CI	0933		080				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: DMD **Date:** 1-29-10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10121444
Project Name: 0506-117-11 Parkwater

Lab Sample No: 10121444001
Client Sample ID: VP-EX-012710

ProjSampleNum: 10121444001
Matrix: Air

Date Collected: 01/27/10 12:06
Date Received: 01/29/10 9:08

Air
TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
1,1,1-Trichloroethane	ND	ug/m3	4	1.38	02/09/10 17:16 CJR	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/m3	5	1.38	02/09/10 17:16 CJR	79-34-5	
1,1,2-Trichloroethane	ND	ug/m3	4	1.38	02/09/10 17:16 CJR	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	5.6	1.38	02/09/10 17:16 CJR	76-13-1	
1,1-Dichloroethane	ND	ug/m3	3	1.38	02/09/10 17:16 CJR	75-34-3	
1,1-Dichloroethene	ND	ug/m3	2.9	1.38	02/09/10 17:16 CJR	75-35-4	
1,2,4-Trichlorobenzene	ND	ug/m3	5.4	1.38	02/09/10 17:16 CJR	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/m3	3.5	1.38	02/09/10 17:16 CJR	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/m3	5.6	1.38	02/09/10 17:16 CJR	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4.3	1.38	02/09/10 17:16 CJR	95-50-1	
1,2-Dichloroethane	ND	ug/m3	3	1.38	02/09/10 17:16 CJR	107-06-2	
1,2-Dichloropropane	ND	ug/m3	3.4	1.38	02/09/10 17:16 CJR	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/m3	3.6	1.38	02/09/10 17:16 CJR	108-67-8	
1,3-Butadiene	ND	ug/m3	1.6	1.38	02/09/10 17:16 CJR	106-99-0	
1,3-Dichlorobenzene	ND	ug/m3	4.3	1.38	02/09/10 17:16 CJR	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.3	1.38	02/09/10 17:16 CJR	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.51	1.38	02/09/10 17:16 CJR	123-91-1	
2,2,4-Trimethylpentane	87.4	ug/m3	3.3	1.38	02/09/10 17:16 CJR	540-84-1	
2-Butanone (MEK)	ND	ug/m3	2.3	1.38	02/09/10 17:16 CJR	78-93-3	
2-Hexanone	ND	ug/m3	3.2	1.38	02/09/10 17:16 CJR	591-78-6	
2-Propanol	ND	ug/m3	1.7	1.38	02/09/10 17:16 CJR	67-63-0	
4-Ethyltoluene	ND	ug/m3	3.6	1.38	02/09/10 17:16 CJR	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	3.2	1.38	02/09/10 17:16 CJR	108-10-1	
Acetone	9.18	ug/m3	1.8	1.38	02/09/10 17:16 CJR	67-64-1	
Benzene	ND	ug/m3	2.3	1.38	02/09/10 17:16 CJR	71-43-2	
Bromodichloromethane	ND	ug/m3	4.8	1.38	02/09/10 17:16 CJR	75-27-4	
Bromoform	ND	ug/m3	7.6	1.38	02/09/10 17:16 CJR	75-25-2	
Bromomethane	ND	ug/m3	2.8	1.38	02/09/10 17:16 CJR	74-83-9	
Carbon disulfide	ND	ug/m3	2.2	1.38	02/09/10 17:16 CJR	75-15-0	
Carbon tetrachloride	ND	ug/m3	4.5	1.38	02/09/10 17:16 CJR	56-23-5	
Chlorobenzene	ND	ug/m3	3.4	1.38	02/09/10 17:16 CJR	108-90-7	
Chloroethane	ND	ug/m3	1.9	1.38	02/09/10 17:16 CJR	75-00-3	
Chloroform	ND	ug/m3	3.5	1.38	02/09/10 17:16 CJR	67-66-3	
Chloromethane	ND	ug/m3	1.4	1.38	02/09/10 17:16 CJR	74-87-3	
cis-1,2-Dichloroethene	ND	ug/m3	2.9	1.38	02/09/10 17:16 CJR	156-59-2	
cis-1,3-Dichloropropene	ND	ug/m3	3.2	1.38	02/09/10 17:16 CJR	10061-01-5	
Cyclohexane	23.8	ug/m3	2.5	1.38	02/09/10 17:16 CJR	110-82-7	
Dibromochloromethane	ND	ug/m3	6.3	1.38	02/09/10 17:16 CJR	124-48-1	

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10121444
Project Name: 0506-117-11 Parkwater

Dichlorodifluoromethane	ND	ug/m3	3.5	1.38	02/09/10 17:16	CJR	75-71-8
Dichlorotetrafluoroethane	ND	ug/m3	5.6	1.38	02/09/10 17:16	CJR	76-14-2
Ethanol	9.96	ug/m3	1.3	1.38	02/09/10 17:16	CJR	64-17-5
Ethyl acetate	ND	ug/m3	2.6	1.38	02/09/10 17:16	CJR	141-78-6
Ethylbenzene	ND	ug/m3	3.2	1.38	02/09/10 17:16	CJR	100-41-4
Hexachloro-1,3-butadiene	ND	ug/m3	7.5	1.38	02/09/10 17:16	CJR	87-68-3
Isopropylbenzene (Cumene)	ND	ug/m3	3.4	1.38	02/09/10 17:16	CJR	98-82-8
m&p-Xylene	ND	ug/m3	6.2	1.38	02/09/10 17:16	CJR	1330-20-7
Methylene Chloride	ND	ug/m3	2.5	1.38	02/09/10 17:16	CJR	75-09-2
Methyl-tert-butyl ether	ND	ug/m3	5.1	1.38	02/09/10 17:16	CJR	1634-04-4
Naphthalene	ND	ug/m3	3.7	1.38	02/09/10 17:16	CJR	91-20-3
n-Heptane	ND	ug/m3	3	1.38	02/09/10 17:16	CJR	142-82-5
n-Hexane	ND	ug/m3	2.6	1.38	02/09/10 17:16	CJR	110-54-3
o-Xylene	ND	ug/m3	3.2	1.38	02/09/10 17:16	CJR	95-47-6
Propylene	7.52	ug/m3	4.9	1.38	02/09/10 17:16	CJR	115-07-1
Styrene	ND	ug/m3	3.3	1.38	02/09/10 17:16	CJR	100-42-5
Tetrachloroethene	ND	ug/m3	5	1.38	02/09/10 17:16	CJR	127-18-4
Tetrahydrofuran	2.28	ug/m3	2.2	1.38	02/09/10 17:16	CJR	109-99-9
THC as Gas	11000	ug/m3	120	1.38	02/09/10 17:16	CJR	
Toluene	ND	ug/m3	2.8	1.38	02/09/10 17:16	CJR	108-88-3
trans-1,2-Dichloroethene	ND	ug/m3	5.6	1.38	02/09/10 17:16	CJR	156-60-5
trans-1,3-Dichloropropene	ND	ug/m3	3.3	1.38	02/09/10 17:16	CJR	10061-02-6
Trichloroethene	ND	ug/m3	3.9	1.38	02/09/10 17:16	CJR	79-01-6
Trichlorofluoromethane	6.85	ug/m3	3.9	1.38	02/09/10 17:16	CJR	75-69-4
Vinyl acetate	ND	ug/m3	2.7	1.38	02/09/10 17:16	CJR	108-05-4
Vinyl chloride	ND	ug/m3	1.8	1.38	02/09/10 17:16	CJR	75-01-4
Xylene (Total)	ND	ug/m3	9.3	1.38	02/09/10 17:16	CJR	1330-20-7

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10121444
Project Name: 0506-117-11 Parkwater

Lab Sample No: 10121444002
Client Sample ID: VP-CI-012710

ProjSampleNum: 10121444002
Matrix: Air

Date Collected: 01/27/10 11:33
Date Received: 01/29/10 9:08

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
1,1,1-Trichloroethane	ND	ug/m3	3.6	1.25	02/09/10 17:46 CJR	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/m3	4.5	1.25	02/09/10 17:46 CJR	79-34-5	
1,1,2-Trichloroethane	ND	ug/m3	3.6	1.25	02/09/10 17:46 CJR	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	5.1	1.25	02/09/10 17:46 CJR	76-13-1	
1,1-Dichloroethane	ND	ug/m3	2.7	1.25	02/09/10 17:46 CJR	75-34-3	
1,1-Dichloroethene	ND	ug/m3	2.6	1.25	02/09/10 17:46 CJR	75-35-4	
1,2,4-Trichlorobenzene	ND	ug/m3	4.9	1.25	02/09/10 17:46 CJR	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/m3	3.2	1.25	02/09/10 17:46 CJR	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/m3	5.1	1.25	02/09/10 17:46 CJR	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	3.9	1.25	02/09/10 17:46 CJR	95-50-1	
1,2-Dichloroethane	ND	ug/m3	2.7	1.25	02/09/10 17:46 CJR	107-06-2	
1,2-Dichloropropane	ND	ug/m3	3.1	1.25	02/09/10 17:46 CJR	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/m3	3.2	1.25	02/09/10 17:46 CJR	108-67-8	
1,3-Butadiene	ND	ug/m3	1.5	1.25	02/09/10 17:46 CJR	106-99-0	
1,3-Dichlorobenzene	ND	ug/m3	3.9	1.25	02/09/10 17:46 CJR	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	3.9	1.25	02/09/10 17:46 CJR	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.44	1.25	02/09/10 17:46 CJR	123-91-1	
2,2,4-Trimethylpentane	7.12	ug/m3	2.9	1.25	02/09/10 17:46 CJR	540-84-1	
2-Butanone (MEK)	3.6	ug/m3	2.1	1.25	02/09/10 17:46 CJR	78-93-3	
2-Hexanone	ND	ug/m3	2.9	1.25	02/09/10 17:46 CJR	591-78-6	
2-Propanol	ND	ug/m3	1.5	1.25	02/09/10 17:46 CJR	67-63-0	
4-Ethyltoluene	ND	ug/m3	3.3	1.25	02/09/10 17:46 CJR	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	2.9	1.25	02/09/10 17:46 CJR	108-10-1	
Acetone	8.21	ug/m3	1.7	1.25	02/09/10 17:46 CJR	67-64-1	
Benzene	ND	ug/m3	2.1	1.25	02/09/10 17:46 CJR	71-43-2	
Bromodichloromethane	ND	ug/m3	4.4	1.25	02/09/10 17:46 CJR	75-27-4	
Bromoform	ND	ug/m3	6.8	1.25	02/09/10 17:46 CJR	75-25-2	
Bromomethane	ND	ug/m3	2.5	1.25	02/09/10 17:46 CJR	74-83-9	
Carbon disulfide	ND	ug/m3	2	1.25	02/09/10 17:46 CJR	75-15-0	
Carbon tetrachloride	ND	ug/m3	4.1	1.25	02/09/10 17:46 CJR	56-23-5	
Chlorobenzene	ND	ug/m3	3	1.25	02/09/10 17:46 CJR	108-90-7	
Chloroethane	ND	ug/m3	1.7	1.25	02/09/10 17:46 CJR	75-00-3	
Chloroform	ND	ug/m3	3.2	1.25	02/09/10 17:46 CJR	67-66-3	
Chloromethane	ND	ug/m3	1.3	1.25	02/09/10 17:46 CJR	74-87-3	
cis-1,2-Dichloroethene	ND	ug/m3	2.6	1.25	02/09/10 17:46 CJR	156-59-2	
cis-1,3-Dichloropropene	ND	ug/m3	3	1.25	02/09/10 17:46 CJR	10061-01-5	
Cyclohexane	ND	ug/m3	2.3	1.25	02/09/10 17:46 CJR	110-82-7	
Dibromochloromethane	ND	ug/m3	5.7	1.25	02/09/10 17:46 CJR	124-48-1	

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10121444
Project Name: 0506-117-11 Parkwater

Dichlorodifluoromethane	ND	ug/m3	3.2	1.25	02/09/10 17:46	CJR	75-71-8
Dichlorotetrafluoroethane	ND	ug/m3	5	1.25	02/09/10 17:46	CJR	76-14-2
Ethanol	11.7	ug/m3	1.2	1.25	02/09/10 17:46	CJR	64-17-5
Ethyl acetate	ND	ug/m3	2.3	1.25	02/09/10 17:46	CJR	141-78-6
Ethylbenzene	ND	ug/m3	2.9	1.25	02/09/10 17:46	CJR	100-41-4
Hexachloro-1,3-butadiene	ND	ug/m3	6.7	1.25	02/09/10 17:46	CJR	87-68-3
Isopropylbenzene (Cumene)	ND	ug/m3	3.1	1.25	02/09/10 17:46	CJR	98-82-8
m&p-Xylene	ND	ug/m3	5.3	1.25	02/09/10 17:46	CJR	1330-20-7
Methylene Chloride	ND	ug/m3	2.3	1.25	02/09/10 17:46	CJR	75-09-2
Methyl-tert-butyl ether	ND	ug/m3	4.4	1.25	02/09/10 17:46	CJR	1634-04-4
Naphthalene	ND	ug/m3	3.3	1.25	02/09/10 17:46	CJR	91-20-3
n-Heptane	ND	ug/m3	2.7	1.25	02/09/10 17:46	CJR	142-82-5
n-Hexane	ND	ug/m3	2.4	1.25	02/09/10 17:46	CJR	110-54-3
o-Xylene	ND	ug/m3	2.9	1.25	02/09/10 17:46	CJR	95-47-6
Propylene	ND	ug/m3	4.4	1.25	02/09/10 17:46	CJR	115-07-1
Styrene	ND	ug/m3	3	1.25	02/09/10 17:46	CJR	100-42-5
Tetrachloroethene	ND	ug/m3	4.5	1.25	02/09/10 17:46	CJR	127-18-4
Tetrahydrofuran	ND	ug/m3	1.9	1.25	02/09/10 17:46	CJR	109-99-9
THC as Gas	49500	ug/m3	110	1.25	02/09/10 17:46	CJR	
Toluene	3.49	ug/m3	2.5	1.25	02/09/10 17:46	CJR	108-88-3
trans-1,2-Dichloroethene	ND	ug/m3	4.8	1.25	02/09/10 17:46	CJR	156-60-5
trans-1,3-Dichloropropene	ND	ug/m3	3	1.25	02/09/10 17:46	CJR	10061-02-6
Trichloroethene	ND	ug/m3	3.6	1.25	02/09/10 17:46	CJR	79-01-6
Trichlorofluoromethane	ND	ug/m3	3.5	1.25	02/09/10 17:46	CJR	75-69-4
Vinyl acetate	ND	ug/m3	2.5	1.25	02/09/10 17:46	CJR	108-05-4
Vinyl chloride	ND	ug/m3	1.7	1.25	02/09/10 17:46	CJR	75-01-4
Xylene (Total)	ND	ug/m3	8.4	1.25	02/09/10 17:46	CJR	1330-20-7

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

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Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10121444
Project Name: 0506-117-11 Parkwater

PARAMETER FOOTNOTES

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March 01, 2010

Bruce Williams
GeoEngineers,Inc.
523 East Second Ave
Spokane, WA 99202

RE: Project: 0506-47-71 PARKWATER
Pace Project No.: 10122515

Dear Bruce Williams:
Enclosed are the analytical results for sample(s) received by the laboratory on February 17, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carol Davy

Carol Davy

carol.davy@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 0506-47-71 PARKWATER
Pace Project No.: 10122515

Minnesota Certification IDs
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: 0506-47-71 PARKWATER
Pace Project No.: 10122515

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10122515001	**VP-CI-021210**	Air	02/12/10 12:46	02/17/10 10:00

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SAMPLE ANALYTE COUNT

Project: 0506-47-71 PARKWATER
Pace Project No.: 10122515

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10122515001	**VP-CI-021210**	TO-15	LCW	65	PASI-M

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PROJECT NARRATIVE

Project: 0506-47-71 PARKWATER
Pace Project No.: 10122515

Method: TO-15
Description: TO15 MSV AIR
Client: GeoEngineers,Inc.
Date: March 01, 2010

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: AIR/9837

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 753422)
  - 1,2-Dichloroethane
  - 2-Propanol
  - Bromoform
  - Carbon tetrachloride

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 0506-47-71 PARKWATER
Pace Project No.: 10122515

Sample: VP-CI-021210 **Lab ID: 10122515001** Collected: 02/12/10 12:46 Received: 02/17/10 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,1-Trichloroethane	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	76-13-1	
1,1-Dichloroethane	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	75-34-3	
1,1-Dichloroethene	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	75-35-4	
1,2,4-Trichlorobenzene	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	120-82-1	
1,2,4-Trimethylbenzene	ND	ppbv	1.0	0.50	1.97		02/26/10 13:22	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	1.0	0.50	1.97		02/26/10 13:22	95-50-1	
1,2-Dichloroethane	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	107-06-2	
1,2-Dichloropropane	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	108-67-8	
1,3-Butadiene	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	106-99-0	
1,3-Dichlorobenzene	ND	ppbv	1.0	0.50	1.97		02/26/10 13:22	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	1.0	0.50	1.97		02/26/10 13:22	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	0.39	0.20	1.97		02/26/10 13:22	123-91-1	
2,2,4-Trimethylpentane	ND	ppbv	0.98	0.49	1.97		02/26/10 13:22	540-84-1	
2-Butanone (MEK)	ND	ppbv	1.1	0.54	1.97		02/26/10 13:22	78-93-3	
2-Hexanone	ND	ppbv	1.1	0.54	1.97		02/26/10 13:22	591-78-6	
2-Propanol	ND	ppbv	0.98	0.49	1.97		02/26/10 13:22	67-63-0	
4-Ethyltoluene	ND	ppbv	1.0	0.52	1.97		02/26/10 13:22	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	1.1	0.54	1.97		02/26/10 13:22	108-10-1	
Acetone	**5.0**	ppbv	1.1	0.54	1.97		02/26/10 13:22	67-64-1	
Benzene	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	71-43-2	
Bromodichloromethane	ND	ppbv	1.0	0.50	1.97		02/26/10 13:22	75-27-4	
Bromoform	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	75-25-2	
Bromomethane	ND	ppbv	1.0	0.50	1.97		02/26/10 13:22	74-83-9	
Carbon disulfide	ND	ppbv	0.98	0.49	1.97		02/26/10 13:22	75-15-0	
Carbon tetrachloride	ND	ppbv	1.0	0.50	1.97		02/26/10 13:22	56-23-5	
Chlorobenzene	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	108-90-7	
Chloroethane	ND	ppbv	1.0	0.50	1.97		02/26/10 13:22	75-00-3	
Chloroform	ND	ppbv	1.0	0.50	1.97		02/26/10 13:22	67-66-3	
Chloromethane	ND	ppbv	0.98	0.49	1.97		02/26/10 13:22	74-87-3	
Cyclohexane	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	110-82-7	
Dibromochloromethane	ND	ppbv	1.0	0.52	1.97		02/26/10 13:22	124-48-1	
Dichlorodifluoromethane	**1.6**	ppbv	1.0	0.50	1.97		02/26/10 13:22	75-71-8	
Dichlorotetrafluoroethane	ND	ppbv	1.1	0.56	1.97		02/26/10 13:22	76-14-2	
Ethanol	ND	ppbv	0.98	0.49	1.97		02/26/10 13:22	64-17-5	
Ethyl acetate	ND	ppbv	1.0	0.50	1.97		02/26/10 13:22	141-78-6	
Ethylbenzene	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.98	0.49	1.97		02/26/10 13:22	87-68-3	
Isopropylbenzene (Cumene)	ND	ppbv	0.98	0.49	1.97		02/26/10 13:22	98-82-8	
Methyl-tert-butyl ether	ND	ppbv	2.0	0.98	1.97		02/26/10 13:22	1634-04-4	
Methylene Chloride	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	75-09-2	
Naphthalene	ND	ppbv	0.98	0.49	1.97		02/26/10 13:22	91-20-3	

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ANALYTICAL RESULTS

Project: 0506-47-71 PARKWATER
Pace Project No.: 10122515

Sample: VP-CI-021210 **Lab ID: 10122515001** Collected: 02/12/10 12:46 Received: 02/17/10 10:00 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Propylene	**10.5**	ppbv	3.9	2.0	1.97		02/26/10 13:22	115-07-1	
Styrene	ND	ppbv	1.1	0.54	1.97		02/26/10 13:22	100-42-5	
THC as Gas	**1010**	ppbv	39.4	19.7	1.97		02/26/10 13:22		
Tetrachloroethene	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	127-18-4	
Tetrahydrofuran	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	109-99-9	
Toluene	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	108-88-3	
Trichloroethene	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	79-01-6	
Trichlorofluoromethane	ND	ppbv	0.98	0.49	1.97		02/26/10 13:22	75-69-4	
Vinyl acetate	ND	ppbv	1.1	0.54	1.97		02/26/10 13:22	108-05-4	
Vinyl chloride	ND	ppbv	1.0	0.50	1.97		02/26/10 13:22	75-01-4	
Xylene (Total)	ND	ppbv	3.0	1.5	1.97		02/26/10 13:22	1330-20-7	
cis-1,2-Dichloroethene	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	1.0	0.50	1.97		02/26/10 13:22	10061-01-5	
m&p-Xylene	ND	ppbv	2.0	0.98	1.97		02/26/10 13:22	1330-20-7	
n-Heptane	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	142-82-5	
n-Hexane	ND	ppbv	1.0	0.52	1.97		02/26/10 13:22	110-54-3	
o-Xylene	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	95-47-6	
trans-1,2-Dichloroethene	ND	ppbv	2.0	0.98	1.97		02/26/10 13:22	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	1.0	0.51	1.97		02/26/10 13:22	10061-02-6	

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QUALITY CONTROL DATA

Project: 0506-47-71 PARKWATER
Pace Project No.: 10122515

QC Batch: AIR/9837 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10122515001

METHOD BLANK: 753421 Matrix: Air
Associated Lab Samples: 10122515001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.52	02/26/10 10:32	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.52	02/26/10 10:32	
1,1,2-Trichloroethane	ppbv	ND	0.52	02/26/10 10:32	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.52	02/26/10 10:32	
1,1-Dichloroethane	ppbv	ND	0.52	02/26/10 10:32	
1,1-Dichloroethene	ppbv	ND	0.52	02/26/10 10:32	
1,2,4-Trichlorobenzene	ppbv	ND	0.52	02/26/10 10:32	
1,2,4-Trimethylbenzene	ppbv	ND	0.51	02/26/10 10:32	
1,2-Dibromoethane (EDB)	ppbv	ND	0.52	02/26/10 10:32	
1,2-Dichlorobenzene	ppbv	ND	0.51	02/26/10 10:32	
1,2-Dichloroethane	ppbv	ND	0.52	02/26/10 10:32	
1,2-Dichloropropane	ppbv	ND	0.52	02/26/10 10:32	
1,3,5-Trimethylbenzene	ppbv	ND	0.52	02/26/10 10:32	
1,3-Butadiene	ppbv	ND	0.52	02/26/10 10:32	
1,3-Dichlorobenzene	ppbv	ND	0.51	02/26/10 10:32	
1,4-Dichlorobenzene	ppbv	ND	0.51	02/26/10 10:32	
1,4-Dioxane (p-Dioxane)	ppbv	ND	0.20	02/26/10 10:32	
2,2,4-Trimethylpentane	ppbv	ND	0.50	02/26/10 10:32	
2-Butanone (MEK)	ppbv	ND	0.55	02/26/10 10:32	
2-Hexanone	ppbv	ND	0.55	02/26/10 10:32	
2-Propanol	ppbv	ND	0.50	02/26/10 10:32	
4-Ethyltoluene	ppbv	ND	0.53	02/26/10 10:32	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	0.55	02/26/10 10:32	
Acetone	ppbv	ND	0.55	02/26/10 10:32	
Benzene	ppbv	ND	0.52	02/26/10 10:32	
Bromodichloromethane	ppbv	ND	0.51	02/26/10 10:32	
Bromoform	ppbv	ND	0.52	02/26/10 10:32	
Bromomethane	ppbv	ND	0.51	02/26/10 10:32	
Carbon disulfide	ppbv	ND	0.50	02/26/10 10:32	
Carbon tetrachloride	ppbv	ND	0.51	02/26/10 10:32	
Chlorobenzene	ppbv	ND	0.52	02/26/10 10:32	
Chloroethane	ppbv	ND	0.51	02/26/10 10:32	
Chloroform	ppbv	ND	0.51	02/26/10 10:32	
Chloromethane	ppbv	ND	0.50	02/26/10 10:32	
cis-1,2-Dichloroethene	ppbv	ND	0.52	02/26/10 10:32	
cis-1,3-Dichloropropene	ppbv	ND	0.51	02/26/10 10:32	
Cyclohexane	ppbv	ND	0.52	02/26/10 10:32	
Dibromochloromethane	ppbv	ND	0.53	02/26/10 10:32	
Dichlorodifluoromethane	ppbv	ND	0.51	02/26/10 10:32	
Dichlorotetrafluoroethane	ppbv	ND	0.57	02/26/10 10:32	
Ethanol	ppbv	ND	0.50	02/26/10 10:32	
Ethyl acetate	ppbv	ND	0.51	02/26/10 10:32	
Ethylbenzene	ppbv	ND	0.52	02/26/10 10:32	

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QUALITY CONTROL DATA

Project: 0506-47-71 PARKWATER
Pace Project No.: 10122515

METHOD BLANK: 753421 Matrix: Air

Associated Lab Samples: 10122515001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ppbv	ND	0.50	02/26/10 10:32	
Isopropylbenzene (Cumene)	ppbv	ND	0.50	02/26/10 10:32	
m&p-Xylene	ppbv	ND	1.0	02/26/10 10:32	
Methyl-tert-butyl ether	ppbv	ND	1.0	02/26/10 10:32	
Methylene Chloride	ppbv	ND	0.52	02/26/10 10:32	
n-Heptane	ppbv	ND	0.52	02/26/10 10:32	
n-Hexane	ppbv	ND	0.53	02/26/10 10:32	
Naphthalene	ppbv	ND	0.50	02/26/10 10:32	
o-Xylene	ppbv	ND	0.52	02/26/10 10:32	
Propylene	ppbv	ND	2.0	02/26/10 10:32	
Styrene	ppbv	ND	0.55	02/26/10 10:32	
Tetrachloroethene	ppbv	ND	0.52	02/26/10 10:32	
Tetrahydrofuran	ppbv	ND	0.52	02/26/10 10:32	
THC as Gas	ppbv	ND	20.0	02/26/10 10:32	
Toluene	ppbv	ND	0.52	02/26/10 10:32	
trans-1,2-Dichloroethene	ppbv	ND	1.0	02/26/10 10:32	
trans-1,3-Dichloropropene	ppbv	ND	0.52	02/26/10 10:32	
Trichloroethene	ppbv	ND	0.52	02/26/10 10:32	
Trichlorofluoromethane	ppbv	ND	0.50	02/26/10 10:32	
Vinyl acetate	ppbv	ND	0.55	02/26/10 10:32	
Vinyl chloride	ppbv	ND	0.51	02/26/10 10:32	
Xylene (Total)	ppbv	ND	1.5	02/26/10 10:32	

LABORATORY CONTROL SAMPLE: 753422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10	12.2	122	60-125	
1,1,2,2-Tetrachloroethane	ppbv	10	11.6	116	57-127	
1,1,2-Trichloroethane	ppbv	10	11.3	113	56-125	
1,1,2-Trichlorotrifluoroethane	ppbv	10	10.6	106	52-133	
1,1-Dichloroethane	ppbv	10	10.9	109	54-127	
1,1-Dichloroethene	ppbv	10	11.6	116	52-129	
1,2,4-Trichlorobenzene	ppbv	10	16.4	164	30-150	CU
1,2,4-Trimethylbenzene	ppbv	10	12.6	126	52-145	
1,2-Dibromoethane (EDB)	ppbv	10	11.7	117	59-133	
1,2-Dichlorobenzene	ppbv	10	12.9	129	67-135	
1,2-Dichloroethane	ppbv	10	13.0	130	54-125	L3
1,2-Dichloropropane	ppbv	10	10.1	101	64-125	
1,3,5-Trimethylbenzene	ppbv	10	12.0	120	56-135	
1,3-Butadiene	ppbv	10	10.5	105	55-125	
1,3-Dichlorobenzene	ppbv	10	12.2	122	61-142	
1,4-Dichlorobenzene	ppbv	10	12.3	123	55-142	
1,4-Dioxane (p-Dioxane)	ppbv	10	10.1	101	70-130	
2,2,4-Trimethylpentane	ppbv	10	10.1	101	70-130	
2-Butanone (MEK)	ppbv	10	11.6	116	47-141	

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QUALITY CONTROL DATA

Project: 0506-47-71 PARKWATER
Pace Project No.: 10122515

LABORATORY CONTROL SAMPLE: 753422

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ppbv	10	11.9	119	41-138	
2-Propanol	ppbv	10	12.6	126	63-125	L3
4-Ethyltoluene	ppbv	10	12.8	128	62-130	
4-Methyl-2-pentanone (MIBK)	ppbv	10	12.4	124	53-134	
Acetone	ppbv	10	11.0	110	44-149	
Benzene	ppbv	10	10.1	101	61-126	
Bromodichloromethane	ppbv	10	12.2	122	54-129	
Bromoform	ppbv	10	12.8	128	56-125	L3
Bromomethane	ppbv	10	10.8	108	56-128	
Carbon disulfide	ppbv	10	10.1	101	58-150	
Carbon tetrachloride	ppbv	10	12.6	126	55-125	L3
Chlorobenzene	ppbv	10	10.7	107	48-138	
Chloroethane	ppbv	10	9.9	99	56-128	
Chloroform	ppbv	10	11.9	119	55-125	
Chloromethane	ppbv	10	10.5	105	50-131	
cis-1,2-Dichloroethene	ppbv	10	10.7	107	64-125	
cis-1,3-Dichloropropene	ppbv	10	11.4	114	61-132	
Cyclohexane	ppbv	10	10.2	102	61-130	
Dibromochloromethane	ppbv	10	12.1	121	51-129	
Dichlorodifluoromethane	ppbv	10	12.2	122	56-132	
Dichlorotetrafluoroethane	ppbv	10	11.2	112	48-125	
Ethanol	ppbv	10	10.1	101	70-130	
Ethyl acetate	ppbv	10	12.5	125	66-149	
Ethylbenzene	ppbv	10	11.4	114	56-137	
Hexachloro-1,3-butadiene	ppbv	10	20.5	205	30-150	CU
Isopropylbenzene (Cumene)	ppbv	10.4	11.6	112	67-134	
m&p-Xylene	ppbv	20	22.9	115	62-135	
Methyl-tert-butyl ether	ppbv	10	11.1	111	59-125	
Methylene Chloride	ppbv	10	12.1	121	46-143	
n-Heptane	ppbv	10	10.9	109	64-130	
n-Hexane	ppbv	10	9.2	92	61-134	
Naphthalene	ppbv	10	16.3	163	30-150	CU
o-Xylene	ppbv	10	11.8	118	61-134	
Propylene	ppbv	10	9.4	94	62-146	
Styrene	ppbv	10	12.4	124	63-134	
Tetrachloroethene	ppbv	10	12.9	129	61-132	
Tetrahydrofuran	ppbv	10	11.1	111	62-137	
THC as Gas	ppbv	700	599	86	61-125	
Toluene	ppbv	10	10.2	102	57-132	
trans-1,2-Dichloroethene	ppbv	10	10.9	109	52-130	
trans-1,3-Dichloropropene	ppbv	10	12.2	122	61-129	
Trichloroethene	ppbv	10	10.2	102	72-147	
Trichlorofluoromethane	ppbv	10	12.5	125	58-141	
Vinyl acetate	ppbv	10	12.9	129	56-131	
Vinyl chloride	ppbv	10	10.1	101	56-136	
Xylene (Total)	ppbv	30	34.7	116	70-130	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 0506-47-71 PARKWATER
Pace Project No.: 10122515

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

CU	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

February 25, 2010

Carol Davy
PACE ANALYTICAL
1700 Elm Street SE
Minneapolis, MN 55127-

Bureau Veritas Work Order No. 10020866

Reference: 0506-47-71 PARKWATER

Dear Carol Davy:

Bureau Veritas North America, Inc. received 1 sample on 2/18/2010 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

Karen Coonan

Karen Coonan
Client Services Representative

cc:

Bureau Veritas North America, Inc.
22345 Roethel Drive
Novi, MI 48375

Main: (248) 344.1770
Fax: (248) 344.2655
www.us.bureauveritas.com

CASE NARRATIVE

Date: *25-Feb-10*

Client: PACE ANALYTICAL

Project: 0506-47-71 PARKWATER

Work Order No 10020866

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

Please note that a field blank was not identified by the client for this sample set.

The following results have been converted from mg/m3 to ug/m3.
Sample -001A: THCs as Diesel = <1300 ug/m3

ANALYTICAL RESULTS

Date: *25-Feb-10*

Client: PACE ANALYTICAL

Project: 0506-47-71 PARKWATER **Work Order No:** 10020866

Sample Identification: VP-CI-021210

Lab Number: 001A **Date Sampled:** 2/12/2010

Sample Type Charcoal Tube **Date Received:** 2/18/2010

Analyst CCR **Air Volume (L):** 8

Analyte	Analytical Results (µg)	(mg/m³)	(ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
THCs as Diesel	<10	<1.3	--	10	NIOSH 1550	02/23/2010

14 of 17

General Notes:
<: Less than the indicated reporting limit (RL).
--: Information not available or not applicable.
Back sections (if applicable) were checked and showed no significant breakthrough unless otherwise noted.

Chain of Custody

10020866

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Workorder: 10122515 **Workorder Name:** 0506-47-71 PARKWATER **Results Requested** 3/2/2010

Report / Invoice To	Subcontract To
Carol Davy Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700 Email: carol.davy@pacelabs.com	Bureau Veritas P.O. 10122515

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: General	Requested Analysis: NIOSH 1550 Acid	LAB USE ONLY
1	VP-CI-021210	2/12/2010 12:46	10122515001	Air	1	X	
2							
3							
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time
1			[signature]	2/18/10 10:15
2				
3				
4				
5				

Comments

Volume of air 8.0L

10122515

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

01150 | Page: 1 of 1

16 of 17

Section A Required Client Information:

Company: GeoEngineers
Address: 523E 2nd Ave
Spokane WA 99202
Email To: bwilliams@geoengineers.com
Phone: 509-363-3125 Fax: 363-3126
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Bruce Williams
Copy To: Scott Lather
slather@geoengineers.com
Purchase Order No.:
Project Name: Parkwater
Project Number: 0506-117-11

Section C Invoice Information:

Attention: Bruce Sheppard
Company Name: BNSF
Address:
Pace Quote Reference: TTO10L-J02
Pace Project Manager/Sales Rep.
Pace Profile #:

Program
☐ UST ☐ Superfund ☑ Emmisions ☐ Clean Air Act
☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WA

Reporting Units: ug/m³ X mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II. X III. ___ IV. ___ Other ___

Section D Required Client Information

AIR SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	SAMPLE TYPE G=Grab C=Composite	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field)	Canister Pressure (Final Field)	Summa Can Number	Method: TO-3 BTEX+TPH(ppmv)	TO-3M PPMV MEE	3C Fixed Gas (%)	TO-14(a)s VOCs	TO-15 (SIM VOCs)	TO-15 Low Level	TO-13 (PAH)	TO-4 (PCBs)	PM10	Pace Lab ID
1	VP-CI-021210	6LC	C	2/12/10	1218	2/12/10	1246	26"	0"	0573					X					001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments:

Sorbent tube included for NIOSH 1550 Analysis

Volume of Air = 8.0 L

ORIGINAL

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Kevin Randall, GEI	2/12/10	1635	Pace	2/17/10	1000

SAMPLE CONDITIONS

AMB	Y/N	Y/N	Y/N	Temp in °C
	Y/N	Y/N	Y/N	Received on Ice
	Y/N	Y/N	Y/N	Custody Sealed Cooler
	Y/N	Y/N	Y/N	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kevin Randall

SIGNATURE of SAMPLER: Kevin Randall

DATE Signed (MM / DD / YY): 2/12/10

Pace Analytical

AIR Sample Condition Upon Receipt

Client Name: Geo Engineers Project # 10122515

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals Intact: ☐ yes ☑ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Tracking #: 1ZF64A0001945582 23

Comments:

Date and Initials of person examining contents: 7/14

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Media: air can/air stick		11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.

Samples Received:

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
VP-C1-0214	0573		46				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

Project Manager Review:_____ **Date:**_____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

Pace Analytical
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Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10122515
Project Name: 0506-47-71 PARKWATER

Lab Sample No: 10122515001
Client Sample ID: VP-CI-021210

ProjSampleNum: 10122515001
Matrix: Air

Date Collected: 02/12/10 12:46
Date Received: 02/17/10 10:00

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
1,1,1-Trichloroethane	ND	ug/m3	5.5	1.97	02/26/10 13:22 LCW	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/m3	7	1.97	02/26/10 13:22 LCW	79-34-5	
1,1,2-Trichloroethane	ND	ug/m3	5.5	1.97	02/26/10 13:22 LCW	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	7.8	1.97	02/26/10 13:22 LCW	76-13-1	
1,1-Dichloroethane	ND	ug/m3	4.1	1.97	02/26/10 13:22 LCW	75-34-3	
1,1-Dichloroethene	ND	ug/m3	4	1.97	02/26/10 13:22 LCW	75-35-4	
1,2,4-Trichlorobenzene	ND	ug/m3	7.5	1.97	02/26/10 13:22 LCW	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/m3	5	1.97	02/26/10 13:22 LCW	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/m3	7.8	1.97	02/26/10 13:22 LCW	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	6.1	1.97	02/26/10 13:22 LCW	95-50-1	
1,2-Dichloroethane	ND	ug/m3	4.1	1.97	02/26/10 13:22 LCW	107-06-2	
1,2-Dichloropropane	ND	ug/m3	4.7	1.97	02/26/10 13:22 LCW	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/m3	5	1.97	02/26/10 13:22 LCW	108-67-8	
1,3-Butadiene	ND	ug/m3	2.2	1.97	02/26/10 13:22 LCW	106-99-0	
1,3-Dichlorobenzene	ND	ug/m3	6.1	1.97	02/26/10 13:22 LCW	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	6.1	1.97	02/26/10 13:22 LCW	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	1.4	1.97	02/26/10 13:22 LCW	123-91-1	
2,2,4-Trimethylpentane	ND	ug/m3	4.7	1.97	02/26/10 13:22 LCW	540-84-1	
2-Butanone (MEK)	ND	ug/m3	3.3	1.97	02/26/10 13:22 LCW	78-93-3	
2-Hexanone	ND	ug/m3	4.6	1.97	02/26/10 13:22 LCW	591-78-6	
2-Propanol	ND	ug/m3	2.4	1.97	02/26/10 13:22 LCW	67-63-0	
4-Ethyltoluene	ND	ug/m3	5	1.97	02/26/10 13:22 LCW	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	4.6	1.97	02/26/10 13:22 LCW	108-10-1	
Acetone	12.1	ug/m3	2.7	1.97	02/26/10 13:22 LCW	67-64-1	
Benzene	ND	ug/m3	3.2	1.97	02/26/10 13:22 LCW	71-43-2	
Bromodichloromethane	ND	ug/m3	6.8	1.97	02/26/10 13:22 LCW	75-27-4	
Bromoform	ND	ug/m3	11	1.97	02/26/10 13:22 LCW	75-25-2	
Bromomethane	ND	ug/m3	3.9	1.97	02/26/10 13:22 LCW	74-83-9	
Carbon disulfide	ND	ug/m3	3.1	1.97	02/26/10 13:22 LCW	75-15-0	
Carbon tetrachloride	ND	ug/m3	6.4	1.97	02/26/10 13:22 LCW	56-23-5	
Chlorobenzene	ND	ug/m3	4.7	1.97	02/26/10 13:22 LCW	108-90-7	
Chloroethane	ND	ug/m3	2.7	1.97	02/26/10 13:22 LCW	75-00-3	
Chloroform	ND	ug/m3	5	1.97	02/26/10 13:22 LCW	67-66-3	
Chloromethane	ND	ug/m3	2.1	1.97	02/26/10 13:22 LCW	74-87-3	
cis-1,2-Dichloroethene	ND	ug/m3	4	1.97	02/26/10 13:22 LCW	156-59-2	
cis-1,3-Dichloropropene	ND	ug/m3	4.6	1.97	02/26/10 13:22 LCW	10061-01-5	
Cyclohexane	ND	ug/m3	3.5	1.97	02/26/10 13:22 LCW	110-82-7	
Dibromochloromethane	ND	ug/m3	8.7	1.97	02/26/10 13:22 LCW	124-48-1	

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10122515
Project Name: 0506-47-71 PARKWATER

Dichlorodifluoromethane	8.04	ug/m3	5	1.97	02/26/10 13:22 LCW	75-71-8
Dichlorotetrafluoroethane	ND	ug/m3	7.8	1.97	02/26/10 13:22 LCW	76-14-2
Ethanol	ND	ug/m3	1.9	1.97	02/26/10 13:22 LCW	64-17-5
Ethyl acetate	ND	ug/m3	3.7	1.97	02/26/10 13:22 LCW	141-78-6
Ethylbenzene	ND	ug/m3	4.4	1.97	02/26/10 13:22 LCW	100-41-4
Hexachloro-1,3-butadiene	ND	ug/m3	11	1.97	02/26/10 13:22 LCW	87-68-3
Isopropylbenzene (Cumene)	ND	ug/m3	4.9	1.97	02/26/10 13:22 LCW	98-82-8
m&p-Xylene	ND	ug/m3	8.8	1.97	02/26/10 13:22 LCW	1330-20-7
Methylene Chloride	ND	ug/m3	3.5	1.97	02/26/10 13:22 LCW	75-09-2
Methyl-tert-butyl ether	ND	ug/m3	7.3	1.97	02/26/10 13:22 LCW	1634-04-4
Naphthalene	ND	ug/m3	5.2	1.97	02/26/10 13:22 LCW	91-20-3
n-Heptane	ND	ug/m3	4.2	1.97	02/26/10 13:22 LCW	142-82-5
n-Hexane	ND	ug/m3	3.6	1.97	02/26/10 13:22 LCW	110-54-3
o-Xylene	ND	ug/m3	4.4	1.97	02/26/10 13:22 LCW	95-47-6
Propylene	18.4	ug/m3	6.8	1.97	02/26/10 13:22 LCW	115-07-1
Styrene	ND	ug/m3	4.8	1.97	02/26/10 13:22 LCW	100-42-5
Tetrachloroethene	ND	ug/m3	6.9	1.97	02/26/10 13:22 LCW	127-18-4
Tetrahydrofuran	ND	ug/m3	3	1.97	02/26/10 13:22 LCW	109-99-9
THC as Gas	4380	ug/m3	170	1.97	02/26/10 13:22 LCW	
Toluene	ND	ug/m3	3.8	1.97	02/26/10 13:22 LCW	108-88-3
trans-1,2-Dichloroethene	ND	ug/m3	8.1	1.97	02/26/10 13:22 LCW	156-60-5
trans-1,3-Dichloropropene	ND	ug/m3	4.6	1.97	02/26/10 13:22 LCW	10061-02-6
Trichloroethene	ND	ug/m3	5.5	1.97	02/26/10 13:22 LCW	79-01-6
Trichlorofluoromethane	ND	ug/m3	5.6	1.97	02/26/10 13:22 LCW	75-69-4
Vinyl acetate	ND	ug/m3	3.9	1.97	02/26/10 13:22 LCW	108-05-4
Vinyl chloride	ND	ug/m3	2.6	1.97	02/26/10 13:22 LCW	75-01-4
Xylene (Total)	ND	ug/m3	13	1.97	02/26/10 13:22 LCW	1330-20-7

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10122515
Project Name: 0506-47-71 PARKWATER

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT
Units Conversion Request

Pace Analytical®
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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 17, 2010

Bruce Williams
GeoEngineers,Inc.
523 East Second Ave
Spokane, WA 99202

RE: Project: 0506-117-11 Parkwater
Pace Project No.: 10123333

Dear Bruce Williams:
Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carol Davy

carol.davy@pacelabs.com
Project Manager

Enclosures

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 0506-117-11 Parkwater
Pace Project No.: 10123333

Minnesota Certification IDs
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 0506-117-11 Parkwater
Pace Project No.: 10123333

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10123333001	**VP-CI-022610**	Air	02/26/10 12:22	03/02/10 09:50

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 0506-117-11 Parkwater
Pace Project No.: 10123333

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10123333001	**VP-CI-022610**	TO-15	CJR	65	PASI-M

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PROJECT NARRATIVE

Project: 0506-117-11 Parkwater
Pace Project No.: 10123333

Method: **TO-15**
Description: TO15 MSV AIR
Client: GeoEngineers,Inc.
Date: March 17, 2010

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: AIR/9903

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 759409)
  - 1,2,4-Trichlorobenzene
  - Hexachloro-1,3-butadiene
  - Naphthalene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 0506-117-11 Parkwater
Pace Project No.: 10123333

Sample: VP-CI-022610 **Lab ID: 10123333001** Collected: 02/26/10 12:22 Received: 03/02/10 09:50 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,1-Trichloroethane	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	76-13-1	
1,1-Dichloroethane	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	75-34-3	
1,1-Dichloroethene	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	75-35-4	
1,2,4-Trichlorobenzene	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	120-82-1	
1,2,4-Trimethylbenzene	ND	ppbv	6.8	3.4	13.4		03/15/10 19:54	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	6.8	3.4	13.4		03/15/10 19:54	95-50-1	
1,2-Dichloroethane	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	107-06-2	
1,2-Dichloropropane	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	108-67-8	
1,3-Butadiene	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	106-99-0	
1,3-Dichlorobenzene	ND	ppbv	6.8	3.4	13.4		03/15/10 19:54	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	6.8	3.4	13.4		03/15/10 19:54	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	1.3	0.67	13.4		03/15/10 19:54	123-91-1	
2,2,4-Trimethylpentane	ND	ppbv	6.7	3.4	13.4		03/15/10 19:54	540-84-1	
2-Butanone (MEK)	ND	ppbv	7.4	3.7	13.4		03/15/10 19:54	78-93-3	
2-Hexanone	ND	ppbv	7.4	3.7	13.4		03/15/10 19:54	591-78-6	
2-Propanol	ND	ppbv	6.7	3.4	13.4		03/15/10 19:54	67-63-0	
4-Ethyltoluene	ND	ppbv	7.1	3.6	13.4		03/15/10 19:54	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	7.4	3.7	13.4		03/15/10 19:54	108-10-1	
Acetone	**12.3**	ppbv	7.4	3.7	13.4		03/15/10 19:54	67-64-1	
Benzene	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	71-43-2	
Bromodichloromethane	ND	ppbv	6.8	3.4	13.4		03/15/10 19:54	75-27-4	
Bromoform	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	75-25-2	
Bromomethane	ND	ppbv	6.8	3.4	13.4		03/15/10 19:54	74-83-9	
Carbon disulfide	ND	ppbv	6.7	3.4	13.4		03/15/10 19:54	75-15-0	
Carbon tetrachloride	ND	ppbv	6.8	3.4	13.4		03/15/10 19:54	56-23-5	
Chlorobenzene	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	108-90-7	
Chloroethane	ND	ppbv	6.8	3.4	13.4		03/15/10 19:54	75-00-3	
Chloroform	ND	ppbv	6.8	3.4	13.4		03/15/10 19:54	67-66-3	
Chloromethane	ND	ppbv	6.7	3.4	13.4		03/15/10 19:54	74-87-3	
Cyclohexane	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	110-82-7	
Dibromochloromethane	ND	ppbv	7.1	3.6	13.4		03/15/10 19:54	124-48-1	
Dichlorodifluoromethane	ND	ppbv	6.8	3.4	13.4		03/15/10 19:54	75-71-8	
Dichlorotetrafluoroethane	ND	ppbv	7.6	3.8	13.4		03/15/10 19:54	76-14-2	
Ethanol	ND	ppbv	6.7	3.4	13.4		03/15/10 19:54	64-17-5	
Ethyl acetate	ND	ppbv	6.8	3.4	13.4		03/15/10 19:54	141-78-6	
Ethylbenzene	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	6.7	3.4	13.4		03/15/10 19:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ppbv	6.7	3.4	13.4		03/15/10 19:54	98-82-8	
Methyl-tert-butyl ether	ND	ppbv	13.4	6.7	13.4		03/15/10 19:54	1634-04-4	
Methylene Chloride	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	75-09-2	
Naphthalene	ND	ppbv	6.7	3.4	13.4		03/15/10 19:54	91-20-3	

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ANALYTICAL RESULTS

Project: 0506-117-11 Parkwater
Pace Project No.: 10123333

Sample: VP-CI-022610 **Lab ID: 10123333001** Collected: 02/26/10 12:22 Received: 03/02/10 09:50 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Propylene	ND	ppbv	26.8	13.4	13.4		03/15/10 19:54	115-07-1	
Styrene	ND	ppbv	7.4	3.7	13.4		03/15/10 19:54	100-42-5	
THC as Gas	**3770**	ppbv	268	134	13.4		03/15/10 19:54		
Tetrachloroethene	**45.1**	ppbv	7.0	3.5	13.4		03/15/10 19:54	127-18-4	
Tetrahydrofuran	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	109-99-9	
Toluene	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	108-88-3	
Trichloroethene	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	79-01-6	
Trichlorofluoromethane	ND	ppbv	6.7	3.4	13.4		03/15/10 19:54	75-69-4	
Vinyl acetate	ND	ppbv	7.4	3.7	13.4		03/15/10 19:54	108-05-4	
Vinyl chloride	ND	ppbv	6.8	3.4	13.4		03/15/10 19:54	75-01-4	
Xylene (Total)	ND	ppbv	20.1	10.0	13.4		03/15/10 19:54	1330-20-7	
cis-1,2-Dichloroethene	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	6.8	3.4	13.4		03/15/10 19:54	10061-01-5	
m&p-Xylene	ND	ppbv	13.4	6.7	13.4		03/15/10 19:54	1330-20-7	
n-Heptane	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	142-82-5	
n-Hexane	ND	ppbv	7.1	3.6	13.4		03/15/10 19:54	110-54-3	
o-Xylene	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	95-47-6	
trans-1,2-Dichloroethene	ND	ppbv	13.4	6.7	13.4		03/15/10 19:54	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	7.0	3.5	13.4		03/15/10 19:54	10061-02-6	

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QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10123333

QC Batch: AIR/9903 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10123333001

METHOD BLANK: 759408 Matrix: Air
Associated Lab Samples: 10123333001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.52	03/15/10 13:36	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.52	03/15/10 13:36	
1,1,2-Trichloroethane	ppbv	ND	0.52	03/15/10 13:36	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.52	03/15/10 13:36	
1,1-Dichloroethane	ppbv	ND	0.52	03/15/10 13:36	
1,1-Dichloroethene	ppbv	ND	0.52	03/15/10 13:36	
1,2,4-Trichlorobenzene	ppbv	ND	0.52	03/15/10 13:36	
1,2,4-Trimethylbenzene	ppbv	ND	0.51	03/15/10 13:36	
1,2-Dibromoethane (EDB)	ppbv	ND	0.52	03/15/10 13:36	
1,2-Dichlorobenzene	ppbv	ND	0.51	03/15/10 13:36	
1,2-Dichloroethane	ppbv	ND	0.52	03/15/10 13:36	
1,2-Dichloropropane	ppbv	ND	0.52	03/15/10 13:36	
1,3,5-Trimethylbenzene	ppbv	ND	0.52	03/15/10 13:36	
1,3-Butadiene	ppbv	ND	0.52	03/15/10 13:36	
1,3-Dichlorobenzene	ppbv	ND	0.51	03/15/10 13:36	
1,4-Dichlorobenzene	ppbv	ND	0.51	03/15/10 13:36	
1,4-Dioxane (p-Dioxane)	ppbv	ND	0.10	03/15/10 13:36	
2,2,4-Trimethylpentane	ppbv	ND	0.50	03/15/10 13:36	
2-Butanone (MEK)	ppbv	ND	0.55	03/15/10 13:36	
2-Hexanone	ppbv	ND	0.55	03/15/10 13:36	
2-Propanol	ppbv	ND	0.50	03/15/10 13:36	
4-Ethyltoluene	ppbv	ND	0.53	03/15/10 13:36	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	0.55	03/15/10 13:36	
Acetone	ppbv	ND	0.55	03/15/10 13:36	
Benzene	ppbv	ND	0.52	03/15/10 13:36	
Bromodichloromethane	ppbv	ND	0.51	03/15/10 13:36	
Bromoform	ppbv	ND	0.52	03/15/10 13:36	
Bromomethane	ppbv	ND	0.51	03/15/10 13:36	
Carbon disulfide	ppbv	ND	0.50	03/15/10 13:36	
Carbon tetrachloride	ppbv	ND	0.51	03/15/10 13:36	
Chlorobenzene	ppbv	ND	0.52	03/15/10 13:36	
Chloroethane	ppbv	ND	0.51	03/15/10 13:36	
Chloroform	ppbv	ND	0.51	03/15/10 13:36	
Chloromethane	ppbv	ND	0.50	03/15/10 13:36	
cis-1,2-Dichloroethene	ppbv	ND	0.52	03/15/10 13:36	
cis-1,3-Dichloropropene	ppbv	ND	0.51	03/15/10 13:36	
Cyclohexane	ppbv	ND	0.52	03/15/10 13:36	
Dibromochloromethane	ppbv	ND	0.53	03/15/10 13:36	
Dichlorodifluoromethane	ppbv	ND	0.51	03/15/10 13:36	
Dichlorotetrafluoroethane	ppbv	ND	0.57	03/15/10 13:36	
Ethanol	ppbv	ND	0.50	03/15/10 13:36	
Ethyl acetate	ppbv	ND	0.51	03/15/10 13:36	
Ethylbenzene	ppbv	ND	0.52	03/15/10 13:36	

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QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10123333

METHOD BLANK: 759408 Matrix: Air

Associated Lab Samples: 10123333001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ppbv	ND	0.50	03/15/10 13:36	
Isopropylbenzene (Cumene)	ppbv	ND	0.50	03/15/10 13:36	
m&p-Xylene	ppbv	ND	1.0	03/15/10 13:36	
Methyl-tert-butyl ether	ppbv	ND	1.0	03/15/10 13:36	
Methylene Chloride	ppbv	ND	0.52	03/15/10 13:36	
n-Heptane	ppbv	ND	0.52	03/15/10 13:36	
n-Hexane	ppbv	ND	0.53	03/15/10 13:36	
Naphthalene	ppbv	ND	0.50	03/15/10 13:36	
o-Xylene	ppbv	ND	0.52	03/15/10 13:36	
Propylene	ppbv	ND	2.0	03/15/10 13:36	
Styrene	ppbv	ND	0.55	03/15/10 13:36	
Tetrachloroethene	ppbv	ND	0.52	03/15/10 13:36	
Tetrahydrofuran	ppbv	ND	0.52	03/15/10 13:36	
THC as Gas	ppbv	ND	20.0	03/15/10 13:36	
Toluene	ppbv	ND	0.52	03/15/10 13:36	
trans-1,2-Dichloroethene	ppbv	ND	1.0	03/15/10 13:36	
trans-1,3-Dichloropropene	ppbv	ND	0.52	03/15/10 13:36	
Trichloroethene	ppbv	ND	0.52	03/15/10 13:36	
Trichlorofluoromethane	ppbv	ND	0.50	03/15/10 13:36	
Vinyl acetate	ppbv	ND	0.55	03/15/10 13:36	
Vinyl chloride	ppbv	ND	0.51	03/15/10 13:36	
Xylene (Total)	ppbv	ND	1.5	03/15/10 13:36	

LABORATORY CONTROL SAMPLE: 759409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10	9.2	92	60-125	
1,1,2,2-Tetrachloroethane	ppbv	10	9.4	94	57-127	
1,1,2-Trichloroethane	ppbv	10	9.4	94	56-125	
1,1,2-Trichlorotrifluoroethane	ppbv	10	9.9	99	52-133	
1,1-Dichloroethane	ppbv	10	10.0	100	54-127	
1,1-Dichloroethene	ppbv	10	10.1	101	52-129	
1,2,4-Trichlorobenzene	ppbv	10	26.9	269	30-150	L3
1,2,4-Trimethylbenzene	ppbv	10	9.0	90	52-145	
1,2-Dibromoethane (EDB)	ppbv	10	9.2	92	59-133	
1,2-Dichlorobenzene	ppbv	10	9.2	92	67-135	
1,2-Dichloroethane	ppbv	10	9.6	96	54-125	
1,2-Dichloropropane	ppbv	10	9.2	92	64-125	
1,3,5-Trimethylbenzene	ppbv	10	9.1	91	56-135	
1,3-Butadiene	ppbv	10	10.0	100	55-125	
1,3-Dichlorobenzene	ppbv	10	9.1	91	61-142	
1,4-Dichlorobenzene	ppbv	10	9.2	92	55-142	
1,4-Dioxane (p-Dioxane)	ppbv	10	9.5	95	70-130	
2,2,4-Trimethylpentane	ppbv	10	9.5	95	70-130	
2-Butanone (MEK)	ppbv	10	9.7	97	47-141	

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QUALITY CONTROL DATA

Project: 0506-117-11 Parkwater
Pace Project No.: 10123333

LABORATORY CONTROL SAMPLE: 759409

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ppbv	10	9.5	95	41-138	
2-Propanol	ppbv	10	10.5	105	63-125	
4-Ethyltoluene	ppbv	10	9.2	92	62-130	
4-Methyl-2-pentanone (MIBK)	ppbv	10	9.6	96	53-134	
Acetone	ppbv	10	10.3	103	44-149	
Benzene	ppbv	10	9.5	95	61-126	
Bromodichloromethane	ppbv	10	9.4	94	54-129	
Bromoform	ppbv	10	9.1	91	56-125	
Bromomethane	ppbv	10	9.6	96	56-128	
Carbon disulfide	ppbv	10	10.0	100	58-150	
Carbon tetrachloride	ppbv	10	9.3	93	55-125	
Chlorobenzene	ppbv	10	9.1	91	48-138	
Chloroethane	ppbv	10	9.9	99	56-128	
Chloroform	ppbv	10	10.1	101	55-125	
Chloromethane	ppbv	10	10.3	103	50-131	
cis-1,2-Dichloroethene	ppbv	10	10.0	100	64-125	
cis-1,3-Dichloropropene	ppbv	10	9.2	92	61-132	
Cyclohexane	ppbv	10	10	100	61-130	
Dibromochloromethane	ppbv	10	9.1	91	51-129	
Dichlorodifluoromethane	ppbv	10	9.5	95	56-132	
Dichlorotetrafluoroethane	ppbv	10	10.0	100	48-125	
Ethanol	ppbv	10	10.5	105	70-130	
Ethyl acetate	ppbv	10	10.3	103	66-149	
Ethylbenzene	ppbv	10	9.2	92	56-137	
Hexachloro-1,3-butadiene	ppbv	10	35.3	353	30-150	L3
Isopropylbenzene (Cumene)	ppbv	10.4	9.3	89	67-134	
m&p-Xylene	ppbv	20	18.5	92	62-135	
Methyl-tert-butyl ether	ppbv	10	9.0	90	59-125	
Methylene Chloride	ppbv	10	10.2	102	46-143	
n-Heptane	ppbv	10	9.6	96	64-130	
n-Hexane	ppbv	10	9.9	99	61-134	
Naphthalene	ppbv	10	30.0	300	30-150	L3
o-Xylene	ppbv	10	9.2	92	61-134	
Propylene	ppbv	10	9.6	96	62-146	
Styrene	ppbv	10	9.2	92	63-134	
Tetrachloroethene	ppbv	10	9.0	90	61-132	
Tetrahydrofuran	ppbv	10	9.6	96	62-137	
THC as Gas	ppbv	700	685	98	61-125	
Toluene	ppbv	10	9.3	93	57-132	
trans-1,2-Dichloroethene	ppbv	10	9.9	99	52-130	
trans-1,3-Dichloropropene	ppbv	10	9.2	92	61-129	
Trichloroethene	ppbv	10	9.1	91	72-147	
Trichlorofluoromethane	ppbv	10	9.9	99	58-141	
Vinyl acetate	ppbv	10	9.8	98	56-131	
Vinyl chloride	ppbv	10	9.9	99	56-136	
Xylene (Total)	ppbv	30	27.7	92	70-130	

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QUALIFIERS

Project: 0506-117-11 Parkwater
Pace Project No.: 10123333

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

March 10, 2010

Carol Davy
PACE ANALYTICAL
1700 Elm Street SE
Minneapolis, MN 55127-

Bureau Veritas Work Order No. 10030189

Reference: 0506-117-11 PARKWATER

Dear Carol Davy:

Bureau Veritas North America, Inc. received 1 sample on 3/3/2010 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

Karen Coonan
Client Services Representative

cc:

Bureau Veritas North America, Inc.
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Main: (248) 344.1770
Fax: (248) 344.2655
www.us.bureauveritas.com

CASE NARRATIVE

Date: *10-Mar-10*

Client: PACE ANALYTICAL

Project: 0506-117-11 PARKWATER

Work Order No 10030189

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

Please note that a field blank was not identified by the client for this sample set.

The following results have been converted from mg/m3 to ug/m3.
Sample -001A: THCs as Diesel = 1300 ug/m3

ANALYTICAL RESULTS

Date: *10-Mar-10*

Client: PACE ANALYTICAL

Project: 0506-117-11 PARKWATER

Work Order No: 10030189

Sample Identification: PWEFF-022610

Lab Number: 001A

Date Sampled: 2/26/2010

Sample Type Charcoal Tube

Date Received: 3/3/2010

Analyst CCR

Air Volume (L): 8

Analyte	Analytical Results (µg)	Analytical Results (mg/m³)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
THCs as Diesel	<10	<1.3	--	10	NIOSH 1550	03/05/2010

14 of 17

General Notes:
<: Less than the indicated reporting limit (RL).
--: Information not available or not applicable.
Back sections (if applicable) were checked and showed no significant breakthrough unless otherwise noted.

10030184

Chain of Custody

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Workorder: 10123333 **Workorder Name:** 0506-117-11 Parkwater **Results Requested** 3/15/2010

Report / Invoice To	Subcontract To
Carol Davy Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700 Email: carol.davy@pacelabs.com	Bureau Veritas P.O. 10123333

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: General	Requested Analysis: NIOSH 1550 Diesel	LAB USE ONLY
1	PWEFF-022610	2/26/2010 12:22	10123333001	Air	1	X	
2							
3							
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time
1	Carol Davy / Pace MN	3/2/10 1430		
2				
3				
4				
5				

Comments

Volume of air = 8.00L

C. Slaughter
3/3/10
1039

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10123333

01230 | Page: 1 of 1

Section A Required Client Information:
Company: GeoEngineers
Address: 523 E 2nd Ave
Spokane WA 99202
Email To: bwilliams@geoengineers.com
Phone: 509-363-3125 Fax: 509-363-3126
Requested Due Date/TAT:

Section B Required Project Information:
Report To: Bruce Williams
Copy To: Scott Lathen
slathen@geoengineers.com
Purchase Order No.:
Project Name: ParkWater
Project Number: 0506-117-11

Section C Invoice Information:
Attention: Bruce Sheppard
Company Name: BNSF
Address:
Pace Quote Reference: TT0101-J02
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☒ Emmisions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WA

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level: II. X III. IV. Other

Section D Required Client Information

AIR SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	SAMPLE TYPE G=Grab C=Composite	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE - END/GRAB DATE	COLLECTED COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field)	Canister Pressure (Final Field)	Summa Can Number	Method: TO-3 BTEX+TPH(ppmv)	TO-3M PPMV MEE	3C- Fixed Gas (%)	TO-14(or VOCs)	TO-15 (or VOCs)	TO-15 Low Level	TO-13 (PAH)	TO-4 (PCBs)	PM10	NIOSH 1550	Pace Lab ID
1	PWEff-022610	6LC	C	2/26/10	1146	2/26/10	1222	>30"	6"	0571					X					X	10123333001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Additional Comments:

Sorbent tube included for NIOSH 1550 analysis. Volume of air = 8.00 L

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Kevin Randall / GEI	3/1/10	1200		3-2-10	0950

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
NA	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Kevin Randall
SIGNATURE of SAMPLER: Kevin Randall
DATE Signed (MM / DD / YY): 3/1/10

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

Pace Analytical

AIR Sample Condition Upon Receipt

Client Name: GEOENGINEERS Project # 10123333

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other ____

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

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☒ Other ____

Optional
Proj. Due Date:
Proj. Name:

Tracking #: 8703 4380 2821

Date and Initials of person examining contents: 3-2-10 K

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Media: AIR (CAN, CHARCOAL TUBE)		11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
Samples Received: 1 CAN, 1 FC, 1 CHARCOAL TUBE		

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
PWEFF	0571		608				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: ____ Date/Time: ____

Comments/ Resolution: ____

Project Manager Review: ____ Date: 3-2-10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

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Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10123333
Project Name: 0506-117-11 Parkwater

Lab Sample No: 10123333001
Client Sample ID: VP-CI-022610

ProjSampleNum: 10123333001
Matrix: Air

Date Collected: 02/26/10 12:22
Date Received: 03/02/10 9:50

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
Air							
TO-15							
1,1,1-Trichloroethane	ND	ug/m3	39	13.4	03/15/10 19:54 CJR	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/m3	49	13.4	03/15/10 19:54 CJR	79-34-5	
1,1,2-Trichloroethane	ND	ug/m3	39	13.4	03/15/10 19:54 CJR	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	55	13.4	03/15/10 19:54 CJR	76-13-1	
1,1-Dichloroethane	ND	ug/m3	29	13.4	03/15/10 19:54 CJR	75-34-3	
1,1-Dichloroethene	ND	ug/m3	28	13.4	03/15/10 19:54 CJR	75-35-4	
1,2,4-Trichlorobenzene	ND	ug/m3	53	13.4	03/15/10 19:54 CJR	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/m3	34	13.4	03/15/10 19:54 CJR	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/m3	55	13.4	03/15/10 19:54 CJR	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	42	13.4	03/15/10 19:54 CJR	95-50-1	
1,2-Dichloroethane	ND	ug/m3	29	13.4	03/15/10 19:54 CJR	107-06-2	
1,2-Dichloropropane	ND	ug/m3	33	13.4	03/15/10 19:54 CJR	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/m3	35	13.4	03/15/10 19:54 CJR	108-67-8	
1,3-Butadiene	ND	ug/m3	16	13.4	03/15/10 19:54 CJR	106-99-0	
1,3-Dichlorobenzene	ND	ug/m3	42	13.4	03/15/10 19:54 CJR	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	42	13.4	03/15/10 19:54 CJR	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	4.8	13.4	03/15/10 19:54 CJR	123-91-1	
2,2,4-Trimethylpentane	ND	ug/m3	32	13.4	03/15/10 19:54 CJR	540-84-1	
2-Butanone (MEK)	ND	ug/m3	22	13.4	03/15/10 19:54 CJR	78-93-3	
2-Hexanone	ND	ug/m3	31	13.4	03/15/10 19:54 CJR	591-78-6	
2-Propanol	ND	ug/m3	17	13.4	03/15/10 19:54 CJR	67-63-0	
4-Ethyltoluene	ND	ug/m3	35	13.4	03/15/10 19:54 CJR	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	31	13.4	03/15/10 19:54 CJR	108-10-1	
Acetone	29.7	ug/m3	18	13.4	03/15/10 19:54 CJR	67-64-1	
Benzene	ND	ug/m3	23	13.4	03/15/10 19:54 CJR	71-43-2	
Bromodichloromethane	ND	ug/m3	46	13.4	03/15/10 19:54 CJR	75-27-4	
Bromoform	ND	ug/m3	74	13.4	03/15/10 19:54 CJR	75-25-2	
Bromomethane	ND	ug/m3	27	13.4	03/15/10 19:54 CJR	74-83-9	
Carbon disulfide	ND	ug/m3	21	13.4	03/15/10 19:54 CJR	75-15-0	
Carbon tetrachloride	ND	ug/m3	43	13.4	03/15/10 19:54 CJR	56-23-5	
Chlorobenzene	ND	ug/m3	33	13.4	03/15/10 19:54 CJR	108-90-7	
Chloroethane	ND	ug/m3	18	13.4	03/15/10 19:54 CJR	75-00-3	
Chloroform	ND	ug/m3	34	13.4	03/15/10 19:54 CJR	67-66-3	
Chloromethane	ND	ug/m3	14	13.4	03/15/10 19:54 CJR	74-87-3	
cis-1,2-Dichloroethene	ND	ug/m3	28	13.4	03/15/10 19:54 CJR	156-59-2	
cis-1,3-Dichloropropene	ND	ug/m3	31	13.4	03/15/10 19:54 CJR	10061-01-5	
Cyclohexane	ND	ug/m3	24	13.4	03/15/10 19:54 CJR	110-82-7	
Dibromochloromethane	ND	ug/m3	61	13.4	03/15/10 19:54 CJR	124-48-1	

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10123333
Project Name: 0506-117-11 Parkwater

Dichlorodifluoromethane	ND	ug/m3	34	13.4	03/15/10 19:54	CJR	75-71-8
Dichlorotetrafluoroethane	ND	ug/m3	54	13.4	03/15/10 19:54	CJR	76-14-2
Ethanol	ND	ug/m3	13	13.4	03/15/10 19:54	CJR	64-17-5
Ethyl acetate	ND	ug/m3	25	13.4	03/15/10 19:54	CJR	141-78-6
Ethylbenzene	ND	ug/m3	31	13.4	03/15/10 19:54	CJR	100-41-4
Hexachloro-1,3-butadiene	ND	ug/m3	73	13.4	03/15/10 19:54	CJR	87-68-3
Isopropylbenzene (Cumene)	ND	ug/m3	33	13.4	03/15/10 19:54	CJR	98-82-8
m&p-Xylene	ND	ug/m3	59	13.4	03/15/10 19:54	CJR	1330-20-7
Methylene Chloride	ND	ug/m3	25	13.4	03/15/10 19:54	CJR	75-09-2
Methyl-tert-butyl ether	ND	ug/m3	49	13.4	03/15/10 19:54	CJR	1634-04-4
Naphthalene	ND	ug/m3	36	13.4	03/15/10 19:54	CJR	91-20-3
n-Heptane	ND	ug/m3	29	13.4	03/15/10 19:54	CJR	142-82-5
n-Hexane	ND	ug/m3	25	13.4	03/15/10 19:54	CJR	110-54-3
o-Xylene	ND	ug/m3	31	13.4	03/15/10 19:54	CJR	95-47-6
Propylene	ND	ug/m3	47	13.4	03/15/10 19:54	CJR	115-07-1
Styrene	ND	ug/m3	32	13.4	03/15/10 19:54	CJR	100-42-5
Tetrachloroethene	311	ug/m3	48	13.4	03/15/10 19:54	CJR	127-18-4
Tetrahydrofuran	ND	ug/m3	21	13.4	03/15/10 19:54	CJR	109-99-9
THC as Gas	16400	ug/m3	1200	13.4	03/15/10 19:54	CJR	
Toluene	ND	ug/m3	27	13.4	03/15/10 19:54	CJR	108-88-3
trans-1,2-Dichloroethene	ND	ug/m3	54	13.4	03/15/10 19:54	CJR	156-60-5
trans-1,3-Dichloropropene	ND	ug/m3	32	13.4	03/15/10 19:54	CJR	10061-02-6
Trichloroethene	ND	ug/m3	38	13.4	03/15/10 19:54	CJR	79-01-6
Trichlorofluoromethane	ND	ug/m3	38	13.4	03/15/10 19:54	CJR	75-69-4
Vinyl acetate	ND	ug/m3	26	13.4	03/15/10 19:54	CJR	108-05-4
Vinyl chloride	ND	ug/m3	18	13.4	03/15/10 19:54	CJR	75-01-4
Xylene (Total)	ND	ug/m3	89	13.4	03/15/10 19:54	CJR	1330-20-7

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10123333
Project Name: 0506-117-11 Parkwater

PARAMETER FOOTNOTES

Pace Analytical®
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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

April 01, 2010

John Haney
GeoEngineers,Inc.
523 East Second Ave
Spokane, WA 99202

RE: Project: 0506-117-11 BNSF-Parkwater
Pace Project No.: 10124382

Dear John Haney:
Enclosed are the analytical results for sample(s) received by the laboratory on March 17, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,

Carol Davy

Carol Davy

carol.davy@pacelabs.com
Project Manager

Enclosures

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 0506-117-11 BNSF-Parkwater
Pace Project No.: 10124382

Minnesota Certification IDs
1700 Elm Street SE, Suite 200 Minneapolis, MN 55414
Alaska Certification #: UST-078
Washington Certification #: C754
Tennessee Certification #: 02818
Pennsylvania Certification #: 68-00563
Oregon Certification #: MN200001
North Dakota Certification #: R-036
North Carolina Certification #: 530
New York Certification #: 11647
New Jersey Certification #: MN-002
Montana Certification #: MT CERT0092
Minnesota Certification #: 027-053-137
Michigan DEQ Certification #: 9909
Maine Certification #: 2007029
Louisiana Certification #: LA080009
Louisiana Certification #: 03086
Kansas Certification #: E-10167
Iowa Certification #: 368
Illinois Certification #: 200011
Florida/NELAP Certification #: E87605
California Certification #: 01155CA
Arizona Certification #: AZ-0014
Wisconsin Certification #: 999407970

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: 0506-117-11 BNSF-Parkwater
Pace Project No.: 10124382

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10124382001	**VP-CI-031610**	Air	03/16/10 10:04	03/17/10 10:10

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: 0506-117-11 BNSF-Parkwater
Pace Project No.: 10124382

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10124382001	**VP-CI-031610**	TO-15	LCW	65	PASI-M

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

PROJECT NARRATIVE

Project: 0506-117-11 BNSF-Parkwater
Pace Project No.: 10124382

Method: **TO-15**
Description: TO15 MSV AIR
Client: GeoEngineers,Inc.
Date: April 01, 2010

General Information:
1 sample was analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: AIR/9977

L3: Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

- LCS (Lab ID: 765883)
  - 1,2,4-Trichlorobenzene
  - Hexachloro-1,3-butadiene

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 0506-117-11 BNSF-Parkwater
Pace Project No.: 10124382

Sample: VP-CI-031610 **Lab ID: 10124382001** Collected: 03/16/10 10:04 Received: 03/17/10 10:10 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1,1-Trichloroethane	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	79-34-5	
1,1,2-Trichloroethane	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	76-13-1	
1,1-Dichloroethane	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	75-34-3	
1,1-Dichloroethene	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	75-35-4	
1,2,4-Trichlorobenzene	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	120-82-1	
1,2,4-Trimethylbenzene	ND	ppbv	0.68	0.34	1.34		03/29/10 20:06	95-63-6	
1,2-Dibromoethane (EDB)	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	106-93-4	
1,2-Dichlorobenzene	ND	ppbv	0.68	0.34	1.34		03/29/10 20:06	95-50-1	
1,2-Dichloroethane	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	107-06-2	
1,2-Dichloropropane	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	78-87-5	
1,3,5-Trimethylbenzene	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	108-67-8	
1,3-Butadiene	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	106-99-0	
1,3-Dichlorobenzene	ND	ppbv	0.68	0.34	1.34		03/29/10 20:06	541-73-1	
1,4-Dichlorobenzene	ND	ppbv	0.68	0.34	1.34		03/29/10 20:06	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ppbv	0.27	0.13	1.34		03/29/10 20:06	123-91-1	
2,2,4-Trimethylpentane	**2.0**	ppbv	0.67	0.34	1.34		03/29/10 20:06	540-84-1	
2-Butanone (MEK)	**2.9**	ppbv	0.74	0.37	1.34		03/29/10 20:06	78-93-3	
2-Hexanone	ND	ppbv	0.74	0.37	1.34		03/29/10 20:06	591-78-6	
2-Propanol	**5.1**	ppbv	0.67	0.34	1.34		03/29/10 20:06	67-63-0	
4-Ethyltoluene	ND	ppbv	0.71	0.36	1.34		03/29/10 20:06	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ppbv	0.74	0.37	1.34		03/29/10 20:06	108-10-1	
Acetone	**9.8**	ppbv	0.74	0.37	1.34		03/29/10 20:06	67-64-1	
Benzene	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	71-43-2	
Bromodichloromethane	ND	ppbv	0.68	0.34	1.34		03/29/10 20:06	75-27-4	
Bromoform	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	75-25-2	
Bromomethane	ND	ppbv	0.68	0.34	1.34		03/29/10 20:06	74-83-9	
Carbon disulfide	**0.84**	ppbv	0.67	0.34	1.34		03/29/10 20:06	75-15-0	
Carbon tetrachloride	ND	ppbv	0.68	0.34	1.34		03/29/10 20:06	56-23-5	
Chlorobenzene	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	108-90-7	
Chloroethane	ND	ppbv	0.68	0.34	1.34		03/29/10 20:06	75-00-3	
Chloroform	ND	ppbv	0.68	0.34	1.34		03/29/10 20:06	67-66-3	
Chloromethane	ND	ppbv	0.67	0.34	1.34		03/29/10 20:06	74-87-3	
Cyclohexane	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	110-82-7	
Dibromochloromethane	ND	ppbv	0.71	0.36	1.34		03/29/10 20:06	124-48-1	
Dichlorodifluoromethane	ND	ppbv	0.68	0.34	1.34		03/29/10 20:06	75-71-8	
Dichlorotetrafluoroethane	ND	ppbv	0.76	0.38	1.34		03/29/10 20:06	76-14-2	
Ethanol	**9.2**	ppbv	0.67	0.34	1.34		03/29/10 20:06	64-17-5	
Ethyl acetate	ND	ppbv	0.68	0.34	1.34		03/29/10 20:06	141-78-6	
Ethylbenzene	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ppbv	0.67	0.34	1.34		03/29/10 20:06	87-68-3	
Isopropylbenzene (Cumene)	ND	ppbv	0.67	0.34	1.34		03/29/10 20:06	98-82-8	
Methyl-tert-butyl ether	ND	ppbv	1.3	0.67	1.34		03/29/10 20:06	1634-04-4	
Methylene Chloride	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	75-09-2	
Naphthalene	ND	ppbv	0.67	0.34	1.34		03/29/10 20:06	91-20-3	

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ANALYTICAL RESULTS

Project: 0506-117-11 BNSF-Parkwater
Pace Project No.: 10124382

Sample: VP-CI-031610 **Lab ID: 10124382001** Collected: 03/16/10 10:04 Received: 03/17/10 10:10 Matrix: Air

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Propylene	**9.1**	ppbv	2.7	1.3	1.34		03/29/10 20:06	115-07-1	
Styrene	ND	ppbv	0.74	0.37	1.34		03/29/10 20:06	100-42-5	
THC as Gas	**7570**	ppbv	26.8	13.4	1.34		03/29/10 20:06		
Tetrachloroethene	**0.98**	ppbv	0.70	0.35	1.34		03/29/10 20:06	127-18-4	
Tetrahydrofuran	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	109-99-9	
Toluene	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	108-88-3	
Trichloroethene	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	79-01-6	
Trichlorofluoromethane	**0.87**	ppbv	0.67	0.34	1.34		03/29/10 20:06	75-69-4	
Vinyl acetate	**1.1**	ppbv	0.74	0.37	1.34		03/29/10 20:06	108-05-4	
Vinyl chloride	ND	ppbv	0.68	0.34	1.34		03/29/10 20:06	75-01-4	
Xylene (Total)	ND	ppbv	2.0	1.0	1.34		03/29/10 20:06	1330-20-7	
cis-1,2-Dichloroethene	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	156-59-2	
cis-1,3-Dichloropropene	ND	ppbv	0.68	0.34	1.34		03/29/10 20:06	10061-01-5	
m&p-Xylene	**1.4**	ppbv	1.3	0.67	1.34		03/29/10 20:06	1330-20-7	
n-Heptane	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	142-82-5	
n-Hexane	ND	ppbv	0.71	0.36	1.34		03/29/10 20:06	110-54-3	
o-Xylene	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	95-47-6	
trans-1,2-Dichloroethene	ND	ppbv	1.3	0.67	1.34		03/29/10 20:06	156-60-5	
trans-1,3-Dichloropropene	ND	ppbv	0.70	0.35	1.34		03/29/10 20:06	10061-02-6	

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QUALITY CONTROL DATA

Project: 0506-117-11 BNSF-Parkwater
Pace Project No.: 10124382

QC Batch: AIR/9977 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR
Associated Lab Samples: 10124382001

METHOD BLANK: 765882 Matrix: Air
Associated Lab Samples: 10124382001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	0.52	03/29/10 14:31	
1,1,2,2-Tetrachloroethane	ppbv	ND	0.52	03/29/10 14:31	
1,1,2-Trichloroethane	ppbv	ND	0.52	03/29/10 14:31	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	0.52	03/29/10 14:31	
1,1-Dichloroethane	ppbv	ND	0.52	03/29/10 14:31	
1,1-Dichloroethene	ppbv	ND	0.52	03/29/10 14:31	
1,2,4-Trichlorobenzene	ppbv	ND	0.52	03/29/10 14:31	
1,2,4-Trimethylbenzene	ppbv	ND	0.51	03/29/10 14:31	
1,2-Dibromoethane (EDB)	ppbv	ND	0.52	03/29/10 14:31	
1,2-Dichlorobenzene	ppbv	ND	0.51	03/29/10 14:31	
1,2-Dichloroethane	ppbv	ND	0.52	03/29/10 14:31	
1,2-Dichloropropane	ppbv	ND	0.52	03/29/10 14:31	
1,3,5-Trimethylbenzene	ppbv	ND	0.52	03/29/10 14:31	
1,3-Butadiene	ppbv	ND	0.52	03/29/10 14:31	
1,3-Dichlorobenzene	ppbv	ND	0.51	03/29/10 14:31	
1,4-Dichlorobenzene	ppbv	ND	0.51	03/29/10 14:31	
1,4-Dioxane (p-Dioxane)	ppbv	ND	0.20	03/29/10 14:31	
2,2,4-Trimethylpentane	ppbv	ND	0.50	03/29/10 14:31	
2-Butanone (MEK)	ppbv	ND	0.55	03/29/10 14:31	
2-Hexanone	ppbv	ND	0.55	03/29/10 14:31	
2-Propanol	ppbv	ND	0.50	03/29/10 14:31	
4-Ethyltoluene	ppbv	ND	0.53	03/29/10 14:31	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	0.55	03/29/10 14:31	
Acetone	ppbv	ND	0.55	03/29/10 14:31	
Benzene	ppbv	ND	0.52	03/29/10 14:31	
Bromodichloromethane	ppbv	ND	0.51	03/29/10 14:31	
Bromoform	ppbv	ND	0.52	03/29/10 14:31	
Bromomethane	ppbv	ND	0.51	03/29/10 14:31	
Carbon disulfide	ppbv	ND	0.50	03/29/10 14:31	
Carbon tetrachloride	ppbv	ND	0.51	03/29/10 14:31	
Chlorobenzene	ppbv	ND	0.52	03/29/10 14:31	
Chloroethane	ppbv	ND	0.51	03/29/10 14:31	
Chloroform	ppbv	ND	0.51	03/29/10 14:31	
Chloromethane	ppbv	ND	0.50	03/29/10 14:31	
cis-1,2-Dichloroethene	ppbv	ND	0.52	03/29/10 14:31	
cis-1,3-Dichloropropene	ppbv	ND	0.51	03/29/10 14:31	
Cyclohexane	ppbv	ND	0.52	03/29/10 14:31	
Dibromochloromethane	ppbv	ND	0.53	03/29/10 14:31	
Dichlorodifluoromethane	ppbv	ND	0.51	03/29/10 14:31	
Dichlorotetrafluoroethane	ppbv	ND	0.57	03/29/10 14:31	
Ethanol	ppbv	ND	0.50	03/29/10 14:31	
Ethyl acetate	ppbv	ND	0.51	03/29/10 14:31	
Ethylbenzene	ppbv	ND	0.52	03/29/10 14:31	

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QUALITY CONTROL DATA

Project: 0506-117-11 BNSF-Parkwater
Pace Project No.: 10124382

METHOD BLANK: 765882 Matrix: Air

Associated Lab Samples: 10124382001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ppbv	ND	0.50	03/29/10 14:31	
Isopropylbenzene (Cumene)	ppbv	ND	0.50	03/29/10 14:31	
m&p-Xylene	ppbv	ND	1.0	03/29/10 14:31	
Methyl-tert-butyl ether	ppbv	ND	1.0	03/29/10 14:31	
Methylene Chloride	ppbv	ND	0.52	03/29/10 14:31	
n-Heptane	ppbv	ND	0.52	03/29/10 14:31	
n-Hexane	ppbv	ND	0.53	03/29/10 14:31	
Naphthalene	ppbv	ND	0.50	03/29/10 14:31	
o-Xylene	ppbv	ND	0.52	03/29/10 14:31	
Propylene	ppbv	ND	2.0	03/29/10 14:31	
Styrene	ppbv	ND	0.55	03/29/10 14:31	
Tetrachloroethene	ppbv	ND	0.52	03/29/10 14:31	
Tetrahydrofuran	ppbv	ND	0.52	03/29/10 14:31	
THC as Gas	ppbv	ND	20.0	03/29/10 14:31	
Toluene	ppbv	ND	0.52	03/29/10 14:31	
trans-1,2-Dichloroethene	ppbv	ND	1.0	03/29/10 14:31	
trans-1,3-Dichloropropene	ppbv	ND	0.52	03/29/10 14:31	
Trichloroethene	ppbv	ND	0.52	03/29/10 14:31	
Trichlorofluoromethane	ppbv	ND	0.50	03/29/10 14:31	
Vinyl acetate	ppbv	ND	0.55	03/29/10 14:31	
Vinyl chloride	ppbv	ND	0.51	03/29/10 14:31	
Xylene (Total)	ppbv	ND	1.5	03/29/10 14:31	

LABORATORY CONTROL SAMPLE: 765883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ppbv	10	9.2	92	60-125	
1,1,2,2-Tetrachloroethane	ppbv	10	9.7	97	57-127	
1,1,2-Trichloroethane	ppbv	10	9.5	95	56-125	
1,1,2-Trichlorotrifluoroethane	ppbv	10	8.6	86	52-133	
1,1-Dichloroethane	ppbv	10	9.8	98	54-127	
1,1-Dichloroethene	ppbv	10	8.5	85	52-129	
1,2,4-Trichlorobenzene	ppbv	10	16.3	163	30-150	L3
1,2,4-Trimethylbenzene	ppbv	10	10	100	52-145	
1,2-Dibromoethane (EDB)	ppbv	10	8.6	86	59-133	
1,2-Dichlorobenzene	ppbv	10	10.4	104	67-135	
1,2-Dichloroethane	ppbv	10	9.3	93	54-125	
1,2-Dichloropropane	ppbv	10	8.7	87	64-125	
1,3,5-Trimethylbenzene	ppbv	10	9.6	96	56-135	
1,3-Butadiene	ppbv	10	8.3	83	55-125	
1,3-Dichlorobenzene	ppbv	10	10.1	101	61-142	
1,4-Dichlorobenzene	ppbv	10	10.1	101	55-142	
1,4-Dioxane (p-Dioxane)	ppbv	10	11.3	113	70-130	
2,2,4-Trimethylpentane	ppbv	10	9.0	90	70-130	
2-Butanone (MEK)	ppbv	10	9.0	90	47-141	

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QUALITY CONTROL DATA

Project: 0506-117-11 BNSF-Parkwater
Pace Project No.: 10124382

LABORATORY CONTROL SAMPLE: 765883

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Hexanone	ppbv	10	9.6	96	41-138	
2-Propanol	ppbv	10	8.4	84	63-125	
4-Ethyltoluene	ppbv	10	10.3	103	62-130	
4-Methyl-2-pentanone (MIBK)	ppbv	10	9.1	91	53-134	
Acetone	ppbv	10	8.8	88	44-149	
Benzene	ppbv	10	9.0	90	61-126	
Bromodichloromethane	ppbv	10	9.2	92	54-129	
Bromoform	ppbv	10	9.6	96	56-125	
Bromomethane	ppbv	10	9.2	92	56-128	
Carbon disulfide	ppbv	10	8.5	85	58-150	
Carbon tetrachloride	ppbv	10	9.3	93	55-125	
Chlorobenzene	ppbv	10	9.3	93	48-138	
Chloroethane	ppbv	10	8.6	86	56-128	
Chloroform	ppbv	10	9.3	93	55-125	
Chloromethane	ppbv	10	10.1	101	50-131	
cis-1,2-Dichloroethene	ppbv	10	9.1	91	64-125	
cis-1,3-Dichloropropene	ppbv	10	9.1	91	61-132	
Cyclohexane	ppbv	10	10.4	104	61-130	
Dibromochloromethane	ppbv	10	9.3	93	51-129	
Dichlorodifluoromethane	ppbv	10	9.5	95	56-132	
Dichlorotetrafluoroethane	ppbv	10	9.2	92	48-125	
Ethanol	ppbv	10	8.6	86	70-130	
Ethyl acetate	ppbv	10	8.0	80	66-149	
Ethylbenzene	ppbv	10	9.4	94	56-137	
Hexachloro-1,3-butadiene	ppbv	10	18.7	187	30-150	L3
Isopropylbenzene (Cumene)	ppbv	10.4	9.5	91	67-134	
m&p-Xylene	ppbv	20	19.0	95	62-135	
Methyl-tert-butyl ether	ppbv	10	8.8	88	59-125	
Methylene Chloride	ppbv	10	7.6	76	46-143	
n-Heptane	ppbv	10	8.5	85	64-130	
n-Hexane	ppbv	10	10.9	109	61-134	
Naphthalene	ppbv	10	18.7	187	30-150	CU
o-Xylene	ppbv	10	9.5	95	61-134	
Propylene	ppbv	10	7.9	79	62-146	
Styrene	ppbv	10	9.6	96	63-134	
Tetrachloroethene	ppbv	10	8.9	89	61-132	
Tetrahydrofuran	ppbv	10	8.5	85	62-137	
THC as Gas	ppbv	700	718	103	61-125	
Toluene	ppbv	10	9.2	92	57-132	
trans-1,2-Dichloroethene	ppbv	10	8.5	85	52-130	
trans-1,3-Dichloropropene	ppbv	10	9.5	95	61-129	
Trichloroethene	ppbv	10	10.5	105	72-147	
Trichlorofluoromethane	ppbv	10	8.9	89	58-141	
Vinyl acetate	ppbv	10	8.5	85	56-131	
Vinyl chloride	ppbv	10	9.0	90	56-136	
Xylene (Total)	ppbv	30	28.5	95	70-130	

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QUALITY CONTROL DATA

Project: 0506-117-11 BNSF-Parkwater
Pace Project No.: 10124382

SAMPLE DUPLICATE: 767693

Parameter	Units	10124383002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ppbv	ND	ND		30	
1,1,2,2-Tetrachloroethane	ppbv	ND	ND		30	
1,1,2-Trichloroethane	ppbv	ND	ND		30	
1,1,2-Trichlorotrifluoroethane	ppbv	ND	ND		30	
1,1-Dichloroethane	ppbv	ND	ND		30	
1,1-Dichloroethene	ppbv	ND	ND		30	
1,2,4-Trichlorobenzene	ppbv	ND	ND		30	
1,2,4-Trimethylbenzene	ppbv	ND	.45J		30	
1,2-Dibromoethane (EDB)	ppbv	ND	ND		30	
1,2-Dichlorobenzene	ppbv	ND	ND		30	
1,2-Dichloroethane	ppbv	ND	ND		30	
1,2-Dichloropropane	ppbv	ND	ND		30	
1,3,5-Trimethylbenzene	ppbv	ND	ND		30	
1,3-Butadiene	ppbv	ND	ND		30	
1,3-Dichlorobenzene	ppbv	ND	ND		30	
1,4-Dichlorobenzene	ppbv	ND	ND		30	
1,4-Dioxane (p-Dioxane)	ppbv	ND	ND		30	
2,2,4-Trimethylpentane	ppbv	42.7	39.8	7	30	
2-Butanone (MEK)	ppbv	2.8	2.6	8	30	
2-Hexanone	ppbv	ND	ND		30	
2-Propanol	ppbv	ND	ND		30	
4-Ethyltoluene	ppbv	ND	ND		30	
4-Methyl-2-pentanone (MIBK)	ppbv	ND	ND		30	
Acetone	ppbv	10.5	9.3	13	30	
Benzene	ppbv	ND	.61J		30	
Bromodichloromethane	ppbv	ND	ND		30	
Bromoform	ppbv	ND	ND		30	
Bromomethane	ppbv	ND	ND		30	
Carbon disulfide	ppbv	ND	ND		30	
Carbon tetrachloride	ppbv	ND	ND		30	
Chlorobenzene	ppbv	ND	ND		30	
Chloroethane	ppbv	ND	ND		30	
Chloroform	ppbv	ND	ND		30	
Chloromethane	ppbv	ND	ND		30	
cis-1,2-Dichloroethene	ppbv	ND	ND		30	
cis-1,3-Dichloropropene	ppbv	ND	ND		30	
Cyclohexane	ppbv	12.4	11.3	10	30	
Dibromochloromethane	ppbv	ND	ND		30	
Dichlorodifluoromethane	ppbv	ND	ND		30	
Dichlorotetrafluoroethane	ppbv	ND	ND		30	
Ethanol	ppbv	0.86	ND		30	
Ethyl acetate	ppbv	ND	ND		30	
Ethylbenzene	ppbv	2.0	1.8	6	30	
Hexachloro-1,3-butadiene	ppbv	ND	ND		30	
Isopropylbenzene (Cumene)	ppbv	ND	ND		30	
m&p-Xylene	ppbv	7.9	7.8	2	30	
Methyl-tert-butyl ether	ppbv	ND	ND		30	
Methylene Chloride	ppbv	ND	ND		30	

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QUALITY CONTROL DATA

Project: 0506-117-11 BNSF-Parkwater
Pace Project No.: 10124382

SAMPLE DUPLICATE: 767693

Parameter	Units	10124383002 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Heptane	ppbv	2.3	2.2	5	30	
n-Hexane	ppbv	2.0	1.9	4	30	
Naphthalene	ppbv	ND	ND		30	
o-Xylene	ppbv	1.9	1.8	5	30	
Propylene	ppbv	ND	ND		30	
Styrene	ppbv	ND	ND		30	
Tetrachloroethene	ppbv	ND	ND		30	
Tetrahydrofuran	ppbv	ND	ND		30	
THC as Gas	ppbv	472	422	11	30	
Toluene	ppbv	16.1	15.6	3	30	
trans-1,2-Dichloroethene	ppbv	ND	ND		30	
trans-1,3-Dichloropropene	ppbv	ND	ND		30	
Trichloroethene	ppbv	ND	ND		30	
Trichlorofluoromethane	ppbv	ND	ND		30	
Vinyl acetate	ppbv	ND	ND		30	
Vinyl chloride	ppbv	ND	ND		30	
Xylene (Total)	ppbv	9.9	9.6	2	30	

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QUALIFIERS

Project: 0506-117-11 BNSF-Parkwater
Pace Project No.: 10124382

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

CU The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

March 24, 2010

Carol Davy
PACE ANALYTICAL
1700 Elm Street SE
Minneapolis, MN 55127-

Bureau Veritas Work Order No. 10030954

Reference: 10124382/0506-117-11 BNSF-PARKWATER

Dear Carol Davy:

Bureau Veritas North America, Inc. received 1 sample on 3/18/2010 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

Karen Coonan

Karen Coonan
Client Services Representative

cc:

Bureau Veritas North America, Inc.
22345 Roethel Drive
Novi, MI 48375

Main: (248) 344.1770
Fax: (248) 344.2655
www.us.bureauveritas.com

CASE NARRATIVE

Date: *25-Mar-10*

Client: PACE ANALYTICAL

Project: 10124382/0506-117-11 BNSF-PARKWATER

Work Order No 10030954

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

Please note that a field blank was not identified by the client for this sample set.

The following result has been converted from mg/m3 to ug/m3.

Sample -001A: THCs as Diesel = <1300 ug/m3

ANALYTICAL RESULTS

Date: *24-Mar-10*

Client: PACE ANALYTICAL

Project: 10124382/0506-117-11 BNSF-PARKWATER **Work Order No:** 10030954

Sample Identification: VP-CI-031610

Lab Number: 001A **Date Sampled:** 3/16/2010

Sample Type Charcoal Tube **Date Received:** 3/18/2010

Analyst CMI **Air Volume (L):** 8

Analyte	Analytical Results (µg)	(mg/m³)	(ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
THCs as Diesel	<10	<1.3	--	10	NIOSH 1550	03/23/2010

General Notes:
<: Less than the indicated reporting limit (RL).
--: Information not available or not applicable.
Back sections (if applicable) were checked and showed no significant breakthrough unless otherwise noted.

Chain of Custody

10030954

Pace Analytical®
www.pacelabs.com

Workorder: 10124382 **Workorder Name:** 0506-117-11 BNSF-Parkwater **Results Requested** 3/30/2010

Report / Invoice To	Subcontract To
Carol Davy Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700 Email: carol.davy@pacelabs.com	Bureau Veritas P.O. 10124382

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers: General	Requested Analysis: TO15 MOD-Full List	LAB USE ONLY
1	VP-CI-031610	3/16/2010 10:04	10124382001	Air	/	X	
2							
3							
4							
5							

Transfers	Released By	Date/Time	Received By	Date/Time
1	Carol Davy/Pace MN	3/17/10 1240	C Massey	3/18/10
2				
3				
4				
5				

Comments

11:55 am please email report to carol.davy@pacelabs.com

Air volume = 8.00L

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

01309 | Page: 1 of 1

Section A Required Client Information:

Company: GeoEngineers
Address: 523 E 2nd Ave
Spokane, WA 99202
Email To: jhoney@geoengineers.com
Phone: 509-363-3125 Fax: 363-3126
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: John Honey
Copy To: Scott Lathen
slathen@geoengineers.com
Purchase Order No.:
Project Name: BNSF-Park Water
Project Number: 0506-117-11

Section C Invoice Information:

Attention: Bruce Sheppard
Company Name: BNSF
Address:
Pace Quote Reference: TTO101-J02
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☑ Emmisions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WA

Reporting Units: ug/m³ ☑ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level: II.___ III.___ IV.___ Other___

Section D Required Client Information

AIR SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	SAMPLE TYPE (G=Grab C=Composite)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field)	Canister Pressure (Final Field)	Summa Can Number	Method: TO-3 BTEX+TPH(ppmv)	TO-3M PPMV MEE	3C Fixed Gas (%)	TO-14(69 VOCs)	TO-15 (SIM/VOCs)	TO-15 Low Level	TO-13 (PAH)	TO-4 (PCBs)	PM10	Pace Lab ID
1	PWEff-031610			3/16/10	0930	3/16/10	1004	-18	-1	1053	X				X					10124382-001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments:

Sorbent tube included for NIOSH 1550 Analysis
Volume of Air = 8.00 L

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Kevin Rondall/GEI	3/16/10	1200	[signature] Fed Ex	3-17-10	10:10

SAMPLE CONDITIONS			
AMB	(Y/N)	(Y/N)	(Y/N)
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Kevin Rondall
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 3/16/10

ORIGINAL

18 of 19

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

FC046Rev.00, 21May2009

Pace Analytical™

AIR Sample Condition Upon Receipt

Client Name: GeoEngineers Project #

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other

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

Packing Material: [ ] Bubble Wrap [X] Bubble Bags [ ] None [X] Other

Tracking #: 8712 5936 3200

Comments:

Date and Initials of person examining contents: 3/17/10 JL

Chain of Custody Present:	[X]Yes [ ]No [ ]N/A	1.
Chain of Custody Filled Out:	[X]Yes [ ]No [ ]N/A	2.
Chain of Custody Relinquished:	[X]Yes [ ]No [ ]N/A	3.
Sampler Name & Signature on COC:	[X]Yes [ ]No [ ]N/A	4.
Samples Arrived within Hold Time:	[X]Yes [ ]No [ ]N/A	5.
Short Hold Time Analysis (<72hr):	[ ]Yes [X]No [ ]N/A	6.
Rush Turn Around Time Requested:	[ ]Yes [X]No [ ]N/A	7.
Sufficient Volume:	[X]Yes [ ]No [ ]N/A	8.
Correct Containers Used:	[X]Yes [ ]No [ ]N/A	9.
-Pace Containers Used:	[X]Yes [ ]No [ ]N/A	
Containers Intact:	[X]Yes [ ]No [ ]N/A	10.
Media: AR(CAN, CHARCOAL TUBE)		11.
Sample Labels match COC:	[X]Yes [ ]No [ ]N/A	12.

Samples Received: 1CAN, 1FC, 1CHARCOAL TUBE

Canisters		Flow Controllers		Stand Alone G		Tedlar Bags	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
PWEFF	1253		124				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: Scott Ostrom Date/Time: 3-17-10 11:36 am email

Comments/ Resolution:

Change Sample ID to VP-C1-031610

Project Manager Review: DMM **Date:** 3-17-10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

A106 Rev.01 (22May2009)

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10124382
Project Name: 0506-117-11 BNSF-Parkwater

Lab Sample No: 10124382001
Client Sample ID: VP-CI-031610

ProjSampleNum: 10124382001
Matrix: Air

Date Collected: 03/16/10 10:04
Date Received: 03/17/10 10:10

Air

TO-15

Parameters	Results	Units	Report Limit	DF	Analyzed	CAS No.	Qualifiers
1,1,1-Trichloroethane	ND	ug/m3	3.9	1.34	03/29/10 20:06 LCW	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/m3	4.9	1.34	03/29/10 20:06 LCW	79-34-5	
1,1,2-Trichloroethane	ND	ug/m3	3.9	1.34	03/29/10 20:06 LCW	79-00-5	
1,1,2-Trichlorotrifluoroethane	ND	ug/m3	5.5	1.34	03/29/10 20:06 LCW	76-13-1	
1,1-Dichloroethane	ND	ug/m3	2.9	1.34	03/29/10 20:06 LCW	75-34-3	
1,1-Dichloroethene	ND	ug/m3	2.8	1.34	03/29/10 20:06 LCW	75-35-4	
1,2,4-Trichlorobenzene	ND	ug/m3	5.3	1.34	03/29/10 20:06 LCW	120-82-1	
1,2,4-Trimethylbenzene	ND	ug/m3	3.4	1.34	03/29/10 20:06 LCW	95-63-6	
1,2-Dibromoethane (EDB)	ND	ug/m3	5.5	1.34	03/29/10 20:06 LCW	106-93-4	
1,2-Dichlorobenzene	ND	ug/m3	4.2	1.34	03/29/10 20:06 LCW	95-50-1	
1,2-Dichloroethane	ND	ug/m3	2.9	1.34	03/29/10 20:06 LCW	107-06-2	
1,2-Dichloropropane	ND	ug/m3	3.3	1.34	03/29/10 20:06 LCW	78-87-5	
1,3,5-Trimethylbenzene	ND	ug/m3	3.5	1.34	03/29/10 20:06 LCW	108-67-8	
1,3-Butadiene	ND	ug/m3	1.6	1.34	03/29/10 20:06 LCW	106-99-0	
1,3-Dichlorobenzene	ND	ug/m3	4.2	1.34	03/29/10 20:06 LCW	541-73-1	
1,4-Dichlorobenzene	ND	ug/m3	4.2	1.34	03/29/10 20:06 LCW	106-46-7	
1,4-Dioxane (p-Dioxane)	ND	ug/m3	0.99	1.34	03/29/10 20:06 LCW	123-91-1	
2,2,4-Trimethylpentane	9.5	ug/m3	3.2	1.34	03/29/10 20:06 LCW	540-84-1	
2-Butanone (MEK)	8.69	ug/m3	2.2	1.34	03/29/10 20:06 LCW	78-93-3	
2-Hexanone	ND	ug/m3	3.1	1.34	03/29/10 20:06 LCW	591-78-6	
2-Propanol	12.7	ug/m3	1.7	1.34	03/29/10 20:06 LCW	67-63-0	
4-Ethyltoluene	ND	ug/m3	3.5	1.34	03/29/10 20:06 LCW	622-96-8	
4-Methyl-2-pentanone (MIBK)	ND	ug/m3	3.1	1.34	03/29/10 20:06 LCW	108-10-1	
Acetone	23.7	ug/m3	1.8	1.34	03/29/10 20:06 LCW	67-64-1	
Benzene	ND	ug/m3	2.3	1.34	03/29/10 20:06 LCW	71-43-2	
Bromodichloromethane	ND	ug/m3	4.6	1.34	03/29/10 20:06 LCW	75-27-4	
Bromoform	ND	ug/m3	7.4	1.34	03/29/10 20:06 LCW	75-25-2	
Bromomethane	ND	ug/m3	2.7	1.34	03/29/10 20:06 LCW	74-83-9	
Carbon disulfide	2.66	ug/m3	2.1	1.34	03/29/10 20:06 LCW	75-15-0	
Carbon tetrachloride	ND	ug/m3	4.3	1.34	03/29/10 20:06 LCW	56-23-5	
Chlorobenzene	ND	ug/m3	3.3	1.34	03/29/10 20:06 LCW	108-90-7	
Chloroethane	ND	ug/m3	1.8	1.34	03/29/10 20:06 LCW	75-00-3	
Chloroform	ND	ug/m3	3.4	1.34	03/29/10 20:06 LCW	67-66-3	
Chloromethane	ND	ug/m3	1.4	1.34	03/29/10 20:06 LCW	74-87-3	
cis-1,2-Dichloroethene	ND	ug/m3	2.8	1.34	03/29/10 20:06 LCW	156-59-2	
cis-1,3-Dichloropropene	ND	ug/m3	3.1	1.34	03/29/10 20:06 LCW	10061-01-5	
Cyclohexane	ND	ug/m3	2.4	1.34	03/29/10 20:06 LCW	110-82-7	
Dibromochloromethane	ND	ug/m3	6.1	1.34	03/29/10 20:06 LCW	124-48-1	

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical Services, Inc.
1700 Elm Street – Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10124382
Project Name: 0506-117-11 BNSF-Parkwater

Dichlorodifluoromethane	ND	ug/m3	3.4	1.34	03/29/10 20:06	LCW	75-71-8
Dichlorotetrafluoroethane	ND	ug/m3	5.4	1.34	03/29/10 20:06	LCW	76-14-2
Ethanol	17.6	ug/m3	1.3	1.34	03/29/10 20:06	LCW	64-17-5
Ethyl acetate	ND	ug/m3	2.5	1.34	03/29/10 20:06	LCW	141-78-6
Ethylbenzene	ND	ug/m3	3.1	1.34	03/29/10 20:06	LCW	100-41-4
Hexachloro-1,3-butadiene	ND	ug/m3	7.3	1.34	03/29/10 20:06	LCW	87-68-3
Isopropylbenzene (Cumene)	ND	ug/m3	3.3	1.34	03/29/10 20:06	LCW	98-82-8
m&p-Xylene	6.18	ug/m3	5.7	1.34	03/29/10 20:06	LCW	1330-20-7
Methylene Chloride	ND	ug/m3	2.5	1.34	03/29/10 20:06	LCW	75-09-2
Methyl-tert-butyl ether	ND	ug/m3	4.8	1.34	03/29/10 20:06	LCW	1634-04-4
Naphthalene	ND	ug/m3	3.6	1.34	03/29/10 20:06	LCW	91-20-3
n-Heptane	ND	ug/m3	2.9	1.34	03/29/10 20:06	LCW	142-82-5
n-Hexane	ND	ug/m3	2.5	1.34	03/29/10 20:06	LCW	110-54-3
o-Xylene	ND	ug/m3	3.1	1.34	03/29/10 20:06	LCW	95-47-6
Propylene	15.9	ug/m3	4.7	1.34	03/29/10 20:06	LCW	115-07-1
Styrene	ND	ug/m3	3.2	1.34	03/29/10 20:06	LCW	100-42-5
Tetrachloroethene	6.76	ug/m3	4.8	1.34	03/29/10 20:06	LCW	127-18-4
Tetrahydrofuran	ND	ug/m3	2.1	1.34	03/29/10 20:06	LCW	109-99-9
THC as Gas	32900	ug/m3	120	1.34	03/29/10 20:06	LCW	
Toluene	ND	ug/m3	2.7	1.34	03/29/10 20:06	LCW	108-88-3
trans-1,2-Dichloroethene	ND	ug/m3	5.2	1.34	03/29/10 20:06	LCW	156-60-5
trans-1,3-Dichloropropene	ND	ug/m3	3.2	1.34	03/29/10 20:06	LCW	10061-02-6
Trichloroethene	ND	ug/m3	3.8	1.34	03/29/10 20:06	LCW	79-01-6
Trichlorofluoromethane	4.97	ug/m3	3.8	1.34	03/29/10 20:06	LCW	75-69-4
Vinyl acetate	3.94	ug/m3	2.6	1.34	03/29/10 20:06	LCW	108-05-4
Vinyl chloride	ND	ug/m3	1.8	1.34	03/29/10 20:06	LCW	75-01-4
Xylene (Total)	ND	ug/m3	8.8	1.34	03/29/10 20:06	LCW	1330-20-7

DISCLAIMER: These results have been converted to the units shown from the original units of measurement assuming 20 degrees Celsius and 1 atmosphere pressure. Values were not rounded according to EPA rounding rules. THC is quantitated based on the average response factors of several compounds; the nominal molecular weight of THC used for units conversion is the average of the molecular weights of the compounds used for quantitation.

SUPPLEMENTAL REPORT

Units Conversion Request

Pace Analytical
www.pacelabs.com

Pace Analytical Services, Inc.
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Fax: 612.607.6444

ANALYTICAL RESULTS

Client: GeoEngineers,Inc.
Phone: (509)363-3125

Lab Project Number: 10124382
Project Name: 0506-117-11 BNSF-Parkwater

PARAMETER FOOTNOTES

SUPPLEMENTAL REPORT
Units Conversion Request

Have we delivered World Class Client Service?
Please let us know by visiting **www. geoengineers.com/feedback**.

GeoEngineers