Groundwater Monitoring Report (Second Quarterly Event)

Ione Petroleum Contamination Site Ione, Washington

for

Washington State Department of Ecology and **Science Applications International Corporation**

January 25, 2011





Earth Science + Technology

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INTRODUCTION

This report presents results of the second quarterly groundwater monitoring event performed at the lone Petroleum Contamination Site located near lone, Washington. Details regarding the site are presented in previous reports for this project including a report titled "Site Characterization Report, lone Petroleum Contamination Site, lone, Washington," (GeoEngineers, Inc., October 14, 2010), and an addendum report titled "Supplemental Site Characterization Report, lone Petroleum Contamination," (GeoEngineers, Inc., October 14, 2010), and an addendum report titled "Supplemental Site Characterization Report, lone Petroleum Contamination," (GeoEngineers, Inc., January 3, 2011).

The second quarterly groundwater monitoring event was conducted on November 10 and 11, 2010 in accordance with the work plan developed for this project. The purpose of the quarterly groundwater monitoring program is to evaluate the nature and extent of contamination in groundwater beneath the site. This report also includes groundwater elevation data at selected wells for a 5-day period in December 2010, which followed installation of pressure transducers. The purpose of this hydrogeologic data is to assess the impact of the Cabin Grill well on groundwater elevations near this well.

The approximate location of the site is shown in the Vicinity Map, Figure 1. Key site features, including general locations of groundwater monitoring wells, are shown in Figure 2. This report includes a site background, hydrogeologic data, groundwater quality data, and conclusions.

SITE BACKGROUND

Details regarding site history are presented in the Site Characterization Report. Before site characterization activities commenced in April 2010, petroleum hydrocarbons had twice been detected in groundwater samples collected from the Cabin Grill domestic well. Currently, a carbon filtration system to remove petroleum from the water supply is operating at the Cabin Grill.

Potential sources of petroleum contamination included two properties located west (upgradient) of the Cabin Grill. The Airport Kwik Stop previously sold regular and premium gasoline, which was contained in three underground storage tanks (USTs). Two tanks were removed in 1994, and the third tank was reportedly closed in place. Currently, aboveground storage tanks (ASTs) are located behind (west) of the Airport Kwik Stop. In May 2008, a flex pipe beneath the premium fuel dispenser was observed to be spraying gasoline inside the dispenser. The flex pipe was repaired and subsequently, after passing a tightness test, returned to service. The Kwik Stop has not been in operation since fall 2008. Two USTs were installed at the lone Airport in about 1974/1975. The tanks were removed in 2008. Soil contamination was discovered during removal of the westernmost tank.

The project site includes the Cabin Grill, Airport Kwik Stop, and Ione Airport properties and other adjacent properties. During site characterization activities, 23 direct-push borings and 5 hollow-stem auger exploratory borings were drilled; and 12 monitoring wells were installed. Results of field screening of soil samples and analytical testing of soil and groundwater samples indicated petroleum-contaminated soil and groundwater was located beneath the Airport Kwik Stop near the fuel dispensers. Petroleum-contaminated soil and groundwater also was observed beneath the Cabin Grill property and the vacant property north of the Cabin Grill.

This report is the first quarterly groundwater monitoring report and second groundwater monitoring event for this project. Results of the first quarterly monitoring event are presented in the Site Characterization Report.

HYDROGEOLOGIC DATA

General

Fluid (water and petroleum product) levels were measured on November 10, 2010 at the 12 existing site monitoring wells (MW-1 through MW-12). Fluid elevations were calculated by comparing measured fluid depths to wellhead elevations and are referenced to the North American Vertical Datum of 1988 (NAVD 88).

Fluid depths and elevations are presented in Table 1. Groundwater elevation data, and interpreted groundwater elevation distribution and flow direction, are graphically presented in Figure 2, Groundwater Elevations and Flow Direction – November 10, 2010. Field methods are described in Appendix A.

Fluid Elevations

Depth to groundwater measurements during the November 10, 2010 monitoring event, referenced to the top rim of the PVC well casing, ranged from 15.96 feet in MW-10 to 39.68 feet in MW-6. Corresponding groundwater elevations ranged from 2,069.60 feet in MW-10 to 2,077.05 feet in MW-1.

Using an interface probe, petroleum product was measured in monitoring well MW-5 at a depth of about 37.90 feet (Elevation 2,071.38 feet) during the November 10, 2010 monitoring event. Depth to groundwater in MW-5 was about 38.51 feet (Elevation 2,070.77 feet), indicating about 0.61 feet of petroleum product within the well. The relative densities of gasoline and groundwater were used to develop an estimate for the equivalent groundwater elevation (in the absence of petroleum product) in the following equation:

 $GW = (SG \times T) + IE$

where GW = equivalent groundwater elevation;

- SG = specific gravity of product (0.75 for gasoline);
- T = thickness of product measured in water using oil/water interface probe; and
- IE = elevation of water/product interface measured in the well.

This analysis yielded an equivalent groundwater elevation estimate of 2,071.23 feet in monitoring well MW-5.

Minimal variation in groundwater elevation was observed relative to the previous groundwater monitoring event conducted on August 5, 2010. In wells monitored during events, and not containing product (MW-1 through MW-4 and MW-6 through MW-8), groundwater elevations either were identical (MW-7) or increased no greater than 0.04 feet (MW-6), the average increase, as measured in the seven wells, was 0.02 feet.

Hydraulic Gradient and Groundwater Flow Direction

Interpreted groundwater flow direction during the November 10, 2010 groundwater monitoring event generally was east-southeast; away from upland recharge areas to the west and towards the Pend Oreille River to the east. However, the local distribution in groundwater elevation and gradient observed at the site was relatively complex. Within the west portion of the site (approximately between monitoring wells MW-1 and MW-8), hydraulic gradient was relatively steep at about 2×10^{-2} feet per foot (about 100 feet per mile). Within the east portion of the site (approximately between monitoring wells MW-8 and MW-10), hydraulic gradient flattened significantly, averaging about 2×10^{-3} feet per foot (about 9 feet per mile). Variation in hydraulic gradient could be caused by soil permeability variation across the site (an increase in permeability to the east), the geometry of perching layers, and/or Pend Oreille River stage. Indications of a cone of depression centered around the Cabin Grill well and groundwater mounding related to the septic drain field located to the east of the Cabin Grill were not observed.

Electronic Well Discharge and Groundwater Elevation Monitoring

Pressure transducers and dataloggers were installed within monitoring wells MW-3 through MW-5 on December 8, 2010 for the purpose of collecting periodic water level data at these locations. At the same time, a GE Panametrics Model AT868 ultrasonic flow meter was installed along a section of discharge piping associated with the Cabin Grill well for the purpose of collecting periodic well discharge data. The data loggers associated with the monitoring wells and flow meter record data on a 1-minute interval. Results of the electronic monitoring program for the period from December 8 through 13, 2010 are presented graphically in Figure 3.

Electronic Cabin Grill well discharge data indicate that the Cabin Grill well is pumped frequently during daytime hours (presumably related to restaurant operations) and infrequently during nighttime hours (presumably related to domestic use). Well discharge generally is about 2 to 3 gallons per minute (gpm) when operating.

Monitoring wells MW-3, MW-4 and MW-5 are situated about 180 feet, 150 feet, and 50 feet from the Cabin Grill well, respectively. Groundwater levels in these monitoring wells were very stable during the roughly 5-day monitoring period. The minor fluctuations observed in Figure 3 likely are related to instrument precision. Pumping rates in the Cabin Grill well during the monitoring program do not appear to have a short-term influence on groundwater elevations in the shallow underlying aquifer at distances greater than about 50 feet from the well. This is consistent with the relatively high permeability of the outwash sand deposits penetrated by the Cabin Grill well and the well's low pumping rate. However, it is important to note that, depending on aquifer characteristics, long-term operation of the Cabin Grill well could impact the groundwater flow field and geometry of the well's upgradient capture zone. This can be evaluated through standard capture zone analytical techniques.

GROUNDWATER ANALYTICAL RESULTS

General

Groundwater samples were collected from monitoring wells MW-1 through MW-12 on November 10 and 11, 2010 and from the Cabin Grill well on December 8, 2010 and submitted to Anatek

Laboratories (Anatek) in Spokane, Washington for analysis of gasoline-range petroleum hydrocarbons (GRPH), volatile organic compounds (VOCs) and lead.

Groundwater samples from the monitoring wells were collected using a portable bladder pump consistent with the U.S. Environmental Protection Agency (EPA) low-flow groundwater sampling procedure and summarized in Appendix A of this report. Purge water was retained in 55-gallon drums for subsequent disposal. The sample from the Cabin Grill well was collected from a port located within the Cabin Grill well house. The port is located upstream (before treatment) from the storage tanks and carbon filtration system.

During the November 2010 monitoring event, a laboratory-blind duplicate was collected from monitoring well MW-6 and labeled "Duplicate-1." A trip blank also was collected.

Groundwater analytical results for the second quarterly groundwater sampling event in November 2010 are provided in Summary of Chemical Analytical Results – Groundwater, Table 2. Copies of original laboratory certificates are included in Appendix B.

Ione Airport

GRPH, VOCs, and lead were not detected in the sample from MW-2. Practical Quantitation Limits (PQLs) were reported at concentrations less than the Model Toxics Control Act (MTCA) Method A cleanup levels for groundwater.

Airport Kwik Stop

Benzene and toluene were detected in the sample from MW-8 at concentrations (2,670 and 1,360 μ g/L) greater than the MTCA Method A cleanup levels (5 μ g/L and 1,000 μ g/L, respectively). The positive results for toluene were qualified as non-detect due to trip blank contamination. However, the toluene concentration in the sample was consistent with other benzene, ethylbenzene, toluene, and xylenes (BETX) concentrations. GRPH also was detected in MW-8 at a concentration (12,000 μ g/L) greater than the MTCA Method A cleanup level (800 μ g/L). Ethylbenzene, total xylenes, and naphthalene also were detected in the sample from MW-8 at concentrations of 321 μ g/L, 943 μ g/L and 72.3 μ g/L, respectively, which are less than the MTCA Method A cleanup levels (700 μ g/L, 1,000 μ g/L, 160 μ g/L, respectively). Well MW-8 is located near and downgradient of the fuel dispensers.

GRPH, VOCs, and lead were not detected in the samples from MW-1 and MW-7.

Cabin Grill

GRPH was detected in samples from MW-4, MW-5, MW-6 and the Cabin Grill well at concentrations (1,190 μ g/L, 80,600 μ g/L, 16,600 μ g/L 26,100 μ g/L, respectively) greater than the MTCA Method A cleanup level. Benzene was detected in these four samples at concentrations (9.36 μ g/L, 525 μ g/L, 3,900 μ g/Land 227 μ g/L, respectively) greater than the MTCA Method A cleanup level. Samples from MW-5 and MW-6 and the Cabin Grill well also contained total xylenes at concentrations (12,690 μ g/L, 2,690 μ g/L and 3,020 μ g/L, respectively) greater than the MTCA Method A cleanup level. The sample from MW-5 also contained ethylbenzene (2,120 μ g/L) and toluene (8,420 μ g/L) at concentrations greater than the MTCA Method A cleanup levels. The

positive results for toluene were qualified as non-detect due to trip blank contamination. However, the toluene concentrations in these samples were consistent with the other BETX concentrations common to gasoline-contaminated sites and likely are representative of actual site conditions. The sample from MW-6 contained ethylbenzene (873 μ g/L) at a concentration greater than the MTCA Method A cleanup level. The sample from the Cabin Grill well contained toluene (3,640 μ g/L) and naphthalene (200 μ g/L) at concentrations greater than the MTCA Method A cleanup level. Wells MW-5, MW-6, and the Cabin Grill well are located downgradient of the Airport Kwik Stop fuel dispensers.

The duplicate sample (Duplicate-1) from MW-6 also contained GRPH (10,800 μ g/L), benzene (4,530 μ g/L), total xylenes (3,220 μ g/L) and 1,2-dichloroethane (EDC) (116 μ g/L) at concentrations greater than the MTCA Method A cleanup levels.

Other VOCs were not detected, or were detected at concentrations less than cleanup levels. However, the reported PQLs also have been elevated to greater than the applicable cleanup levels for the non-detected VOCs because the high concentrations of BETX contaminants required dilution of the samples before analyzation.

Lead was not detected in any samples collected from the Cabin Grill property.

Vacant Property

GRPH was detected in the groundwater sample collected from MW-3 at a concentration (20,200 μ g/L) greater than the MTCA Method A cleanup level. Benzene, toluene and total xylenes were detected at concentrations (1,940 μ g/L, 2,870 μ g/L and 2,333 μ g/L, respectively) greater than MTCA Method A cleanup levels. The positive results for toluene were qualified as non-detect due to trip blank contamination. However, the toluene concentration in this sample was consistent with the other BETX concentrations common to gasoline-contaminated sites and likely is representative of actual site conditions. Other VOCs from the sample from MW-3 were not detected, or were detected at concentrations less than cleanup levels. However, the reported PQLs also have been elevated to greater than the applicable cleanup levels for the non-detected VOCs because the high concentrations of BETX contaminants required dilution of the samples before analyzation. Lead was not detected in the sample collected from MW-3.

GRPH, VOCs, and lead were not detected in the groundwater samples collected from MW-9, MW-10, MW-11 and MW-12, with the exception that methyl tert butyl ether (MTBE) was detected in the sample from MW-10 at a concentration (0.60 μ g/L) less than the MTCA Method A cleanup level (20 μ g/L).

SUMMARY AND CONCLUSIONS

During the November 2010 monitoring event, groundwater depths in monitoring wells MW-1 through MW-12 ranged from 15.96 feet to 39.68 feet below the top of the well casings and groundwater elevations ranged from 2,069.60 feet to 2,077.05 feet. Groundwater elevations ranged from 0.00 to 0.04 feet higher than elevations measured in August 2010.

Groundwater flow during the November 2010 monitoring event generally was towards the eastsoutheast, under varying hydraulic gradients, ranging between about 2 x 10^{-3} ft/ft within eastern portions of the site to about 2 x 10^{-2} ft/ft within western portions of the site. This magnitude is consistent with previous measurements at the site.

Groundwater samples were collected for chemical analysis in monitoring wells MW-1 through MW-12 during the November 2010 sampling event. Chemical analytical results are summarized by the following:

- GRPH and/or BETX concentrations exceeded MTCA Method A cleanup levels in groundwater samples from MW-3, MW-4, MW-5, MW-6, MW-8 and the Cabin Grill domestic well. EDC also was detected in the duplicate sample from MW-6 at a concentration greater than the MTCA Method A cleanup level.
- GRPH and VOCs were not detected in groundwater samples from up-gradient wells MW-1 and MW-7.
- GRPH and VOCs were not detected in the new cross- and down-gradient wells (MW-9 through MW-12), with the exception that MTBE was detected in the sample from MW-10 at a concentration of 0.60 µg/L.
- Lead was not detected in any of the groundwater samples.
- The highest concentration of GRPH detected during the second quarterly groundwater monitoring event was at monitoring well MW-5 at a concentration of 80,600 µg/L (about 100 times greater than the MTCA Method A cleanup level).
- The highest concentration of benzene detected during the second quarterly groundwater monitoring event was at monitoring well MW-6 at a concentration of 3,900 µg/L (about 800 times greater than the MTCA Method A cleanup level).

The following bulleted items summarize changes in concentrations from the third quarter 2010 sampling event relative to the previously-collected sample in each site monitoring well:

- In general, concentrations of GRPH and BETX compounds were less in the contaminated wells (MW-3 through MW-6, MW-8 and the Cabin Grill domestic well) than the previous monitoring event.
- GRPH and ethylbenzene, and total xylene concentrations decreased in wells MW-3, MW-4, MW-5, MW-6, MW-8 and the Cabin Grill domestic well.
- Benzene concentrations decreased in wells MW-3, through MW-6, and the Cabin Grill domestic well, and increased in MW-8.

Results of analytical testing indicate that groundwater underlying the Airport Kwik Stop; Cabin Grill and vacant properties are contaminated with GRPH and VOCs, particularly BETX compounds. Results also indicate that the leading edge of the plume likely is located between wells MW-4 and MW-12 on the south, between wells MW-6 and MW-11 near the central portion of the plume, and between wells MW-3 and MW-9 on the north.

The next groundwater monitoring event will be completed during February 2011.



Table 1

Summary of Groundwater Level Measurements

Ione Petroleum Contamination Ione, Washington

Well Number	Date Measured	Top of Casing Elevation ¹ (feet)	Depth to Water ² (feet)	Groundwater Elevation (feet)
MW-1	08/05/10	2,106.45	29.41	2,077.04
	11/10/10		29.40	2,077.05
MW-2	08/05/10	2,109.36	37.54	2,071.82
	11/10/10		37.53	2,071.83
MW-3	08/05/10	2,110.17	38.66	2,071.51
	11/10/10		38.63	2,071.54
MW-4	08/05/10	2,109.31	38.17	2,071.14
	11/10/10		38.14	2,071.17
MW-5	08/05/10	2,109.28	38.57	2,070.71
	11/10/10		37.90/38.51 ³	2,071.23 ⁴
MW-6	08/05/10	2,110.34	39.72	2,070.62
	11/10/10		39.68	2,070.66
MW-7	08/05/10	2,109.31	36.27	2,073.04
	11/10/10		36.27	2,073.04
MW-8	08/05/10	2,109.72	37.93	2,071.79
	11/10/10		37.90	2,071.82
MW-9	11/10/10	2,109.43	38.43	2,071.00
MW-10	11/10/10	2,085.56	15.96	2,069.60
MW-11	11/10/10	2,093.44	23.33	2,070.11
MW-12	11/10/10	2,108.87	37.98	2,070.89

Notes:

¹Top of casing elevation survey performed by Thomas, Dean & Hoskins, Inc. (TD&H). Elevations are referenced to NAVD 88. ²Depth to water measurements referenced to the top of PVC casing.

³For MW-5, 37.90/38.51 indicates depth to top of free product/depth to groundwater measured using an oil-water interface probe.

⁴Groundwater elevation at MW-5, for the November 2010 monitoring event, was calculated using the following equation: GW = SG x T + IE; where GW = equivalent groundwater elevation, SG = specific gravity of free product (0.75 for gasoline), T = thickness of product measured in water using oil/water interface probe (0.61 feet), IE = elevation of water/product interface measured in the well (2,070.77).



Table 2

Summary of Groundwater Chemical Analytical Results - Monitoring Well Samples¹

Ione Petroleum Contamination

Ione, Washington

	1	MTCA Method	Well No.	MV	V-1	MV	V-2	MV	V-3	M	N-4	MV	N-5	MV	V-6
		A Cleanun	Sample Number	MW-1-080510	 MW-1-111010	MW-2-080610	MW-2-111010	MW-3-080610	MW-3-111010	MW-4-080610	MW-4-111010	MW-5-080610	MW-5-111010	MW-6-080610	MW-6-111010
Analyte	Unit	Level	Date	08/05/10	11/10/10	08/06/10	11/10/10	08/06/10	11/11/10	08/06/10	11/11/10	08/06/10	11/11/10	08/06/10	11/11/10
	ud/l	500	Buto	<100	11/ 10/ 10	<100	11/ 10/ 10	<100	// _0	<100	//0	<100	//0	<100	
	µg/L	500		<100		<100		<500		<500		<500		<500	
	µg/L	800		<300	<100	<100	<100	<500 24 E00	20.200	<500	1 100	188.000	80.600	<500 76 400	16 600
Volatile Organic Compounds ⁴	µg/ L	800		<100	<100	<100	<100	24,500	20,200	4,540	1,190	188,000	80,000	70,400	10,000
Ponzono	ud /l	F		<0 F	<0 F	<0 F	<0 F	2,690	1.040	01.0	0.26	2 210	E25	0.990	2 000
Ethylbonzono	µg/L	5	-	<0.5	<0.5	<0.5	<0.5	2,060	214 (11)	21.3	9.30	2,210	525 0100 (m)	9,880	3,900
Taluana	µg/L	1,000		1.81	<0.5	<0.5	<0.5	3 330	314 (u)	460	7.04 (u)	3,210	2120 (u) 8420 (u)	1,040	873 (u)
Toldene m n Yulana	µg/L	1,000	-	1.01	<0.5	<0.5	<0.5	3,330	2670 (u)	402	78.3 (u)	37,900	0420 (u)	14,400 E 190	400 (u)
	µg/L	1,000		1.93	<0.5	<0.5	<0.5	1,940	1080 (u)	425	94.5 (u)	13,900	9330 (u)	3,180	1410 (u)
	µg/L	1,000	-	0.89	<0.5	<0.5	<0.5	613	653	109	55.6	5,510	3,300	2,120	1,200
	µg/L	200		<0.5	<0.5	<0.5	<0.5	<50	<5	100 <f< td=""><td><5 <5</td><td><500</td><td><250</td><td><250</td><td><125</td></f<>	<5 <5	<500	<250	<250	<125
	µg/L	200	-	<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1 1 2 Trichloroethane	µg/L	NE	-	<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
	µg/L	NE	-	<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5 <5	<5 <5	<500	<250	<250	<125
1,1-Dichloropropene	µg/L	INE	-	<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
	µg/L	INE	-	<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,2,3-Trichlerobonzono	µg/L	INE NE	-	<0.5	<0.5	<0.5	<0.5	<50	<5	<5 <5	<5	<500	<250	<250	<125
	µg/L	INE	-	<0.5 0.00	<0.5	<0.5	<0.5	< <u>50</u>	<5 050	<5 454	<5	<500	<250	<250	<125
1,2,4-Inmethylbenzene	µg/L	INE	4	0.62	<0.5	<0.5	<0.5	305	259	154	24.9	2,000	1,060	376	162
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	INE 0.01	-	<0.5	<0.5	< 0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,2-Dibromoetnane (EDB)	µg/L	0.01	4	<0.01	<0.01	0.01	<0.01	<50	<5	<5	<5	<500	<250	<250	<125
1,2-Dichlorobenzene	µg/L	INE F	4	<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,2-Dichloroethane (EDC)	µg/L	5	4	<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,2-Dichloropropane	µg/L	INE	4	<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,3,5-Trimetnyibenzene	µg/L	NE	4	0.58	<0.5	<0.5	<0.5	<50	136	68.3	19.3	968	376	<250	193
1,3-Dichlorobenzene	µg/L	INE	4	<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,3-Dichloropropane	µg/L	NE	4	<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
	µg/L	INE	4	<0.5	<0.5	<0.5	<0.5	<50	<5 <5	<5	<5	<500	<250	<250	<125
2,2-Dichloropropane	µg/L	INE	4	<0.5	<0.5	<0.5	<0.5	<50	<5 	<5	<5	<500	<250	<250	<125
	µg/L	INE	4	<0.5	<0.5	<0.5	<0.5	<50	<5 <05	<0	<0	<500	<250	<250	<125
	µg/L	INE	4	<2.5	<2.5	<2.5	<2.5	<250	<25 <5	<25 <5	<25 <5	<2,500	<1,250	<250	<625
4-chiorotoluene	µg/L	INE	4	<0.5	<0.5	<0.5	<0.5	<50	<5 <05	<5	<0	<500	<250	<250	<125
Acetone	µg/L	INE	4	<2.5	<2.5	<2.5	<2.5	<250	<25 <5	36.0	<25 <5	<2,500	<1,250	<1,250	<625
Acrylontrile	µg/L	NE NE	-	<0.5	<0.5	<0.5	<0.5	<50	<5	<5 <5	<5	<500	<250	<250	<125
Bromoshiavenethere	µg/L	INE	4	<0.5	<0.5	<0.5	<0.5	<50	<5 <5	<5	<5	<500	<250	<250	<125
Bromochloromethane	µg/L	NE NE	-	<0.5	<0.5	<0.5	<0.5	<50	<5	<5 <5	<5	<500	<250	<250	<125
Bromodicilloromethane	µg/L	INE NE	-	<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Bromomothono	µg/L	NE NE	-	<0.5	<0.5	<0.5	<0.5	<50	<5	<5 <5	<5	<500	<250	<250	<125
	µg/L	INE NE	-	<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Carbon disulide	µg/L	NE NE	-	<0.5	<0.5	<0.5	<0.5	<50	<5	<5 <5	<5	<500	<250	<250	<125
	µg/L	INE NE	-	<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Chlorobenzene	µg/L	INE	4	<0.5	<0.5	<0.5	<0.5	<50	<5 <5	<5	<5	<500	<250	<250	<125
Chloroform	µg/L	INE	4	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	< <u>50</u>	1 0	×5	<5	<500 <500	<25U	<25U <050	×125
Chloromothana	µg/L	INE	4	<0.5	<0.5	<0.5	<0.5	<5U	<5 <5	<5 <5	<5 ~5	<500 <500	<250	<25U	<125
	µg/L	INE	4	<0.5 x0.5	<0.5 x0.5	<0.5 x0.5	<0.5 x0.5	<u>\</u> 00	<5	<5	<5	< <u>000</u>	<250	<25U <050	<125 <105
cis-1,2-Dichloroethene	µg/L	NE.	4	<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Dibromochloromothers	µg/L	INE NE	4	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	< <u>0</u>	<5 <5	<5	<5 <5	< <u>500</u>	<250	<25U <050	<125
	µg/L	INE	4	<0.5 x0.5	<0.5 x0.5	<0.5 x0.5	<0.5 x0.5	<u>\</u> 00	<5	<5	<5	< <u>000</u>	<250	<25U <050	<125 <105
Diblorodifluoromethana	µg/L	INE NE	4	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<u>\</u>	<5 <5	<5	<5 <5	< <u>500</u>	<250	<25U <050	<125
	µg/L	INE	4	<0.5 x0.5	<0.5 x0.5	<0.5 x0.5	<0.5 x0.5	<u>\</u> 00	<5	<5	<5	< <u>000</u>	<250	<25U <050	<125 <105
Hexachiorobutadiene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<๖	<5	<5	<500	<250	<250	<125

		MTCA Method	Well No.	M	N-7	M	N-8	MW-9	MW-10	MW-11	MW-12		Cabin Well	Duplicate-1 (MW-4)	Duplicate-1 (MW-6)
		A Cleanup	Sample Number	MW-7-080610	MW-7-111010	MW-8-080610	MW-8-111010	MW-9-111010	MW-10-111010	MW-11-111010	MW-12-111010	Cabin Well-080610	101209043-001	80610	10112036-013
Analyte	Unit	Level	Date	08/06/10	11/11/10	08/06/10	11/11/10	11/11/10	11/11/10	11/11/10	11/11/10	08/06/10	12/08/10	08/06/10	11/11/10
DRPH ²	ug/L	500		<100		<100						<100		<100	
ORPH ²	r-a/ – ug/L	500		<500		<500						<500		<500	<u> </u>
GRPH ³	r-a/ –	800		<100	<100	14.800	12.000	<100	<100	<100	<100	40.000	26.100	4.920	10.800
Volatile Organic Compounds ⁴	P8/ -			100	100	,	,	100	100	200	100	.0,000		.,020	
Benzene	11ø/l	5		<0.5	<0.5	2 620	2 670	0.50	0.50	0.50	0.50	770	227	21.6	4 530
Ethylbenzene	ма/ – це/I	700		<0.5	<0.5	334	321	<0.5	<0.5	<0.5	<0.5	877	592	81.5	258
Toluene	r-a/ –	1 000		<0.5	<0.5	1.750	1360 (u)	<0.5	<0.5	<0.5	<0.5	4.920	3.640	472	430 (u)
m p-Xylene	ма/ – це/I	1.0005		<0.5	<0.5	902	756	<0.5	<0.5	<0.5	<0.5	2,600	1,930	419	1.570
o-Xvlene	r-a/ –	1.000 ⁵		<0.5	<0.5	403	187	<0.5	<0.5	<0.5	<0.5	1,390	1.090	194	1.650
1 1 1 2-Tetrachloroethane	м8/ – це/I	NF		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1 1 1-Trichloroethane	r-a/ –	200		<0.5	<0.5	<25	<50	<0.5	< 0.5	<0.5	<0.5	<50	<0.5	<5	<50
1 1 2 2-Tetrachloroethane	ма/ – це/I	NF		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1 1 2-Trichloroethane	μα/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1 1-Dichloroethane	110/l	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1 1-Dichloroethene	µв/ ⊑ 11ø/I	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1 1-Dichloropropene	μα/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1 2 3-Trichlorobenzene	μ ₆ / L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1 2 3-Trichloropropane	μα/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1.2.4-Trichlorobenzene	µg/⊏ ⊔g/l	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5 <0.5	<0.5	<50	<0.5	<5	<50
1.2.4-Trimethylbenzene	μ ₆ / L	NE		<0.5	<0.5	186	112	<0.5	<0.5	<0.5	<0.5	369	289	148	<50
1.2-Dibromo-3-chloropropage (DBCP)	µg/⊏ ⊔g/l	NE		<0.5	<0.5	£25	<50	<0.5	<0.5	<0.5 <0.5	<0.5	500 ≤50	<0.5	<5	<50
1.2 Dibromoethane (EDB)	µg/⊏ ug/l	0.01		<0.01	<0.0	<25	<50	<0.01	<0.0	<0.01	<0.0	<50	<0.5	<5	<50
1.2 Dichlorobenzene	µg/∟ ⊔g/l	0.01	-	<0.01	<0.01	<25	<50	<0.5	<0.01	<0.01	<0.01	<50	<0.5	<5	<50
1.2. Dichloroethane (EDC)	µg/∟ ⊔r/l	5	-	<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	116
1.2 Dichloropropage	µg/∟ ⊔g/l	NE	-	<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1 3 5-Trimethylbenzene	μ ₆ / L	NE		<0.5	<0.5	70.7	94.2	<0.5	<0.5	<0.5	<0.5	190	192	65.0	72.9
1 3-Dichlorobenzene	µg/⊏ ⊔g/l	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5 <0.5	<0.5	£50	<0.5	<5	<50
1 3-Dichloropropage	μ ₆ / L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1 4-Dichlorobenzene	µg/⊏ ⊔g/l	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
2 2-Dichloropropage	με/ L μσ/Ι	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
2.Chlorotoluene	µ6/⊑ ⊔α/I	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
2-Hexanone	με/ L μσ/Ι	NE		<2.5	<2.5	<125	<250	<2.5	<2.5	<2.5	<2.5	<250	<2.5	<2.5	<250
4-Chlorotoluene	µ6/⊑ ⊔α/I	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	·2.0	<0.5	-200 <50	<0.5	<5	<50
Acetone	мв/ = 110/I	NE		2 93	<2.5	<125	<250	<2.5	<2.5	<2.5	<2.5	<250	9.7	34.8	<250
	μα/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	·2.0	<0.5	-200 <50	<0.5	<5	<50
Bromobenzene	мв/ = 110/I	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Bromochloromethane	110/l	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Bromodichloromethane	με/ L μσ/Ι	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Bromoform	110/l	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Bromomethane	мв/ = 110/I	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Carbon disulfide	110/l	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Carbon Tetrachloride	μα/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Chlorobenzene	μα/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Chloroethane	мв/ = 110/I	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Chloroform	110/l	NF	1	<0.5	<0.5	<25	<50	0.54	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Chloromethane	мъ́/ ч	NE	1	<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
cis-1 2-Dichloroethene	µ6/⊑ ⊔ø/l	NE	1	<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
cis-1 3-Dichloropropene	µ6/⊑ ⊔ø/l	NE	1	<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Dibromochloromethane	µg/∟ ⊔g/l	NF	1	<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Dibromomethane	µg/∟ µg/l	NE	4	<0.5	<0.5	~25	~50 <50	<0.5	<0.5	<0.5 <0.5	<0.5	<50	<0.5	~5	<50
Dichlorodifluoromethane	μα/L	NE	1	<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Heyachlorobutadienc	P6/ ⊑ μα /Ι	NE	4	-0.5	-0.5	-25	~50	-0.5 	-0.5	-0.5	-0.5 	~50	-0.5	~5	<50
nexacilloropulatione	μ8/ L	INE		-0.5	-0.5	~20	-50	×0.5	-0.5	×0.5	-0.5	×50	×0.5	~J	-30



		MTCA Method	Well No.	M	W-1	M	N-2	MV	V-3	MV	V-4	MV	V-5	MV	V-6
		A Cleanup	Sample Number	MW-1-080510	MW-1-111010	MW-2-080610	MW-2-111010	MW-3-080610	MW-3-111010	MW-4-080610	MW-4-111010	MW-5-080610	MW-5-111010	MW-6-080610	MW-6-111010
Analyte	Unit	Level	Date	08/05/10	11/10/10	08/06/10	11/10/10	08/06/10	11/11/10	08/06/10	11/11/10	08/06/10	11/11/10	08/06/10	11/11/10
Isopropylbenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	104	<5	6.39	<5	945	<250	466	162
Methyl ethyl ketone (MEK)	µg/L	NE		<2.5	<2.5	<2.5	<2.5	<250	<25	<25	<25	<2,500	<1,250	<1,250	<625
Methyl isobutyl ketone (MIBK)	µg/L	NE		<2.5	<2.5	<2.5	<2.5	<250	<25	<25	<25	<2,500	<1,250	<1,250	<625
Methylene chloride	µg/L	5		<2.5	<2.5	<2.5	<2.5	<250	<25	<25	<25	<2,500	<1,250	<1,250	<625
Methyl tert buytl ether (MTBE)	µg/L	20		<0.5	<0.5	<0.5	<0.5	<50	<5	<25	<5	<500	<250	<250	<125
Naphthalene	µg/L	160		<0.5	<0.5	<0.5	<0.5	80.1	84.3	10.3	<5	<500	<250	<250	200
n-Butylbenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
n-Propylbenzene	µg/L	NE		0.55	<0.5	<0.5	<0.5	92.2	<5	15.1	<5	691	<250	312	144
p-lsopropyltoluene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
sec-Butylbenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Styrene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
tert-Butylbenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Tetrachloroethene	µg/L	5		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
trans-1,2-Dichloroethene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
trans-1,3-Dichloropropene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Trichloroethene	µg/L	5		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Trichlorofluoromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Vinyl chloride	µg/L	0.2	1	<0.2	<0.5	<0.2	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Dissolved Lead ⁵	µg/L	15	1	<1		<1		<1		<1		<1		<1	
Lead ⁶	µg/L	15	1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1



		MTCA Method	Well No.	M	N-7	MV	V-8	MW-9	MW-10	MW-11	MW-12		Cabin Well	Duplicate-1 (MW-4)	Duplicate-1 (MW-6)
		A Cleanup	Sample Number	MW-7-080610	MW-7-111010	MW-8-080610	MW-8-111010	MW-9-111010	MW-10-111010	MW-11-111010	MW-12-111010	Cabin Well-080610	101209043-001	80610	10112036-013
Analyte	Unit	Level	Date	08/06/10	11/11/10	08/06/10	11/11/10	11/11/10	11/11/10	11/11/10	11/11/10	08/06/10	12/08/10	08/06/10	11/11/10
Isopropylbenzene	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	29.9	6.12	<50
Methyl ethyl ketone (MEK)	µg/L	NE		<2.5	<2.5	<125	<250	<2.5	<2.5	<2.5	<2.5	<250	4.73	<2.5	<250
Methyl isobutyl ketone (MIBK)	µg/L	NE		<2.5	<2.5	<125	<250	<2.5	<2.5	<2.5	<2.5	<250	<2.5	<2.5	<250
Methylene chloride	µg/L	5		<2.5	<2.5	<125	<250	<2.5	<2.5	<2.5	<2.5	<250	<2.5	<2.5	<250
Methyl tert buytl ether (MTBE)	µg/L	20		<0.5	<0.5	<25	<50	<0.5	0.60	<0.5	<0.5	<50	<0.5	<5	<50
Naphthalene	µg/L	160		<0.5	<0.5	<25	72.3	<0.5	<0.5	<0.5	<0.5	147	410	7.54	50.7
n-Butylbenzene	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
n-Propylbenzene	µg/L	NE		<0.5	<0.5	37.1	60.8	<0.5	<0.5	<0.5	<0.5	88.1	70	14.7	<50
p-Isopropyltoluene	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	2.59	<5	<50
sec-Butylbenzene	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Styrene	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
tert-Butylbenzene	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Tetrachloroethene	µg/L	5		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
trans-1,2-Dichloroethene	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
trans-1,3-Dichloropropene	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Trichloroethene	µg/L	5		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Trichlorofluoromethane	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Vinyl chloride	µg/L	0.2]	<0.2	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Dissolved Lead ⁵	µg/L	15		<1		<1						<1	<0.5	<1	
Lead ⁶	µg/L	15		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Notes:

¹Chemical analyses conducted by Anatek Labs, Inc. located in Spokane, Washington.

²Diesel and Lube Oil analyzed using Northwest Method NWTPH-Dx.

³Gasoline analyzed using Northwest Method NWTPH-Gx.

⁴Volatile organic compounds analyzed using by EPA Methods 8260B/8260C.

⁵Cleanup level for total xylenes is 1,000 μ g/L.

⁶Lead and dissolved lead analyzed using by EPA Method 200.8. Note that laboratory reports are in units of mg/L and are converted to µg/L in this table.

µg/L - micrograms per liter; mg/L = milligrams per liter; NE = not established; MTCA = Model Toxics Control Act

(U) - Concentrations of toluene qualified as non-detect due to trip blank contamination.







Map Revised: 09/09/2010

Path:W:\Spokane\Projects\0\0504058\GIS\050405800_VM_F1.mxd



Reference: Bing Maps aerial from ESRI, Online Data Resource Center.

ESRI Data & Maps, Street Maps 2008

Notes

The locations of all features shown are approximate.
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.

Elevations are referenced in NAVD 88.
The master mension of the solution of the presence of the free product using the following equation: GW SG X T + IE;

where GW = equivalent groundwater elevation SG = specific growing database to account of the presence of the nee product using the following equation. SW SG X 1 + 12, Where GW = equivalent groundwater elevation SG = specific growing of free product (0.75) for gasoline; T = thickness of product measured in well using oil/water interface probe (0.61 feet); IE =elevation of water/product interface measured in the well (2070.77).

5. (u): Due to trip blank contamination, positive results for toluene qualified as non-detect

Legend

W

Approximate Location of Monitoring Well and Groundwater Elevation on November 10, 2010

Existing Water Well

Approximate Groundwater 2077 Elevation Contour (1-Foot Interval)

Interpreted Groundwater Flow Direction

Groundwater Elevations and Flow Direction - November 10, 2010

> Ione Petroleum Contamination Ione, Washington

GEOENGINEERS

Figure 2

SP\050405800\Figure 4 CJE 010711







APPENDIX A FIELD METHODS

General

The sampling methods used by GeoEngineers during the November 2010 sampling event generally conformed to the work plan dated April 9, 2010.

Groundwater Elevations

GeoEngineers measured depth to groundwater relative to the monitoring well casing rims on November 10, 2010 using an electric water level indicator. Product and groundwater depths at the location of monitoring well MW-5 were measured using an oil-water interface probe. The probe of the water level indicator was decontaminated between wells. Groundwater table elevations were calculated by subtracting the depth to the water table from the casing rim elevations. Groundwater table elevations measured on November 10, 2010 are presented in Table 1 and Figure 3.

Groundwater Sampling

GeoEngineers obtained groundwater samples for chemical analysis from monitoring wells MW-1 through MW-12 on November 10 and 11, 2010. GeoEngineers obtained a sample from the Cabin Grill domestic well on December 8, 2010.

Before sampling, VOCs in the well headspace were measured with a PID by first inserting the PID into the well casing and immediately after removal of the well cap. Measurement of free product was completed by using an electronic oil-water interface probe and a disposable bailer. Measurement of free product activities was only performed at those well locations where PID measurements indicated the presence of VOCs.

Groundwater purging and sampling conducted at the monitoring wells was performed consistent with the EPA's low-flow groundwater sampling procedure. A portable bladder pump was used for groundwater purging and sampling. During purging activities, water quality parameters, including pH, conductivity, temperature, turbidity, and oxidation-reduction potential, were measured using a Horiba U-22 multi-parameter meter equipped with a flow-through cell. The meter was calibrated on a daily basis in a manner consistent with manufacturer procedures. Groundwater samples were collected once (1) water quality parameters were stabilized. Water quality parameter stabilization criteria include the following:

- Turbidity: ±10 percent for values greater than 5 NTU;
- Oxidation reduction potential: ±10 percent;
- Conductivity: ±3 percent;
- pH: ±0.1 unit; and
- Temperature: ±3 percent.

Water quality parameters are presented in Table A-1.

The groundwater samples were transferred in the field to laboratory-prepared containers and kept cool during transport to the testing laboratory. The sample containers were filled completely to eliminate headspace in the container. Chain-of-custody procedures were observed from the time of sample collection to delivery to the testing laboratory.

Quality control/quality assurance (QA/QC) samples collected during the November 2010 sampling event included a trip blank, and duplicate sample from monitoring well MW-6, labeled Duplicate-1.

Decontamination Procedures

The objective of the decontamination procedure is to minimize the potential for crosscontamination between sample locations. Sampling equipment was decontaminated in accordance with the work plan.

Table A-1

Summary of Field Quality Parameters

Ione Petroleum Contamination

Ione, Washington

			Specific		Dissolved			Well Headspace
Sample	Date		Conductivity	Turbidity	Oxygen	Temperature	ORP	PID Readings
Number	Sampled	рН	(mS/m)	(NTU)	(mg/L)	(°C)	(mV)	(ppm)
MW-1	08/05/10	7.36	319.1	1.01	6.99	14.82	95	0.0
	11/10/10	7.09	54	4.02	9.12	8.02	363	0.0
MW-2	08/06/10	6.98	383.4	0.00	3.66	14.66	95	13.6
	11/10/10	6.62	67.7	0.00	4.24	9.15	373	0.0
MW-3	08/06/10	6.76	717.3	0.09	0.02	15.16	-107	19.8
	11/10/10	6.45	101.0	0.00	0.00	9.27	-127	0.0
MW-4	08/06/10	7.50	356.0	4.38	0.17	14.88	-72	2,100
	11/10/10	6.95	81.1	0.00	2.66	8.97	196	575
MW-5	08/06/10	6.85	606.4	0.00	NR	17.16	29	2,400
	11/10/10	6.61	92.3	0.00	0.00	9.50	108	4,800
MW-6	08/05/10	6.74	757.9	16.70	0.49	14.97	-27	0.3
	11/10/10	6.52	100.0	0.00	0.00	9.14	-38	0.0
MW-7	08/06/10	7.36	329.8	6.39	1.13	14.01	-57	1.2
	11/10/10	6.83	60.1	9.21	0.00	8.11	-20	0.0
MW-8	08/06/10	6.66	508.6	0.00	NR	14.96	24	2,150
	11/10/10	6.38	90.4	0.00	0.00	9.52	-8	1,280
MW-9	11/10/10	7.15	55.4	8.16	7.53	8.37	244	0.0
MW-10	11/10/10	7.08	69.9	4.12	1.44	8.95	48	0.0
MW-11	11/10/10	7.19	55.9	0.00	7.94	8.86	236	0.0
MW-12	11/10/10	7.06	76.0	0.00	8.03	8.82	242	0.9

Notes:

NR = not reported due to instrument error - readings were outside normal range and therefore not reported.





APPENDIX B CHEMICAL ANALYTICAL DATA

DATA QUALITY ASSESSMENT SUMMARY

NWTPH-Gx,

VOLATILE ORGANIC COMPOUNDS (VOCS) BY EPA 8260B,

TOTAL LEAD BY EPA 200.8

Anatek Laboratory SDG	Samples Validated (Bold indicates the sample was qualified)
101112036 (water samples)	MW-1-111010, MW-2-111010, MW-3-111110, MW-4-111110, MW-5-111110, MW-6-111110 , MW-7-111110, MW-8-111110 , MW-9-111110, MW-10-111110, MW-11-111110, MW-12-111110, DUPLICATE 1 , TRIP BLANK
101209043 (water samples)	CABIN GRILL WELL – 120810

This report documents the results of an EPA level 2a data validation of analytical data from the analyses of water samples and the associated laboratory and field quality control (QC) samples. The review included the following:

- Chain of Custody
- Holding Times
- Surrogates
- Method and Trip Blanks
- Laboratory Control Samples
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory and Field Duplicates

DATA PACKAGE COMPLETENESS

Anatek Labs, Inc., located in Spokane, Washington, analyzed the samples evaluated as part of this data validation review. The laboratory provided all required deliverables for the validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and all identified anomalies were discussed in the case narrative.



The following sections discuss the data. Based on the review, qualification of the laboratory data was performed in association with holding time outliers and method blank contamination.

OBJECTIVE

The objective of the data validation was to review laboratory analytical procedures and QC results to evaluate whether:

- The samples were analyzed using well-defined and acceptable methods that provide detection limits below applicable regulatory criteria;
- The precision and accuracy of the data are well defined and sufficient to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The environmental samples were analyzed by one or more of the analytical methods listed in the title of this appendix.

DATA QUALITY ASSESSMENT SUMMARY

The results for each of the QC elements are summarized below. The data assessment was performed using guidance in the USEPA Contract Laboratory Program *National Functional Guidelines for Inorganic Data Review* (USEPA, 2002) and USEPA Contract Laboratory Program *National Functional Guidelines for Organic Data Review* (USEPA, 2008).

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. There were no anomalies noted on the COC forms; proper COC protocols appear to have been followed for this sampling event.

Holding Times

The holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for all analyses, with the exceptions below:

VOCs: (SDG 101112036) Samples MW-6-111110 and MW-8-111110 (styrene and vinyl chloride) were analyzed outside of the allowable holding time of 7 days for these unpreserved compounds. The reporting limits for these compounds were qualified as estimated (UJ) in these samples.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the analytes of interest, but unlikely to be found in any environmental sample. Surrogates are used for organic analyses and are added to all samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added at a known concentration and percent recoveries are calculated following analysis. All surrogate recoveries for field samples were within the laboratory control limits.

Method and Trip Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. Method blanks were analyzed with each batch of samples, at a frequency of one per twenty samples. For all sample batches, method blanks for all applicable methods were analyzed at the required frequency.

If a compound was found at a measurable concentration in the method blank, an "action level" for this compound was assigned to the associated batch samples by multiplying the concentration by five. This action level is then multiplied by any dilutions the sample may have gone through in the laboratory extraction process.

Trip Blanks are carried with the field sampler to and from the site, and these are analyzed to ensure that the transportation environment does not introduce measurable concentrations of the analytes of interest. Trip Blanks are usually analyzed at the frequency of one per every sample cooler.

None of the analytes of interest were detected above the reporting limits in any of the method blanks, with the following exceptions:

VOCs: (SDG 101112036) the trip blank analyzed with this sampling event was reported with positive results for acetone and toluene. Toluene was found in Samples MW-3-111110 (100x), MW-4-111110 (10x), MW-5-111110 (500x), MW-6-111110 (250x), MW-8-111110 (100x), and DUPLICATE-1 (100x). Therefore, the positive results for toluene were qualified as not-detected (U) due to trip blank contamination in these samples. However, the toluene concentrations are typical of a gasoline release and similar to conditions at other gasoline-contaminated sites.

Matrix Spikes/Matrix Spike Duplicates (MS/MSD)

Because the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis. One aliquot of sample is analyzed in the normal manner, and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery (%R) is calculated. Matrix spike duplicates (MSD) analyses are generally performed for organic analyses as a precision check. For some organic analytical methods, such as NWTPH-Dx, a laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) sample set is performed in lieu of a MS/MSD analysis.

For inorganic methods, the matrix spike (referred to as a "spiked sample") is typically followed by a post spike sample if any element recoveries were outside the control limits in the "spike sample".

Matrix spike analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for matrix spikes and laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The

frequency requirements were met for all analyses and the %R/RPD values were within the proper control limits.

Laboratory Control Samples/ Laboratory Control Sample Duplicates (LCS/LCSD)

A laboratory control sample is essentially a blank sample that is spiked with a known amount of analyte concentration and analyzed. It is to be treated much like a matrix spike, without the possibility for matrix interference. As there is no actual sample matrix in the analysis, the analytical expectations for accuracy and precision are usually more rigorous and qualification would apply to all samples in the batch, instead of the parent sample only.

Laboratory control sample analyses should be performed once per analytical batch or every twenty field samples, whichever is more frequent. The recovery criteria for laboratory control samples are specified in the laboratory documents as are the relative percent difference values. The frequency requirements were met for all analyses, and the %R/RPD values were within the proper control limits.

Laboratory Duplicates (Metals only)

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory, and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met in all cases.

Field Replicates/Duplicates

Field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. As mentioned above for the laboratory duplicates the RPD is used as the criteria for assessing precision, unless one or more of the samples used has a concentration greater than five times the reporting limit for that sample, the absolute difference is used instead of the RPD.

SDG 101112036: (NWTPH-Gx and Volatiles) one set of field duplicates, MW-6-111110 & DUPLICATE-1, was submitted with this SDG. The precision measurement for gasoline, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, Ethylbenzene, isopropylbenzene, and naphthalene exceeded the criteria above, and the positive results and reporting limits for these compounds were qualified (J/UJ) in these two samples.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogate, LCS/LCSD, and MS/MSD %R values. Precision was acceptable, as demonstrated by the laboratory duplicate, LCS/LCSD and MS/MSD RPD and absolute difference values, with the exceptions noted above. Data were qualified as estimated because of holding time outliers, trip blank contamination, and field duplicate precision outliers. In general, the data are acceptable for use as qualified.

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Client: Address: Attn:	GEO ENGINEERS 523 E 2ND SPOKANE, WA 99202 DAVE LAUDER				Batch Projec	#: t Na	10 101 101	1112036 NE, WA (0504-05	58-00
		Ana	alytical Res	ults	Report					
Sample Number Client Sample ID Matrix Comments	101112036-001 MW-1-111010 Water		Sampling Date Sampling Time Sample Locatio	n	11/10/2010 4:10 PM	Da Ex	te/Time Rec traction Date	eived 1 ⁷ e	1/12/2010	5:18 PM
Parameter		Result	Units	PQL	. Analysis I	Date	Analyst	Metho	d	Qualifier
Gasoline		ND	mg/L	0.1	11/14/20	10	WOZ	NWTPH	G	
			Surrogate	Data	a					
Sample Number Surrogate S 4-Bromofluo	101112036-001 Standard robenzene		Method NWTPHG			Perc	ent Recover 106.2	y (Control L 70-13	imits
Sample Number Client Sample ID Matrix Comments	101112036-002 MW-2-111010 Water		Sampling Date Sampling Time Sample Location	1	11/10/2010 3:07 PM	Da Ext	te/Time Reco traction Date	eived 11	/12/2010	5:18 PM
Parameter		Result	Units	PQL	Analysis [Date	Analyst	Method	1	Qualifier
Gasoline		ND	mg/L	0.1	11/14/20	10	WOZ	NWTPH	G	
		···· · · · ···								·
			Surrogate	Data	a					

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Client: Address: Attn:	GEO ENGINEERS 523 E 2ND SPOKANE, WA 99202 DAVE LAUDER		Batch #: Project Name:	101112036 IONE, WA 0504-058-00
		Analytical Results Re	eport	

Sample Number Client Sample ID Matrix Comments	101112036-003 MW-3-111110 Water		Sampling Date Sampling Time Sample Location	1 2 n	1/11/2010 E :20 PM E	Date/Time Recei	ved 11/12/20	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Dat	e Analyst	Method	Qualifier
Gasoline		20.2	mg/L	1	11/14/2010	WOZ	NWTPHG	
			Surrogate	Data	l			
Sample Number Surrogate S 4-Bromofluor	101112036-003 tandard obenzene		Method NWTPHG		Pe	r cent Recovery 105.9	Contro 70-	l Limits 130
Sample Number Client Sample ID Matrix Comments	101112036-004 MW-4-111110 Water		Sampling Date Sampling Time Sample Location	1 1 n	1/11/2010 [:23 PM E	Date/Time Recei	ved 11/12/20	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Dat	e Analyst	Method	Qualifier
Gasoline		1.19	mg/L	0.1	11/14/2010	WOZ	NWTPHG	
			Surrogate	Data	l			
Sample Number	101112036-004					· · · · · · · · · · · · · · · · · · ·		
Surrogate S 4-Bromofluor	tandard obenzene		Method NWTPHG		Pe	rcent Recovery 103.9	Contro 70-	I Limits 130

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-005 MW-5-111110 Water		Sampling Date Sampling Time Sample Locatio	1 5 n	1/11/2010 5:27 PM	Da Ex	ate/Time Rec straction Dat	eived 11 e	/12/2010) 5:18 PM	
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	I	Qualifier	
Gasoline		80.6	mg/L	5	11/14/20	010	WOZ	NWTPH	G		
			Surrogate	Data	1						
Sample Number Surrogate S 4-Bromofluor	101112036-005 tandard robenzene		Method NWTPHG			Perc	ent Recover 105.0	y (Control I 70-1:	L imits 30	
Sample Number Client Sample ID Matrix Comments	101112036-006 MW-6-111110 Water		Sampling Date Sampling Time Sample Locatio	1 3 n	1/11/2010 :14 PM	Da Ex	te/Time Rec traction Date	eived 11 e	/12/2010	5:18 PM	
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method		Qualifier	
Gasoline		16.6	mg/L	1	11/18/20	010	WOZ	NWTPH	3		
			Surrogate	Data							
Sample Number	101112036-006			·							
Surrogate Standard			Method			Perc	ent Recover	y c	Control Limits		

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NWTPHG

104.8

4-Bromofluorobenzene

70-130

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number	101112036-007		Sampling Date	1	1/11/2010	Da	te/Time Recei	ved	11/12/2010	5:18 PM
Client Sample ID	MW-7-111110		Sampling Time	8	:41 AM	Ex	traction Date			
Matrix	Water		Sample Locatio	n						
Comments			•							
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Meth	od	Qualifier
Gasoline		ND	mg/L	0.1	11/14/20	010	WOZ	NWTF	РНG	
			Surrogate	Data	l					
Sample Number	101112036-007									
Surrogate S	tandard		Method			Perc	ent Recovery		Control	Limits
4-Bromofluor	obenzene		NWTPHG				106.5		70-1	30
Sample Number	101112036-008		Sampling Date	1	1/11/2010	Da	te/Time Recei	ved	11/12/2010	5:18 PM
Client Sample ID	MW-8-111110		Sampling Time	4	:08 PM	Ex	traction Date			
Matrix	Water		Sample Locatio	n						
Comments										
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Meth	od	Qualifier
Gasoline		12.0	mg/L	1	11/18/20	010	WOZ	NWTF	РНG	
			Surrogate	Data						
Sample Number	101112036-008									
Surrogate S	tandard		Method			Perc	ent Recovery		Control	Limits
4-Bromofluor	obenzene		NWTPHG				106.3		70-1	30

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-009 MW-9-111110 Water		Sampling Date Sampling Time Sample Locatio	1 1 n	1/11/2010 1:45 AM	Da Ex	ate/Time Rece	ived 11/12/20	10 5:18 PM	
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier	
Gasoline		ND	mg/L	0.1	11/14/20	010	WOZ	NWTPHG		
			Surrogate	Data						
Sample Number	101112036-009									
Surrogate Standard		Method			Percent Recovery			Contro	Control Limits	
4-Bromofluor	obenzene		NWTPHG				105.9	70-	-130	
Sample Number	101112036-010		Sampling Date	1	1/11/2010	Da	te/Time Rece	ived 11/12/20	10 5:18 PM	
Client Sample ID	MW-10-111110		Sampling Time	9	:50 AM	Ex	traction Date			
Matrix Comments	Water		Sample Locatio	n						
Parameter		Result	Units	PQL	Analysis	Date	Analyst	Method	Qualifier	
Gasoline		ND	mg/L	0.1	11/14/20	010	WOZ	NWTPHG		
			Surrogate	Data				· ·		
Sample Number	101112036-010									
Surrogate Standard		Method				Perc	ent Recovery	y Control Limits		

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NWTPHG

104.1

4-Bromofluorobenzene

70-130
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Client: Address:	GEO ENGINEERS 523 E 2ND	Batch #: Project Name:	101112036 IONE, WA 0504-058-00
Attn:	SPOKANE, WA 99202 DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-011 MW-11-111110 Water		Sampling Date Sampling Time Sample Locatio	1 1 n	1/11/2010 0:46 AM	Date/Time Recei Extraction Date	ved 11/12/201	0 5:18 PM
Parameter		Result	Units	PQL	Analysis Da	ate Analyst	Method	Qualifier
Gasoline		ND	mg/L	0.1	11/14/201	0 WOZ	NWTPHG	
			Surrogate	Data	1			
Sample Number	101112036-011				· · ·			
Surrogate Standard			Method		P	ercent Recovery	Control	Limits
4-Bromofluorobenzene		NWTPHG				105.0	70-1	30
Sample Number	101112036-012		Sampling Date	1	1/11/2010	Date/Time Recei	ved 11/12/201	0 5:18 PM
Client Sample ID	MW-12-111110		Sampling Time	1	2:39 PM	Extraction Date		
Matrix Comments	water		Sample Locatio	n				
Parameter		Result	Units	PQL	Analysis Da	ate Analyst	Method	Qualifier
Gasoline		ND	mg/L	0.1	11/14/201	0 WOZ	NWTPHG	
			Surrogate	Data	1			
Sample Number	101112036-012							
Surrogate St	tandard		Method		P	ercent Recovery	Control	Limits
4-Bromofluor	obenzene		NWTPHG			109.9	70-1	30

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-013 DUPLICATE 1 Water		Sampling Date Sampling Time Sample Locatio	1 1: on	1/11/2010 Da 2:35 PM Ex	ate/Time Re straction Da	ceived 11/12/20 te	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline		10.8	mg/L	5	11/18/2010	WOZ	NWTPHG	
			Surrogate	e Data				
Sample Number	101112036-013							
Surrogate Standard 4-Bromofluorobenzene		Method			Perc	Percent Recovery Control Limit		
			NWTPHG			104.9	70-	70-130

Authorized Signature

Kathleen a

Kathy Sattler, Lab Manager

MCL EPA's Maximum Contaminant Level

ND Not Detected

PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory. The results reported relate only to the samples indicated. Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client:	GEO ENGINEERS
Address:	523 E 2ND
	SPOKANE, WA 99202
Attn:	DAVE LAUDER

101112036 Batch #: Project Name: IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-001 MW-1-111010 Water		Sampling Date Sampling Time Sample Locatio	1^ 4: n	I/10/2010 Da 10 PM Ex	te/Time Rec traction Dat	eived 11/12/2010 e)5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrach	loroethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1,1-Trichloroe	ethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrach	loroethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1,2-Trichloroe	ethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1-Dichloroeth	ane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1-Dichloroeth	ene	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	
1,1-dichloropro	pene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2,3-Trichlorob	penzene	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	
1,2,3-Trichlorop	propane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2,4-Trichlorot	benzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2,4-Trimethyl	benzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2-Dibromo-3-	chloropropane(DBCP)	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2-Dibromoeth	ane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2-Dichlorober	izene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2-Dichloroeth	ane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2-Dichloropro	pane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,3,5-Trimethyl	benzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,3-Dichlorober	zene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,3-Dichloropro	pane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,4-Dichlorober	nzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
2,2-Dichloropro	pane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
2-Chlorotoluen	e	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-001 MW-1-111010 Water		Sampling Date Sampling Time Sample Locatio	, n	11/10/2010 E 4:10 PM E	Date/Time Re Extraction Da	ceived Ite	11/12/20	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	e Analyst	Met	hod	Qualifier
2-hexanone		ND	ug/L	2.5	11/14/2010	WOZ	EPA 8	3260C	
4-Chlorotoluen	e	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Acetone		ND	ug/L	2.5	11/14/2010	WOZ	EPA 8	3260C	
Acrylonitrile		ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Benzene		ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Bromobenzene		ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Bromochlorome	ethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Bromodichloror	nethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Bromoform		ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Bromomethane		ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Carbon disulfide	e	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Carbon Tetrach	lloride	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Chlorobenzene		ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Chloroethane		ND	ug/L	0.5	11/14/2010	woz	EPA 8	3260C	
Chloroform		ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
Chloromethane		ND	ug/L	0.5	11/14/2010	woz	EPA 8	260C	
cis-1,2-dichloro	ethene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
cis-1,3-Dichloro	propene	ND	ug/L	0.5	11/14/2010	woz	EPA 8	260C	
Dibromochloron	nethane	ND	ug/L	0.5	11/14/2010	woz	EPA 8	260C	
Dibromomethar	ie	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
Dichlorodifluoro	methane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
Ethylbenzene		ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
Hexachlorobuta	diene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER Batch #: 10111 Project Name: IONE,

101112036

: IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-001 MW-1-111010 Water		Sampling Date Sampling Time Sample Locatio	1 4 n	1/10/2010 D :10 PM E	Date/Time Red Extraction Dat	ceived te	11/12/2010	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	e Analyst	Met	hod	Qualifier
Isopropylbenze	ene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
m+p-Xylene		ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Methyl ethyl ke	tone (MEK)	ND	ug/L	2.5	11/14/2010	WOZ	EPA 8	3260C	
Methyl isobutyl	ketone (MIBK)	ND	ug/L	2.5	11/14/2010	WOZ	EPA 8	3260C	
Methylene chlo	ride	ND	ug/L	2.5	11/14/2010	WOZ	EPA 8	3260C	
methyl-t-butyl e	ether (MTBE)	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Naphthalene		ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
n-Butylbenzene	9	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
n-Propylbenzer	ne	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
o-Xylene		ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
p-isopropyltolue	ene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
sec-Butylbenze	ene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Styrene		ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
tert-Butylbenze	ne	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Tetrachloroethe	ene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Toluene		ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
trans-1,2-Dichle	proethene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
trans-1,3-Dichle	propropene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Trichloroethene)	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Trichloroflouror	nethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	
Vinyl Chloride		ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	3260C	

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Client: Address: Attn:	GEO ENGINEERS 523 E 2ND SPOKANE, WA 99202 DAVE LAUDER		Batch Projec	#: t Name:	1011120 IONE, W)36 √A 0504-058-00		
		Analytical Result	s Report					
Sample Number Client Sample ID Matrix Comments	101112036-001 MW-1-111010 Water	Sampling Date Sampling Time Sample Location	11/10/2010 4:10 PM	Date/Time Extraction	e Received n Date	11/12/2010 5:18 PM		

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
		Surrogat	e Data				
Sample Number 101112036-001							······································
Surrogate Standard		Method		Perc	ent Recovery	Contro	l Limits
1,2-Dichlorobenzene-d4		EPA 8260	C		106.0	70	-130
4-Bromofluorobenzene		EPA 8260C			103.6 70-13		
Toluene-d8		EPA 8260	C		99.2	70	-130

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 Client:
 GEO ENGINEERS
 Batch #:
 101112036

 Address:
 523 E 2ND
 Project Name:
 IONE, WA 0504-058-00

 SPOKANE, WA 99202
 DAVE LAUDER
 Example
 Example

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-002 MW-2-111010 Water		Sampling Date Sampling Time Sample Locatio	1 3 n	1/10/2010 E :07 PM E	Date/Time Ree Extraction Da	ceived te	11/12/201	0 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	e Analyst	Meti	nod	Qualifier
1,1,1,2-Tetrach	loroethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,1,1-Trichloroe	ethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,1,2,2-Tetrach	loroethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,1,2-Trichloroe	ethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,1-Dichloroeth	ane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,1-Dichloroeth	nene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,1-dichloropro	pene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,2,3-Trichlorol	penzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,2,3-Trichlorop	propane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,2,4-Trichlorol	penzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,2,4-Trimethyl	benzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,2-Dibromo-3-	chloropropane(DBCP)	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,2-Dibromoeth	nane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,2-Dichlorober	nzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,2-Dichloroeth	ane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,2-Dichloropro	ppane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,3,5-Trimethyl	benzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,3-Dichlorober	nzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,3-Dichloropro	ppane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
1,4-Dichlorober	nzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
2,2-Dichloropro	ppane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
2-Chlorotoluen	e	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8	260C	
2-hexanone		ND	ug/L	2.5	11/14/2010	WOZ	EPA 8	260C	

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Client: **GEO ENGINEERS** Address: 523 E 2ND SPOKANE, WA 99202 Attn: **DAVE LAUDER**

Batch #: 101112036 Project Name:

IONE, WA 0504-058-00

Analytical Results Report

Sample Number101112036-002Client Sample IDMW-2-111010MatrixWaterComments	s s s	ampling Date ampling Time ample Locati	e 1 ⁻ e 3: on	1/10/2010 D a 07 PM Ex	te/Time Re traction Da	ceived 11/12/201 te	10 5:18 PM
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorotoluene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Acetone	ND	ug/L	2.5	11/14/2010	woz	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	
Bromoform	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	
Bromomethane	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	
Chloroethane	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	
Chloroform	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	
Chloromethane	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	11/14/2010	woz	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER Batch #: 1 Project Name:

101112036

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-002 MW-2-111010 Water		Sampling Date Sampling Time Sample Locatio	'n	11/10/2010 3:07 PM	Date/Time Re Extraction Da	ceived ite	11/12/20	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Da	ate Analyst	Me	thod	Qualifier
m+p-Xylene		ND	ug/L	0.5	11/14/2010	0 WOZ	EPA	8260C	
Methyl ethyl ke	etone (MEK)	ND	ug/L	2.5	11/14/2010	o woz	EPA	8260C	
Methyl isobuty	l ketone (MIBK)	ND	ug/L	2.5	11/14/2010	o woz	EPA	8260C	
Methylene chic	oride	ND	ug/L	2.5	11/14/2010	o woz	EPA	8260C	
methyl-t-butyl	ether (MTBE)	ND	ug/L	0.5	11/14/2010	o woz	EPA	8260C	
Naphthalene		ND	ug/L	0.5	11/14/2010	o woz	EPA	8260C	
n-Butyibenzen	е	ND	ug/L	0.5	11/14/2010	o woz	EPA	8260C	
n-Propylbenze	ne	ND	ug/L	0.5	11/14/2010	woz	EPA	8260C	
o-Xylene		ND	ug/L	0.5	11/14/2010	woz	EPA	8260C	
p-isopropyltolu	ene	ND	ug/L	0.5	11/14/2010	o woz	EPA	8260C	
sec-Butylbenze	ene	ND	ug/L	0.5	11/14/2010	woz	EPA	8260C	
Styrene		ND	ug/L	0.5	11/14/2010	woz	EPA	8260C	
tert-Butylbenze	ene	ND	ug/L	0.5	11/14/2010) woz	EPA	8260C	
Tetrachloroeth	ene	ND	ug/L	0.5	11/14/2010	woz	EPA	8260C	
Toluene		ND	ug/L	0.5	11/14/2010	woz	EPA	8260C	
trans-1,2-Dichl	oroethene	ND	ug/L	0.5	11/14/2010	woz	EPA	8260C	
trans-1,3-Dichl	oropropene	ND	ug/L	0.5	11/14/2010	woz	EPA	8260C	
Trichloroethen	e	ND	ug/L	0.5	11/14/2010) woz	EPA	8260C	
Trichloroflouro	methane	ND	ug/L	0.5	11/14/2010	woz	EPA	8260C	
Vinyl Chloride		ND	ug/L	0.5	11/14/2010) woz	EPA	3260C	

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Client: Address: Attn:	GEO ENGINEERS 523 E 2ND SPOKANE, WA 99202 DAVE LAUDER		Batch #: Project Name:	101112036 IONE, WA 0504-058-00
		Analytical Results	Report	
Sample Number	101112036-002	Sampling Date	11/10/2010 Date/Tim	e Received 11/12/2010 5:18 PM
Client Sample ID	MW-2-111010	Sampling Time	3:07 PM Extractio	n Date
Matrix	Water	Sample Location		
Comments				
Parameter		Result Units PQ	_ Analysis Date Analy	st Method Qualifier

Surrogate Data 101112036-002 Sample Number Surrogate Standard Method Percent Recovery **Control Limits** 1,2-Dichlorobenzene-d4 EPA 8260C 104.4 70-130 4-Bromofluorobenzene EPA 8260C 100.8 70-130 Toluene-d8 EPA 8260C 97.2 70-130

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Client: **GEO ENGINEERS** Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER

Batch #: 101112036 Project Name:

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-003 MW-3-111110 Water		Sampling Date Sampling Time Sample Location	1 2: 1	1/11/2010 Da :20 PM Ex	te/Time Rec traction Dat	eived 11/12/2010 e) 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrach	loroethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1,1-Trichloroe	thane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrach	loroethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1,2-Trichloroe	thane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroeth	ane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroeth	ene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1-dichloroprop	bene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichlorob	enzene	ND	ug/L	5	11/18/2010	woz	EPA 8260C	
1,2,3-Trichlorop	ropane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trichlorob	enzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trimethylk	penzene	259	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2-Dibromo-3-0	chloropropane(DBCP)	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2-Dibromoeth	ane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloroben	zene	ND	ug/L	5	11/18/2010	woz	EPA 8260C	
1,2-Dichloroetha	ane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloropro	pane	ND	ug/L	5	11/18/2010	woz	EPA 8260C	
1,3,5-Trimethylk	benzene	136	ug/L	5	11/18/2010	woz	EPA 8260C	
1,3-Dichloroben	zene	ND	ug/L	5	11/18/2010	woz	EPA 8260C	
1,3-Dichloropro	pane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,4-Dichloroben	zene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
2,2-Dichloropro	pane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
2-Chlorotoluene	•	ND	ug/L	5	11/18/2010	woz	EPA 8260C	
2-hexanone		ND	ug/L	25	11/18/2010	WOZ	EPA 8260C	

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-003 MW-3-111110 Water		Sampling Date Sampling Time Sample Locatio	1 2 m	11/11/2010 D 2:20 PM E	ate/Time Re xtraction Da	ceived 11/12/20 te	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorotoluen	e	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Acetone		ND	ug/L	25	11/18/2010	woz	EPA 8260C	
Acrylonitrile		ND	ug/L	5	11/18/2010	woz	EPA 8260C	
Benzene		1940	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Bromobenzene	9	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Bromochlorom	ethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Bromodichloro	methane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Bromoform		ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Bromomethane	9	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Carbon disulfid	e	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Carbon Tetrach	nloride	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Chlorobenzene	•	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Chloroethane		ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Chloroform		ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Chloromethane	9	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
cis-1,2-dichloro	ethene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
cis-1,3-Dichloro	opropene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Dibromochloro	methane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Dibromometha	ne	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Dichlorodifluoro	omethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Ethylbenzene		314	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Hexachlorobuta	adiene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Isopropylbenze	ne	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 DAVE LAUDER Attn:

Batch #: Project Name:

101112036

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-003 MW-3-111110 Water		Sampling Date Sampling Time Sample Locatio	1 2 n	1/11/2010 2:20 PM	Date/Time Re Extraction Da	ceived te	11/12/201	0 5:18 PM
Parameter		Result	Units	PQL	Analysis Da	ate Analyst	Metl	hod	Qualifier
m+p-Xylene		1680	ug/L	50	11/18/201	0 WOZ	EPA 8	260C	
Methyl ethyl ke	etone (MEK)	ND	ug/L	25	11/18/201	0 WOZ	EPA 8	260C	
Methyl isobuty	l ketone (MIBK)	ND	ug/L	25	11/18/201	0 WOZ	EPA 8	260C	
Methylene chlo	oride	ND	ug/L	25	11/18/201	0 woz	EPA 8	260C	
methyl-t-butyl e	ether (MTBE)	ND	ug/L	5	11/18/201	0 WOZ	EPA 8	260C	
Naphthalene		84.3	ug/L	5	11/18/201	0 WOZ	EPA 8	260C	
n-Butylbenzen	e	ND	ug/L	5	11/18/201	0 woz	EPA 8	260C	
n-Propylbenze	ne	ND	ug/L	5	11/18/201	0 WOZ	EPA 8	260C	
o-Xylene		653	ug/L	50	11/18/201	0 WOZ	EPA 8	260C	
p-isopropyltolu	ene	ND	ug/L	5	11/18/201	0 woz	EPA 8	260C	
sec-Butylbenze	ene	ND	ug/L	5	11/18/201	0 WOZ	EPA 8	260C	
Styrene		ND	ug/L	5	11/18/201	0 WOZ	EPA 8	260C	
tert-Butylbenze	ene	ND	ug/L	5	11/18/201	0 woz	EPA 8	260C	
Tetrachloroeth	ene	ND	ug/L	5	11/18/201	0 woz	EPA 8	260C	
Toluene		2870	ug/L	50	11/18/201	0 WOZ	EPA 8	260C	
trans-1,2-Dichl	oroethene	ND	ug/L	5	11/18/201	0 WOZ	EPA 8	260C	
trans-1,3-Dichl	oropropene	ND	ug/L	5	11/18/201	0 WOZ	EPA 8	260C	
Trichloroethene	e	ND	ug/L	5	11/18/201	0 woz	EPA 8	260C	
Trichloroflouro	methane	ND	ug/L	5	11/18/201	0 woz	EPA 8	260C	
Vinyl Chloride		ND	ug/L	5	11/18/201	0 woz	EPA 8	260C	

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Client: Address: Attn:	GEO ENGINEERS 523 E 2ND SPOKANE, WA 99202 DAVE LAUDER		Batch Projec	#: t Name:	1011120 IONE, W	36 'A 0504-058-00	
		Analytical Result	ts Report				
Sample Number	101112036-003	Sampling Date	11/11/2010	Date/Time	e Received	11/12/2010 5:18 P	M
Client Sample ID	MW-3-111110	Sampling Time	2:20 PM	Extraction	n Date		
Matrix	Water	Sample Location					
Comments							

Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
			Surrogat	e Data				
Sample Number	101112036-003					······		
Surrogate	Standard		Method		Perc	ent Recovery	Contr	ol Limits
1,2-Dichlor	obenzene-d4		EPA 8260	C		102.0	70	0-130
4-Bromoflu	orobenzene		EPA 8260	C		94.8	70	0-130
Toluene-d8	3		EPA 8260	C		94.0	70	D-130

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER
 Batch #:
 10

 Project Name:
 IO

101112036

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-004 MW-4-111110 Water		Sampling Date Sampling Time Sample Locatio	, n	11/11/2010 1:23 PM	Date/Time Re Extraction Da	ceived ite	11/12/20	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Dat	te Analyst	Me	thod	Qualifier
1,1,1,2-Tetrach	hloroethane	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,1,1-Trichloro	ethane	ND	ug/L	5	11/18/2010	woz	EPA	8260C	
1,1,2,2-Tetrach	hloroethane	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,1,2-Trichloro	ethane	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,1-Dichloroeth	hane	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,1-Dichloroeth	nene	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,1-dichloropro	opene	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,2,3-Trichloro	benzene	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,2,3-Trichloro	propane	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,2,4-Trichloro	benzene	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,2,4-Trimethy	Ibenzene	24.9	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,2-Dibromo-3-	-chloropropane(DBCP)	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,2-Dibromoetl	hane	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,2-Dichlorobe	nzene	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,2-Dichloroeth	nane	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,2-Dichloropro	opane	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,3,5-Trimethy	Ibenzene	19.3	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,3-Dichlorobe	nzene	ND	ug/L	5	11/18/2010	woz	EPA	8260C	
1,3-Dichloropro	opane	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
1,4-Dichlorobe	nzene	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
2,2-Dichloropro	opane	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
2-Chlorotoluen	e	ND	ug/L	5	11/18/2010	WOZ	EPA	8260C	
2-hexanone		ND	ug/L	25	11/18/2010	WOZ	EPA	8260C	

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-004 MW-4-111110 Water		Sampling Date Sampling Time Sample Locatio	1' 1: • n	1/11/2010 Da 23 PM Ex	ate/Time Rec straction Dat	:eived 11/12/201 :e	0 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorotoluene		ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Acetone		ND	ug/L	25	11/18/2010	WOZ	EPA 8260C	
Acrylonitrile		ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Benzene		9.36	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Bromobenzene		ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Bromochloromet	hane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Bromodichlorom	ethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Bromoform		ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Bromomethane		ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Carbon disulfide		ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Carbon Tetrachi	oride	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Chlorobenzene		ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Chloroethane		ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Chloroform		ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Chloromethane		ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
cis-1,2-dichloroe	thene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
cis-1,3-Dichlorop	propene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Dibromochlorom	ethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Dibromomethane	9	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Dichlorodifluoron	nethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Ethylbenzene		7.04	ug/L	5	11/18/2010	woz	EPA 8260C	
Hexachlorobutac	liene	ND	ug/L	5	11/18/2010	woz	EPA 8260C	
lsopropylbenzen	e	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER Batch #: Project Name:

101112036

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-004 MW-4-111110 Water		Sampling Date Sampling Time Sample Locatic	1 1: >n	1/11/2010 D a 23 PM E >	ate/Time Re straction Da	ceived 11/12/20 [.] te	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
m+p-Xylene		94.5	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Methyl ethyl ke	etone (MEK)	ND	ug/L	25	11/18/2010	WOZ	EPA 8260C	
Methyl isobuty	l ketone (MIBK)	ND	ug/L	25	11/18/2010	WOZ	EPA 8260C	
Methylene chlo	oride	ND	ug/L	25	11/18/2010	woz	EPA 8260C	
methyl-t-butyl e	ether (MTBE)	ND	ug/L	5	11/18/2010	woz	EPA 8260C	
Naphthalene		ND	ug/L	5	11/18/2010	woz	EPA 8260C	
n-Butylbenzen	e	ND	ug/L	5	11/18/2010	woz	EPA 8260C	
n-Propylbenze	ne	ND	ug/L	5	11/18/2010	woz	EPA 8260C	
o-Xylene		55.6	ug/L	5	11/18/2010	woz	EPA 8260C	
p-isopropyltolu	ene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
sec-Butylbenze	ene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Styrene		ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	Q3
tert-Butylbenze	ene	ND	ug/L	5	11/18/2010	woz	EPA 8260C	
Tetrachloroeth	ene	ND	ug/L	5	11/18/2010	woz	EPA 8260C	
Toluene		78.3	ug/L	5	11/18/2010	WOZ	EPA 8260C	
trans-1,2-Dichl	oroethene	ND	ug/L	5	11/18/2010	woz	EPA 8260C	
trans-1,3-Dichl	oropropene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Trichloroethen	e	ND	ug/L	5	11/18/2010	woz	EPA 8260C	
Trichloroflouro	methane	ND	ug/L	5	11/18/2010	woz	EPA 8260C	
Vinyl Chloride		ND	ug/L	5	11/18/2010	woz	EPA 8260C	Q3

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Client:	GEO ENGINEERS		Batch #:	101112036
Address:	523 E 2ND		Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202			
Attn:	DAVE LAUDER			
		Analytical Desults D		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-004 MW-4-111110 Water		Sampling Date Sampling Time Sample Locatio	1* 1: n	1/11/2010 D 23 PM E	ate/Time Recei xtraction Date	ved 11/12/2010	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	e Analyst	Method	Qualifier
			Surrogate	Data				
Sample Number	101112036-004					<u>.</u>		
Surrogate St	tandard		Method		Per	cent Recovery	Control L	imits
1,2-Dichlorob	enzene-d4		EPA 8260C			101.6	70-13	0
4-Bromofluor	obenzene		EPA 8260C			94.0	70-13	0
Toluene-d8			EPA 8260C	:		93.6	70-13	0

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER Batch #: 10 Project Name: 10

101112036

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-005 MW-5-111110 Water		Sampling Date Sampling Time Sample Locatio	1 5 n	1/11/2010 E :27 PM E	Date/Time Re Extraction Da	ceived 11/12 te	2/2010 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	e Analyst	Method	Qualifier
1,1,1,2-Tetrach	loroethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,1,1-Trichloroe	ethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrach	loroethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,1,2-Trichloroe	ethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroeth	nane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroeth	nene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,1-dichloropro	pene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichlorol	benzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichlorop	propane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trichlorol	penzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trimethyl	benzene	1060	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,2-Dibromo-3-	chloropropane(DBCP)	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,2-Dibromoeth	nane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,2-Dichlorober	nzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloroeth	ane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloropro	ppane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,3,5-Trimethyl	benzene	376	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,3-Dichlorober	nzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,3-Dichloropro	pane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,4-Dichlorober	nzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
2,2-Dichloropro	opane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
2-Chlorotoluen	e	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
2-hexanone		ND	ug/L	1250	11/18/2010	WOZ	EPA 8260C	

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-005 MW-5-111110 Water		Sampling Date Sampling Time Sample Locatio	1′ 5: n	1/11/2010 D 27 PM E	ate/Time Re xtraction Da	ceived te	11/12/201	0 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Meth	od	Qualifier
4-Chlorotoluen	e	ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
Acetone		ND	ug/L	1250	11/18/2010	WOZ	EPA 82	260C	
Acrylonitrile		ND	ug/L	250	11/18/2010	woz	EPA 82	260C	
Benzene		525	ug/L	250	11/18/2010	woz	EPA 82	260C	
Bromobenzene	9	ND	ug/L	250	11/18/2010	woz	EPA 82	260C	
Bromochlorom	ethane	ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
Bromodichloro	methane	ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
Bromoform		ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
Bromomethane	•	ND	ug/L	250	11/18/2010	woz	EPA 82	260C	
Carbon disulfid	е	ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
Carbon Tetrach	nloride	ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
Chlorobenzene		ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
Chloroethane		ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
Chloroform		ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
Chloromethane	•	ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
cis-1,2-dichloro	ethene	ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
cis-1,3-Dichloro	propene	ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
Dibromochloror	methane	ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
Dibromometha	ne	ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
Dichlorodifluoro	omethane	ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
Ethylbenzene		2120	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
Hexachlorobuta	adiene	ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	
Isopropylbenze	ne	ND	ug/L	250	11/18/2010	WOZ	EPA 82	260C	

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER Batch #: Project Name:

101112036

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-005 MW-5-111110 Water		Sampling Date Sampling Time Sample Locatio	1 5 0 n	11/11/2010 5:27 PM	Date/Time Re Extraction Da	ceived ite	11/12/20	10 5:18 PM
Parameter		Result	Units	PQL	Analysis D	ate Analyst	Me	thod	Qualifier
m+p-Xylene		9330	ug/L	250	11/18/201	0 WOZ	EPA	8260C	
Methyl ethyl ke	etone (MEK)	ND	ug/L	1250	11/18/201	0 WOZ	EPA	8260C	
Methyl isobuty	l ketone (MIBK)	ND	ug/L	1250	11/18/201	0 WOZ	EPA	8260C	
Methylene chlo	oride	ND	ug/L	1250	11/18/201	0 WOZ	EPA	8260C	
methyl-t-butyl	ether (MTBE)	ND	ug/L	250	11/18/201	0 WOZ	EPA	8260C	
Naphthalene		ND	ug/L	250	11/18/201	0 WOZ	EPA	8260C	
n-Butylbenzen	e	ND	ug/L	250	11/18/201	0 WOZ	EPA	8260C	
n-Propylbenze	ne	ND	ug/L	250	11/18/201	0 WOZ	EPA	8260C	
o-Xylene		3360	ug/L	250	11/18/201	0 WOZ	EPA	8260C	
p-isopropyltolu	ene	ND	ug/L	250	11/18/201	0 WOZ	EPA	8260C	
sec-Butylbenze	ene	ND	ug/L	250	11/18/201	0 WOZ	EPA	8260C	
Styrene		ND	ug/L	250	11/18/201	0 WOZ	EPA	8260C	
tert-Butylbenze	ene	ND	ug/L	250	11/18/201	0 woz	EPA	8260C	
Tetrachloroeth	ene	ND	ug/L	250	11/18/201	0 WOZ	EPA	8260C	
Toluene		8420	ug/L	250	11/18/201	0 WOZ	EPA	8260C	
trans-1,2-Dichl	oroethene	ND	ug/L	250	11/18/201	0 WOZ	EPA	8260C	
trans-1,3-Dichl	oropropene	ND	ug/L	250	11/18/201	0 woz	EPA	8260C	
Trichloroethen	e	ND	ug/L	250	11/18/201	o woz	EPA	8260C	
Trichloroflouro	methane	ND	ug/L	250	11/18/201	0 woz	EPA	8260C	
Vinyl Chloride		ND	ug/L	250	11/18/201	o woz	EPA	8260C	

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Client: Address: Attn:	GEO ENGINEERS 523 E 2ND SPOKANE, WA 99202 DAVE LAUDER		Batch Projec	#: 1011120 t Name: IONE, W	036 /A 0504-058-00
		Analytical Resul	ts Report		
Sample Number Client Sample ID	101112036-005 MW-5-111110	Sampling Date Sampling Time	11/11/2010 5:27 PM	Date/Time Received Extraction Date	11/12/2010 5:18 PM

Sample Location

Comments								
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
			Surrogate	e Data				
Sample Number	101112036-005	• .						
Surrogate	Standard		Method		Perc	ent Recovery	Contro	ol Limits
1,2-Dichloro	obenzene-d4		EPA 8260	С		104.8	70	-130
4-Bromofluc	probenzene		EPA 8260	С		93.6	70	-130
Toluene-d8			EPA 8260	С		95.6	70	-130

Certifications held by Anatek Labs iD: EPA: ID00013; AZ:0701; CO: ID00013; FL(NELAP):E87893; ID: ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR: ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA: WA00169; CA:Cert2632; ID: WA00169; WA:C585; MT:Cert0095

Water

Matrix

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER Batch #: 1 Project Name: 10

101112036

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-006 MW-6-111110 Water		Sampling Date Sampling Time Sample Location	1 3 n	1/11/2010 ::14 PM	Date/Time Re Extraction Da	ceived te	11/12/201	0 5:18 PM
Parameter		Result	Units	PQL	Analysis Da	te Analyst	Meth	od	Qualifier
1,1,1,2-Tetrac	hloroethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8	260C	
1,1,1-Trichloro	pethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8	260C	
1,1,2,2-Tetrac	hloroethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8	260C	
1,1,2-Trichlord	bethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8	260C	
1,1-Dichloroet	hane	ND	ug/L	125	11/22/2010	WOZ	EPA 8	260C	
1,1-Dichloroet	hene	ND	ug/L	125	11/22/2010	WOZ	EPA 8	260C	
1,1-dichloropro	opene	ND	ug/L	125	11/22/2010	WOZ	EPA 8	260C	
1,2,3-Trichlord	obenzene	ND	ug/L	125	11/22/2010	WOZ	EPA 8	260C	
1,2,3-Trichloro	propane	ND	ug/L	125	11/22/2010	WOZ	EPA 8	260C	
1,2,4-Trichlord	obenzene	ND	ug/L	125	11/22/2010	WOZ	EPA 8	260C	
1,2,4-Trimethy	lbenzene	162	ug/L	125	11/22/2010	WOZ	EPA 8	260C	
1,2-Dibromo-3	-chloropropane(DBCP)	ND	ug/L	125	11/22/2010	WOZ	EPA 8	260C	
1,2-Dibromoet	hane	ND	ug/Ł	125	11/22/2010	WOZ	EPA 82	260C	
1,2-Dichlorobe	enzene	ND	ug/L	125	11/22/2010	WOZ	EPA 82	260C	
1,2-Dichloroet	hane	ND	ug/L	125	11/22/2010	WOZ	EPA 82	260C	
1,2-Dichloropr	opane	ND	ug/L	125	11/22/2010	WOZ	EPA 82	260C	
1,3,5-Trimethy	lbenzene	193	ug/L	125	11/22/2010	WOZ	EPA 82	260C	
1,3-Dichlorobe	enzene	ND	ug/L	125	11/22/2010	WOZ	EPA 82	260C	
1,3-Dichloropr	opane	ND	ug/L	125	11/22/2010	WOZ	EPA 82	260C	
1,4-Dichlorobe	enzene	ND	ug/L	125	11/22/2010	WOZ	EPA 82	260C	
2,2-Dichloropr	opane	ND	ug/L	125	11/22/2010	WOZ	EPA 82	260C	
2-Chlorotoluer	ne	ND	ug/L	125	11/22/2010	WOZ	EPA 82	260C	
2-hexanone		ND	ug/L	625	11/22/2010	WOZ	EPA 82	260C	

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-006 MW-6-111110 Water		Sampling Date Sampling Time Sample Locatio	11 3: •n	1/11/2010 Da 14 PM Ex	te/Time Rec traction Dat	ceived 11/12/2010 te	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorotoluen	e	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Acetone		ND	ug/L	625	11/22/2010	WOZ	EPA 8260C	
Acrylonitrile		ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Benzene		3900	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Bromobenzene	e	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Bromochlorom	ethane	ND	ug/L	125	11/22/2010	woz	EPA 8260C	
Bromodichloro	methane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Bromoform		ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Bromomethane	9	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Carbon disulfid	e	ND	ug/L	125	11/22/2010	woz	EPA 8260C	
Carbon Tetrach	nloride	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Chlorobenzene	9	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Chloroethane		ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Chloroform		ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Chloromethane	9	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
cis-1,2-dichloro	ethene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
cis-1,3-Dichloro	propene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Dibromochloror	methane	ND	ug/L	125	11/22/2010	woz	EPA 8260C	
Dibromometha	ne	ND	ug/L	125	11/22/2010	woz	EPA 8260C	
Dichlorodifluoro	omethane	ND	ug/L	125	11/22/2010	woz	EPA 8260C	
Ethylbenzene		873	ug/L	125	11/22/2010	woz	EPA 8260C	
Hexachlorobuta	adiene	ND	ug/L	125	11/22/2010	woz	EPA 8260C	
Isopropylbenze	ne	162	ug/L	125	11/22/2010	woz	EPA 8260C	

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER

Batch #:10Project Name:IC

101112036 IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-006 MW-6-111110 Water	:	Sampling Date Sampling Time Sample Locatio	1 3 • n	1/11/2010 Da :14 PM Ex	ate/Time Rec straction Da	ceived 11/12/20 ⁻ te	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
m+p-Xylene		1410	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Methyl ethyl ke	etone (MEK)	ND	ug/L	625	11/22/2010	woz	EPA 8260C	
Methyl isobutyl	l ketone (MIBK)	ND	ug/L	625	11/22/2010	woz	EPA 8260C	
Methylene chlo	oride	ND	ug/L	625	11/22/2010	woz	EPA 8260C	
methyl-t-butyl e	ether (MTBE)	ND	ug/L	125	11/22/2010	woz	EPA 8260C	
Naphthalene		200	ug/L	125	11/22/2010	WOZ	EPA 8260C	
n-Butylbenzene	e	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
n-Propylbenzer	ne	144	ug/L	125	11/22/2010	woz	EPA 8260C	
o-Xylene		1280	ug/L	125	11/22/2010	WOZ	EPA 8260C	
p-isopropyltolu	ene	ND	ug/L	125	11/22/2010	woz	EPA 8260C	
sec-Butylbenze	ene	ND	ug/L	125	11/22/2010	woz	EPA 8260C	
Styrene		ND	ug/L	125	11/22/2010	woz	EPA 8260C	H1
tert-Butylbenze	ene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Tetrachloroethe	ene	ND	ug/L	125	11/22/2010	woz	EPA 8260C	
Toluene		466	ug/L	125	11/22/2010	WOZ	EPA 8260C	
trans-1,2-Dichle	oroethene	ND	ug/L	125	11/22/2010	woz	EPA 8260C	
trans-1,3-Dichle	oropropene	ND	ug/L	125	11/22/2010	woz	EPA 8260C	
Trichloroethene	e	ND	ug/L	125	11/22/2010	woz	EPA 8260C	
Trichloroflouror	methane	ND	ug/L	125	11/22/2010	woz	EPA 8260C	
Vinyl Chloride		ND	ug/L	125	11/22/2010	woz	EPA 8260C	H1

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Client: Address: Attn:	GEO ENGINEERS 523 E 2ND SPOKANE, WA 99202 DAVE LAUDER		Batch #: Project Name:	101112036 IONE, WA 0504-058-00
		Analytical Results R	eport	

Sample Number Client Sample ID Matrix Comments	101112036-006 MW-6-111110 Water		Sampling Date Sampling Time Sample Locatio	11 3: n	/11/2010 D 14 PM E	ate/Time Receiv xtraction Date	ed 11/12/2010	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
			Surrogate	Data				
Sample Number	101112036-006					<u></u>		
Surrogate St	tandard		Method		Per	cent Recovery	Control L	imits
1,2-Dichlorob	enzene-d4		EPA 8260C			102.0	70-13	0
4-Bromofluor	obenzene		EPA 8260C			96.0	70-13	0
Toluene-d8			EPA 8260C			94.0	70-13	0

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Client:GEO ENGINEERSBatch #:101112036Address:523 E 2NDProject Name:IONE, WA 0504-058-00SPOKANE, WA 99202SPOKANE, WA 09202IONEIONEAttn:DAVE LAUDERIONEIONE

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-007 MW-7-111110 Water		Sampling Date Sampling Time Sample Locatio	1 8 n	1/11/2010 D :41 AM E	ate/Time Re xtraction Da	ceived te	11/12/20 [,]	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	e Analyst	Met	hod	Qualifier
1,1,1,2-Tetrach	loroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
1,1,1-Trichloroe	ethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
1,1,2,2-Tetrach	loroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
1,1,2-Trichloroe	ethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
1,1-Dichloroeth	ane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
1,1-Dichloroeth	iene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
1,1-dichloropro	pene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
1,2,3-Trichlorol	penzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
1,2,3-Trichloro	propane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
1,2,4-Trichlorol	benzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
1,2,4-Trimethyl	benzene	ND	ug/L	0.5	11/17/2010	woz	EPA 8	3260C	
1,2-Dibromo-3-	chloropropane(DBCP)	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
1,2-Dibromoeth	nane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
1,2-Dichlorober	nzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
1,2-Dichloroeth	ane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
1,2-Dichloropro	ppane	ND	ug/L	0.5	11/17/2010	woz	EPA 8	3260C	
1,3,5-Trimethyl	benzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
1,3-Dichlorober	nzene	ND	ug/L	0.5	11/17/2010	woz	EPA 8	3260C	
1,3-Dichloropro	pane	ND	ug/L	0.5	11/17/2010	woz	EPA 8	3260C	
1,4-Dichlorober	nzene	ND	ug/L	0.5	11/17/2010	woz	EPA 8	3260C	
2,2-Dichloropro	pane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
2-Chlorotoluen	e	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
2-hexanone		ND	ug/L	2.5	11/17/2010	WOZ	EPA 8	3260C	

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-007 MW-7-111110 Water		Sampling Date Sampling Time Sample Locatio	n n	11/11/2010 E 3:41 AM E	Date/Time Re Extraction Da	ceived ate	11/12/20	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	e Analyst	Met	hod	Qualifier
4-Chlorotoluen	e	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
Acetone		ND	ug/L	2.5	11/17/2010	WOZ	EPA 8	3260C	
Acrylonitrile		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	3260C	
Benzene		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
Bromobenzene	9	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
Bromochlorom	ethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
Bromodichloro	methane	ND	ug/L	0.5	11/17/2010	woz	EPA 8	260C	
Bromoform		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
Bromomethane	9	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
Carbon disulfid	e	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
Carbon Tetrach	nloride	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
Chlorobenzene	9	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
Chloroethane		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
Chloroform		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
Chloromethane	9	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
cis-1,2-dichloro	pethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
cis-1,3-Dichloro	opropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
Dibromochloro	methane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
Dibromometha	ne	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
Dichlorodifluoro	omethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
Ethylbenzene		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
Hexachlorobuta	adiene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	
Isopropylbenze	ne	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8	260C	

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER Batch #: 1 Project Name:

101112036

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-007 MW-7-111110 Water		Sampling Date Sampling Time Sample Locatio	ہ n	11/11/2010 3:41 AM	Date/Time Re Extraction Da	ceived 11/12/20 i te	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Da	te Analyst	Method	Qualifier
m+p-Xylene		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Methyl ethyl ke	etone (MEK)	ND	ug/L	2.5	11/17/2010	WOZ	EPA 8260C	
Methyl isobuty	/I ketone (MIBK)	ND	ug/L	2.5	11/17/2010	woz	EPA 8260C	
Methylene chl	oride	ND	ug/L	2.5	11/17/2010	WOZ	EPA 8260C	
methyl-t-butyl	ether (MTBE)	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Naphthalene		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
n-Butylbenzen	ie	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
n-Propylbenze	ene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
o-Xylene		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
p-isopropyltolu	lene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
sec-Butylbenz	ene	ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	
Styrene		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
tert-Butylbenze	ene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Tetrachloroeth	nene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Toluene		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
trans-1,2-Dich	loroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
trans-1,3-Dich	loropropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Trichloroethen	e	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Trichloroflouro	methane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Vinyl Chloride		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: Address: Attn:	GEO ENGINEERS 523 E 2ND SPOKANE, WA 99202 DAVE LAUDER				Batch Projec	#: t Name:	101112 IONE, V	036 VA 0504-0	58-00
		Ana	alytical Resu	ilts l	Report				
Sample Number Client Sample ID Matrix Comments	101112036-007 MW-7-111110 Water		Sampling Date Sampling Time Sample Location	1 8: 1	1/11/2010 41 AM	Date/Tim Extractio	e Received n Date	11/12/201	0 5:18 PM
Parameter		Result	Units	PQL	Analysis	Date Analy	st M	ethod	Qualifier
			Surrogate	Data					
Sample Number	101112036-007								
Surrogate	Standard		Method			Percent Re	covery	Control	Limits
1,2-Dichlore	obenzene-d4	EPA 8260C			102.8 70-130			30	

EPA 8260C

EPA 8260C

90.4

97.2

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

4-Bromofluorobenzene

Toluene-d8

70-130

70-130

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER Batch #: 1011 Project Name: ION

101112036

: IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-008 MW-8-111110 Water		Sampling Date Sampling Time Sample Locatio	n	11/11/2010 4:08 PM	Date/Time Re Extraction Da	ceived te	11/12/20	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Da	te Analyst	Me	thod	Qualifier
1,1,1,2-Tetrack	hloroethane	ND	ug/L	50	11/22/2010	WOZ	EPA	8260C	
1,1,1-Trichloro	ethane	ND	ug/L	50	11/22/2010	WOŻ	EPA	8260C	
1,1,2,2-Tetrack	hloroethane	ND	ug/L	50	11/22/2010	WOZ	EPA	8260C	
1,1,2-Trichloro	ethane	ND	ug/L	50	11/22/2010	WOZ	EPA	8260C	
1,1-Dichloroeth	hane	ND	ug/L	50	11/22/2010	WOZ	EPA	8260C	
1,1-Dichloroeth	hene	ND	ug/L	50	11/22/2010	WOZ	EPA	8260C	
1,1-dichloropro	opene	ND	ug/L	50	11/22/2010	WOZ	EPA	8260C	
1,2,3-Trichloro	benzene	ND	ug/L	50	11/22/2010	WOZ	EPA	8260C	
1,2,3-Trichloro	propane	ND	ug/L	50	11/22/2010	woz	EPA	8260C	
1,2,4-Trichloro	benzene	ND	ug/L	50	11/22/2010	WOZ	EPA	8260C	
1,2,4-Trimethy	lbenzene	112	ug/L	50	11/22/2010	WOZ	EPA	8260C	
1,2-Dibromo-3	-chloropropane(DBCP)	ND	ug/L	50	11/22/2010) WOZ	EPA	8260C	
1,2-Dibromoet	hane	ND	ug/L	50	11/22/2010	woz	EPA	8260C	
1,2-Dichlorobe	enzene	ND	ug/L	50	11/22/2010) WOZ	EPA	8260C	
1,2-Dichloroet	hane	ND	ug/L	50	11/22/2010	woz	EPA	8260C	
1,2-Dichloropr	opane	ND	ug/L	50	11/22/2010) WOZ	EPA	8260C	
1,3,5-Trimethy	lbenzene	94.2	ug/L	50	11/22/2010) WOZ	EPA	8260C	
1,3-Dichlorobe	enzene	ND	ug/L	50	11/22/2010) WOZ	EPA	8260C	
1,3-Dichloropr	opane	ND	ug/L	50	11/22/2010	woz	EPA	8260C	
1,4-Dichlorobe	enzene	ND	ug/L	50	11/22/2010	woz	EPA	8260C	
2,2-Dichloropr	opane	ND	ug/L	50	11/22/2010) WOZ	EPA	8260C	
2-Chlorotoluer	ne	ND	ug/L	50	11/22/2010	woz	EPA	8260C	
2-hexanone		ND	ug/L	250	11/22/2010	woz	EPA	8260C	

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-008 MW-8-111110 Water		Sampling Date Sampling Time Sample Locatio	1 4 n	1/11/2010 D :08 PM E	ate/Time Re xtraction Da	ceived ite	11/12/201	0 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	e Analyst	Met	thod	Qualifier
4-Chlorotoluen	e	ND	ug/L	50	11/22/2010	WOZ	EPA	8260C	
Acetone		ND	ug/L	250	11/22/2010	WOZ	EPA	8260C	
Acrylonitrile		ND	ug/L	50	11/22/2010	WOZ	EPA 8	8260C	
Benzene		2670	ug/L	50	11/22/2010	WOZ	EPA 8	8260C	
Bromobenzene)	ND	ug/L	50	11/22/2010	WOZ	EPA 8	8260C	
Bromochlorom	ethane	ND	ug/L	50	11/22/2010	woz	EPA 8	8260C	
Bromodichloror	methane	ND	ug/L	50	11/22/2010	woz	EPA 8	8260C	
Bromoform		ND	ug/L	50	11/22/2010	WOZ	EPA 8	8260C	
Bromomethane	9	ND	ug/L	50	11/22/2010	WOZ	EPA 8	8260C	
Carbon disulfid	e	ND	ug/L	50	11/22/2010	WOZ	EPA 8	8260C	
Carbon Tetrach	loride	ND	ug/L	50	11/22/2010	WOZ	EPA 8	8260C	
Chlorobenzene		ND	ug/L	50	11/22/2010	woz	EPA 8	8260C	
Chloroethane		ND	ug/L	50	11/22/2010	WOZ	EPA 8	8260C	
Chloroform		ND	ug/L	50	11/22/2010	WOZ	EPA 8	8260C	
Chloromethane	•	ND	ug/L	50	11/22/2010	WOZ	EPA 8	3260C	
cis-1,2-dichloro	ethene	ND	ug/L	50	11/22/2010	WOZ	EPA 8	3260C	
cis-1,3-Dichloro	propene	ND	ug/L	50	11/22/2010	WOZ	EPA 8	3260C	
Dibromochloror	methane	ND	ug/L	50	11/22/2010	WOZ	EPA 8	3260C	
Dibromomethar	ne	ND	ug/L	50	11/22/2010	WOZ	EPA 8	3260C	
Dichlorodifluoro	omethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8	3260C	
Ethylbenzene		321	ug/L	50	11/22/2010	WOZ	EPA 8	3260C	
Hexachlorobuta	adiene	ND	ug/L	50	11/22/2010	woz	EPA 8	3260C	
Isopropylbenze	ne	65.5	ug/L	50	11/22/2010	WOZ	EPA 8	3260C	

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER

Batch #: 101112036 Project Name:

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-008 MW-8-111110 Water	: : :	Sampling Date Sampling Time Sample Locatio	1 4 n	1/11/2010 Da :08 PM Ex	ate/Time Re ctraction Da	ceived 11/12/20 te	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
m+p-Xylene		756	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Methyl ethyl ke	etone (MEK)	ND	ug/L	250	11/22/2010	WOZ	EPA 8260C	
Methyl isobuty	l ketone (MIBK)	ND	ug/L	250	11/22/2010	WOZ	EPA 8260C	
Methylene chlo	oride	ND	ug/L	250	11/22/2010	WOZ	EPA 8260C	
methyl-t-butyl e	ether (MTBE)	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Naphthalene		72.3	ug/L	50	11/22/2010	WOZ	EPA 8260C	
n-Butylbenzen	e	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
n-Propylbenze	ne	60.8	ug/L	50	11/22/2010	WOZ	EPA 8260C	
o-Xylene		187	ug/L	50	11/22/2010	woz	EPA 8260C	
p-isopropyltolu	ene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
sec-Butylbenze	ene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Styrene		ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	H1
tert-Butylbenze	ene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Tetrachloroeth	ene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Toluene		1360	ug/L	50	11/22/2010	WOZ	EPA 8260C	
trans-1,2-Dichl	oroethene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
trans-1,3-Dichl	oropropene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Trichloroethen	e	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Trichloroflouro	methane	ND	ug/L	50	11/22/2010	woz	EPA 8260C	
Vinyl Chloride		ND	ug/L	50	11/22/2010	woz	EPA 8260C	H1

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-008 MW-8-111110 Water		Sampling Date Sampling Time Sample Locatio	11 4: n	1/11/2010 D 08 PM E	ate/Time Receiv xtraction Date	ed 11/12/2010	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
			Surrogate	Data				
ample Number	101112036-008				·····			
Surrogate S	tandard		Method		Per	cent Recovery	Control Li	mits
1,2-Dichlorobenzene-d4			EPA 8260C			102.0	70-130)
4-Bromofluorobenzene								
-Diomondor	obenzene		EPA 8260C			95.2	70-130)

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GEO ENGINEERS Client: 523 E 2ND Address: SPOKANE, WA 99202 Attn: DAVE LAUDER

Batch #: 101112036 **Project Name:**

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-009 MW-9-111110 Water		Sampling Date Sampling Time Sample Location	1 1 n	1/11/2010 D 1:45 AM E	ate/Time Rec xtraction Da	ceived 11/12/2010 te) 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrach	loroethane	ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	
1,1,1-Trichloroe	ethane	ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	
1,1,2,2-Tetrach	loroethane	ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	
1,1,2-Trichloroe	ethane	ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	
1,1-Dichloroeth	ane	ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	
1,1-Dichloroeth	ene	ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	
1,1-dichloropro	pene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,3-Trichlorot	benzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,3-Trichlorop	propane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,4-Trichlorob	benzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,4-Trimethyli	benzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dibromo-3-	chloropropane(DBCP)	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dibromoeth	ane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichlorober	izene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichloroeth	ane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichloropro	pane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3,5-Trimethyll	benzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3-Dichlorober	nzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3-Dichloropro	pane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,4-Dichlorober	izene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
2,2-Dichloropro	pane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
2-Chlorotoluene	e	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
2-hexanone		ND	ug/L	2.5	11/17/2010	WOZ	EPA 8260C	

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-009 MW-9-111110 Water		Sampling Date Sampling Time Sample Locatio	, n	11/11/2010 11:45 AM	Date/Time Re Extraction Da	ceived te	11/12/201	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Da	te Analyst	Me	thod	Qualifier
4-Chlorotoluen	e	ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Acetone		ND	ug/L	2.5	11/17/2010	WOZ	EPA	8260C	
Acrylonitrile		ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Benzene		ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Bromobenzene		ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Bromochlorome	ethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Bromodichloror	nethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Bromoform		ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Bromomethane		ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Carbon disulfide	e	ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Carbon Tetrach	loride	ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Chlorobenzene		ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Chloroethane		ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Chloroform		0.54	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Chloromethane		ND	ug/L	0.5	11/17/2010	woz	EPA	8260C	
cis-1,2-dichloro	ethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
cis-1,3-Dichloro	propene	ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Dibromochloror	nethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Dibromomethar	ne	ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Dichlorodifluoro	methane	ND	ug/L	0.5	11/17/2010	woz	EPA :	8260C	
Ethylbenzene		ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Hexachlorobuta	diene	ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
Isopropylbenze	ne	ND	ug/L	0.5	11/17/2010	WOZ	EPA	8260C	
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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER Batch #: 1011 Project Name: IONE

101112036

: IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-009 MW-9-111110 Water		Sampling Date Sampling Time Sample Locatio	1 1 n	1/11/2010 D 11:45 AM E	ate/Time Re xtraction Da	ceived 11/12/201 te	0 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	e Analyst	Method	Qualifier
m+p-Xylene		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Methyl ethyl ke	tone (MEK)	ND	ug/L	2.5	11/17/2010	WOZ	EPA 8260C	
Methyl isobutyl	ketone (MIBK)	ND	ug/L	2.5	11/17/2010	WOZ	EPA 8260C	
Methylene chlo	ride	ND	ug/L	2.5	11/17/2010	WOZ	EPA 8260C	
methyl-t-butyl e	ether (MTBE)	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Naphthalene		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
n-Butylbenzene	2	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
n-Propylbenzer	ne	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
o-Xylene		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
p-isopropyltolue	ene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
sec-Butylbenze	ene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Styrene		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
tert-Butylbenze	ne	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Tetrachloroethe	ene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Toluene		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
trans-1,2-Dichlo	proethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
trans-1,3-Dichle	propropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Trichloroethene)	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Trichloroflouror	nethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Vinyl Chloride		ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: Address: Attn:	GEO ENGINEERS 523 E 2ND SPOKANE, WA 99202 DAVE LAUDER		Batch #: Project Name:	101112036 IONE, WA 0504-058-00
		Analytical Results R	eport	

Sample Number Client Sample ID Matrix Comments	101112036-009 MW-9-111110 Water		Sampling Date Sampling Time Sample Locatio	1* 1*	1/11/2010 1:45 AM	Date/Time Recei Extraction Date	ved 11/12/2010) 5:18 PM
Parameter		Result	Units	PQL	Analysis D	ate Analyst	Method	Qualifier
			Surrogate	Data				
Sample Number	101112036-009							
Surrogate St	tandard		Method		F	Percent Recovery	Control I	imits
1,2-Dichlorob	enzene-d4		EPA 8260C	;		104.0	70-13	30
4-Bromofluor	obenzene		EPA 8260C	;		92.4	70-13	30
Toluene-d8			EPA 8260C	:		98.8	70-13	30

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Client:	GEO ENGINEERS
Address:	523 E 2ND
	SPOKANE, WA 99202
Attn:	DAVE LAUDER

Batch #: Project Name:

101112036

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-010 MW-10-111110 Water		Sampling Date Sampling Time Sample Locatio	1 ç n	11/11/2010 Da 9:50 AM Ex	ate/Time Re ctraction Da	ceived 11/12/207 Ite	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrach	loroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1,1-Trichloroe	ethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrach	loroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1,2-Trichloroe	ethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1-Dichloroeth	ane	ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	
1,1-Dichloroeth	ene	ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	
1,1-dichloropro	pene	ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	
1,2,3-Trichlorob	penzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,3-Trichlorop	propane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,4-Trichlorob	benzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,4-Trimethyl	benzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dibromo-3-	chloropropane(DBCP)	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dibromoeth	ane	ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	
1,2-Dichlorober	zene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichloroeth	ane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichloropro	pane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3,5-Trimethyl	benzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3-Dichlorober	nzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3-Dichloropro	pane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,4-Dichlorober	nzene	ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	
2,2-Dichloropro	pane	ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	
2-Chlorotoluene	9	ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	
2-hexanone		ND	ug/L	2.5	11/17/2010	WOZ	EPA 8260C	

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-010 MW-10-111110 Water		Sampling Date Sampling Time Sample Locatio	1 9 n	1/11/2010 D :50 AM E	ate/Time Re extraction Da	ceived 11/12/20 te	010 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	e Analyst	Method	Qualifier
4-Chlorotoluen	e	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Acetone		ND	ug/L	2.5	11/17/2010	WOZ	EPA 8260C	
Acrylonitrile		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Benzene		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Bromobenzene)	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Bromochlorom	ethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Bromodichloro	methane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Bromoform		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Bromomethane)	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Carbon disulfid	e	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Carbon Tetrach	loride	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Chlorobenzene	•	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Chloroethane		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Chloroform		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Chloromethane	2	ND	ug/L	0.5	11/ 17/2010	WOZ	EPA 8260C	
cis-1,2-dichloro	ethene	ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	
cis-1,3-Dichloro	ppropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dibromochloror	methane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dibromometha	ne	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dichlorodifluoro	omethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Ethylbenzene		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Hexachlorobuta	adiene	ND	ug/L	0.5	11/17/2010	woz	EPA 8260C	
Isopropylbenze	ne	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER
 Batch #:
 10

 Project Name:
 IOI

101112036

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-010 MW-10-111110 Water		Sampling Date Sampling Time Sample Locatio	1 ç	11/11/2010 9:50 AM	Date/Time Re Extraction Da	ceived ite	11/12/20	10 5:18 PM
Parameter		Result	Units	PQL	Analysis D	ate Analyst	Ме	thod	Qualifier
m+p-Xylene		ND	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	
Methyl ethyl ke	etone (MEK)	ND	ug/L	2.5	11/17/201	0 WOZ	EPA	8260C	
Methyl isobuty	l ketone (MIBK)	ND	ug/L	2.5	11/17/201	0 WOZ	EPA	8260C	
Methylene chlo	oride	ND	ug/L	2.5	11/17/201	0 WOZ	EPA	8260C	
methyl-t-butyl	ether (MTBE)	0.60	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	
Naphthalene		ND	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	
n-Butylbenzen	e	ND	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	
n-Propylbenze	ne	ND	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	
o-Xylene		ND	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	
p-isopropyltolu	ene	ND	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	
sec-Butylbenze	ene	ND	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	
Styrene		ND	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	
tert-Butylbenze	ene	ND	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	
Tetrachloroeth	ene	ND	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	
Toluene		ND	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	
trans-1,2-Dichl	oroethene	ND	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	
trans-1,3-Dichl	oropropene	ND	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	
Trichloroethen	e	ND	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	
Trichloroflouro	methane	ND	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	
Vinyl Chloride		ND	ug/L	0.5	11/17/201	0 WOZ	EPA	8260C	

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Client: Address: Attn:	GEO ENGINEERS 523 E 2ND SPOKANE, WA 99202 DAVE LAUDER		Batch Projec	#: 1011120 t Name: IONE, W)36 /A 0504-058-00			
Analytical Results Report								
Sample Number Client Sample ID	101112036-010 MW-10-111110	Sampling Date Sampling Time	11/11/2010 9:50 AM	Date/Time Received Extraction Date	11/12/2010 5:18 PM			

Sample Location

Comments									
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier		
Surrogate Data									
Sample Number 101112036-010	<u>w</u>			****					
Surrogate Standard		Method		Perc	ent Recovery	Contro	ol Limits		
1,2-Dichlorobenzene-d4		EPA 82600	0		103.6	70	-130		
4-Bromofluorobenzene		EPA 82600	0		88.8	70	-130		
Toluene-d8		EPA 82600	2		98.0	70	-130		

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-ID-01; KY:90142; MT:CERT0028; NM: ID00013; OR:ID200001-002; WA:C595 Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

Matrix

Water

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GEO ENGINEERS Client: 523 E 2ND Address: SPOKANE, WA 99202 DAVE LAUDER Attn:

Batch #: 101112036 Project Name:

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-011 MW-11-111110 Water		Sampling Date Sampling Time Sample Locatio	1 1 n	11/11/2010 E	Date/Time Re Extraction Da	ceived 11/1 te	2/2010 5:18 PM
Parameter		Result	Units	PQL	Analysis Dat	e Analyst	Method	Qualifier
1,1,1,2-Tetrack	nloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	;
1,1,1-Trichloro	ethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	;
1,1,2,2-Tetrack	nloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	;
1,1,2-Trichloro	ethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	;
1,1-Dichloroeth	nane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	;
1,1-Dichloroet	nene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	;
1,1-dichloropro	ppene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	;
1,2,3-Trichloro	benzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	;
1,2,3-Trichloro	propane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	;
1,2,4-Trichloro	benzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	;
1,2,4-Trimethy	Ibenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	;
1,2-Dibromo-3	-chloropropane(DBCP)	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	;
1,2-Dibromoet	hane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	;
1,2-Dichlorobe	nzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	;
1,2-Dichloroeth	nane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	;
1,2-Dichloropro	opane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	;
1,3,5-Trimethy	Ibenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	;
1,3-Dichlorobe	nzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	;
1,3-Dichloropro	opane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	;
1,4-Dichlorobe	nzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	;
2,2-Dichloropro	opane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	;
2-Chlorotoluen	e	ND	ug/L	0.5	11/17/2010	WOZ	EPA 82600	
2-hexanone		ND	ug/L	2.5	11/17/2010	WOZ	EPA 82600	

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-011 MW-11-111110 Water		Sampling Date Sampling Time Sample Locatio	n	11/11/2010 [10:46 AM E	Date/Time Re Extraction Da	ceived 11/12/2 ite	010 5:18 PM
Parameter		Result	Units	PQL	Analysis Dat	e Analyst	Method	Qualifier
4-Chlorotoluen	e	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Acetone		ND	ug/L	2.5	11/17/2010	WOZ	EPA 8260C	
Acrylonitrile		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Benzene		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Bromobenzene	9	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Bromochlorom	ethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Bromodichloro	methane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Bromoform		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Bromomethane	•	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Carbon disulfid	е	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Carbon Tetrach	nloride	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Chlorobenzene	•	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Chloroethane		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Chloroform		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Chloromethane	•	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
cis-1,2-dichloro	ethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
cis-1,3-Dichloro	opropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dibromochloror	methane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dibromometha	ne	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dichlorodifluoro	omethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Ethylbenzene		ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Hexachlorobuta	adiene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Isopropylbenze	ne	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER Batch #: Project Name:

101112036

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-011 MW-11-111110 Water		Sampling Date Sampling Time Sample Locatio	n	11/11/2010 10:46 AM	Date/Time Re Extraction Da	ceived te	11/12/2010	5:18 PM
Parameter		Result	Units	PQL	. Analysis Da	te Analyst	Me	thod	Qualifier
m+p-Xylene		ND	ug/L	0.5	11/17/2010) WOZ	EPA	8260C	
Methyl ethyl ke	etone (MEK)	ND	ug/L	2.5	11/17/2010) WOZ	EPA	8260C	
Methyl isobutyl	l ketone (MIBK)	ND	ug/L	2.5	11/17/2010) WOZ	EPA	8260C	
Methylene chlo	oride	ND	ug/L	2.5	11/17/2010) WOZ	EPA	8260C	
methyl-t-butyl e	ether (MTBE)	ND	ug/L	0.5	11/17/2010) WOZ	EPA	8260C	
Naphthalene		ND	ug/L	0.5	11/17/2010) WOZ	EPA	8260C	
n-Butylbenzen	e	ND	ug/L	0.5	11/17/2010) WOZ	EPA	8260C	
n-Propylbenze	ne	ND	ug/L	0.5	11/17/2010) WOZ	EPA	8260C	
o-Xylene		ND	ug/L	0.5	11/17/2010) WOZ	EPA	8260C	
p-isopropyltolu	ene	ND	ug/L	0.5	11/17/2010) WOZ	EPA	8260C	
sec-Butylbenze	ene	ND	ug/L	0.5	11/17/2010) WOZ	EPA	8260C	
Styrene		ND	ug/L	0.5	11/17/2010) WOZ	EPA	8260C	
tert-Butylbenze	ene	ND	ug/L	0.5	11/17/2010	woz	EPA	8260C	
Tetrachloroeth	ene	ND	ug/L	0.5	11/17/2010) WOZ	EPA	8260C	
Toluene		ND	ug/L	0.5	11/17/2010) WOZ	EPA	8260C	
trans-1,2-Dichl	oroethene	ND	ug/L	0.5	11/17/2010	woz	EPA	8260C	
trans-1,3-Dichl	oropropene	ND	ug/L	0.5	11/17/2010	woz	EPA	8260C	
Trichloroethene	e	ND	ug/L	0.5	11/17/2010	woz	EPA	8260C	
Trichloroflouror	methane	ND	ug/L	0.5	11/17/2010) WOZ	EPA	8260C	
Vinyl Chloride		ND	ug/L	0.5	11/17/2010) WOZ	EPA	8260C	

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-011 MW-11-111110 Water		Sampling Date Sampling Time Sample Locatio	1 10 n	1/11/2010 D:46 AM	Date/Time Receiv Extraction Date	ved 11/12/2010	5:18 PM
Parameter		Result	Units	PQL	Analysis D	ate Analyst	Method	Qualifier
			Surrogate	Data				
ample Number	101112036-011						: 	
Surrogate S	tandard		Method		I	Percent Recovery	Control L	imits
1,2-Dichlorob	enzene-d4		EPA 8260C	:		105.2	70-13	D
4-Bromofluor	obenzene		EPA 8260C			91.6		C
Toluene-d8			EPA 8260C	;		95.6	70-13	D

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER

Project Name:

Batch #:

101112036

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-012 MW-12-111110 Water		Sampling Date Sampling Time Sample Locatio	n	11/11/2010 12:39 PM	Date/Time Re Extraction Da	ceived ite	11/12/201	0 5:18 PM
Parameter		Result	Units	PQL	. Analysis Dat	te Analyst	Meth	od	Qualifier
1,1,1,2-Tetrach	loroethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,1,1-Trichloro	ethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,1,2,2-Tetrach	loroethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,1,2-Trichloro	ethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,1-Dichloroeth	nane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,1-Dichloroeth	iene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,1-dichloropro	pene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,2,3-Trichlorol	benzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,2,3-Trichloro	propane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,2,4-Trichlorol	penzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,2,4-Trimethyl	benzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,2-Dibromo-3-	chloropropane(DBCP)	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,2-Dibromoeth	nane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,2-Dichlorober	nzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,2-Dichloroeth	ane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,2-Dichloropro	pane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,3,5-Trimethyl	benzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,3-Dichlorober	nzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,3-Dichloropro	pane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
1,4-Dichlorober	nzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
2,2-Dichloropro	pane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
2-Chlorotoluen	e	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
2-hexanone		ND	ug/L	2.5	11/18/2010	WOZ	EPA 82	260C	

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-012 MW-12-111110 Water		Sampling Date Sampling Time Sample Locatio	1 1 n	11/11/2010 D 12:39 PM E	ate/Time Re xtraction Da	ceived 11/12/2 ite	2010 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	e Analyst	Method	Qualifier
4-Chlorotoluen	e	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Acetone		ND	ug/L	2.5	11/18/2010	WOZ	EPA 8260C	
Acrylonitrile		ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Benzene		ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Bromobenzene	•	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Bromochlorom	ethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Bromodichloror	methane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Bromoform		ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Bromomethane	•	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Carbon disulfid	e	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Carbon Tetrach	lloride	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Chlorobenzene		ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Chloroethane		ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Chloroform		ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Chloromethane		ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
cis-1,2-dichloro	ethene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
cis-1,3-Dichloro	propene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Dibromochloror	nethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Dibromomethar	ne	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Dichlorodifluoro	omethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Ethylbenzene		ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Hexachlorobuta	adiene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Isopropylbenze	ne	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER
 Batch #:
 10

 Project Name:
 IO

101112036

: IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-012 MW-12-111110 Water		Sampling Date Sampling Time Sample Locatio	1 1 9 n	1/11/2010 D 2:39 PM E	ate/Time Re xtraction Da	ceived ite	11/12/20	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Me	thod	Qualifier
m+p-Xylene		ND	ug/L	0.5	11/18/2010	WOZ	EPA	8260C	
Methyl ethyl ke	etone (MEK)	ND	ug/L	2.5	11/18/2010	WOZ	EPA	8260C	
Methyl isobuty	l ketone (MIBK)	ND	ug/L	2.5	11/18/2010	WOZ	EPA	8260C	
Methylene chic	oride	ND	ug/L	2.5	11/18/2010	WOZ	EPA	8260C	
methyl-t-butyl	ether (MTBE)	ND	ug/L	0.5	11/18/2010	WOZ	EPA	8260C	
Naphthalene		ND	ug/L	0.5	11/18/2010	woz	EPA	8260C	
n-Butylbenzen	e	ND	ug/L	0.5	11/18/2010	WOZ	EPA	8260C	
n-Propylbenze	ne	ND	ug/L	0.5	11/18/2010	WOZ	EPA	8260C	
o-Xylene		ND	ug/L	0.5	11/18/2010	woz	EPA	8260C	
p-isopropyltolu	ene	ND	ug/L	0.5	11/18/2010	WOZ	EPA	8260C	
sec-Butylbenze	ene	ND	ug/L	0.5	11/18/2010	WOZ	EPA	8260C	
Styrene		ND	ug/L	0.5	11/18/2010	WOZ	EPA	8260C	
tert-Butylbenze	ene	ND	ug/L	0.5	11/18/2010	WOZ	EPA	8260C	
Tetrachloroeth	ene	ND	ug/L	0.5	11/18/2010	WOZ	EPA	8260C	
Toluene		ND	ug/L	0.5	11/18/2010	WOZ	EPA	8260C	
trans-1,2-Dichl	oroethene	ND	ug/L	0.5	11/18/2010	WOZ	EPA	8260C	
trans-1,3-Dichl	oropropene	ND	ug/L	0.5	11/18/2010	WOZ	EPA	8260C	
Trichloroethen	е	ND	ug/L	0.5	11/18/2010	woz	EPA	8260C	
Trichloroflouro	methane	ND	ug/L	0.5	11/18/2010	woz	EPA	8260C	
Vinyl Chloride		ND	ug/L	0.5	11/18/2010	woz	EPA	8260C	

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Client: GE	EO ENGINEERS	Batch #:	101112036
Address: 52	23 E 2ND	Project Name:	IONE, WA 0504-058-00
SP	POKANE, WA 99202		
Attn: DA	AVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-012 MW-12-111110 Water		Sampling Date Sampling Time Sample Locatior	11. 12 n	/11/2010 D :39 PM E:	ate/Time Receive xtraction Date	ed 11/12/2010	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
			Surrogate	Data				
ample Number	101112036-012							
Surrogate S	tandard		Method		Perc	cent Recovery	Control Li	mits
1,2-Dichlorot	penzene-d4		EPA 8260C			104.8	70-130)
4-Bromofluor	obenzene		EPA 8260C			88.8	70-130)

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER Batch #: 10 Project Name: IC

101112036

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-013 DUPLICATE 1 Water		Sampling Date Sampling Time Sample Locatio	, n	11/11/2010 [12:35 PM [Date/Time Re Extraction Da	ceived 11/12/20 ite	10 5:18 PM
Parameter		Result	Units	PQL	Analysis Dat	e Analyst	Method	Qualifier
1,1,1,2-Tetrach	nloroethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,1,1-Trichloro	ethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrach	nloroethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,1,2-Trichloro	ethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroeth	nane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroeth	nene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,1-dichloropro	opene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichloro	benzene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichloro	propane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trichloro	benzene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trimethy	Ibenzene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,2-Dibromo-3-	-chloropropane(DBCP)	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,2-Dibromoetl	hane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,2-Dichlorobe	nzene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloroeth	nane	116	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloropro	opane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,3,5-Trimethy	Ibenzene	72.9	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,3-Dichlorobe	nzene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,3-Dichloropro	opane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,4-Dichlorobe	nzene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
2,2-Dichloropro	opane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
2-Chlorotoluen	e	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
2-hexanone		ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	

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Chent: GEO ENGINEERS Batch #: 101	1112036
Address:523 E 2NDProject Name:ION	NE, WA 0504-058-00
SPOKANE, WA 99202	
Attn: DAVE LAUDER	

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-013 DUPLICATE 1 Water		Sampling Date Sampling Time Sample Locatio	1 1 n	1/11/2010 D 2:35 PM E	ate/Time Re xtraction Da	ceived 11/12/20 ite	010 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorotoluen	e	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Acetone		ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Acrylonitrile		ND	ug/L	50	11/18/2010	woz	EPA 8260C	
Benzene		4530	ug/L	250	11/18/2010	woz	EPA 8260C	
Bromobenzene	9	ND	ug/L	50	11/18/2010	woz	EPA 8260C	
Bromochlorom	ethane	ND	ug/L	50	11/18/2010	woz	EPA 8260C	
Bromodichloro	methane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Bromoform		ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Bromomethane)	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Carbon disulfid	e	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Carbon Tetrach	nloride	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Chlorobenzene	•	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Chloroethane		ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Chloroform		ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Chloromethane	•	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
cis-1,2-dichloro	ethene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
cis-1,3-Dichlord	propene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Dibromochloror	nethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Dibromomethar	ne	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Dichlorodifluoro	omethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Ethylbenzene		258	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Hexachlorobuta	adiene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Isopropylbenze	ne	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER Batch #: 10111 Project Name: IONE,

101112036

: IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-013 DUPLICATE 1 Water		Sampling Date Sampling Time Sample Locatio	1 1	1/11/2010 2:35 PM	Date/Time Re Extraction Da	ceived 11 Ite	/12/2010 5:18 PM
Parameter		Result	Units	PQL	Analysis Da	te Analyst	Method	Qualifier
m+p-Xylene		1570	ug/L	50	11/18/2010) WOZ	EPA 8260	C
Methyl ethyl ke	tone (MEK)	ND	ug/L	250	11/18/2010) woz	EPA 8260	C
Methyl isobutyl	ketone (MIBK)	ND	ug/L	250	11/18/2010) woz	EPA 8260	C
Methylene chlo	oride	ND	ug/L	250	11/18/2010) WOZ	EPA 8260	C
methyl-t-butyl e	ether (MTBE)	ND	ug/L	50	11/18/2010) woz	EPA 8260	C
Naphthalene		50.7	ug/L	50	11/18/2010) woz	EPA 8260	C
n-Butylbenzene	9	ND	ug/L	50	11/18/2010) WOZ	EPA 8260	C
n-Propylbenzei	ne	ND	ug/L	50	11/18/2010) woz	EPA 8260	OC
o-Xylene		1650	ug/L	50	11/18/2010) woz	EPA 8260	C
p-isopropyltolu	ene	ND	ug/L	50	11/18/2010) WOZ	EPA 8260	C
sec-Butylbenze	ene	ND	ug/L	50	11/18/2010) woz	EPA 8260	C
Styrene		ND	ug/L	50	11/18/2010) WOZ	EPA 8260	C
tert-Butylbenze	ene	ND	ug/L	50	11/18/2010) woz	EPA 8260	C
Tetrachloroeth	ene	ND	ug/L	50	11/18/2010) WOZ	EPA 8260	C
Toluene		430	ug/L	50	11/18/2010) WOZ	EPA 8260	C
trans-1,2-Dichle	oroethene	ND	ug/L	50	11/18/2010) woz	EPA 8260	C
trans-1,3-Dichl	oropropene	ND	ug/L	50	11/18/2010	woz	EPA 8260	C
Trichloroethene	e	ND	ug/L	50	11/18/2010	woz	EPA 8260)C
Trichloroflouror	methane	ND	ug/L	50	11/18/2010	woz	EPA 8260)C
Vinyl Chloride		ND	ug/L	50	11/18/2010	woz	EPA 8260	00

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-013 DUPLICATE 1 Water		Sampling Date Sampling Time Sample Locatio	11/ 12: n	11/2010 I 35 PM I	Date/Time Receiv Extraction Date	red 11/12/2010	5:18 PM
Parameter		Result	Units	PQL	Analysis Dat	e Analyst	Method	Qualifier
			Surrogate	Data				
ample Number	101112036-013				4			
Surrogate S	tandard		Method		Pe	rcent Recovery	Control L	imits
1,2-Dichlorob	enzene-d4		EPA 8260C			102.4	70-13	0
4-Bromofluor	obenzene		EPA 8260C			94.0	70-13	C
Tolyona do						00.4	=0.40	•

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER Batch #: Project Name:

101112036

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-017 TRIP BLANK Water		Sampling Date Sampling Time Sample Locatio	'n	11/11/2010 Date/Time Received 11/12/2010 5:18 PM Extraction Date					
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier		
1,1,1,2-Tetrach	nloroethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,1,1-Trichloro	ethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,1,2,2-Tetrach	nloroethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,1,2-Trichloro	ethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,1-Dichloroeth	nane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,1-Dichloroeth	nene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,1-dichloropro	opene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,2,3-Trichloro	benzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,2,3-Trichloro	propane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,2,4-Trichloro	benzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,2,4-Trimethy	lbenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,2-Dibromo-3-	-chloropropane(DBCP)	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C			
1,2-Dibromoet	hane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,2-Dichlorobe	nzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,2-Dichloroeth	nane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,2-Dichloropro	opane	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C			
1,3,5-Trimethy	lbenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,3-Dichlorobe	nzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,3-Dichloropro	opane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C			
1,4-Dichlorobe	nzene	ND	ug/L	0.5	11/18/2010	WOŻ	EPA 8260C			
2,2-Dichloropro	opane	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C			
2-Chlorotoluen	e	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C			
2-hexanone		ND	ug/L	2.5	11/18/2010	woz	EPA 8260C			

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number101112036-017Client Sample IDTRIP BLANKMatrixWaterComments	5 5 5	Sampling Date Sampling Time Sample Locatio	1 on	1/11/2010 Da Ex	ate/Time Re straction Da	ceived 11/12/201 Ite	0 5:18 PM
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorotoluene	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Acetone	2.77	ug/L	2.5	11/18/2010	woz	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Benzene	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Bromochloromethane	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Bromoform	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Bromomethane	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Chloroethane	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Chloroform	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Chloromethane	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	11/18/2010	woz	EPA 8260C	

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER Batch #: Project Name:

101112036

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-017 TRIP BLANK Water		Sampling Date Sampling Time Sample Locatio	n	11/11/2010	Date/Time Re Extraction Da	ceived Ite	11/12/201	0 5:18 PM
Parameter		Result	Units	PQL	. Analysis Dat	te Analyst	Meth	od	Qualifier
m+p-Xylene		ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
Methyl ethyl ke	etone (MEK)	ND	ug/L	2.5	11/18/2010	woz	EPA 82	260C	
Methyl isobutyl	l ketone (MIBK)	ND	ug/L	2.5	11/18/2010	WOZ	EPA 82	260C	
Methylene chlo	bride	ND	ug/L	2.5	11/18/2010	WOZ	EPA 82	260C	
methyi-t-butyl e	ether (MTBE)	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
Naphthalene		ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
n-Butylbenzen	e	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
n-Propylbenze	ne	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
o-Xylene		ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
p-isopropyltolu	ene	ND	ug/L	0.5	11/18/2010	woz	EPA 82	260C	
sec-Butylbenze	ene	ND	ug/L	0.5	11/18/2010	woz	EPA 82	260C	
Styrene		ND	ug/L	0.5	11/18/2010	woz	EPA 82	260C	
tert-Butylbenze	ene	ND	ug/L	0.5	11/18/2010	woz	EPA 82	260C	
Tetrachloroeth	ene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
Toluene		3.54	ug/L	0.5	11/18/2010	WOZ	EPA 82	260C	
trans-1,2-Dichl	oroethene	ND	ug/L	0.5	11/18/2010	woz	EPA 82	260C	
trans-1,3-Dichl	oropropene	ND	ug/L	0.5	11/18/2010	woz	EPA 82	260C	
Trichloroethen	e	ND	ug/L	0.5	11/18/2010	woz	EPA 82	260C	
Trichloroflouro	methane	ND	ug/L	0.5	11/18/2010	woz	EPA 82	260C	
Vinyl Chloride		ND	ug/L	0.5	11/18/2010	woz	EPA 82	260C	

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Client:	GEO ENGINEERS		Batch #:	101112036
Address:	523 E 2ND SPOKANE, WA 99202		Project Name:	IONE, WA 0504-058-00
Attn:	DAVE LAUDER			
		Applytical Booulto D		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-017 TRIP BLANK Water		Sampling Date Sampling Time Sample Locatio	1 [.] n	1/11/2010	Date/Time Recei Extraction Date	ved 11/12/2010	5:18 PM
Parameter		Result	Units	PQL	Analysis D	ate Analyst	Method	Qualifier
			Surrogate	Data				
Sample Number	101112036-017	<u></u>					·	
Surrogate St	tandard		Method		P	ercent Recovery	Control L	.imits
1,2-Dichlorob	enzene-d4		EPA 82600	;		104.8	70-13	0
4-Bromofluor	obenzene		EPA 8260C	;		87.2	70-13	0
Toluene-d8			EPA 8260C	;		98.0	70-13	0

Authorized Signature

Kathleen a. Sottles

Kathy Sattler, Lab Manager

H1 Sample analysis performed past holding time

- MCL EPA's Maximum Contaminant Level
- ND Not Detected
- PQL Practical Quantitation Limit
- Sample received with improper chemical preservation Q3

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Client:	GEO ENGINEERS
Address:	523 E 2ND
	SPOKANE, WA 99202
Attn:	DAVE LAUDER

Batch #: 101112036 Project Name: IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-001 MW-1-111010 Water	Sar Sar Sar	npling Date npling Time nple Locatic	11/ 4:1 on	10/2010 I 0 PM I	Date/Time Re Extraction Da	ceived 11/1 te	2/2010 5:18 PM
Parameter		Result	Units	PQL	Analysis Dat	e Analyst	Method	Qualifier
1,2-Dibromoeth	nane	ND	mg/L	0.0000	1 11/20/2010	WOZ	EPA 82600	SIM
1,2-Dichloroeth	nane	ND	mg/L	0.001	11/20/2010	WOZ	EPA 82600	SIM
Benzene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 82600	SIM
Ethylbenzene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 82600	SIM
m+p-Xylene		ND	mg/L	0.002	11/20/2010	WOZ	EPA 82600	SIM
methyl-t-butyl e	ether (MTBE)	ND	mg/L	0.001	11/20/2010	WOZ	EPA 82600	SIM
Naphthalene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 82600	SIM
o-Xylene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 82600	SIM
Toluene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 82600	SIM
			Surrogate	Data				
Sample Number	101112036-001							
Surrogate S	Standard		Method		Pe	ercent Recov	ery C	ontrol Limits
1,2-Dichloro	benzene-d4		EPA 8260	CSIM		101.6		70-130
4-Bromofluo	robenzene		EPA 8260	C SIM		97.6		70-130
Toluene-d8			EPA 8260	C SIM		101.6		70-130

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Client: Address: Attn:	GEO ENGINEERS 523 E 2ND SPOKANE, WA 99202 DAVE LAUDER		Batch #: Project Name:	101112036 IONE, WA 0504-058-00		
Analytical Results Report						

Sample Number Client Sample ID Matrix Comments	101112036-002 MW-2-111010 Water	Sampling D Sampling T Sample Loc	ate 11/ ime 3:07 ation	10/2010 Da 7 PM Ex	ate/Time Rec xtraction Date	eived 11/12/2010 e)5:18 PM
Parameter		Result Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dibromoeth	hane	ND mg/L	0.00001	11/20/2010	WOZ	EPA 8260C SIM	
1,2-Dichloroeth	nane	ND mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
Benzene		ND mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
Ethylbenzene		ND mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
m+p-Xylene		ND mg/L	0.002	11/20/2010	woz	EPA 8260C SIM	
methyl-t-butyl e	ether (MTBE)	ND mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
Naphthalene		ND mg/L	0.001	11/20/2010	woz	EPA 8260C SIM	
o-Xylene		ND mg/L	0.001	11/20/2010	woz	EPA 8260C SIM	
Toluene		ND mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
		Surrog	ate Data				
Sample Number	101112036-002						
Surrogate S	standard	Metho	d	Per	cent Recover	ry Control	Limits
1,2-Dichlorol	benzene-d4	EPA 8	260C SIM		104.0	70-1	30
4-Bromofluor	robenzene	EPA 8	260C SIM		98.0	70-1	30
Toluene-d8		EPA 82	260C SIM		100.0	70-1	30

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-007 MW-7-111110 Water	Sai Sai Sai	mpling Date mpling Time mple Locatio	11/1 8:41 n	1/2010 I AM I	Date/Time Reco Extraction Date	eived 11/12/2010	5:18 PM	
Parameter		Result	Units	PQL	Analysis E	Date Analyst	Method	Qualifier	
1,2-Dibromoeth	nane	ND	mg/L	0.00001	11/20/2010	WOZ	EPA 8260C SIM		
1,2-Dichloroeth	ane	ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM		
Benzene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM		
Ethylbenzene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM		
m+p-Xylene		ND	mg/L	0.002	11/20/2010	WOZ	EPA 8260C SIM		
methyl-t-butyl e	ther (MTBE)	ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM		
Naphthalene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM		
o-Xylene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM		
Toluene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM		
			Surrogate	Data					
Sample Number	101112036-007					·			
Surrogate S	tandard		Method		Pe	ercent Recover	ry Control L	imits	
1,2-Dichlorol	benzene-d4		EPA 8260	CSIM		102.0	70-13	30	
4-Bromofluo	robenzene		EPA 8260	C SIM		96.4	70-13	30	
Toluene-d8			EPA 8260C SIM			98.4	70-13	70-130	

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-009 MW-9-111110 Water	Sar Sar Sar	npling Date npling Time nple Locatio	11/ 11: on	11/2010 Da 45 AM Ex	ate/Time Re straction Da	ceived 11/12/201 te	0 5:18 PM
Parameter	- ·	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dibromoeth	ane	ND	mg/L	0.0000	11/20/2010	woz	EPA 8260C SIM	
1,2-Dichloroeth	ane	ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
Benzene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
Ethylbenzene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
m+p-Xylene		ND	mg/L	0.002	11/20/2010	WOZ	EPA 8260C SIM	
methyl-t-butyl e	ther (MTBE)	ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
Naphthalene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
o-Xylene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
Toluene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
		Ş	Surrogate	Data				
Sample Number	101112036-009							
Surrogate S	tandard		Method		Per	cent Recove	ery Control	Limits
1,2-Dichlorot	penzene-d4		EPA 82600	CSIM		102.0	70-1	130
4-Bromofluor	obenzene		EPA 82600	CSIM		96.4	70-1	130
Toluene-d8			EPA 82600	CSIM		99.2	70-1	130

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Client: **GEO ENGINEERS** 523 E 2ND Address: SPOKANE, WA 99202 Attn: DAVE LAUDER

101112036 Batch #: Project Name:

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-010 MW-10-111110 Water	Sam Sam Sam	pling Date pling Time ple Locatio	11/ 9:5 n	11/2010 Da 0 AM Ex	ate/Time Red straction Dat	ceived 11/12 te	2/2010 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dibromoeth	hane	ND	mg/L	0.0000	11/20/2010	WOZ	EPA 8260C	SIM
1,2-Dichloroeth	nane	ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C	SIM
Benzene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C	SIM
Ethylbenzene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C	SIM
m+p-Xylene		ND	mg/L	0.002	11/20/2010	WOZ	EPA 8260C	SIM
methyl-t-butyl e	ether (MTBE)	ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C	SIM
Naphthalene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C	SIM
o-Xylene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C	SIM
Toluene		ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C	SIM
		S	urrogate	Data				
Sample Number	101112036-010	0						
Surrogate S	Standard		Method		Per	cent Recove	ery Co	ntrol Limits
1,2-Dichloro	benzene-d4		EPA 8260	C SIM		100.4		70-130
4-Bromofluo	robenzene		EPA 8260	CSIM		96.0		70-130
Toluene-d8			EPA 82600	C SIM		99.6		70-130

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Parameter		Result Units	PQL Analysis Date	e Analyst Me	ethod Qualifier
Comments					
Matrix	Water	Sample Loca	tion		
Client Sample ID	MW-11-11110	Sampling Tin	ne 10:46 AM E	xtraction Date	
Sample Number	101112036-011	Sampling Dat	te 11/11/2010 E	ate/Time Received	11/12/2010 5:18 PM
		Analytical Re	sults Report		
Attn:	DAVE LAUDER				
	SPOKANE, WA 99202				
Address:	523 E 2ND		Project N	ame: IONE, V	VA 0504-058-00
Client:	GEO ENGINEERS		Batch #:	1011120	036

1,2-Dichloroethane ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM Benzene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM Ethylbenzene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM m+p-Xylene ND mg/L 0.002 11/20/2010 WOZ EPA 8260C SIM methyl-t-butyl ether (MTBE) ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM Naphthalene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM o-Xylene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM Toluene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM	1,2-Dibromoethane	ND	mg/L	0.00001	11/20/2010	WOZ	EPA 8260C SIM	
Benzene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM Ethylbenzene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM m+p-Xylene ND mg/L 0.002 11/20/2010 WOZ EPA 8260C SIM methyl-t-butyl ether (MTBE) ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM Naphthalene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM o-Xylene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM Toluene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM	1,2-Dichloroethane	ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
Ethylbenzene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM m+p-Xylene ND mg/L 0.002 11/20/2010 WOZ EPA 8260C SIM methyl-t-butyl ether (MTBE) ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM Naphthalene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM o-Xylene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM Toluene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM	Benzene	ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
m+p-Xylene ND mg/L 0.002 11/20/2010 WOZ EPA 8260C SIM methyl-t-butyl ether (MTBE) ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM Naphthalene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM o-Xylene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM Toluene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM	Ethylbenzene	ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
methyl-t-butyl ether (MTBE) ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM Naphthalene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM o-Xylene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM Toluene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM	m+p-Xylene	ND	mg/L	0.002	11/20/2010	WOZ	EPA 8260C SIM	
Naphthalene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM o-Xylene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM Toluene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM	methyl-t-butyl ether (MTBE)	ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
o-Xylene ND mg/L 0.001 11/20/2010 WOZ EPA 8260C SIM	Naphthalene	ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
Toluene ND ma/l 0.001 11/20/2010 W/OZ EDA 8260C SIM	o-Xylene	ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	
	Toluene	ND	mg/L	0.001	11/20/2010	WOZ	EPA 8260C SIM	

Sample Number	101112036-011				
Surrogate	Standard	Method	Percent Recovery	Control Limits	
1,2-Dichlor	obenzene-d4	EPA 8260C SIM	102.0	70-130	
4-Bromoflu	orobenzene	EPA 8260C SIM	96.0	70-130	
Toluene-d8		EPA 8260C SIM	100.0	70-130	

Surrogate Data

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
Attn:	SPOKANE, WA 99202 DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-012 MW-12-111110 Water	San San San	pling Date pling Time ple Locatio	11/ 12: •n	11/2010 Da 39 PM Ex	te/Time Re traction Da	eceived 11/12 ate	2/2010 5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dibromoet	hane	ND	mg/L	0.0000	1 11/21/2010	WOZ	EPA 8260C	SIM
1,2-Dichloroeth	nane	ND	mg/L	0.001	11/21/2010	WOZ	EPA 8260C	SIM
Benzene		ND	mg/L	0.001	11/21/2010	WOZ	EPA 8260C	SIM
Ethylbenzene		ND	mg/L	0.001	11/21/2010	WOZ	EPA 8260C	SIM
m+p-Xylene		ND	mg/L	0.002	11/21/2010	WOZ	EPA 8260C	SIM
methyl-t-butyl e	ether (MTBE)	ND	mg/L	0.001	11/21/2010	WOZ	EPA 8260C	SIM
Naphthalene		ND	mg/L	0.001	11/21/2010	WOZ	EPA 8260C	SIM
o-Xylene		ND	mg/L	0.00	1 11/21/2010	WOZ	EPA 8260C	SIM
Toluene		ND	mg/L	0.001	11/21/2010	WOZ	EPA 8260C	SIM
		S	Surrogate	Data	·			
Sample Number	101112036-012							
Surrogate S	Standard		Method		Per	cent Recov	very Co	ntrol Limits
1,2-Dichloro	benzene-d4		EPA 8260	CSIM		102.4	-	70-130
4-Bromofluo	robenzene		EPA 8260	CSIM		95.6		70-130
Toluene-d8		EPA 8260C		CSIM	SIM 100.8			70-130
Authorized Signature	Kathy Sattler,	Hum <u>A. Latth</u> Lab Manager	A					

MCL EPA's Maximum Contaminant Level

ND Not Detected

PQL Practical Quantitation Limit

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-001 MW-1-111010 Water		Sampling Date Sampling Time Sample Locatio	1 4 9 n	1/10/2010 Da :10 PM Ex	ate/Time Reco	eived 11/12/2010	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead		ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	
Sample Number Client Sample ID Matrix Comments	101112036-002 MW-2-111010 Water		Sampling Date Sampling Time Sample Locatio	1 3 9 n	1/10/2010 Da 07 PM Ex	ate/Time Reco straction Date	eived 11/12/2010 e	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead		ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	
Sample Number Client Sample ID Matrix Comments	101112036-003 MW-3-111110 Water		Sampling Date Sampling Time Sample Locatio	1 2: n	1/11/2010 Da 20 PM Ex	nte/Time Reco	eived 11/12/2010	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead		ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	······································
Sample Number Client Sample ID Matrix Comments	101112036-004 MW-4-111110 Water		Sampling Date Sampling Time Sample Locatio	1: 1: n	1/11/2010 Da 23 PM Ex	te/Time Rece traction Date	eived 11/12/2010	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead		ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-006 MW-6-111110 Water		Sampling Date Sampling Time Sample Locatio	1 3 on	1/11/2010 Da :14 PM Ex	te/Time Rec traction Dat	eived 11/12/2010 e	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead		ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	
Sample Number Client Sample ID Matrix Comments	101112036-007 MW-7-111110 Water		Sampling Date Sampling Time Sample Locatio	1 8 2011	1/11/2010 Da :41 AM Ex	te/Time Rec traction Dat	eived 11/12/2010 e	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead		ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	
Sample Number Client Sample ID Matrix Comments	101112036-008 MW-8-111110 Water		Sampling Date Sampling Time Sample Locatio	1 4: on	1/11/2010 Da :08 PM Ex	te/Time Rec	eived 11/12/2010 e	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead		ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	
Sample Number Client Sample ID Matrix Comments	101112036-009 MW-9-111110 Water		Sampling Date Sampling Time Sample Locatio	1 1 5n	1/11/2010 Da 1:45 AM Ex	te/Time Rec traction Dat	eived 11/12/2010 e	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead		ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	-
Sample Number Client Sample ID Matrix Comments	101112036-010 MW-10-111110 Water		Sampling Date Sampling Time Sample Locatio	1 9: on	1/11/2010 Da 50 AM Ex	te/Time Rec traction Dat	eived 11/12/2010 e	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead		ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101112036-011 MW-11-111110 Water		Sampling Date Sampling Time Sample Locatio	1 1 >n	1/11/2010 D 0:46 AM E	ate/Time Re xtraction Da	ceived 11/12/2010 ite	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead		ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	
Sample Number Client Sample ID Matrix Comments	101112036-012 MW-12-111110 Water		Sampling Date Sampling Time Sample Locatio	1 1. 9 n	1/11/2010 D 2:39 PM E	ate/Time Re xtraction Da	ceived 11/12/2010 te	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	· · · · · · · · · · · · · · · · · · ·	ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	
Sample Number Client Sample ID Matrix Comments	101112036-013 DUPLICATE 1 Water		Sampling Date Sampling Time Sample Locatio	1 1: n	1/11/2010 D 2:35 PM E	ate/Time Re xtraction Da	ceived 11/12/2010 te	5:18 PM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead		ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	
uthorized Signature	Kathy Sattler Lab	n <u>A.</u> lat	tler	•				

MCL EPA's Maximum Contaminant Level

ND Not Detected

1

PQL Practical Quantitation Limit

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER

Batch #: Project Name:

101112036 IONE, WA 0504-058-00

Analytical Results Report

Quality Control Data

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Trichloroethene	5.00	ug/L	5	100.0	70-130	11/14/2010	11/14/2010
Gasoline	0.905	mg/L	1.1	82.3	70-130	11/14/2010	11/14/2010
o-Xylene	4.31	ug/L	5	86.2	70-130	11/17/2010	11/17/2010
Ethylbenzene	4.51	ug/L	5	90.2	70-130	11/17/2010	11/17/2010
Chlorobenzene	4.75	ug/L	5	95.0	70-130	11/17/2010	11/17/2010
Benzene	5.26	ug/L	5	105.2	70-130	11/17/2010	11/17/2010
1,1-Dichloroethene	4.77	ug/L	5	95.4	70-130	11/17/2010	11/17/2010
Toluene	4.75	ug/L	5	95.0	70-130	11/17/2010	11/17/2010
Lead	0.0444	mg/L	0.05	88.8	85-115	11/15/2010	11/16/2010
Trichloroethene	4.83	ug/L	5	96.6	70-130	11/17/2010	11/17/2010
Toluene	4.84	ug/L	5	96.8	70-130	11/14/2010	11/14/2010
Tetrachloroethene	4.92	ug/L	5	98.4	70-130	11/14/2010	11/14/2010
o-Xylene	4.71	ug/L	5	94.2	70-130	11/14/2010	11/14/2010
Ethylbenzene	4.77	ug/L	5	95.4	70-130	11/14/2010	11/14/2010
Chlorobenzene	4.88	ug/L	5	97.6	70-130	11/14/2010	11/14/2010
Benzene	5.25	ug/L	5	105.0	70-130	11/14/2010	11/14/2010
1,1-Dichloroethene	4.93	ug/L	5	98.6	70-130	11/14/2010	11/14/2010
Lead	0.0471	mg/L	0.05	94.2	85-115	11/15/2010	11/16/2010
Toluene	4.76	ug/L	5	95.2	70-130	11/22/2010	11/22/2010
Toluene	4.62	ug/L	5	92.4	70-130	11/18/2010	11/18/2010
Tetrachloroethene	4.36	ug/L	5	87.2	70-130	11/18/2010	11/18/2010
o-Xylene	4.34	ug/L	5	86.8	70-130	11/18/2010	11/18/2010
Ethylbenzene	4.60	ug/L	5	92.0	70-130	11/18/2010	11/18/2010
Chlorobenzene	4.83	ug/L	5	96.6	70-130	11/18/2010	11/18/2010
Benzene	5.13	ug/L	5	102.6	70-130	11/18/2010	11/18/2010
Tetrachloroethene	4.79	ug/L	5	95.8	70-130	11/17/2010	11/17/2010
Trichloroethene	4.76	ug/L	5	95.2	70-130	11/22/2010	11/22/2010
Trichloroethene	4.80	ug/L	5	96.0	70-130	11/18/2010	11/18/2010
Tetrachloroethene	4.79	ug/L	5	95.8	70-130	11/22/2010	11/22/2010
o-Xylene	4.54	ug/L	5	90.8	70-130	11/22/2010	11/22/2010
Ethylbenzene	4.52	ug/L	5	90.4	70-130	11/22/2010	11/22/2010
Chlorobenzene	4.72	ug/L	5	94.4	70-130	11/22/2010	11/22/2010
Benzene	4.60	ug/L	5	92.0	70-130	11/22/2010	11/22/2010
1,1-Dichloroethene	4.02	ug/L	5	80.4	70-130	11/22/2010	11/22/2010
Gasoline	0.867	mg/L	1.1	78.8	70-130	11/18/2010	11/18/2010

Comments:

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Client:	GEO ENGINEERS	Ва	atch #:	101112036		
Address:	523 E 2ND	Pro	roject Name:	IONE, WA 0504-058-00		
	SPOKANE, WA 99202					
Attn:	DAVE LAUDER					
Analytical Results Report						

Quality Control Data

Lab Control Sample

Parameter 1,1-Dichloroethene	3	LCS R 5.6	lesult 62	Units ug/L	LCS Sp 5	oike "	% Rec 112.4	AR %Rec 70-130	: Pr 11/	ep Date /18/2010	Analysis Date 11/18/2010
Lab Control Sa	mple Duplicate							<u>.</u>			
Parameter		LCSD Result	Unite	LCS	SD ko %	Rec	%PPD		Dro	n Data	Analysis Data
Trichloroethene		4 47	ua/l	5		39 4	77	0_20	11/1	7/2010	11/17/2010
Toluene		4.39	ug/L	5		37.8	79	0-20	11/1	7/2010	11/17/2010
Tetrachloroethen	e	4.14	ua/L	5	8	12.8	14.6	0-20	11/1	7/2010	11/17/2010
o-Xylene		4.15	ua/L	5	8	3.0	3.8	0-20	11/1	7/2010	11/17/2010
Ethylbenzene		4.41	ua/L	5	8	8.2	2.2	0-20	11/1	7/2010	11/17/2010
Chlorobenzene		4.65	ua/L	5	g	3.0	2.1	0-20	11/1	7/2010	11/17/2010
Benzene		4.89	ug/L	5	g	7.8	7.3	0-20	11/1	7/2010	11/17/2010
1,1-Dichloroether	1e	4.46	ug/L	5	8	9.2	6.7	0-20	11/1	7/2010	11/17/2010
Motrix Spike											
Matrix Spike			5-	molo	MS		MS				
Sample Number	Parameter		Re	esult	Result	Unit	ts Spike	%Rec	%Rec	Prep Date	Analysis Date
101112036-009	Lead			ND	0.0439	mg/	L 0.05	87.8	70-130	11/15/2010	11/16/2010
101112036-004	Lead		1	ND	0.0429	mg/	L 0.05	85.8	70-130	11/15/2010	11/16/2010
101112036-001	Gasoline]	ND	1.18	mg/	(L 1.1	107.3	70-130	11/14/2010	11/14/2010
Matrix Spike Du	plicate										
Parameter		MSD	Unit	M ~ ~ ~ ~	ISD	% D.a	0/ D		R	nen Dete	An altra la Data
Lead		0.0440	onn ma/	5 3 1 (ріке 2.05	76 Ke		PU %R	PD P		Analysis Date
Lead		0.0440	mg/		0.05	00.0		2 0-2	20 1	1/15/2010	11/16/2010
Gasoline		0.991	mg/		1.1	90.1	i 17	.4 0-2	20 1 ⁻ 20 1 ⁻	1/14/2010	11/14/2010
Method Blank											
Parameter				Resu	it	U	Inits	PQL		Prep Date	Analysis Date
1,1,1,2-Tetrachloro	ethane			ND		U	g/L	0.5	1	1/17/2010	11/17/2010
1,1,1,2-Tetrachloroe	ethane			ND		u	g/L	0.5	1	1/22/2010	11/22/2010
1,1,1,2-Tetrachloroe	ethane			ND		u	g/L	0.5	1	1/18/2010	11/18/2010
1,1,1,2-Tetrachloroe	ethane			ND		u	g/L	0.5	1	1/14/2010	11/14/2010
1,1,1-Trichloroethar	ne			ND		u	g/L	0.5	1	1/14/2010	11/14/2010

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn:

Batch #:

101112036

Project Name:

IONE, WA 0504-058-00

DAVE LAUDER

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,1,1-Trichloroethane	ND	ug/L	0.5	11/17/2010	11/17/2010
1,1,1-Trichloroethane	ND	ug/L	0.5	11/22/2010	11/22/2010
1,1,1-Trichloroethane	ND	ug/L	0.5	11/18/2010	11/18/2010
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	11/14/2010	11/14/2010
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	11/18/2010	11/18/2010
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	11/17/2010	11/17/2010
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	11/22/2010	11/22/2010
1,1,2-Trichloroethane	ND	ug/L	0.5	11/14/2010	11/14/2010
1,1,2-Trichloroethane	ND	ug/L	0.5	11/17/2010	11/17/2010
1,1,2-Trichloroethane	ND	ug/L	0.5	11/22/2010	11/22/2010
1,1,2-Trichloroethane	ND	ug/L	0.5	11/18/2010	11/18/2010
1,1-Dichloroethane	ND	ug/L	0.5	11/18/2010	11/18/2010
1,1-Dichloroethane	ND	ug/L	0.5	11/14/2010	11/14/2010
1,1-Dichloroethane	ND	ug/L	0.5	11/17/2010	11/17/2010
1,1-Dichloroethane	ND	ug/L	0.5	11/22/2010	11/22/2010
1,1-Dichloroethene	ND	ug/L	0.5	11/14/2010	11/14/2010
1,1-Dichloroethene	ND	ug/L	0.5	11/17/2010	11/17/2010
1,1-Dichloroethene	ND	ug/L	0.5	11/22/2010	11/22/2010
1,1-Dichloroethene	ND	ug/L	0.5	11/18/2010	11/18/2010
1,1-dichloropropene	ND	ug/L	0.5	11/17/2010	11/17/2010
1,1-dichloropropene	ND	ug/L	0.5	11/22/2010	11/22/2010
1,1-dichloropropene	ND	ug/L	0.5	11/14/2010	11/14/2010
1,1-dichloropropene	ND	ug/L	0.5	11/18/2010	11/18/2010
1,2,3-Trichlorobenzene	ND	ug/L	0.5	11/14/2010	11/14/2010
1,2,3-Trichlorobenzene	ND	ug/L	0.5	11/17/2010	11/17/2010
1,2,3-Trichlorobenzene	ND	ug/L	0.5	11/22/2010	11/22/2010
1,2,3-Trichlorobenzene	ND	ug/L	0.5	11/18/2010	11/18/2010
1,2,3-Trichloropropane	ND	ug/L	0.5	11/18/2010	11/18/2010
1,2,3-Trichloropropane	ND	ug/L	0.5	11/14/2010	11/14/2010
1,2,3-Trichloropropane	ND	ug/L	0.5	11/17/2010	11/17/2010
1,2,3-Trichloropropane	ND	ug/L	0.5	11/22/2010	11/22/2010
1,2,4-Trichlorobenzene	ND	ug/L	0.5	11/14/2010	11/14/2010
1,2,4-Trichlorobenzene	ND	ug/L	0.5	11/17/2010	11/17/2010
1,2,4-Trichlorobenzene	ND	ug/L	0.5	11/22/2010	11/22/2010
1,2,4-Trichlorobenzene	ND	ug/L	0.5	11/18/2010	11/18/2010
1,2,4-Trimethylbenzene	ND	ug/L	0.5	11/17/2010	11/17/2010
1,2,4-Trimethylbenzene	ND	ug/L	0.5	11/22/2010	11/22/2010

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Client:	GEO ENGINEERS	Batch #:	101112036			
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00			
	SPOKANE, WA 99202					
Attn:	DAVE LAUDER					
Analytical Results Report						

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,2,4-Trimethylbenzene	ND	ug/L	0.5	11/14/2010	11/14/2010
1,2,4-Trimethylbenzene	ND	ug/L	0.5	11/18/2010	11/18/2010
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	11/14/2010	11/14/2010
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	11/17/2010	11/17/2010
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	11/22/2010	11/22/2010
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	11/18/2010	11/18/2010
1,2-Dibromoethane	ND	ug/L	0.5	11/17/2010	11/17/2010
1,2-Dibromoethane	ND	ug/L	0.5	11/22/2010	11/22/2010
1,2-Dibromoethane	ND	ug/L	0.5	11/14/2010	11/14/2010
1,2-Dibromoethane	ND	ug/L	0.5	11/18/2010	11/18/2010
1,2-Dichlorobenzene	ND	ug/L	0.5	11/14/2010	11/14/2010
1,2-Dichlorobenzene	ND	ug/L	0.5	11/17/2010	11/17/2010
1,2-Dichlorobenzene	ND	ug/L	0.5	11/22/2010	11/22/2010
1,2-Dichlorobenzene	ND	ug/L	0.5	11/18/2010	11/18/2010
1,2-Dichloroethane	ND	ug/L	0.5	11/17/2010	11/17/2010
1,2-Dichloroethane	ND	ug/L	0.5	11/22/2010	11/22/2010
1,2-Dichloroethane	ND	ug/L	0.5	11/14/2010	11/14/2010
1,2-Dichloroethane	ND	ug/L	0.5	11/18/2010	11/18/2010
1,2-Dichloropropane	ND	ug/L	0.5	11/14/2010	11/14/2010
1,2-Dichloropropane	ND	ug/L	0.5	11/17/2010	11/17/2010
1,2-Dichloropropane	ND	ug/L	0.5	11/22/2010	11/22/2010
1,2-Dichloropropane	ND	ug/L	0.5	11/18/2010	11/18/2010
1,3,5-Trimethylbenzene	ND	ug/L	0.5	11/18/2010	11/18/2010
1,3,5-Trimethylbenzene	ND	ug/L	0.5	11/22/2010	11/22/2010
1,3,5-Trimethylbenzene	ND	ug/L	0.5	11/17/2010	11/17/2010
1,3,5-Trimethylbenzene	ND	ug/L	0.5	11/14/2010	11/14/2010
1,3-Dichlorobenzene	ND	ug/L	0.5	11/17/2010	11/17/2010
1,3-Dichlorobenzene	ND	ug/L	0.5	11/22/2010	11/22/2010
1,3-Dichlorobenzene	ND	ug/L	0.5	11/18/2010	11/18/2010
1,3-Dichlorobenzene	ND	ug/L	0.5	11/14/2010	11/14/2010
1,3-Dichloropropane	ND	ug/L	0.5	11/18/2010	11/18/2010
1,3-Dichloropropane	ND	ug/L	0.5	11/14/2010	11/14/2010
1,3-Dichloropropane	ND	ug/L	0.5	11/17/2010	11/17/2010
1,3-Dichloropropane	ND	ug/L	0.5	11/22/2010	11/22/2010
1,4-Dichlorobenzene	ND	ug/L	0.5	11/18/2010	11/18/2010
1,4-Dichlorobenzene	ND	ug/L	0.5	11/22/2010	11/22/2010
1,4-Dichlorobenzene	ND	ug/L	0.5	11/14/2010	11/14/2010

Comments:
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Client: **GEO ENGINEERS** 523 E 2ND Address: SPOKANE, WA 99202 Attn: DAVE LAUDER

Batch #:

101112036

Project Name:

IONE, WA 0504-058-00

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,4-Dichlorobenzene	ND	ug/L	0.5	11/17/2010	11/17/2010
2,2-Dichloropropane	ND	ug/L	0.5	11/18/2010	11/18/2010
2,2-Dichloropropane	ND	ug/L	0.5	11/14/2010	11/14/2010
2,2-Dichloropropane	ND	ug/L	0.5	11/17/2010	11/17/2010
2,2-Dichloropropane	ND	ug/L	0.5	11/22/2010	11/22/2010
2-Chlorotoluene	ND	ug/L	0.5	11/18/2010	11/18/2010
2-Chlorotoluene	ND	ug/L	0.5	11/22/2010	11/22/2010
2-Chlorotoluene	ND	ug/L	0.5	11/17/2010	11/17/2010
2-Chlorotoluene	ND	ug/L	0.5	11/14/2010	11/14/2010
2-hexanone	ND	ug/L	2.5	11/14/2010	11/14/2010
2-hexanone	ND	ug/L	2.5	11/17/2010	11/17/2010
2-hexanone	ND	ug/L	2.5	11/22/2010	11/22/2010
2-hexanone	ND	ug/L	2.5	11/18/2010	11/18/2010
4-Chlorotoluene	ND	ug/L	0.5	11/17/2010	11/17/2010
4-Chlorotoluene	ND	ug/L	0.5	11/22/2010	11/22/2010
4-Chlorotoluene	ND	ug/L	0.5	11/14/2010	11/14/2010
4-Chlorotoluene	ND	ug/L	0.5	11/18/2010	11/18/2010
Acetone	ND	ug/L	2.5	11/18/2010	11/18/2010
Acetone	ND	ug/L	2.5	11/14/2010	11/14/2010
Acetone	ND	ug/L	2.5	11/17/2010	11/17/2010
Acetone	ND	ug/L	2.5	11/22/2010	11/22/2010
Acrylonitrile	ND	ug/L	0.5	11/18/2010	11/18/2010
Acrylonitrile	ND	ug/L	0.5	11/22/2010	11/22/2010
Acrylonitrile	ND	ug/L	0.5	11/17/2010	11/17/2010
Acrylonitrile	ND	ug/L	0.5	11/14/2010	11/14/2010
Benzene	ND	ug/L	0.5	11/14/2010	11/14/2010
Benzene	ND	ug/L	0.5	11/17/2010	11/17/2010
Benzene	ND	ug/L	0.5	11/22/2010	11/22/2010
Benzene	ND	ug/L	0.5	11/18/2010	11/18/2010
Bromobenzene	ND	ug/L	0.5	11/17/2010	11/17/2010
Bromobenzene	ND	ug/L	0.5	11/22/2010	11/22/2010
Bromobenzene	ND	ug/L	0.5	11/14/2010	11/14/2010
Bromobenzene	ND	ug/L	0.5	11/18/2010	11/18/2010
Bromochloromethane	ND	ug/L	0.5	11/14/2010	11/14/2010
Bromochloromethane	ND	ug/L	0.5	11/17/2010	11/17/2010
Bromochloromethane	ND	ug/L	0.5	11/22/2010	11/22/2010
Bromochloromethane	ND	ug/L	0.5	11/18/2010	11/18/2010

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER

Batch #:

101112036

Project Name:

IONE, WA 0504-058-00

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Bromodichloromethane	ND	ug/L	0.5	11/17/2010	11/17/2010
Bromodichloromethane	ND	ug/L	0.5	11/22/2010	11/22/2010
Bromodichloromethane	ND	ug/L	0.5	11/18/2010	11/18/2010
Bromodichloromethane	ND	ug/L	0.5	11/14/2010	11/14/2010
Bromoform	ND	ug/L	0.5	11/14/2010	11/14/2010
Bromoform	ND	ug/L	0.5	11/17/2010	11/17/2010
Bromoform	ND	ug/L	0.5	11/22/2010	11/22/2010
Bromoform	ND	ug/L	0.5	11/18/2010	11/18/2010
Bromomethane	ND	ug/L	0.5	11/17/2010	11/17/2010
Bromomethane	ND	ug/L	0.5	11/22/2010	11/22/2010
Bromomethane	ND	ug/L	0.5	11/14/2010	11/14/2010
Bromomethane	ND	ug/L	0.5	11/18/2010	11/18/2010
Carbon disulfide	ND	ug/L	0.5	11/14/2010	11/14/2010
Carbon disulfide	ND	ug/L	0.5	11/17/2010	11/17/2010
Carbon disulfide	ND	ug/L	0.5	11/22/2010	11/22/2010
Carbon disulfide	ND	ug/L	0.5	11/18/2010	11/18/2010
Carbon Tetrachloride	ND	ug/L	0.5	11/22/2010	11/22/2010
Carbon Tetrachloride	ND	ug/L	0.5	11/17/2010	11/17/2010
Carbon Tetrachloride	ND	ug/L	0.5	11/18/2010	11/18/2010
Carbon Tetrachloride	ND	ug/L	0.5	11/14/2010	11/14/2010
Chlorobenzene	ND	ug/L	0.5	11/14/2010	11/14/2010
Chlorobenzene	ND	ug/L	0.5	11/17/2010	11/17/2010
Chlorobenzene	ND	ug/L	0.5	11/22/2010	11/22/2010
Chlorobenzene	ND	ug/L	0.5	11/18/2010	11/18/2010
Chloroethane	ND	ug/L	0.5	11/18/2010	11/18/2010
Chloroethane	ND	ug/L	0.5	11/14/2010	11/14/2010
Chloroethane	ND	ug/L	0.5	11/17/2010	11/17/2010
Chloroethane	ND	ug/L	0.5	11/22/2010	11/22/2010
Chloroform	ND	ug/L	0.5	11/18/2010	11/18/2010
Chloroform	ND	ug/L	0.5	11/22/2010	11/22/2010
Chloroform	ND	ug/L	0.5	11/14/2010	11/14/2010
Chloroform	ND	ug/L	0.5	11/17/2010	11/17/2010
Chloromethane	ND	ug/L	0.5	11/14/2010	11/14/2010
Chloromethane	ND	ug/L	0.5	11/17/2010	11/17/2010
Chloromethane	ND	ug/L	0.5	11/22/2010	11/22/2010
Chloromethane	ND	ug/L	0.5	11/18/2010	11/18/2010
cis-1,2-dichloroethene	ND	ug/L	0.5	11/22/2010	11/22/2010

Comments:

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Client: **GEO ENGINEERS** Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER

Batch #:

101112036

Project Name:

IONE, WA 0504-058-00

Analytical Results Report

Quality Control Data

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Parameter	Result	Units	PQL	Prep Date	Analysis Date
cis-1,2-dichloroethene	ND	ug/L	0.5	11/18/2010	11/18/2010
cis-1,2-dichloroethene	ND	ug/L	0.5	11/14/2010	11/14/2010
cis-1,2-dichloroethene	ND	ug/L	0.5	11/17/2010	11/17/2010
cis-1,3-Dichloropropene	ND	ug/L	0.5	11/14/2010	11/14/2010
cis-1,3-Dichloropropene	ND	ug/L	0.5	11/17/2010	11/17/2010
cis-1,3-Dichloropropene	ND	ug/L	0.5	11/22/2010	11/22/2010
cis-1,3-Dichloropropene	ND	ug/L	0.5	11/18/2010	11/18/2010
Dibromochloromethane	ND	ug/L	0.5	11/17/2010	11/17/2010
Dibromochloromethane	ND	ug/L	0.5	11/22/2010	11/22/2010
Dibromochloromethane	ND	ug/L	0.5	11/14/2010	11/14/2010
Dibromochloromethane	ND	ug/L	0.5	11/18/2010	11/18/2010
Dibromomethane	ND	ug/L	0.5	11/14/2010	11/14/2010
Dibromomethane	ND	ug/L	0.5	11/17/2010	11/17/2010
Dibromomethane	ND	ug/L	0.5	11/22/2010	11/22/2010
Dibromomethane	ND	ug/L	0.5	11/18/2010	11/18/2010
Dichlorodifluoromethane	ND	ug/L	0.5	11/18/2010	11/18/2010
Dichlorodifluoromethane	ND	ug/L	0.5	11/14/2010	11/14/2010
Dichlorodifluoromethane	ND	ug/L	0.5	11/17/2010	11/17/2010
Dichlorodifluoromethane	ND	ug/L	0.5	11/22/2010	11/22/2010
Ethylbenzene	ND	ug/L	0.5	11/14/2010	11/14/2010
Ethylbenzene	ND	ug/L	0.5	11/17/2010	11/17/2010
Ethylbenzene	ND	ug/L	0.5	11/22/2010	11/22/2010
Ethylbenzene	ND	ug/L	0.5	11/18/2010	11/18/2010
Gasoline	ND	mg/L	0.1	11/18/2010	11/18/2010
Gasoline	ND	mg/L	0.1	11/14/2010	11/14/2010
Hexachlorobutadiene	ND	ug/L	0.5	11/18/2010	11/18/2010
Hexachlorobutadiene	ND	ug/L	0.5	11/22/2010	11/22/2010
Hexachlorobutadiene	ND	ug/L	0.5	11/14/2010	11/14/2010
Hexachlorobutadiene	ND	ug/L	0.5	11/17/2010	11/17/2010
Isopropylbenzene	ND	ug/L	0.5	11/14/2010	11/14/2010
Isopropylbenzene	ND	ug/L	0.5	11/17/2010	11/17/2010
Isopropylbenzene	ND	ug/L	0.5	11/22/2010	11/22/2010
Isopropylbenzene	ND	ug/L	0.5	11/18/2010	11/18/2010
Lead	ND	mg/L	0.001	11/15/2010	11/16/2010
Lead	ND	mg/L	0.001	11/15/2010	11/16/2010
m+p-Xylene	ND	ug/L	0.5	11/17/2010	11/17/2010
m+p-Xylene	ND	ug/L	0.5	11/22/2010	11/22/2010

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 Client:
 GEO ENGINEERS
 Batch #:
 101112036

 Address:
 523 E 2ND
 Project Name:
 IONE, WA 0504-058-00

 SPOKANE, WA 99202
 SPOKANE, WA 99202
 Project Name:
 IONE, WA 0504-058-00

 Attn:
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Analytical Results Report

Quality Control Data

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Parameter	Result	Units	PQL	Prep Date	Analysis Date
m+p-Xylene	ND	ug/L	0.5	11/18/2010	11/18/2010
m+p-Xylene	ND	ug/L	0.5	11/14/2010	11/14/2010
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	11/18/2010	11/18/2010
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	11/14/2010	11/14/2010
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	11/17/2010	11/17/2010
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	11/22/2010	11/22/2010
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	11/18/2010	11/18/2010
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	11/22/2010	11/22/2010
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	11/14/2010	11/14/2010
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	11/17/2010	11/17/2010
Methylene chloride	ND	ug/L	2.5	11/14/2010	11/14/2010
Methylene chloride	ND	ug/L	2.5	11/18/2010	11/18/2010
Methylene chloride	ND	ug/L	2.5	11/22/2010	11/22/2010
Methylene chloride	ND	ug/L	2.5	11/17/2010	11/17/2010
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	11/14/2010	11/14/2010
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	11/17/2010	11/17/2010
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	11/18/2010	11/18/2010
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	11/22/2010	11/22/2010
Naphthalene	ND	ug/L	0.5	11/18/2010	11/18/2010
Naphthalene	ND	ug/L	0.5	11/22/2010	11/22/2010
Naphthalene	ND	ug/L	0.5	11/17/2010	11/17/2010
Naphthalene	ND	ug/L	0.5	11/14/2010	11/14/2010
n-Butylbenzene	ND	ug/L	0.5	11/14/2010	11/14/2010
n-Butylbenzene	ND	ug/L	0.5	11/17/2010	11/17/2010
n-Butylbenzene	ND	ug/L	0.5	11/22/2010	11/22/2010
n-Butylbenzene	ND	ug/L	0.5	11/18/2010	11/18/2010
n-Propylbenzene	ND	ug/L	0.5	11/14/2010	11/14/2010
n-Propylbenzene	ND	ug/L	0.5	11/18/2010	11/18/2010
n-Propylbenzene	ND	ug/L	0.5	11/17/2010	11/17/2010
n-Propylbenzene	ND	ug/L	0.5	11/22/2010	11/22/2010
o-Xylene	ND	ug/L	0.5	11/14/2010	11/14/2010
o-Xylene	ND	ug/L	0.5	11/18/2010	11/18/2010
o-Xylene	ND	ug/L	0.5	11/22/2010	11/22/2010
o-Xylene	ND	ug/L	0.5	11/17/2010	11/17/2010
p-isopropyltoluene	ND	ug/L	0.5	11/14/2010	11/14/2010
p-isopropyltoluene	ND	ug/L	0.5	11/17/2010	11/17/2010
p-isopropyltoluene	ND	ug/L	0.5	11/22/2010	11/22/2010

Comments:

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Client: **GEO ENGINEERS** Address: 523 E 2ND SPOKANE, WA 99202 Attn:

Batch #:

101112036

Project Name:

IONE, WA 0504-058-00

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Analytical Results Report

Quality Control Data

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Parameter	Result	Units	PQL	Prep Date	Analysis Date
p-isopropyltoluene	ND	ug/L	0.5	11/18/2010	11/18/2010
sec-Butylbenzene	ND	ug/L	0.5	11/17/2010	11/17/2010
sec-Butylbenzene	ND	ug/L	0.5	11/22/2010	11/22/2010
sec-Butylbenzene	ND	ug/L	0.5	11/14/2010	11/14/2010
sec-Butylbenzene	ND	ug/L	0.5	11/18/2010	11/18/2010
Styrene	ND	ug/L	0.5	11/18/2010	11/18/2010
Styrene	ND	ug/L	0.5	11/14/2010	11/14/2010
Styrene	ND	ug/L	0.5	11/17/2010	11/17/2010
Styrene	ND	ug/L	0.5	11/22/2010	11/22/2010
tert-Butylbenzene	ND	ug/L	0.5	11/18/2010	11/18/2010
tert-Butylbenzene	ND	ug/L	0.5	11/22/2010	11/22/2010
tert-Butylbenzene	ND	ug/L	0.5	11/14/2010	11/14/2010
tert-Butylbenzene	ND	ug/L	0.5	11/17/2010	11/17/2010
Tetrachloroethene	ND	ug/L	0.5	11/14/2010	11/14/2010
Tetrachloroethene	ND	ug/L	0.5	11/17/2010	11/17/2010
Tetrachloroethene	ND	ug/L	0.5	11/22/2010	11/22/2010
Tetrachloroethene	ND	ug/L	0.5	11/18/2010	11/18/2010
Toluene	ND	ug/L	0.5	11/17/2010	11/17/2010
Toluene	ND	ug/L	0.5	11/22/2010	11/22/2010
Toluene	ND	ug/L	0.5	11/14/2010	11/14/2010
Toluene	ND	ug/L	0.5	11/18/2010	11/18/2010
trans-1,2-Dichloroethene	ND	ug/L	0.5	11/14/2010	11/14/2010
trans-1,2-Dichloroethene	ND	ug/L	0.5	11/17/2010	11/17/2010
trans-1,2-Dichloroethene	ND	ug/L	0.5	11/22/2010	11/22/2010
trans-1,2-Dichloroethene	ND	ug/L	0.5	11/18/2010	11/18/2010
trans-1,3-Dichloropropene	ND	ug/L	0.5	11/14/2010	11/14/2010
trans-1,3-Dichloropropene	ND	ug/L	0.5	11/18/2010	11/18/2010
trans-1,3-Dichloropropene	ND	ug/L	0.5	11/17/2010	11/17/2010
trans-1,3-Dichloropropene	ND	ug/L	0.5	11/22/2010	11/22/2010
Trichloroethene	ND	ug/L	0.5	11/14/2010	11/14/2010
Trichloroethene	ND	ug/L	0.5	11/17/2010	11/17/2010
Trichloroethene	ND	ug/L	0.5	11/22/2010	11/22/2010
Trichloroethene	ND	ug/L	0.5	11/18/2010	11/18/2010
Trichloroflouromethane	ND	ug/L	0.5	11/14/2010	11/14/2010
Trichloroflouromethane	ND	ug/L	0.5	11/17/2010	11/17/2010
Trichloroflouromethane	ND	ug/L	0.5	11/22/2010	11/22/2010
Trichloroflouromethane	ND	ug/L	0.5	11/18/2010	11/18/2010

Comments:

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Client:	GEO ENGINEERS	Batch #:	101112036
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		
	Analytical Result	ts Report	

Quality Control Data

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Parameter	Result	Units	PQL	Prep Date	Analysis Date
Vinyl Chloride	ND	ug/L	0.5	11/18/2010	11/18/2010
Vinyl Chloride	ND	ug/L	0.5	11/14/2010	11/14/2010
Vinyl Chloride	ND	ug/L	0.5	11/17/2010	11/17/2010
Vinyl Chloride	ND	ug/L	0.5	11/22/2010	11/22/2010

Duplicate								
Sample Numbe	Parameter	Sample Result	Duplicate Result	Units	%RPD	AR %RPD	Prep Date	Analysis Date
101112036-008	Lead	ND	ND	mg/L	0.0	0-20	11/15/2010	11/16/2010
101112036-005	Lead	ND	ND	mg/L	0.0	0-20	11/15/2010	11/16/2010

AR Acceptable Range ND Not Detected

PQL Practical Quantitation Limit

RPD Relative Percentage Difference

Comments:

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		Login Report		
Customer Name:	GEO ENGINEERS 523 E 2ND SPOKANE	WA 99202	Order II Order Dat	D: 101112036 e: 11/12/2010
Contact Name:	: DAVE LAUDER	P	roject Name: IONE	e, WA 0504-058-00
Comment	:			
Sample #: 101112	036-001 Customer Sample #:	MW-1-111010		
Recv'd: 🗹 Quantity: 1 Comment:	Collector: Matrix: Water	Date Collected: Date Received:	11/10/2010 11/12/2010 5:18:14 P	
Test		Method	Due Date	Priority
LEAD		EPA 200.8	11/22/2010	Normal (6-10 Days)
TPHG-NW-SPO		NWTPHG	1 1/19/2010	Normal (6-10 Days)
VOLATILES 8260		EPA 8260C	11/22/2010	<u>Normal (6-10 Days)</u>
Sample #: 101112	036-002 Customer Sample #:	MW-2-111010		
Recv'd:	Collector:	Date Collected:	11/10/2010	
Quantity: 1	Matrix: Water	Date Received:	11/12/2010 5:18:14 P	
Comment:				
Test		Method	Due Date	Priority
LEAD		EPA 200.8	11/22/2010	Normal (6-10 Days)
TPHG-NW-SPO		NWTPHG	11/19/2010	<u>Normal (6-10 Days)</u>
VOLATILES 8260		EPA 8260C	11/22/2010	<u>Normal (6-10 Days)</u>
Sample #: 101112	036-003 Customer Sample #:	MW-3-111110		
Recv'd:	Collector:	Date Collected:	11/11/2010	
Quantity: 1	Matrix: Water	Date Received:	11/12/2010 5:18:14 P	
Comment:				
Test		Method	Due Date	Priority
LEAD		EPA 200.8	11/22/2010	Normal (6-10 Days)
TPHG-NW-SPO		NWTPHG	11/19/2010	Normal (6-10 Days)
VOLATILES 8260		EPA 8260C	11/22/2010	Normal (6-10 Davs)

Customer	Name:	GEO ENGIN	NEERS		Order I	D: 101112036
		523 E 2ND			Order Dat	e: 11/12/2010
		SPOKANE		WA 99202		
Contact	Name:	DAVE LAUE	DER	P	Project Name: IONE	E, WA 0504-058-00
Con	nment:					
Sample #:	101112	036-004 Cust	omer Sample #:	MW-4-111110		
Recv'd:	\checkmark	Collector	:	Date Collected:	11/11/2010	
Quantity:	1	Matrix:	Water	Date Received:	11/12/2010 5:18:14 P)
Comment:						
Test				Method	Due Date	Priority
LEAD				EPA 200.8	11/22/2010	Normal (6-10 Days)
TPHG-NW-	-SPO			NWTPHG	11/19/2010	Normal (6-10 Days)
VOLATILE	S 8260			EPA 8260C	11/22/2010	<u>Normal (6-10 Days)</u>
Sample #:	101112	036-005 Cust	omer Sample #:	MW-5-111110	· · · · · · · · · · · · · · · · · · ·	
Recv'd:	\checkmark	Collector:		Date Collected:	11/11/2010	
Quantity:	1	Matrix:	Water	Date Received:	11/12/2010 5:18:14 P	
Comment:						
Test				Method	Due Date	Priority
LEAD				EPA 200.8	11/22/2010	Normal (6-10 Days)
TPHG-NW-	SPO			NWTPHG	11/19/2010	<u>Normal (6-10 Days)</u>
VOLATILES	S 8260			EPA 8260C	11/22/2010	<u>Normal (6-10 Days)</u>
Sample #:	1011120	036-006 Cust	omer Sample #:	MW-6-111110		
Recv'd:	✓	Collector:		Date Collected:	11/11/2010	
Quantity:	1	Matrix:	Water	Date Received:	11/12/2010 5:18:14 P	
Comment:						
Test				Method	Due Date	Priority
LEAD				EPA 200.8	11/22/2010	Normal (6-10 Davs)
TPHG-NW-	SPO			NWTPHG	11/19/2010	Normal (6-10 Days)
VOLATILES	6 8260			EPA 8260C	11/22/2010	Normal (6-10 Days)
Sample #:	1011120	036-007 Custo	omer Sample #:	MW-7-111110		
Recv'd:	✓	Collector:		Date Collected:	11/11/2010	
Quantity:	1	Matrix:	Water	Date Received:	11/12/2010 5:18:14 P	
Comment:						
Test				Method	Due Date	Priority
LEAD			TITUT IF IS NO ADDA.	EPA 200.8	11/22/2010	Normal (6-10 Davs)

Customer Name:	GEO ENGINEERS		Order ID:	101112036
	523 E 2ND		Order Date:	11/12/2010
	SPOKANE	WA 99202		
Contact Name:	DAVE LAUDER	Р	roject Name: IONE, V	WA 0504-058-00
Comment:			-	
TPHG-NW-SPO		NWTPHG	11/19/2010 <u>N</u>	lormal (6-10 Days)
VOLATILES 8260		EPA 8260C	11/22/2010 <u>N</u>	lormal (6-10 Days)
Sample #: 1011120	036-008 Customer Sample #:	MW-8-111110		
Recv'd:	Collector:	Date Collected:	11/11/2010	
Quantity: 1	Matrix: Water	Date Received:	11/12/2010 5:18:14 P	
Comment:				
Test		Method	Due Date P	riority
LEAD		EPA 200.8	11/22/2010 <u>N</u>	lormal (6-10 Days)
TPHG-NW-SPO		NWTPHG	11/19/2010 <u>N</u>	lormal (6-10 Days)
VOLATILES 8260		EPA 8260C	11/22/2010 <u>N</u>	ormal (6-10 Days)
Sample #: 1011120	36-009 Customer Sample #:	MW-9-111110		
Recv'd: 🗸	Collector:	Date Collected:	11/11/2010	
Quantity: 1	Matrix: Water	Date Received:	11/12/2010 5:18:14 P	
Comment:				
Test		Method	Due Date Pi	riority
LEAD		EPA 200.8	11/22/2010 <u>N</u>	ormal (6-10 Days)
TPHG-NW-SPO		NWTPHG	11/19/2010 <u>N</u>	ormal (6-10 Days)
VOLATILES 8260		EPA 8260C	11/22/2010 <u>N</u>	ormal (6-10 Days)
0				
Sample #: 1011120	36-010 Customer Sample #:	MW-10-111110		
Recv'd:	36-010 Customer Sample #: Collector:	MW-10-111110 Date Collected:	11/11/2010	
Recv'd: 🔽 Quantity: 1	36-010 Customer Sample #: Collector: Matrix: Water	MW-10-111110 Date Collected: Date Received:	11/11/2010 11/12/2010 5:18:14 P	
Recv'd: Quantity: 1 Comment:	36-010 Customer Sample #: Collector: Matrix: Water	MW-10-111110 Date Collected: Date Received:	11/11/2010 11/12/2010 5:18:14 P	
Recv'd: Quantity: 1 Comment: Test	36-010 Customer Sample #: Collector: Matrix: Water	MW-10-111110 Date Collected: Date Received: Method	11/11/2010 11/12/2010 5:18:14 P Due Date Pr	riority
Recv'd: Quantity: 1 Comment: <u>Test</u> LEAD	36-010 Customer Sample #: Collector: Matrix: Water	MW-10-111110 Date Collected: Date Received: Method EPA 200.8	11/11/2010 11/12/2010 5:18:14 P Due Date Pr 11/22/2010 <u>N</u>	riority ormal (6-10 Days)
Recv'd: Quantity: 1 Comment: Test LEAD TPHG-NW-SPO	36-010 Customer Sample #: Collector: Matrix: Water	MW-10-111110 Date Collected: Date Received: Method EPA 200.8 NWTPHG	11/11/2010 11/12/2010 5:18:14 P Due Date Pr 11/22/2010 <u>N</u> 11/19/2010 <u>N</u>	riority ormal (6-10 Days) ormal (6-10 Days)

Custome	r Name:	GEO ENG	INEERS		Order	ID: 101112036
		523 E 2NC)		Order Da	te: 11/12/2010
		SPOKANE		WA 99202		
Contac	t Name:	DAVE LAU	IDER		Project Name: ION	E, WA 0504-058-00
Co	mment:					
Sample #:	1011120	036-011 Cu s	stomer Sample #:	MW-11-111110		
Recv'd:	<	Collecto	r:	Date Collecte	d: 11/11/2010	
Quantity:	1	Matrix:	Water	Date Received	d: 11/12/2010 5:18:14 F	þ
Comment	t:					
Test				Method	Due Date	Priority
LEAD				EPA 200.8	11/22/2010	Normal (6-10 Days)
TPHG-NW	/-SPO			NWTPHG	11/19/2010	Normal (6-10 Days)
VOLATILE	ES 8260			EPA 8260C	11/22/2010	Normal (6-10 Days)
Sample #:	1011120	36-012 Cus	tomer Sample #:	MW-12-111110		
Recv'd:	~	Collector	r:	Date Collected	i: 11/11/2010	
Quantity:	1	Matrix:	Water	Date Received	l: 11/12/2010 5:18:14 F	•
Comment	:					
Test				Method	Due Date	Priority
LEAD				EPA 200.8	11/22/2010	Normal (6-10 Days)
TPHG-NW	-SPO			NWTPHG	11/19/2010	Normal (6-10 Days)
VOLATILE	S 8260			EPA 8260C	11/22/2010	<u>Normal (6-10 Days)</u>
Sample #:	1011120	36-013 Cus	tomer Sample #:	DUPLICATE 1		
Recv'd:	\checkmark	Collector	:	Date Collected	: 11/11/2010	
Quantity:	1	Matrix:	Water	Date Received	: 11/12/2010 5:18:14 P	
Comment:						
Test				Method	Due Date	Priority
LEAD				EPA 200.8	11/22/2010	Normal (6-10 Davs)
TPHG-NW-	-SPO			NWTPHG	11/19/2010	Normal (6-10 Days)
VOLATILE	S 8260			EPA 8260C	11/22/2010	Normal (6-10 Days)
Sample #:	10111203	36-014 Cust	omer Sample #:	DRUM MW-5		
Recv'd:	<	Collector	:	Date Collected	: 11/11/2010	
Quantity:	1	Matrix:	Water	Date Received:	: 11/12/2010 5:18:14 P	
Comment:						
Test				Method	Due Date	Priority
VOLATILES	5 8260			EPA 8260C	11/22/2010	Normal (6-10 Davs)

Customer	Name:	GEO ENGIN	NEERS			Order I	D: 101112	2036
		523 E 2ND				Order Dat	e: 11/12/2	2010
		SPOKANE		WA	99202			
Contact	Name:	DAVE LAUD	DER		Р	roject Name: IONE	E, WA 0504-058-	00
Con	nment:					-		
Sample #:	1011120	036-015 Cust	omer Sample #:	DRUM MV	V-8			
Recv'd:	✓	Collector:			Date Collected:	11/11/2010		
Quantity:	1	Matrix:	Water		Date Received:	11/12/2010 5:18:14 F)	
Comment:								
Test				Met	hod	Due Date	Priority	
VOLATILE	S 8260			EPA	x 8260C	11/22/2010	Normal (6-10 D) avs)
	4044400	00.040 0						<u></u>
Sample #:	1011120	130-010 Cust	omer Sample #:	DP DRUIV	I			
Recv'd:	\checkmark	Collector:			Date Collected:	11/11/2010		
Quantity:	1	Matrix:	Water		Date Received:	11/12/2010 5:18:14 F)	
Comment:								
Test				Met	hod	Due Date	Priority	
TCLP Benz	zene			EPA	8260B	11/18/2010	<u>Normal (6-10 E</u>	Days)
Sample #:	1011120	36-017 Cust	omer Sample #:	TRIP BLA	NK	·		
Recv'd:	~	Collector:			Date Collected:	11/11/2010		
Quantity:	1	Matrix:	Water		Date Received:	11/12/2010 5:18:14 F	•	
Comment:								
Test				Met	hod	Due Date	Priority	
VOLATILES	S 8260			EPA	8260C	11/22/2010	<u>Normal (6-10 E</u>	Days)
			SAMPLE C			ט		
Sam	ples recei	ved in a cooler?				Yes		
Sam	ples recei	ved intact?				Yes		
Wha	t is the te	mperature inside	the cooler?			3.1		
Sam	ples recei	ved with a COC	?			Yes		
Sam	ples recei	ved within holdir	ng time?			Yes		
Are a	all sample	bottles properly	preserved?			Yes		
Are \	/OC sam	ples free of head	Ispace?			Yes		
Is the	ere a trip l	plank to accomp	any VOC samples	?		Yes		
Labe	ls and ch	ain agree?				Yes		

Amutek	5	uin of C	ti stoch	Record		dinan Anna	1112 036 GEOL	11/22/2010
Labs, O 1382 A	lturas Drive, 7 trague Ste D, S	Moscow ID pokane W	83843 (2) A 99202 (18) 883-28 509) 838-	39 FAX 882-92 999 PAX 838-4		- 54.6P 11/10/201 14: ROVE NE, WA 0504-058-00	0102/2010
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City Cark we State: WA 240.	9126	Erran Addres	as chiever	r 0 940	WWW WAR	,, (, ζ, ζ, ζ, , , , , , , , , , , , , ,	XNormal *All rush Next Day* requires n	order Phone Mail
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Tex: 363- 3126	international construction of the second	Sampler Far	and 2	A≮ II	L-474-554	1	Tier S an	
Provide Sample Describtion			List	Analyses	Requested		Note Special Instruc	uorts/comments
and and a state where the state of the	rene a management par a construction de la const	Presenstant In E					# VOCS including. BTE ord nuphthalone.	X, EDC, MTBE,
		reciercy Fullow a	তলন্ত ≹ ×Э-৸	50£∫x		er mangarina anda dista a ting	Please kee PQI & beha	, MTCA
Lab Lab ID Samble identification Settiming EaterTime	84.132°94	idises io la #	500 200√ 81WW	و ار ده درمکر			Cleanup levels	
Mul-1-111010 11/10/10 1610	*	e e	X X	X			สรามสามารถเราะรักษ์ เป็นการครูรู้ไประการที่สามารถสรามสามารถการสามารถการเป็นเป็นไปไปการการที่สามาร์สรามสามารถสรา สามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสาม	an an 1979. It is a subsequence and the set of the subsequence many subsection and the set of the second
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mu-3-11/10 11/10/10 1426		¢.	X X	X			\mathbf{x}_{i}	an a shi ji . Nanan amin manan Manadan an in an mananan mananan an adala a sa a san
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1727 MW-5-11110		9	X) X)	$\overrightarrow{\mathbf{x}}$			a series name and the series of the second series and the series of the second second second series from the se	and a set of the set o
MW-6-11110 1514		6	$\langle \rangle$ $\langle \rangle$	$\langle \rangle$			тап, регисти инициальных расской стату (С. Ф. Манине, Колдонски и Пересонали и Пересонал	name na stran de la national mánimum mánimum mánimum anna seu en crucita (, en comme national enclosed en copeded de co
2	and a set of the set o	¢ /	$\langle \rangle$ $\langle \rangle$				Inspection .	chrocklist
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Drmide Sample Description	List Analyses Requested	Note Special Instructions/Comments
a a start of the		* VOCJ including BTER, EDK, MTBE,
	6.01 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	and nephylicatore.
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1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com 504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	GEO ENGINEERS	Batch #:	101209043
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101209043-001 CABIN WELL - 120810 Water		Sampling Data Sampling Tim Sample Locat	e 1 e 1 ion	2/8/2010 D 2:44 PM E	ate/Time Reconstruction Date	eived e	12/9/2010	11:25 AM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Meth	nod	Qualifier
Lead		ND	mg/L	0.001	12/16/2010	KEA	EPA 2	200.8	

Authorized Signature

them ()

Kathy Sattler, Lab Manager

MCL EPA's Maximum Contaminant Level

ND Not Detected

PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory. The results reported relate only to the samples indicated. Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER
 Batch #:
 101209043

 Project Name:
 IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101209043-001 CABIN WELL - 120810 Water		Sampling Date Sampling Time Sample Locatio	1: 1: n	2/8/2010 Da 2:44 PM E>	ate/Time Rec straction Dat	eived 12/9/2010 e	11:25 AM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrach	loroethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1,1-Trichloroe	ethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrach	loroethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1,2-Trichloroe	ethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1-Dichloroeth	ane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1-Dichloroeth	ene	ND	ug/L	0.5	12/9/2010	woz	EPA 8260C	
1,1-dichloropro	pene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2,3-Trichlorot	penzene	ND	ug/L	0.5	12/9/2010	woz	EPA 8260C	
1,2,3-Trichlorop	oropane	ND	ug/L	0.5	12/9/2010	woz	EPA 8260C	
1,2,4-Trichlorob	benzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2,4-Trimethyl	benzene	289	ug/L	25	12/9/2010	woz	EPA 8260C	
1,2-Dibromo-3-	chloropropane(DBCP)	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2-Dibromoeth	nane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2-Dichlorober	nzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2-Dichloroeth	ane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2-Dichloropro	ppane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,3,5-Trimethyl	benzene	192	ug/L	25	12/9/2010	WOZ	EPA 8260C	
1,3-Dichlorober	nzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,3-Dichloropro	ppane	ND	ug/L	0.5	12/9/2010	woz	EPA 8260C	
1,4-Dichlorober	nzene	ND	ug/L	0.5	12/9/2010	woz	EPA 8260C	
2,2-Dichloropro	opane	ND	ug/L	0.5	12/9/2010	woz	EPA 8260C	
2-Chlorotoluen	e	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	

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Client:	GEO ENGINEERS	Batch #:	101209043
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number1Client Sample IDCMatrixWComments	01209043-001 ABIN WELL - 120810 /ater		Sampling Date Sampling Time Sample Locatio	1 1 n	2/8/2010 D 2:44 PM E	ate/Time Rec xtraction Dat	ceived 12/9/2010 te	11:25 AM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2-hexanone		ND	ug/L	2.5	12/9/2010	WOZ	EPA 8260C	
4-Chlorotoluene		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Acetone		9.70	ug/L	2.5	12/9/2010	WOZ	EPA 8260C	
Acrylonitrile		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Benzene		227	ug/L	25	12/9/2010	woz	EPA 8260C	
Bromobenzene		ND	ug/L	0.5	12/9/2010	woz	EPA 8260C	
Bromochlorometha	ne	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Bromodichlorometh	nane	ND	ug/L	0.5	12/9/2010	woz	EPA 8260C	
Bromoform		ND	ug/L	0.5	12/9/2010	woz	EPA 8260C	
Bromomethane		ND	ug/L	0.5	12/9/2010	woz	EPA 8260C	
Carbon disulfide		ND	ug/L	0.5	12/9/2010	woz	EPA 8260C	
Carbon Tetrachlorie	de	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Chlorobenzene		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Chloroethane		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Chloroform		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Chloromethane		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
cis-1,2-dichloroethe	ene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
cis-1,3-Dichloropro	pene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Dibromochlorometh	nane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Dibromomethane		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Dichlorodifluoromet	hane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Ethylbenzene		592	ug/L	25	12/9/2010	WOZ	EPA 8260C	
Hexachlorobutadier	ne	ND	ug/L	0.5	12/9/2010	woz	EPA 8260C	

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Client: **GEO ENGINEERS** Address: 523 E 2ND SPOKANE, WA 99202 DAVE LAUDER Attn:

Batch #: 101209043 Project Name:

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101209043-001 CABIN WELL - 120810 Water		Sampling Date Sampling Time Sample Locatio	1 1 n	2/8/2010 D 2:44 PM E	ate/Time Rec xtraction Dat	ceived 12/9/2010 ce	11:25 AM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Isopropylbenze	ene	29.9	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
m+p-Xylene		1930	ug/L	25	12/9/2010	WOZ	EPA 8260C	
Methyl ethyl ke	etone (MEK)	4.73	ug/L	2.5	12/9/2010	WOZ	EPA 8260C	
Methyl isobuty	l ketone (MIBK)	ND	ug/L	2.5	12/9/2010	WOZ	EPA 8260C	
Methylene chlo	oride	ND	ug/L	2.5	12/9/2010	WOZ	EPA 8260C	
methyl-t-butyl	ether (MTBE)	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Naphthalene		410	ug/L	25	12/9/2010	WOZ	EPA 8260C	
n-Butylbenzen	e	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
n-Propylbenze	ne	70.0	ug/L	25	12/9/2010	WOZ	EPA 8260C	
o-Xylene		1090	ug/L	25	12/9/2010	WOZ	EPA 8260C	
p-isopropyltolu	ene	2.59	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
sec-Butylbenze	ene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Styrene		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
tert-Butylbenze	ene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Tetrachloroeth	ene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Toluene		3640	ug/L	100	12/9/2010	WOZ	EPA 8260C	
trans-1,2-Dichl	oroethene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
trans-1,3-Dichl	oropropene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Trichloroethen	e	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Trichloroflouro	methane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Vinyl Chloride		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	

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Client:	GEO ENGINEERS	Batch #:	101209043
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101209043-001 CABIN WELL - 120810 Water		Sampling Date Sampling Time Sample Location	12 12 n	2/8/2010 2:44 PM	Date/Time Receir Extraction Date	ved 12/9/2010	11:25 AM
Parameter		Result	Units	PQL	Analysis Dat	e Analyst	Method	Qualifier
			Surrogate	Data				
ample Number	101209043-001							
Surrogate St	andard		Method		Pe	rcent Recovery	Control L	imits
1,2-Dichlorob	enzene-d4		EPA 8260C			99.6	70-13	0
4-Bromofluor	obenzene		EPA 8260C			113.2	70-13	0
Toluene-d8			EPA 8260C			81.6	70-13	0

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Client:	GEO ENGINEERS	Batch #:	101209043
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101209043-002 TRIP BLANK Water		Sampling Date Sampling Time Sample Locatio	1 n	2/8/2010 E E	ate/Time Re extraction Da	ceived te	12/9/2010	11:25 AM
Parameter		Result	Units	PQL	Analysis Date	e Analyst	Me	thod	Qualifier
1,1,1,2-Tetrach	loroethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,1,1-Trichloroe	ethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,1,2,2-Tetrach	loroethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,1,2-Trichloroe	ethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,1-Dichloroeth	ane	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,1-Dichloroeth	nene	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,1-dichloropro	pene	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,2,3-Trichlorol	benzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,2,3-Trichlorop	propane	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,2,4-Trichlorot	benzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,2,4-Trimethyl	benzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,2-Dibromo-3-	chloropropane(DBCP)	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,2-Dibromoeth	nane	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,2-Dichlorober	nzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,2-Dichloroeth	ane	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,2-Dichloropro	pane	ND	ug/L	0.5	12/9/2010	WOZ	EPA -	8260C	
1,3,5-Trimethyl	benzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,3-Dichlorober	nzene	ND	ug/L	0.5	12/9/2010	WOZ	ÉPA	8260C	
1,3-Dichloropro	ppane	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
1,4-Dichlorober	nzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
2,2-Dichloropro	ppane	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
2-Chlorotoluen	e	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
2-hexanone		ND	ug/L	2.5	12/9/2010	WOZ	EPA	8260C	

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Client:	GEO ENGINEERS	Batch #:	101209043
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101209043-002 TRIP BLANK Water		Sampling Date Sampling Time Sample Locatio	1: • n	2/8/2010 Da Ex	te/Time Red traction Dat	ceived te	12/9/2010	11:25 AM
Parameter		Result	Units	PQL	Analysis Date	Analyst	Meti	nod	Qualifier
4-Chlorotoluen	e	ND	ug/L	0.5	12/9/2010	woz	EPA 8	260C	
Acetone		ND	ug/L	2.5	12/9/2010	woz	EPA 8	260C	
Acrylonitrile		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
Benzene		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
Bromobenzene		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
Bromochlorome	ethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
Bromodichloror	nethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
Bromoform		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
Bromomethane		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
Carbon disulfide	e	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
Carbon Tetrach	lloride	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
Chlorobenzene		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
Chloroethane		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
Chloroform		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
Chloromethane		ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
cis-1,2-dichloro	ethene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
cis-1,3-Dichloro	propene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
Dibromochloron	nethane	ND	ug/L	0.5	12/9/2010	woz	EPA 8	260C	
Dibromomethan	ie	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
Dichlorodifluoro	methane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	
Ethylbenzene		ND	ug/L	0.5	12/9/2010	woz	EPA 8	260C	
Hexachlorobuta	diene	ND	ug/L	0.5	12/9/2010	woz	EPA 8	260C	
Isopropylbenzer	ne	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8	260C	

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Client: GEO ENGINEERS Address: 523 E 2ND SPOKANE, WA 99202 Attn: DAVE LAUDER Batch #: Project Name:

101209043

IONE, WA 0504-058-00

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101209043-002 TRIP BLANK Water		Sampling Date Sampling Time Sample Locatio	1 n	12/8/2010 E E	Date/Time Re Extraction Da	ceived Ite	12/9/2010	11:25 AM
Parameter		Result	Units	PQL	Analysis Date	e Analyst	Ме	thod	Qualifier
m+p-Xylene		ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
Methyl ethyl ke	etone (MEK)	ND	ug/L	2.5	12/9/2010	WOZ	EPA	8260C	
Methyl isobuty	l ketone (MIBK)	ND	ug/L	2.5	12/9/2010	woz	EPA	8260C	
Methylene chlo	oride	ND	ug/L	2.5	12/9/2010	WOZ	EPA	8260C	
methyl-t-butyl	ether (MTBE)	ND	ug/L	0.5	12/9/2010	woz	EPA	8260C	
Naphthalene		ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
n-Butylbenzen	е	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
n-Propylbenze	ne	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
o-Xylene		ND	ug/L	0.5	12/9/2010	woz	EPA	8260C	
p-isopropyltolu	ene	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
sec-Butylbenze	ene	ND	ug/L	0.5	12/9/2010	woz	EPA	8260C	
Styrene		ND	ug/L	0.5	12/9/2010	woz	EPA	8260C	
tert-Butylbenze	ene	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
Tetrachloroeth	ene	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
Toluene		ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
trans-1,2-Dichl	oroethene	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
trans-1,3-Dichl	oropropene	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
Trichloroethen	e	ND	ug/L	0.5	12/9/2010	WOZ	EPA	8260C	
Trichloroflouro	methane	ND	ug/L	0.5	12/9/2010	woz	EPA	8260C	
Vinyl Chloride		ND	ug/L	0.5	12/9/2010	woz	EPA	8260C	

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Client:	GEO ENGINEERS	Batch #:	101209043
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101209043-002 TRIP BLANK Water		Sampling Date Sampling Time Sample Locatio	1: •n	2/8/2010 I	Date/Time Recei Extraction Date	ved 12/9/2010	11:25 AM
Parameter		Result	Units	PQL	Analysis Dat	e Analyst	Method	Qualifier
			Surrogate	Data				
Sample Number	101209043-002							
Surrogate St	tandard		Method		Pe	rcent Recovery	Control I	imits
1,2-Dichlorob	chlorobenzene-d4 EPA 8260C		;		103.2	70-13	30	
4-Bromofluor	obenzene		EPA 8260C	;		93.6	70-1:	30
Toluene-d8			EPA 8260C	;		100.4	70-13	30

Authorized Signature

Kathleen a.

Kathy Sattler, Lab Manager

MCL EPA's Maximum Contaminant Level

ND Not Detected

PQL Practical Quantitation Limit

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Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client:	GEO ENGINEERS	Batch #:	101209043
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		

Analytical Results Report

Sample Number Client Sample ID Matrix Comments	101209043-001 CABIN WELL - 120810 Water		Sampling Date Sampling Time Sample Locatio	1: 1: 9 n	2/8/2010 [2:44 PM [Date/Time Rece Extraction Date	ived 12/9/2010	11:25 AM
Parameter		Result	Units	PQL	Analysis Dat	e Analyst	Method	Qualifier
Gasoline		26.1	mg/L	1	12/11/2010	WOZ	NWTPHG	
			Surrogate	Data				
Sample Number	101209043-001							
Surrogate S 4-Bromofluor	tandard robenzene		Method NWTPHG		Pe	r cent Recovery 112.5	Control I 70-13	₋imits 30

Authorized Signature

heen ()

Kathy Sattler, Lab Manager

MCL EPA's Maximum Contaminant Level

ND Not Detected

PQL Practical Quantitation Limit

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Client: GEO ENGINEERS

DAVE LAUDER

Address: 523 E 2ND SPOKANE, WA 99202 Batch #: Project Name:

101209043 IONE, WA 0504-058-00

Analytical Results Report

Quality Control Data

Lab Control Sample

Attn:

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Trichloroethene	5.10	ug/L	5	102.0	70-130	12/9/2010	12/9/2010
Toluene	5.01	ug/L	5	100.2	70-130	12/9/2010	12/9/2010
Tetrachloroethene	5.16	ug/L	5	103.2	70-130	12/9/2010	12/9/2010
o-Xylene	4.57	ug/L	5	91.4	70-130	12/9/2010	12/9/2010
Ethylbenzene	4.56	ug/L	5	91.2	70-130	12/9/2010	12/9/2010
Chlorobenzene	4.71	ug/L	5	94.2	70-130	12/9/2010	12/9/2010
Benzene	4.74	ug/L	5	94.8	70-130	12/9/2010	12/9/2010
1,1-Dichloroethene	5.17	ug/L	5	103.4	70-130	12/9/2010	12/9/2010

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	12/9/2010	12/9/2010
1,1,1-Trichloroethane	ND	ug/L	0.5	12/9/2010	12/9/2010
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	12/9/2010	12/9/2010
1,1,2-Trichloroethane	ND	ug/L	0.5	12/9/2010	12/9/2010
1,1-Dichloroethane	ND	ug/L	0.5	12/9/2010	12/9/2010
1,1-Dichloroethene	ND	ug/L	0.5	12/9/2010	12/9/2010
1,1-dichloropropene	ND	ug/L	0.5	12/9/2010	12/9/2010
1,2,3-Trichlorobenzene	ND	ug/L	0.5	12/9/2010	12/9/2010
1,2,3-Trichloropropane	ND	ug/L	0.5	12/9/2010	12/9/2010
1,2,4-Trichlorobenzene	ND	ug/L	0.5	12/9/2010	12/9/2010
1,2,4-Trimethylbenzene	ND	ug/L	0.5	12/9/2010	12/9/2010
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	12/9/2010	12/9/2010
1,2-Dibromoethane	ND	ug/L	0.5	12/9/2010	12/9/2010
1,2-Dichlorobenzene	ND	ug/L	0.5	12/9/2010	12/9/2010
1,2-Dichloroethane	ND	ug/L	0.5	12/9/2010	12/9/2010
1,2-Dichloropropane	ND	ug/L	0.5	12/9/2010	12/9/2010
1,3,5-Trimethylbenzene	ND	ug/L	0.5	12/9/2010	12/9/2010
1,3-Dichlorobenzene	ND	ug/L	0.5	12/9/2010	12/9/2010
1,3-Dichloropropane	ND	ug/L	0.5	12/9/2010	12/9/2010
1,4-Dichlorobenzene	ND	ug/L	0.5	12/9/2010	12/9/2010
2,2-Dichloropropane	ND	ug/L	0.5	12/9/2010	12/9/2010
2-Chlorotoluene	ND	ug/L	0.5	12/9/2010	12/9/2010

Comments:

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Client:	GEO ENGINEERS		Batch #:	101209043			
Address:	523 E 2ND		Project Name:	IONE, WA 0504-058-00			
	SPOKANE, WA 99202						
Attn:	DAVE LAUDER						
Analytical Results Report							

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
2-hexanone	ND	ug/L	2.5	12/9/2010	12/9/2010
4-Chiorotoluene	ND	ug/L	0.5	12/9/2010	12/9/2010
Acetone	ND	ug/L	2.5	12/9/2010	12/9/2010
Acrylonitrile	ND	ug/L	0.5	12/9/2010	12/9/2010
Benzene	ND	ug/L	0.5	12/9/2010	12/9/2010
Bromobenzene	ND	ug/L	0.5	12/9/2010	12/9/2010
Bromochloromethane	ND	ug/L	0.5	12/9/2010	12/9/2010
Bromodichloromethane	ND	ug/L	0.5	12/9/2010	12/9/2010
Bromoform	ND	ug/L	0.5	12/9/2010	12/9/2010
Bromomethane	ND	ug/L	0.5	12/9/2010	12/9/2010
Carbon disulfide	ND	ug/L	0.5	12/9/2010	12/9/2010
Carbon Tetrachloride	ND	ug/L	0.5	12/9/2010	12/9/2010
Chlorobenzene	ND	ug/L	0.5	12/9/2010	12/9/2010
Chloroethane	ND	ug/L	0.5	12/9/2010	12/9/2010
Chloroform	ND	ug/L	0.5	12/9/2010	12/9/2010
Chloromethane	ND	ug/L	0.5	12/9/2010	12/9/2010
cis-1,2-dichloroethene	ND	ug/L	0.5	12/9/2010	12/9/2010
cis-1,3-Dichloropropene	ND	ug/L	0.5	12/9/2010	12/9/2010
Dibromochloromethane	ND	ug/L	0.5	12/9/2010	12/9/2010
Dibromomethane	ND	ug/L	0.5	12/9/2010	12/9/2010
Dichlorodifluoromethane	ND	ug/L	0.5	12/9/2010	12/9/2010
Ethylbenzene	ND	ug/L	0.5	12/9/2010	12/9/2010
Hexachlorobutadiene	ND	ug/L	0.5	12/9/2010	12/9/2010
Isopropylbenzene	ND	ug/L	0.5	12/9/2010	12/9/2010
m+p-Xylene	ND	ug/L	0.5	12/9/2010	12/9/2010
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	12/9/2010	12/9/2010
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	12/9/2010	12/9/2010
Methylene chloride	ND	ug/L	2.5	12/9/2010	12/9/2010
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	12/9/2010	12/9/2010
Naphthalene	ND	ug/L	0.5	12/9/2010	12/9/2010
n-Butylbenzene	ND	ug/L	0.5	12/9/2010	12/9/2010
n-Propylbenzene	ND	ug/L	0.5	12/9/2010	12/9/2010
o-Xylene	ND	ug/L	0.5	12/9/2010	12/9/2010
p-isopropyltoluene	ND	ug/L	0.5	12/9/2010	12/9/2010
sec-Butylbenzene	ND	ug/L	0.5	12/9/2010	12/9/2010
Styrene	ND	ug/L	0.5	12/9/2010	12/9/2010
tert-Butylbenzene	ND	ug/L	0.5	12/9/2010	12/9/2010

Comments:

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Client:	GEO ENGINEERS		Batch #:	101209043
Address:	523 E 2ND		Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202			
Attn:	DAVE LAUDER			
		Analytical Results Rep	ort	

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Tetrachloroethene	ND	ug/L	0.5	12/9/2010	12/9/2010
Toluene	ND	ug/L	0.5	12/9/2010	12/9/2010
trans-1,2-Dichloroethene	ND	ug/L	0.5	12/9/2010	12/9/2010
trans-1,3-Dichloropropene	ND	ug/L	0.5	12/9/2010	12/9/2010
Trichloroethene	ND	ug/L	0.5	12/9/2010	12/9/2010
Trichloroflouromethane	ND	ug/L	0.5	12/9/2010	12/9/2010
Vinyl Chloride	ND	ug/L	0.5	12/9/2010	12/9/2010

AR Acceptable Range

ND Not Detected

PQL Practical Quantitation Limit

RPD Relative Percentage Difference

Comments:

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Client:	GEO ENGINEERS	Batch #:	101209043
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		
	Analytical Results	s Report	
	Quality Control	Data	
Lab Control S	Sample		

Parameter Gasoline		LCS Resu 0.889	It Units mg/L	LCS Spi 1.1	ke %F 80	lec A	R %Rec 70-130	Pr 12/	ep Date 10/2010	Analysis Date 12/10/2010
Matrix Spike Sample Number 101208039-004	Parameter Gasoline	- 2003, 2 ⁰⁰ 000	Sample Result 462	MS Result 1.61	Units mg/L	MS Spike 1.1	%Rec 104.4	AR % Rec 70-130	Prep Date 12/10/2010	Analysis Date 12/10/2010
Matrix Spike Du Parameter Gasoline	uplicate	MSD Result 1.66	Units mg/L	MSD Spike 1.1	%Rec 108.9	% RP 3.1	AI D %RI 0-2	R PD F 20 1	Prep Date 2/10/2010	Analysis Date 12/10/2010
Method Blank Parameter Gasoline			Res ND	ult	Uni mg/	its L	PQL 0.1	1	Prep Date 2/10/2010	Analysis Date 12/10/2010

AR Acceptable Range

ND Not Detected

PQL Practical Quantitation Limit

RPD Relative Percentage Difference

Comments:

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Client:	GEO ENGINEERS	Batch #:	101209043
Address:	523 E 2ND	Project Name:	IONE, WA 0504-058-00
	SPOKANE, WA 99202		
Attn:	DAVE LAUDER		
	Analytical Result	s Report	

Quality Control Data

Lab Control Sample									
Parameter	LCS Res	ult Unit	s LCS Sp	ike %F	Rec A	R %Rec	: Pro	ep Date	Analysis Date
Lead	0.0511	mg/l	_ 0.05	10	2.2	85-115	12/	15/2010	12/16/2010
Matrix Spike									
Sample Number Parameter		Sample	MS Result	Unite	MS Spike	%Rec	AR %Boo	Pron Data	Analysis Data
101208027-001A Lead		ND	0.0488	mg/L	0.05	97.6	70-130	12/15/2010	12/16/2010
Matrix Spike Duplicate									
Parameter	MSD Result	Units	MSD Snike	%Rec	%RP	A D %P	R PD P	ren Date	Analysis Data
Lead	0.0489	mg/L	0.05	97.8	0.2	0-2	20 1:	2/15/2010	12/16/2010
Method Blank									
Parameter Lead		Res ND	sult)	Un i mg/	its L	PQL 0.001	. 1	Prep Date 2/15/2010	Analysis Date 12/16/2010

AR Acceptable Range

ND Not Detected

PQL Practical Quantitation Limit

RPD Relative Percentage Difference

Comments:

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	Login	Report		
Customer Name: GEO ENGIN 523 E 2ND SPOKANE Contact Name: DAVE LAUD	IEERS WA	99202 P	Order l Order Da roject Name: ION	ID: 101209043 te: 12/9/2010 E, WA 0504-058-00
Comment:				
Sample #: 101209043-001 Custo	omer Sample #: CABIN W	/ELL - 120810		
Recv'd: 🔽 Collector:	KEVIN RANDALL, LYNN	Date Collected:	12/8/2010	
Quantity: 1 Matrix:	Water	Date Received:	12/9/2010 11:25:00 /	4
Comment:				
Test	Me	thod	Due Date	Priority
LEAD	EP	A 200.8	12/21/2010	<u>Normal (6-10 Days)</u>
TPHG-NW-SPO	NV	VTPHG	12/16/2010	<u>Normal (6-10 Days)</u>
VOLATILES 8260	EP	A 8260C	12/21/2010	<u>Normal (6-10 Days)</u>
VOLATILES 8260 RBCA	EP	A 8260B	12/21/2010	<u>Normal (6-10 Days)</u>
Sample #: 101209043-002 Custo	omer Sample #: TRIP BL/	ANK		
Recv'd: 🗸 Collector:	KEVIN RANDALL, LYNN	Date Collected:	12/8/2010	
Quantity: 1 Matrix:	Water	Date Received:	12/9/2010 11:25:00 /	A
Comment:				
Test	Me	thod	Due Date	Priority
VOLATILES 8260	EP	A 8260C	12/21/2010	Normal (6-10 Days)
VOLATILES 8260 RBCA	EP	A 8260B	12/21/2010	Normal (6-10 Days)

Customer Name: GEO ENGINEERS

523 E 2ND

SPOKANE

Order ID: 101209043

Order Date:

Project Name: IONE, WA 0504-058-00

12/9/2010

Contact Name: DAVE LAUDER

Comment:

SAMPLE CONDITION RECORD

WA

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature inside the cooler?	5.2
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Are VOC samples free of headspace?	Yes
Is there a trip blank to accompany VOC samples?	Yes
Labels and chain agree?	Yes

99202

and the set of the	Verence and a second	DLDZ/LZ/ZI EGED 240 602101
Anatek O	tain of Custody Record	11 st SAMP 12/8/2010 1st RCVD 12/9/2010
Inc. O 1282 Alturas Drive, Inc. O 504 E Sprague Ste D, S	Moscow ID 83843 (208) 883-2839 FAX 882-9246 Spokane WA 99202 (509) 838-3999 FAX 838-4433	ONE, WA 0504-058-00
OREDARY (TARA - SACARAMANA - SACARAMANANANANANANANANANANANANANANANANANAN	Project Managet. Dave Laurk	Please rater to our normal turn around times at
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Provide Sample Description	List Analyses wequested	
 - consequences of a sequence of		
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