

**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



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## Ione Petroleum Contamination Site Ione, Washington

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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 Site, lone, Washington," (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 lone 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  $2 \times 10^{-2}$  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  $2 \times 10^{-3}$  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 µg/L) greater than the MTCA Method A cleanup levels (5 µg/L and 1,000 µg/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 common to gasoline-contaminated sites and likely is representative of actual site conditions. GRPH also was detected in MW-8 at a concentration (12,000 µg/L) greater than the MTCA Method A cleanup level (800 µg/L). Ethylbenzene, total xylenes, and naphthalene also were detected in the sample from MW-8 at concentrations of 321 µg/L, 943 µg/L and 72.3 µg/L, respectively, which are less than the MTCA Method A cleanup levels (700 µg/L, 1,000 µg/L 160 µg/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 µg/L, 80,600 µg/L, 16,600 µg/L 26,100 µg/L, respectively) greater than the MTCA Method A cleanup level. Benzene was detected in these four samples at concentrations (9.36 µg/L, 525 µg/L, 3,900 µg/L and 227 µg/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 µg/L, 2,690 µg/L and 3,020 µg/L, respectively) greater than the MTCA Method A cleanup level. The sample from MW-5 also contained ethylbenzene (2,120 µg/L) and toluene (8,420 µg/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 µg/L) at a concentration greater than the MTCA Method A cleanup level. The sample from the Cabin Grill well contained toluene (3,640 µg/L) and naphthalene (200 µg/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 µg/L), benzene (4,530 µg/L), total xylenes (3,220 µg/L) and 1,2-dichloroethane (EDC) (116 µg/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 µg/L) greater than the MTCA Method A cleanup level. Benzene, toluene and total xylenes were detected at concentrations (1,940 µg/L, 2,870 µg/L and 2,333 µg/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 µg/L) less than the MTCA Method A cleanup level (20 µg/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 east-southeast, under varying hydraulic gradients, ranging between about  $2 \times 10^{-3}$  ft/ft within eastern portions of the site to about  $2 \times 10^{-2}$  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**

<b>Well Number</b>	<b>Date Measured</b>	<b>Top of Casing Elevation<sup>1</sup> (feet)</b>	<b>Depth to Water<sup>2</sup> (feet)</b>	<b>Groundwater Elevation (feet)</b>
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 <sup>3</sup>	2,071.23 <sup>4</sup>
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:**

<sup>1</sup>Top of casing elevation survey performed by Thomas, Dean & Hoskins, Inc. (TD&H). Elevations are referenced to NAVD 88.

<sup>2</sup>Depth to water measurements referenced to the top of PVC casing.

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

<sup>4</sup>Groundwater elevation at MW-5, for the November 2010 monitoring event, was calculated using the following equation:  $GW = SG \times T + IE$ ; 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 Samples<sup>1</sup>**  
**Ione Petroleum Contamination**  
**Ione, Washington**

Analyte	Unit	MTCA Method A Cleanup Level	Well No. Sample Number Date	MW-1		MW-2		MW-3		MW-4		MW-5		MW-6	
				MW-1-080510 08/05/10	MW-1-111010 11/10/10	MW-2-080610 08/06/10	MW-2-111010 11/10/10	MW-3-080610 08/06/10	MW-3-111010 11/11/10	MW-4-080610 08/06/10	MW-4-111010 11/11/10	MW-5-080610 08/06/10	MW-5-111010 11/11/10	MW-6-080610 08/06/10	MW-6-111010 11/11/10
DRPH <sup>2</sup>	µg/L	500		<100		<100		<100		<100		<100		<100	
ORPH <sup>2</sup>	µg/L	500		<500		<100		<500		<500		<500		<500	
GRPH <sup>3</sup>	µg/L	800		<100	<100	<100	<100	24,500	20,200	4,940	1,190	188,000	80,600	76,400	16,600
<b>Volatile Organic Compounds<sup>4</sup></b>															
Benzene	µg/L	5		<0.5	<0.5	<0.5	<0.5	2,680	1,940	21.3	9.36	2,210	525	9,880	3,900
Ethylbenzene	µg/L	700		<0.5	<0.5	<0.5	<0.5	831	314 (u)	80.6	7.04 (u)	3,210	2120 (u)	1,640	873 (u)
Toluene	µg/L	1,000		1.81	<0.5	<0.5	<0.5	3,330	2870 (u)	462	78.3 (u)	37,900	8420 (u)	14,400	466 (u)
m,p-Xylene	µg/L	1,000 <sup>p</sup>		1.93	<0.5	<0.5	<0.5	1,940	1680 (u)	425	94.5 (u)	13,900	9330 (u)	5,180	1410 (u)
o-Xylene	µg/L	1,000 <sup>p</sup>		0.89	<0.5	<0.5	<0.5	615	653	189	55.6	5,510	3,360	2,720	1,280
1,1,1,2-Tetrachloroethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	188	<5	<500	<250	<250	<125
1,1,1-Trichloroethane	µg/L	200		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,1,2,2-Tetrachloroethane	µg/L	NE		<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
1,1-Dichloroethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,1-Dichloroethene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,1-Dichloropropene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,2,3-Trichlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,2,3-Trichloropropane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,2,4-Trichlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,2,4-Trimethylbenzene	µg/L	NE		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	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,2-Dibromoethane (EDB)	µg/L	0.01		<0.01	<0.01	0.01	<0.01	<50	<5	<5	<5	<500	<250	<250	<125
1,2-Dichlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,2-Dichloroethane (EDC)	µg/L	5		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,2-Dichloropropane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,3,5-Trimethylbenzene	µg/L	NE		0.58	<0.5	<0.5	<0.5	<50	136	68.3	19.3	968	376	<250	193
1,3-Dichlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,3-Dichloropropane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
1,4-Dichlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
2,2-Dichloropropane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
2-Chlorotoluene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
2-Hexanone	µg/L	NE		<2.5	<2.5	<2.5	<2.5	<250	<25	<25	<25	<2,500	<1,250	<250	<625
4-Chlorotoluene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Acetone	µg/L	NE		<2.5	<2.5	<2.5	<2.5	<250	<25	36.0	<25	<2,500	<1,250	<1,250	<625
Acrylonitrile	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Bromobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Bromochloromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Bromodichloromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Bromoform	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Bromomethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Carbon disulfide	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Carbon Tetrachloride	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Chlorobenzene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Chloroethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Chloroform	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Chloromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
cis-1,2-Dichloroethene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
cis-1,3-Dichloropropene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Dibromochloromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Dibromomethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Dichlorodifluoromethane	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Hexachlorobutadiene	µg/L	NE		<0.5	<0.5	<0.5	<0.5	<50	<5	<5	<5	<500	<250	<250	<125

Analyte	Unit	MTCA Method A Cleanup Level	Well No. Sample Number Date	MW-7		MW-8		MW-9	MW-10	MW-11	MW-12	Cabin Well-080610 08/06/10	Cabin Well 101209043-001 12/08/10	Duplicate-1 (MW-4) 80610 08/06/10	Duplicate-1 (MW-6) 10112036-013 11/11/10
				MW-7-080610 08/06/10	MW-7-111010 11/11/10	MW-8-080610 08/06/10	MW-8-111010 11/11/10	MW-9-111010 11/11/10	MW-10-111010 11/11/10	MW-11-111010 11/11/10	MW-12-111010 11/11/10				
DRPH <sup>2</sup>	µg/L	500		<100		<100						<100		<100	
ORPH <sup>2</sup>	µg/L	500		<500		<500						<500		<500	
GRPH <sup>3</sup>	µg/L	800		<100	<100	14,800	12,000	<100	<100	<100	<100	40,000	26,100	4,920	10,800
<b>Volatile Organic Compounds<sup>4</sup></b>															
Benzene	µg/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	µg/L	700		<0.5	<0.5	334	321	<0.5	<0.5	<0.5	<0.5	877	592	81.5	258
Toluene	µg/L	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	µg/L	1,000 <sup>p</sup>		<0.5	<0.5	902	756	<0.5	<0.5	<0.5	<0.5	2,600	1,930	419	1,570
o-Xylene	µg/L	1,000 <sup>p</sup>		<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	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1,1,1-Trichloroethane	µg/L	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	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1,1,2-Trichloroethane	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1,1-Dichloroethane	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1,1-Dichloroethene	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1,1-Dichloropropene	µg/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	µg/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	µg/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/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1,2,4-Trimethylbenzene	µg/L	NE		<0.5	<0.5	186	112	<0.5	<0.5	<0.5	<0.5	369	289	148	<50
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1,2-Dibromoethane (EDB)	µg/L	0.01		<0.01	<0.01	<25	<50	<0.01	<0.01	<0.01	<0.01	<50	<0.5	<5	<50
1,2-Dichlorobenzene	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1,2-Dichloroethane (EDC)	µg/L	5		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	116
1,2-Dichloropropane	µg/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	µg/L	NE		<0.5	<0.5	70.7	94.2	<0.5	<0.5	<0.5	<0.5	199	192	65.0	72.9
1,3-Dichlorobenzene	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
1,3-Dichloropropane	µg/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/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
2,2-Dichloropropane	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
2-Chlorotoluene	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
2-Hexanone	µg/L	NE		<2.5	<2.5	<125	<250	<2.5	<2.5	<2.5	<2.5	<250	<2.5	<2.5	<250
4-Chlorotoluene	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Acetone	µg/L	NE		2.93	<2.5	<125	<250	<2.5	<2.5	<2.5	<2.5	<250	9.7	34.8	<250
Acrylonitrile	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Bromobenzene	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Bromochloromethane	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Bromodichloromethane	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Bromoform	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Bromomethane	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Carbon disulfide	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Carbon Tetrachloride	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Chlorobenzene	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Chloroethane	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Chloroform	µg/L	NE		<0.5	<0.5	<25	<50	0.54	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Chloromethane	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
cis-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
cis-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
Dibromochloromethane	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Dibromomethane	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Dichlorodifluoromethane	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50
Hexachlorobutadiene	µg/L	NE		<0.5	<0.5	<25	<50	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<5	<50

Analyte	Unit	MTCA Method A Cleanup Level	Well No. Sample Number Date	MW-1		MW-2		MW-3		MW-4		MW-5		MW-6	
				MW-1-080510 08/05/10	MW-1-111010 11/10/10	MW-2-080610 08/06/10	MW-2-111010 11/10/10	MW-3-080610 08/06/10	MW-3-111010 11/11/10	MW-4-080610 08/06/10	MW-4-111010 11/11/10	MW-5-080610 08/06/10	MW-5-111010 11/11/10	MW-6-080610 08/06/10	MW-6-111010 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 butyl 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	<b>200</b>
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-Isopropyltoluene	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		<0.2	<0.5	<0.2	<0.5	<50	<5	<5	<5	<500	<250	<250	<125
Dissolved Lead <sup>a</sup>	µg/L	15		<1		<1		<1		<1		<1		<1	
Lead <sup>b</sup>	µg/L	15		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Analyte	Unit	MTCA Method A Cleanup Level	Well No. Sample Number Date	MW-7		MW-8		MW-9	MW-10	MW-11	MW-12	Cabin Well-080610 08/06/10	Cabin Well 101209043-001 12/08/10	Duplicate-1 (MW-4) 80610 08/06/10	Duplicate-1 (MW-6) 10112036-013 11/11/10
				MW-7-080610 08/06/10	MW-7-111010 11/11/10	MW-8-080610 08/06/10	MW-8-111010 11/11/10	MW-9-111010 11/11/10	MW-10-111010 11/11/10	MW-11-111010 11/11/10	MW-12-111010 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 butyl 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 <sup>5</sup>	µg/L	15		<1		<1						<1	<0.5	<1	
Lead <sup>6</sup>	µg/L	15		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

**Notes:**

<sup>1</sup>Chemical analyses conducted by Anatek Labs, Inc. located in Spokane, Washington.

<sup>2</sup>Diesel and Lube Oil analyzed using Northwest Method NWTPH-Dx.

<sup>3</sup>Gasoline analyzed using Northwest Method NWTPH-Gx.

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

<sup>5</sup>Cleanup level for total xylenes is 1,000 µg/L.

<sup>6</sup>Lead 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.

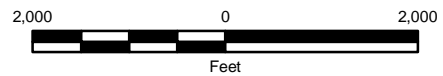
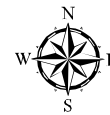
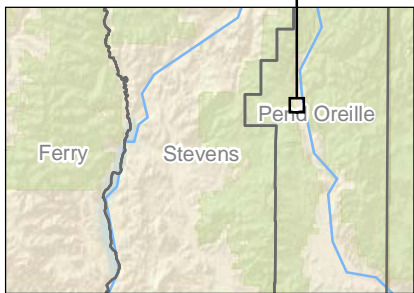
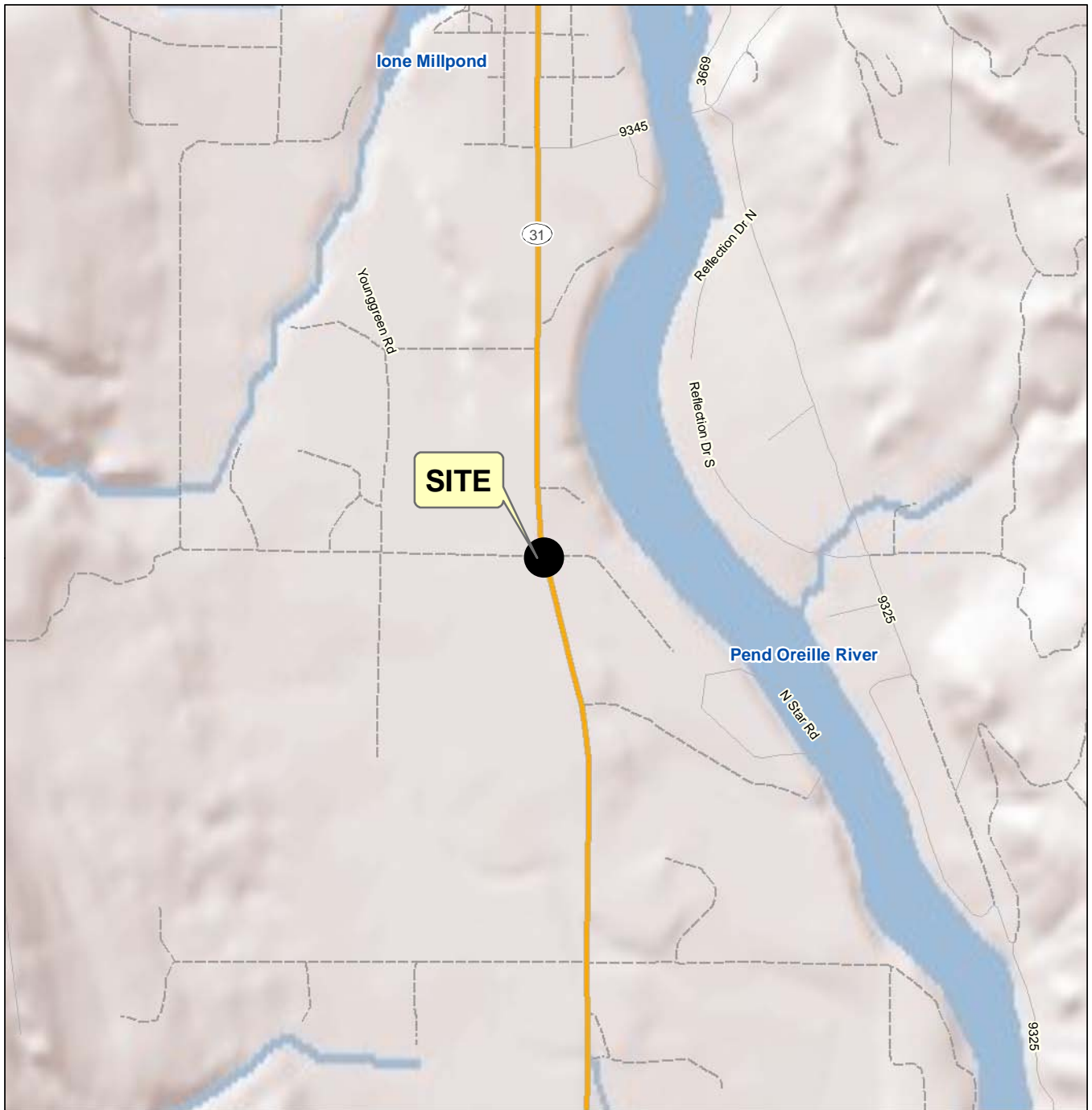




Map Revised: 09/09/2010 CRC


Path: \\V:\Spokane\Projects\0504058\GIS\050405800\_VM\_F1.mxd

Office: SPO



**Notes:**

- 1. The locations of all features shown are approximate.
- 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication. Data Sources: ESRI Data & Maps, Street Maps 2008. Projection: NAD 1983, UTM Zone 11 North.

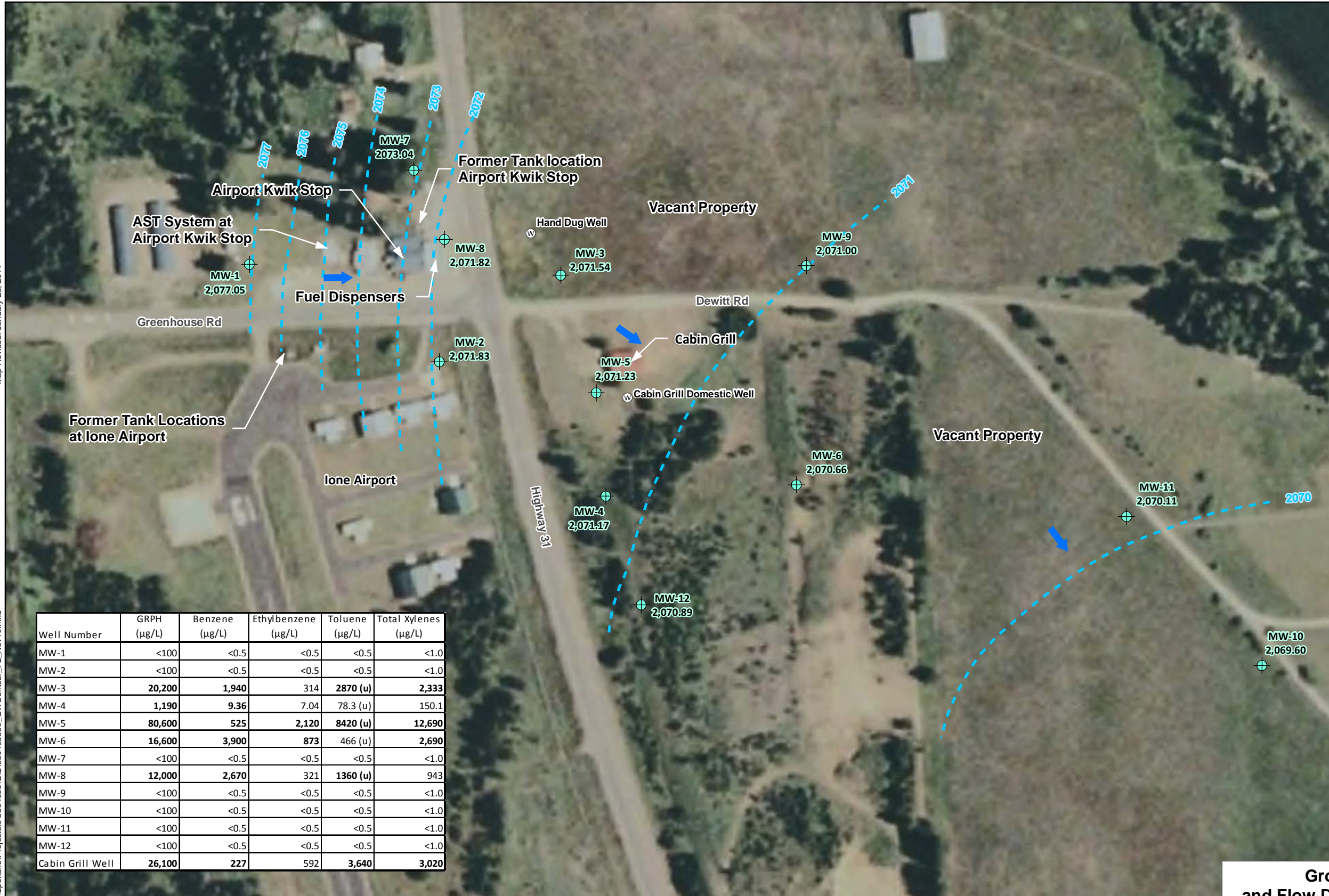
<b>Vicinity Map</b>	
Ione Petroleum Contamination Ione, Washington	
	<b>Figure 1</b>



Map Revised: January 25, 2011

Path: W:\Spokane\Projects\0504058\GIS\050405800\_GWContour\_F2\_Nov10.mxd

Office Location: SPO



**Legend**

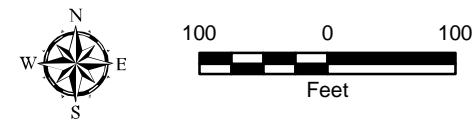
- MW-1 Approximate Location of Monitoring Well and Groundwater Elevation on November 10, 2010
- Existing Water Well
- Approximate Groundwater Elevation Contour (1-Foot Interval)
- Interpreted Groundwater Flow Direction

Well Number	GRPH (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Total Xylenes (µg/L)
MW-1	<100	<0.5	<0.5	<0.5	<1.0
MW-2	<100	<0.5	<0.5	<0.5	<1.0
MW-3	20,200	1,940	314	2870 (u)	2,333
MW-4	1,190	9.36	7.04	78.3 (u)	150.1
MW-5	80,600	525	2,120	8420 (u)	12,690
MW-6	16,600	3,900	873	466 (u)	2,690
MW-7	<100	<0.5	<0.5	<0.5	<1.0
MW-8	12,000	2,670	321	1360 (u)	943
MW-9	<100	<0.5	<0.5	<0.5	<1.0
MW-10	<100	<0.5	<0.5	<0.5	<1.0
MW-11	<100	<0.5	<0.5	<0.5	<1.0
MW-12	<100	<0.5	<0.5	<0.5	<1.0
Cabin Grill Well	26,100	227	592	3,640	3,020

Reference: Bing Maps aerial from ESRI, Online Data Resource Center.  
ESRI Data & Maps, Street Maps 2008

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
3. Elevations are referenced in NAVD 88.
4. The equivalent (true) groundwater elevation at MW-5 as showing calculated to account for the presence of the free product using the following equation:  $GW \cdot SG \cdot T + IE$ ; where GW = equivalent groundwater elevation SG = specific gravity 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

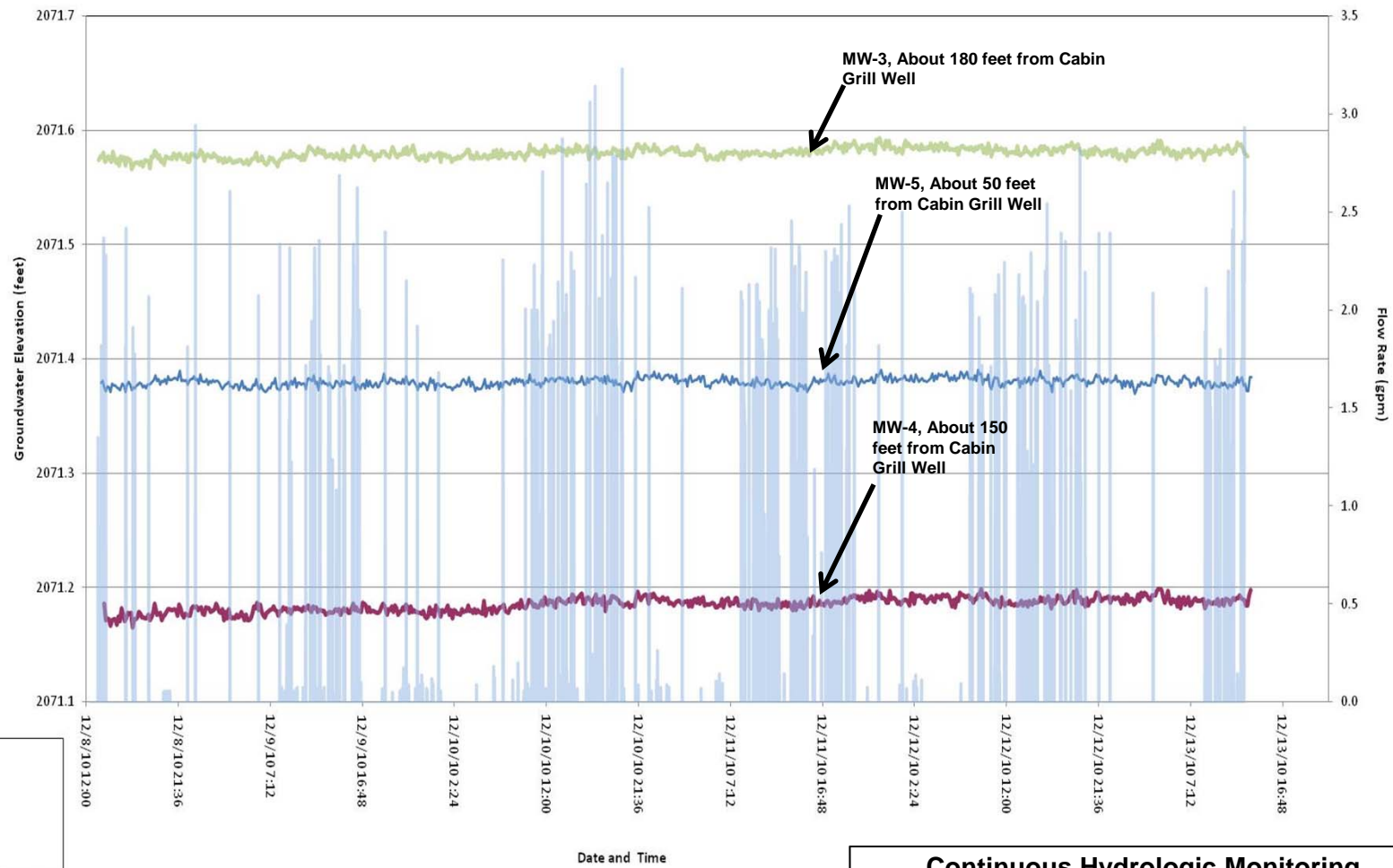


**Groundwater Elevations  
and Flow Direction - November 10, 2010**

Lone Petroleum Contamination  
Lone, Washington


**GEOENGINEERS**

**Figure 2**



**Notes:**

1. Groundwater elevations are referenced to the North American Vertical Datum of 1988 (NAVD88).
2. Cabin Grill well discharges measured with a GE Panametrics AT868 flow meter collecting measurements at one-minute intervals.

<b>Continuous Hydrologic Monitoring</b>	
Ione Petroleum Contamination Ione, Washington	
<b>GEOENGINEERS</b> 	<b>Figure 3</b>







## 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:  $\pm 10$  percent for values greater than 5 NTU;
- Oxidation reduction potential:  $\pm 10$  percent;
- Conductivity:  $\pm 3$  percent;
- pH:  $\pm 0.1$  unit; and
- Temperature:  $\pm 3$  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 cross-contamination between sample locations. Sampling equipment was decontaminated in accordance with the work plan.

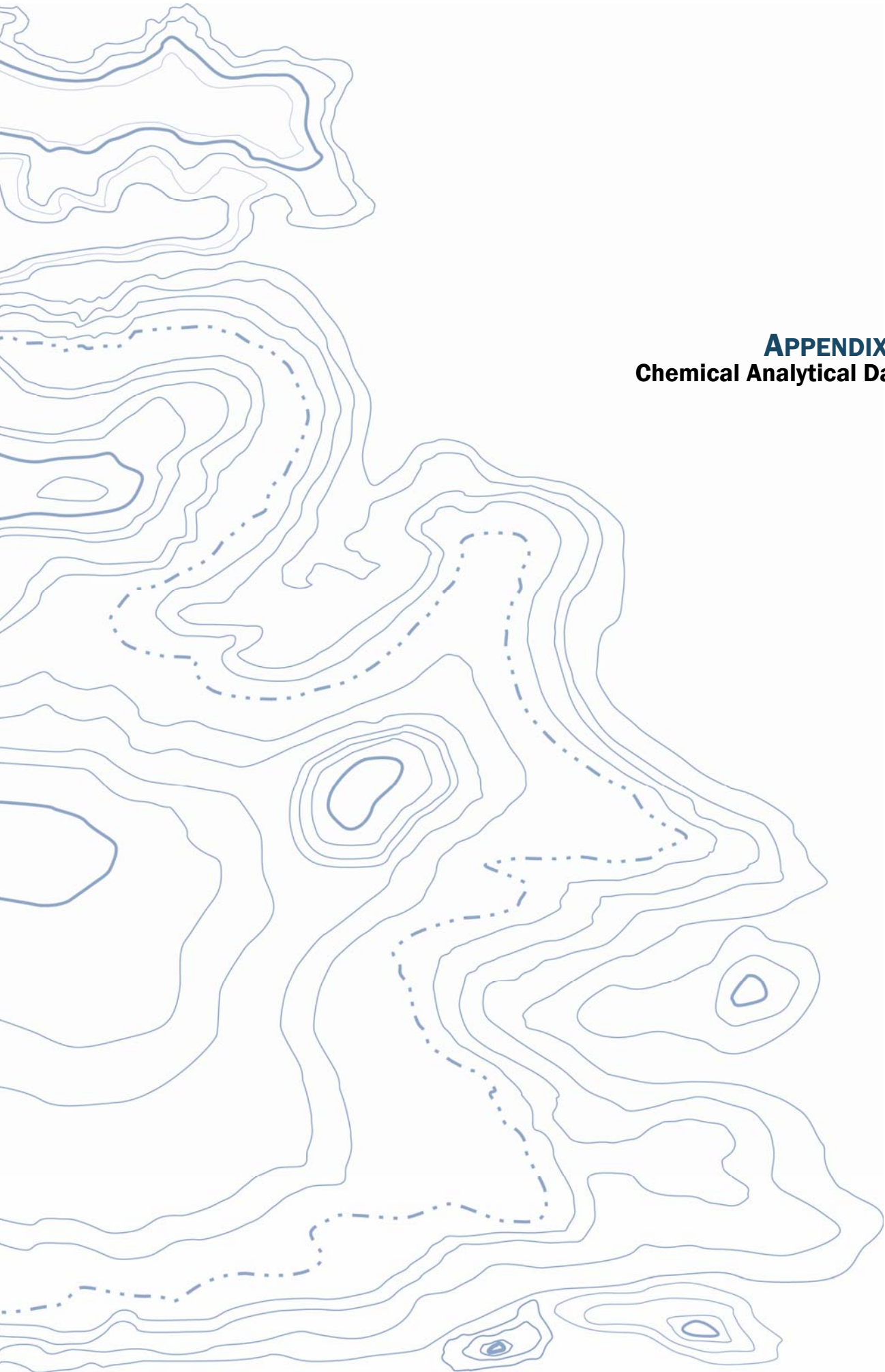


**Table A-1**  
**Summary of Field Quality Parameters**  
**Ione Petroleum Contamination**  
**Ione, Washington**

Sample Number	Date Sampled	pH	Specific Conductivity (mS/m)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	ORP (mV)	Well Headspace PID Readings (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**

## 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, <b>MW-6-111110</b> , MW-7-111110, <b>MW-8-111110</b> , MW-9-111110, MW-10-111110, MW-11-111110, MW-12-111110, <b>DUPLICATE 1</b> , 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:** GEO ENGINEERS  
**Address:** 523 E 2ND  
SPOKANE, WA 99202  
**Attn:** DAVE LAUDER

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

## Analytical Results Report

<b>Sample Number</b>	101112036-001	<b>Sampling Date</b>	11/10/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-1-111010	<b>Sampling Time</b>	4:10 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	ND	mg/L	0.1	11/14/2010	WOZ	NWTPHG	

## Surrogate Data

<b>Sample Number</b>	101112036-001	<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
<b>Surrogate Standard</b>	4-Bromofluorobenzene	NWTPHG		106.2		70-130	

<b>Sample Number</b>	101112036-002	<b>Sampling Date</b>	11/10/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-2-111010	<b>Sampling Time</b>	3:07 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	ND	mg/L	0.1	11/14/2010	WOZ	NWTPHG	

## Surrogate Data

<b>Sample Number</b>	101112036-002	<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
<b>Surrogate Standard</b>	4-Bromofluorobenzene	NWTPHG		104.1		70-130	



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

## Analytical Results Report

<b>Sample Number</b>	101112036-003	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-3-111110	<b>Sampling Time</b>	2:20 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	20.2	mg/L	1	11/14/2010	WOZ	NWTPHG	

### Surrogate Data

<b>Sample Number</b>	101112036-003	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
<b>Surrogate Standard</b>				
4-Bromofluorobenzene		NWTPHG	105.9	70-130

<b>Sample Number</b>	101112036-004	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-4-111110	<b>Sampling Time</b>	1:23 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	1.19	mg/L	0.1	11/14/2010	WOZ	NWTPHG	

### Surrogate Data

<b>Sample Number</b>	101112036-004	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
<b>Surrogate Standard</b>				
4-Bromofluorobenzene		NWTPHG	103.9	70-130

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

## Analytical Results Report

<b>Sample Number</b>	101112036-005	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-5-111110	<b>Sampling Time</b>	5:27 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	80.6	mg/L	5	11/14/2010	WOZ	NWTPHG	

## Surrogate Data

<b>Sample Number</b>	101112036-005	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
<b>Surrogate Standard</b>				
4-Bromofluorobenzene		NWTPHG	105.0	70-130

<b>Sample Number</b>	101112036-006	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-6-111110	<b>Sampling Time</b>	3:14 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	16.6	mg/L	1	11/18/2010	WOZ	NWTPHG	

## Surrogate Data

<b>Sample Number</b>	101112036-006	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
<b>Surrogate Standard</b>				
4-Bromofluorobenzene		NWTPHG	104.8	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

<b>Sample Number</b>	101112036-007	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM		
<b>Client Sample ID</b>	MW-7-111110	<b>Sampling Time</b>	8:41 AM	<b>Extraction Date</b>			
<b>Matrix</b>	Water	<b>Sample Location</b>					
<b>Comments</b>							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	ND	mg/L	0.1	11/14/2010	WOZ	NWTPHG	

## Surrogate Data

<b>Sample Number</b>	101112036-007	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
<b>Surrogate Standard</b>				
4-Bromofluorobenzene		NWTPHG	106.5	70-130

<b>Sample Number</b>	101112036-008	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM		
<b>Client Sample ID</b>	MW-8-111110	<b>Sampling Time</b>	4:08 PM	<b>Extraction Date</b>			
<b>Matrix</b>	Water	<b>Sample Location</b>					
<b>Comments</b>							

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	12.0	mg/L	1	11/18/2010	WOZ	NWTPHG	

## Surrogate Data

<b>Sample Number</b>	101112036-008	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
<b>Surrogate Standard</b>				
4-Bromofluorobenzene		NWTPHG	106.3	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

<b>Sample Number</b>	101112036-009	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-9-111110	<b>Sampling Time</b>	11:45 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	ND	mg/L	0.1	11/14/2010	WOZ	NWTPHG	

## Surrogate Data

<b>Sample Number</b>	101112036-009	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
<b>Surrogate Standard</b>				
4-Bromofluorobenzene		NWTPHG	105.9	70-130

<b>Sample Number</b>	101112036-010	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-10-111110	<b>Sampling Time</b>	9:50 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	ND	mg/L	0.1	11/14/2010	WOZ	NWTPHG	

## Surrogate Data

<b>Sample Number</b>	101112036-010	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
<b>Surrogate Standard</b>				
4-Bromofluorobenzene		NWTPHG	104.1	70-130

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**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report

<b>Sample Number</b>	101112036-011	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-11-111110	<b>Sampling Time</b>	10:46 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	ND	mg/L	0.1	11/14/2010	WOZ	NWTPHG	

## Surrogate Data

<b>Sample Number</b>	101112036-011	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
<b>Surrogate Standard</b>				
4-Bromofluorobenzene		NWTPHG	105.0	70-130

<b>Sample Number</b>	101112036-012	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-12-111110	<b>Sampling Time</b>	12:39 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	ND	mg/L	0.1	11/14/2010	WOZ	NWTPHG	

## Surrogate Data

<b>Sample Number</b>	101112036-012	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
<b>Surrogate Standard</b>				
4-Bromofluorobenzene		NWTPHG	109.9	70-130

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

## Analytical Results Report


<b>Sample Number</b>	101112036-013	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	DUPLICATE 1	<b>Sampling Time</b>	12:35 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	10.8	mg/L	5	11/18/2010	WOZ	NWTPHG	

## Surrogate Data

<b>Sample Number</b>	101112036-013			
<b>Surrogate Standard</b>	4-Bromofluorobenzene	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
		NWTPHG	104.9	70-130

Authorized Signature

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

## Analytical Results Report

<b>Sample Number</b>	101112036-001	<b>Sampling Date</b>	11/10/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-1-111010	<b>Sampling Time</b>	4:10 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	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-Dibromoethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	

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

## Analytical Results Report

<b>Sample Number</b>	101112036-001	<b>Sampling Date</b>	11/10/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-1-111010	<b>Sampling Time</b>	4:10 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
2-hexanone	ND	ug/L	2.5	11/14/2010	WOZ	EPA 8260C	
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	

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Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095



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## Analytical Results Report

**Sample Number** 101112036-001      **Sampling Date** 11/10/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-1-111010      **Sampling Time** 4:10 PM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Isopropylbenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	11/14/2010	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	11/14/2010	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	11/14/2010	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
n-Propylbenzene	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-isopropyltoluene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Tetrachloroethene	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-Dichloroethene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	

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

## Analytical Results Report

<b>Sample Number</b>	101112036-001	<b>Sampling Date</b>	11/10/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-1-111010	<b>Sampling Time</b>	4:10 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
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## Surrogate Data

<b>Sample Number</b>	101112036-001						
<b>Surrogate Standard</b>		<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
1,2-Dichlorobenzene-d4		EPA 8260C		106.0		70-130	
4-Bromofluorobenzene		EPA 8260C		103.6		70-130	
Toluene-d8		EPA 8260C		99.2		70-130	

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

## Analytical Results Report

<b>Sample Number</b>	101112036-002	<b>Sampling Date</b>	11/10/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-2-111010	<b>Sampling Time</b>	3:07 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	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-Dibromoethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	2.5	11/14/2010	WOZ	EPA 8260C	

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

## Analytical Results Report

**Sample Number** 101112036-002      **Sampling Date** 11/10/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-2-111010      **Sampling Time** 3:07 PM      **Extraction Date**  
**Matrix** Water      **Sample Location**

### Comments

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

## Analytical Results Report

<b>Sample Number</b>	101112036-002	<b>Sampling Date</b>	11/10/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-2-111010	<b>Sampling Time</b>	3:07 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
m+p-Xylene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	11/14/2010	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	11/14/2010	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	11/14/2010	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
n-Propylbenzene	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-isopropyltoluene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Tetrachloroethene	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-Dichloroethene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	11/14/2010	WOZ	EPA 8260C	

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

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**Client:** GEO ENGINEERS  
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**Batch #:** 101112036  
**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report

<b>Sample Number</b>	101112036-002	<b>Sampling Date</b>	11/10/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-2-111010	<b>Sampling Time</b>	3:07 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
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## Surrogate Data

<b>Sample Number</b>	101112036-002						
<b>Surrogate Standard</b>		<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
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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**Batch #:** 101112036  
**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report

<b>Sample Number</b>	101112036-003	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-3-111110	<b>Sampling Time</b>	2:20 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	259	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-Dibromoethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	136	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
2,2-Dichloropropane	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	

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

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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** 101112036-003      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-3-111110      **Sampling Time** 2:20 PM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

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	1940	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Bromodichloromethane	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 Tetrachloride	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-dichloroethene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Ethylbenzene	314	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Isopropylbenzene	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 #:** 101112036  
**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report

<b>Sample Number</b>	101112036-003	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-3-111110	<b>Sampling Time</b>	2:20 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
m+p-Xylene	1680	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	25	11/18/2010	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	25	11/18/2010	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	25	11/18/2010	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Naphthalene	84.3	ug/L	5	11/18/2010	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
o-Xylene	653	ug/L	50	11/18/2010	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Styrene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Toluene	2870	ug/L	50	11/18/2010	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	

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

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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

<b>Sample Number</b>	101112036-003	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-3-111110	<b>Sampling Time</b>	2:20 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
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### Surrogate Data

<b>Sample Number</b>	101112036-003						
<b>Surrogate Standard</b>		<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
1,2-Dichlorobenzene-d4		EPA 8260C		102.0		70-130	
4-Bromofluorobenzene		EPA 8260C		94.8		70-130	
Toluene-d8		EPA 8260C		94.0		70-130	

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

## Analytical Results Report

<b>Sample Number</b>	101112036-004	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-4-111110	<b>Sampling Time</b>	1:23 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	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-Dibromoethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	19.3	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
2,2-Dichloropropane	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	

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

## Analytical Results Report

**Sample Number** 101112036-004      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-4-111110      **Sampling Time** 1:23 PM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

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	
Bromochloromethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Bromodichloromethane	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 Tetrachloride	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-dichloroethene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Ethylbenzene	7.04	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	

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

# Anatek Labs, Inc.

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

**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** 101112036-004      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-4-111110      **Sampling Time** 1:23 PM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

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 ketone (MEK)	ND	ug/L	25	11/18/2010	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	25	11/18/2010	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	25	11/18/2010	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
o-Xylene	55.6	ug/L	5	11/18/2010	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Styrene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	Q3
tert-Butylbenzene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Tetrachloroethene	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-Dichloroethene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	5	11/18/2010	WOZ	EPA 8260C	Q3

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  
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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

<b>Sample Number</b>	101112036-004	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-4-111110	<b>Sampling Time</b>	1:23 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
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### Surrogate Data

<b>Sample Number</b>	101112036-004						
<b>Surrogate Standard</b>		<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
1,2-Dichlorobenzene-d4		EPA 8260C		101.6		70-130	
4-Bromofluorobenzene		EPA 8260C		94.0		70-130	
Toluene-d8		EPA 8260C		93.6		70-130	

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

## Analytical Results Report

<b>Sample Number</b>	101112036-005	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-5-111110	<b>Sampling Time</b>	5:27 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	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-Dibromoethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	376	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
2-Chlorotoluene	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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Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

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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** 101112036-005      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-5-111110      **Sampling Time** 5:27 PM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorotoluene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Acetone	ND	ug/L	1250	11/18/2010	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Benzene	525	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Bromoform	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Chlorobenzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Chloroethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Chloroform	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Ethylbenzene	2120	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	

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

## Analytical Results Report

<b>Sample Number</b>	101112036-005	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-5-111110	<b>Sampling Time</b>	5:27 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
m+p-Xylene	9330	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	1250	11/18/2010	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	1250	11/18/2010	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	1250	11/18/2010	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
o-Xylene	3360	ug/L	250	11/18/2010	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Styrene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Toluene	8420	ug/L	250	11/18/2010	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	

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

## Analytical Results Report

<b>Sample Number</b>	101112036-005	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-5-111110	<b>Sampling Time</b>	5:27 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
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## Surrogate Data

<b>Sample Number</b>	101112036-005						
<b>Surrogate Standard</b>		<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
1,2-Dichlorobenzene-d4		EPA 8260C		104.8		70-130	
4-Bromofluorobenzene		EPA 8260C		93.6		70-130	
Toluene-d8		EPA 8260C		95.6		70-130	

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

## Analytical Results Report

<b>Sample Number</b>	101112036-006	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-6-111110	<b>Sampling Time</b>	3:14 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	162	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	193	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	625	11/22/2010	WOZ	EPA 8260C	

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

## Analytical Results Report

**Sample Number** 101112036-006      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-6-111110      **Sampling Time** 3:14 PM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorotoluene	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	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Bromoform	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Chlorobenzene	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	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Ethylbenzene	873	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Isopropylbenzene	162	ug/L	125	11/22/2010	WOZ	EPA 8260C	

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

# Anatek Labs, Inc.

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

**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** 101112036-006      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-6-111110      **Sampling Time** 3:14 PM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
m+p-Xylene	1410	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	625	11/22/2010	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	625	11/22/2010	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	625	11/22/2010	WOZ	EPA 8260C	
methyl-t-butyl 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	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
n-Propylbenzene	144	ug/L	125	11/22/2010	WOZ	EPA 8260C	
o-Xylene	1280	ug/L	125	11/22/2010	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Styrene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	H1
tert-Butylbenzene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Toluene	466	ug/L	125	11/22/2010	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	125	11/22/2010	WOZ	EPA 8260C	
Trichlorofluoromethane	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:** GEO ENGINEERS  
**Address:** 523 E 2ND  
SPOKANE, WA 99202  
**Attn:** DAVE LAUDER

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

## Analytical Results Report

<b>Sample Number</b>	101112036-006	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-6-111110	<b>Sampling Time</b>	3:14 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
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## Surrogate Data

<b>Sample Number</b>	101112036-006						
<b>Surrogate Standard</b>		<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
1,2-Dichlorobenzene-d4		EPA 8260C		102.0		70-130	
4-Bromofluorobenzene		EPA 8260C		96.0		70-130	
Toluene-d8		EPA 8260C		94.0		70-130	

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

## Analytical Results Report

**Sample Number** 101112036-007      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-7-111110      **Sampling Time** 8:41 AM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	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-Dibromoethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
2-Chlorotoluene	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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Certifications held by Anatek Labs WA: EPA:WA00169; CA: Cert2632; ID: WA00169; WA: C585; MT: Cert0095

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

## Analytical Results Report

**Sample Number** 101112036-007      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-7-111110      **Sampling Time** 8:41 AM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorotoluene	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	
Bromochloromethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Bromodichloromethane	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	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Carbon Tetrachloride	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-dichloroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	

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## Analytical Results Report

**Sample Number** 101112036-007      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-7-111110      **Sampling Time** 8:41 AM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
m+p-Xylene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Methyl ethyl ketone (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 chloride	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-Butylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
n-Propylbenzene	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-isopropyltoluene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Tetrachloroethene	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-Dichloroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Trichlorofluoromethane	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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**Batch #:** 101112036  
**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report

<b>Sample Number</b>	101112036-007	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-7-111110	<b>Sampling Time</b>	8:41 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
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## Surrogate Data

<b>Sample Number</b>	101112036-007						
<b>Surrogate Standard</b>		<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
1,2-Dichlorobenzene-d4		EPA 8260C		102.8		70-130	
4-Bromofluorobenzene		EPA 8260C		90.4		70-130	
Toluene-d8		EPA 8260C		97.2		70-130	

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## Analytical Results Report

<b>Sample Number</b>	101112036-008	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-8-111110	<b>Sampling Time</b>	4:08 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	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-Dibromoethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	94.2	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	250	11/22/2010	WOZ	EPA 8260C	

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  
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## Analytical Results Report

<b>Sample Number</b>	101112036-008	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-8-111110	<b>Sampling Time</b>	4:08 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorotoluene	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 8260C	
Benzene	2670	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Bromodichloromethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Bromoform	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Bromomethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Carbon disulfide	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Chlorobenzene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Chloroethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Chloroform	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Chloromethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Ethylbenzene	321	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Isopropylbenzene	65.5	ug/L	50	11/22/2010	WOZ	EPA 8260C	

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**Attn:** DAVE LAUDER

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

## Analytical Results Report

<b>Sample Number</b>	101112036-008	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-8-111110	<b>Sampling Time</b>	4:08 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
m+p-Xylene	756	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	250	11/22/2010	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	250	11/22/2010	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	250	11/22/2010	WOZ	EPA 8260C	
methyl-t-butyl 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-Butylbenzene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
n-Propylbenzene	60.8	ug/L	50	11/22/2010	WOZ	EPA 8260C	
o-Xylene	187	ug/L	50	11/22/2010	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Styrene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	H1
tert-Butylbenzene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Toluene	1360	ug/L	50	11/22/2010	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	50	11/22/2010	WOZ	EPA 8260C	H1

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

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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

<b>Sample Number</b>	101112036-008	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-8-111110	<b>Sampling Time</b>	4:08 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
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## Surrogate Data

<b>Sample Number</b>	101112036-008						
<b>Surrogate Standard</b>		<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
1,2-Dichlorobenzene-d4		EPA 8260C		102.0		70-130	
4-Bromofluorobenzene		EPA 8260C		95.2		70-130	
Toluene-d8		EPA 8260C		95.6		70-130	

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

## Analytical Results Report

<b>Sample Number</b>	101112036-009	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-9-111110	<b>Sampling Time</b>	11:45 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	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-Dibromoethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
2-Chlorotoluene	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  
**Address:** 523 E 2ND  
SPOKANE, WA 99202  
**Attn:** DAVE LAUDER

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

## Analytical Results Report

<b>Sample Number</b>	101112036-009	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-9-111110	<b>Sampling Time</b>	11:45 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorotoluene	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	
Bromochloromethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Bromodichloromethane	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	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Carbon Tetrachloride	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-dichloroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	

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## Analytical Results Report

<b>Sample Number</b>	101112036-009	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-9-111110	<b>Sampling Time</b>	11:45 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
m+p-Xylene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Methyl ethyl ketone (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 chloride	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-Butylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
n-Propylbenzene	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-isopropyltoluene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Tetrachloroethene	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-Dichloroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	

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  
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**Attn:** DAVE LAUDER

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

## Analytical Results Report

<b>Sample Number</b>	101112036-009	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-9-111110	<b>Sampling Time</b>	11:45 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
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## Surrogate Data

<b>Sample Number</b>	101112036-009						
<b>Surrogate Standard</b>		<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
1,2-Dichlorobenzene-d4		EPA 8260C		104.0		70-130	
4-Bromofluorobenzene		EPA 8260C		92.4		70-130	
Toluene-d8		EPA 8260C		98.8		70-130	

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

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

## Analytical Results Report

<b>Sample Number</b>	101112036-010	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-10-111110	<b>Sampling Time</b>	9:50 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	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-Dibromoethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	2.5	11/17/2010	WOZ	EPA 8260C	

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

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

## Analytical Results Report

**Sample Number** 101112036-010      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-10-111110      **Sampling Time** 9:50 AM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorotoluene	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	
Bromochloromethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Bromodichloromethane	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	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Carbon Tetrachloride	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-dichloroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	

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

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

**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** 101112036-010      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-10-111110      **Sampling Time** 9:50 AM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
m+p-Xylene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Methyl ethyl ketone (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 chloride	ND	ug/L	2.5	11/17/2010	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	0.60	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Naphthalene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
n-Propylbenzene	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-isopropyltoluene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Tetrachloroethene	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-Dichloroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	

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

## Analytical Results Report

<b>Sample Number</b>	101112036-010	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-10-111110	<b>Sampling Time</b>	9:50 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
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## Surrogate Data

<b>Sample Number</b>	101112036-010						
<b>Surrogate Standard</b>		<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
1,2-Dichlorobenzene-d4		EPA 8260C		103.6		70-130	
4-Bromofluorobenzene		EPA 8260C		88.8		70-130	
Toluene-d8		EPA 8260C		98.0		70-130	

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## Analytical Results Report

<b>Sample Number</b>	101112036-011	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-11-111110	<b>Sampling Time</b>	10:46 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	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-Dibromoethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	2.5	11/17/2010	WOZ	EPA 8260C	

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  
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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** 101112036-011      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-11-111110      **Sampling Time** 10:46 AM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorotoluene	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	
Bromochloromethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Bromodichloromethane	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	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Carbon Tetrachloride	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-dichloroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	

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

## Analytical Results Report

<b>Sample Number</b>	101112036-011	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-11-111110	<b>Sampling Time</b>	10:46 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
m+p-Xylene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Methyl ethyl ketone (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 chloride	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-Butylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
n-Propylbenzene	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-isopropyltoluene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Tetrachloroethene	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-Dichloroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	11/17/2010	WOZ	EPA 8260C	

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  
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## Analytical Results Report

<b>Sample Number</b>	101112036-011	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-11-111110	<b>Sampling Time</b>	10:46 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
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## Surrogate Data

<b>Sample Number</b>	101112036-011						
<b>Surrogate Standard</b>		<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
1,2-Dichlorobenzene-d4		EPA 8260C		105.2		70-130	
4-Bromofluorobenzene		EPA 8260C		91.6		70-130	
Toluene-d8		EPA 8260C		95.6		70-130	

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## Analytical Results Report

<b>Sample Number</b>	101112036-012	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-12-111110	<b>Sampling Time</b>	12:39 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	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-Dibromoethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
2-Chlorotoluene	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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**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report

<b>Sample Number</b>	101112036-012	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-12-111110	<b>Sampling Time</b>	12:39 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorotoluene	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	
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	

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

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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

<b>Sample Number</b>	101112036-012	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-12-111110	<b>Sampling Time</b>	12:39 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
m+p-Xylene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	11/18/2010	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	11/18/2010	WOZ	EPA 8260C	
Methylene chloride	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-Butylbenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
n-Propylbenzene	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-isopropyltoluene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Tetrachloroethene	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-Dichloroethene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	

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

## Analytical Results Report

<b>Sample Number</b>	101112036-012	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-12-111110	<b>Sampling Time</b>	12:39 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
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## Surrogate Data

<b>Sample Number</b>	101112036-012						
<b>Surrogate Standard</b>		<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
1,2-Dichlorobenzene-d4		EPA 8260C		104.8		70-130	
4-Bromofluorobenzene		EPA 8260C		88.8		70-130	
Toluene-d8		EPA 8260C		96.8		70-130	

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## Analytical Results Report

<b>Sample Number</b>	101112036-013	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	DUPLICATE 1	<b>Sampling Time</b>	12:35 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,1,1,2-Tetrachloroethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	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-Dibromoethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloroethane	116	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	72.9	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
2-Chlorotoluene	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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**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** 101112036-013      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** DUPLICATE 1      **Sampling Time** 12:35 PM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorotoluene	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	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Bromodichloromethane	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 disulfide	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Carbon Tetrachloride	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-dichloroethene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Ethylbenzene	258	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	

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  
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**Address:** 523 E 2ND  
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**Batch #:** 101112036  
**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report

<b>Sample Number</b>	101112036-013	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	DUPLICATE 1	<b>Sampling Time</b>	12:35 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
m+p-Xylene	1570	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
Methylene chloride	ND	ug/L	250	11/18/2010	WOZ	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Naphthalene	50.7	ug/L	50	11/18/2010	WOZ	EPA 8260C	
n-Butylbenzene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
n-Propylbenzene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
o-Xylene	1650	ug/L	50	11/18/2010	WOZ	EPA 8260C	
p-isopropyltoluene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Styrene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Toluene	430	ug/L	50	11/18/2010	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	50	11/18/2010	WOZ	EPA 8260C	

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

## Analytical Results Report

<b>Sample Number</b>	101112036-013	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	DUPLICATE 1	<b>Sampling Time</b>	12:35 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
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## Surrogate Data

<b>Sample Number</b>	101112036-013						
<b>Surrogate Standard</b>		<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
1,2-Dichlorobenzene-d4		EPA 8260C		102.4		70-130	
4-Bromofluorobenzene		EPA 8260C		94.0		70-130	
Toluene-d8		EPA 8260C		92.4		70-130	

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

## Analytical Results Report

<b>Sample Number</b>	101112036-017	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	TRIP BLANK	<b>Sampling Time</b>		<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	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-Dibromoethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
2-hexanone	ND	ug/L	2.5	11/18/2010	WOZ	EPA 8260C	

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

## Analytical Results Report

**Sample Number** 101112036-017      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** TRIP BLANK      **Sampling Time**      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

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

## Analytical Results Report

<b>Sample Number</b>	101112036-017	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	TRIP BLANK	<b>Sampling Time</b>		<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
m+p-Xylene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	11/18/2010	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	11/18/2010	WOZ	EPA 8260C	
Methylene chloride	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-Butylbenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
n-Propylbenzene	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-isopropyltoluene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Toluene	3.54	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	11/18/2010	WOZ	EPA 8260C	

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

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

## Analytical Results Report


<b>Sample Number</b>	101112036-017	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	TRIP BLANK	<b>Sampling Time</b>		<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
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## Surrogate Data

<b>Sample Number</b>	101112036-017						
<b>Surrogate Standard</b>		<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
1,2-Dichlorobenzene-d4		EPA 8260C		104.8		70-130	
4-Bromofluorobenzene		EPA 8260C		87.2		70-130	
Toluene-d8		EPA 8260C		98.0		70-130	

Authorized Signature



Kathy Sattler, Lab Manager

H1 Sample analysis performed past holding time  
MCL EPA's Maximum Contaminant Level  
ND Not Detected  
PQL Practical Quantitation Limit  
Q3 Sample received with improper chemical preservation

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The results reported relate only to the samples indicated.  
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**Batch #:** 101112036  
**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report

<b>Sample Number</b>	101112036-001	<b>Sampling Date</b>	11/10/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-1-111010	<b>Sampling Time</b>	4:10 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dibromoethane	ND	mg/L	0.00001	11/20/2010	WOZ	EPA 8260C SIM	
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	

## Surrogate Data

<b>Sample Number</b>	101112036-001		
<b>Surrogate Standard</b>	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
1,2-Dichlorobenzene-d4	EPA 8260C SIM	101.6	70-130
4-Bromofluorobenzene	EPA 8260C SIM	97.6	70-130
Toluene-d8	EPA 8260C SIM	101.6	70-130

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

## Analytical Results Report

<b>Sample Number</b>	101112036-002	<b>Sampling Date</b>	11/10/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-2-111010	<b>Sampling Time</b>	3:07 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dibromoethane	ND	mg/L	0.00001	11/20/2010	WOZ	EPA 8260C SIM	
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	

## Surrogate Data

<b>Sample Number</b>	101112036-002		
<b>Surrogate Standard</b>	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
1,2-Dichlorobenzene-d4	EPA 8260C SIM	104.0	70-130
4-Bromofluorobenzene	EPA 8260C SIM	98.0	70-130
Toluene-d8	EPA 8260C SIM	100.0	70-130



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

## Analytical Results Report

<b>Sample Number</b>	101112036-007	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-7-111110	<b>Sampling Time</b>	8:41 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dibromoethane	ND	mg/L	0.00001	11/20/2010	WOZ	EPA 8260C SIM	
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	

## Surrogate Data

<b>Sample Number</b>	101112036-007		
<b>Surrogate Standard</b>	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
1,2-Dichlorobenzene-d4	EPA 8260C SIM	102.0	70-130
4-Bromofluorobenzene	EPA 8260C SIM	96.4	70-130
Toluene-d8	EPA 8260C SIM	98.4	70-130

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**Attn:** DAVE LAUDER

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

## Analytical Results Report

<b>Sample Number</b>	101112036-009	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-9-111110	<b>Sampling Time</b>	11:45 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dibromoethane	ND	mg/L	0.00001	11/20/2010	WOZ	EPA 8260C SIM	
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	

## Surrogate Data

<b>Sample Number</b>	101112036-009		
<b>Surrogate Standard</b>	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
1,2-Dichlorobenzene-d4	EPA 8260C SIM	102.0	70-130
4-Bromofluorobenzene	EPA 8260C SIM	96.4	70-130
Toluene-d8	EPA 8260C SIM	99.2	70-130

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

## Analytical Results Report

<b>Sample Number</b>	101112036-010	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-10-111110	<b>Sampling Time</b>	9:50 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dibromoethane	ND	mg/L	0.00001	11/20/2010	WOZ	EPA 8260C SIM	
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	

## Surrogate Data

<b>Sample Number</b>	101112036-010			
<b>Surrogate Standard</b>		<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
1,2-Dichlorobenzene-d4		EPA 8260C SIM	100.4	70-130
4-Bromofluorobenzene		EPA 8260C SIM	96.0	70-130
Toluene-d8		EPA 8260C SIM	99.6	70-130

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## Analytical Results Report

<b>Sample Number</b>	101112036-011	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-11-111110	<b>Sampling Time</b>	10:46 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dibromoethane	ND	mg/L	0.00001	11/20/2010	WOZ	EPA 8260C SIM	
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	

## Surrogate Data

<b>Sample Number</b>	101112036-011		
<b>Surrogate Standard</b>	<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
1,2-Dichlorobenzene-d4	EPA 8260C SIM	102.0	70-130
4-Bromofluorobenzene	EPA 8260C SIM	96.0	70-130
Toluene-d8	EPA 8260C SIM	100.0	70-130

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## Analytical Results Report

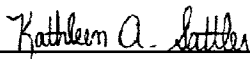
<b>Sample Number</b>	101112036-012	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-12-111110	<b>Sampling Time</b>	12:39 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,2-Dibromoethane	ND	mg/L	0.00001	11/21/2010	WOZ	EPA 8260C SIM	
1,2-Dichloroethane	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 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	0.001	11/21/2010	WOZ	EPA 8260C SIM	
Toluene	ND	mg/L	0.001	11/21/2010	WOZ	EPA 8260C SIM	

## Surrogate Data

<b>Sample Number</b>	101112036-012			
<b>Surrogate Standard</b>		<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
1,2-Dichlorobenzene-d4		EPA 8260C SIM	102.4	70-130
4-Bromofluorobenzene		EPA 8260C SIM	95.6	70-130
Toluene-d8		EPA 8260C SIM	100.8	70-130

Authorized Signature



Kathy Sattler, Lab Manager

MCL EPA's Maximum Contaminant Level  
ND Not Detected  
PQL Practical Quantitation Limit

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

## Analytical Results Report

<b>Sample Number</b>	101112036-001	<b>Sampling Date</b>	11/10/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-1-111010	<b>Sampling Time</b>	4:10 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	

<b>Sample Number</b>	101112036-002	<b>Sampling Date</b>	11/10/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-2-111010	<b>Sampling Time</b>	3:07 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	

<b>Sample Number</b>	101112036-003	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-3-111110	<b>Sampling Time</b>	2:20 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	

<b>Sample Number</b>	101112036-004	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-4-111110	<b>Sampling Time</b>	1:23 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

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

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

## Analytical Results Report

**Sample Number** 101112036-006      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-6-111110      **Sampling Time** 3:14 PM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	

**Sample Number** 101112036-007      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-7-111110      **Sampling Time** 8:41 AM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	

**Sample Number** 101112036-008      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-8-111110      **Sampling Time** 4:08 PM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	

**Sample Number** 101112036-009      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-9-111110      **Sampling Time** 11:45 AM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	

**Sample Number** 101112036-010      **Sampling Date** 11/11/2010      **Date/Time Received** 11/12/2010 5:18 PM  
**Client Sample ID** MW-10-111110      **Sampling Time** 9:50 AM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

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

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

## Analytical Results Report

<b>Sample Number</b>	101112036-011	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-11-111110	<b>Sampling Time</b>	10:46 AM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	

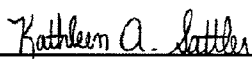
<b>Sample Number</b>	101112036-012	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	MW-12-111110	<b>Sampling Time</b>	12:39 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	

<b>Sample Number</b>	101112036-013	<b>Sampling Date</b>	11/11/2010	<b>Date/Time Received</b>	11/12/2010 5:18 PM
<b>Client Sample ID</b>	DUPLICATE 1	<b>Sampling Time</b>	12:35 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	ND	mg/L	0.001	11/16/2010	KEA	EPA 200.8	

Authorized Signature



Kathy Sattler, Lab Manager

MCL EPA's Maximum Contaminant Level  
ND Not Detected  
PQL Practical Quantitation Limit

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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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**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report Quality Control Data

### Lab Control Sample

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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SPOKANE, WA 99202  
**Attn:** DAVE LAUDER

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

## Analytical Results Report Quality Control Data

### Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
1,1-Dichloroethene	5.62	ug/L	5	112.4	70-130	11/18/2010	11/18/2010

### Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Trichloroethene	4.47	ug/L	5	89.4	7.7	0-20	11/17/2010	11/17/2010
Toluene	4.39	ug/L	5	87.8	7.9	0-20	11/17/2010	11/17/2010
Tetrachloroethene	4.14	ug/L	5	82.8	14.6	0-20	11/17/2010	11/17/2010
o-Xylene	4.15	ug/L	5	83.0	3.8	0-20	11/17/2010	11/17/2010
Ethylbenzene	4.41	ug/L	5	88.2	2.2	0-20	11/17/2010	11/17/2010
Chlorobenzene	4.65	ug/L	5	93.0	2.1	0-20	11/17/2010	11/17/2010
Benzene	4.89	ug/L	5	97.8	7.3	0-20	11/17/2010	11/17/2010
1,1-Dichloroethene	4.46	ug/L	5	89.2	6.7	0-20	11/17/2010	11/17/2010

### Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %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	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 Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Lead	0.0440	mg/L	0.05	88.0	0.2	0-20	11/15/2010	11/16/2010
Lead	0.0429	mg/L	0.05	85.8	0.0	0-20	11/15/2010	11/16/2010
Gasoline	0.991	mg/L	1.1	90.1	17.4	0-20	11/14/2010	11/14/2010

### Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	11/17/2010	11/17/2010
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	11/22/2010	11/22/2010
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	11/18/2010	11/18/2010
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	11/14/2010	11/14/2010
1,1,1-Trichloroethane	ND	ug/L	0.5	11/14/2010	11/14/2010

### Comments:

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Certifications held by Anatek Labs WA: EPA:WA00169; CA:Cert2632; ID:WA00169; WA:C585; MT:Cert0095

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## 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

### Comments:

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**Batch #:** 101112036  
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## 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:

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

# Anatek Labs, Inc.

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

**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
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

### Comments:

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

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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:

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

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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
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

### Comments:

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

# Anatek Labs, Inc.

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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
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:

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



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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
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:

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

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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
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 Number	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:

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

# Anatek Labs, Inc.

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

## Login Report

**Customer Name:** GEO ENGINEERS  
523 E 2ND  
SPOKANE WA 99202

**Order ID:** 101112036  
**Order Date:** 11/12/2010

**Contact Name:** DAVE LAUDER

**Project Name:** IONE, WA 0504-058-00

**Comment:**

---

**Sample #:** 101112036-001 **Customer Sample #:** MW-1-111010

**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	<u>Normal (6-10 Days)</u>
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 #:** 101112036-002 **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	<u>Normal (6-10 Days)</u>
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 #:** 101112036-003 **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	<u>Normal (6-10 Days)</u>
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>

Customer Name: GEO ENGINEERS  
523 E 2ND  
SPOKANE

WA 99202

Order ID: 101112036  
Order Date: 11/12/2010

Contact Name: DAVE LAUDER

Project Name: IONE, WA 0504-058-00

Comment:

---

Sample #: 101112036-004 Customer Sample #: MW-4-111110

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	<u>Normal (6-10 Days)</u>
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 #: 101112036-005 Customer Sample #: MW-5-111110

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	<u>Normal (6-10 Days)</u>
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 #: 101112036-006 Customer 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	<u>Normal (6-10 Days)</u>
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 #: 101112036-007 Customer 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	EPA 200.8	11/22/2010	<u>Normal (6-10 Days)</u>

Customer Name: GEO ENGINEERS  
523 E 2ND  
SPOKANE

WA 99202

Order ID: 101112036  
Order Date: 11/12/2010

Contact Name: DAVE LAUDER

Project Name: IONE, WA 0504-058-00

Comment:

TPHG-NW-SPO NWTPHG 11/19/2010 Normal (6-10 Days)  
VOLATILES 8260 EPA 8260C 11/22/2010 Normal (6-10 Days)

Sample #: 101112036-008 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	Priority
LEAD	EPA 200.8	11/22/2010	<u>Normal (6-10 Days)</u>
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 #: 101112036-009 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	Priority
LEAD	EPA 200.8	11/22/2010	<u>Normal (6-10 Days)</u>
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 #: 101112036-010 Customer Sample #: MW-10-111110

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	<u>Normal (6-10 Days)</u>
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>

Customer Name: GEO ENGINEERS  
523 E 2ND  
SPOKANE

WA 99202

Order ID: 101112036  
Order Date: 11/12/2010

Contact Name: DAVE LAUDER

Project Name: IONE, WA 0504-058-00

Comment:

---

Sample #: 101112036-011 Customer Sample #: MW-11-111110

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	<u>Normal (6-10 Days)</u>
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 #: 101112036-012 Customer Sample #: MW-12-111110

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	<u>Normal (6-10 Days)</u>
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 #: 101112036-013 Customer Sample #: DUPLICATE 1

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	<u>Normal (6-10 Days)</u>
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 #: 101112036-014 Customer 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 8260	EPA 8260C	11/22/2010	<u>Normal (6-10 Days)</u>

Customer Name: GEO ENGINEERS  
523 E 2ND  
SPOKANE WA 99202

Order ID: 101112036  
Order Date: 11/12/2010

Contact Name: DAVE LAUDER

Project Name: IONE, WA 0504-058-00

Comment:

---

Sample #: 101112036-015 Customer Sample #: DRUM MW-8

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 8260	EPA 8260C	11/22/2010	<b><u>Normal (6-10 Days)</u></b>

---

Sample #: 101112036-016 Customer Sample #: DP DRUM

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
TCLP Benzene	EPA 8260B	11/18/2010	<b><u>Normal (6-10 Days)</u></b>

---

Sample #: 101112036-017 Customer Sample #: TRIP BLANK

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 8260	EPA 8260C	11/22/2010	<b><u>Normal (6-10 Days)</u></b>

---

### SAMPLE CONDITION RECORD

---

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature inside the cooler?	3.1
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



# Chain of Custody Record

101112 036 **GEOE** Last Due **11/22/2010**  
 1st SAMP 11/10/2011 1st R/CVD 11/12/2010  
 ONE, WA 0504-058-00

1382 Almaras Drive, Moscow ID 83845 (208) 883-2839 FAX 882-9246  
 504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Company Name: <u>Geo Energy, Inc</u> Address: <u>523 E 2nd Ave</u> City: <u>Spokane</u> State: <u>WA</u> Zip: <u>99201</u> Phone: <u>509-363-3125</u> Fax: <u>363-3126</u>		Project Manager: <u>Dave Leach</u> Project Name & #: <u>Iron, WA 0504-058-00</u> Email Address: <u>dleach@geoenergyinc.com</u> Purchase Order #: _____ Sampler Name & Phone: <u>Kevin Rothell 435-767-7167</u>		http://www.anateklabs.com/services/guidelines/reporting.asp <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Next Day* <input type="checkbox"/> 2nd Day* <input type="checkbox"/> Other*		*All rush order requests must be prior approved. Phone _____ Mail _____ Fax _____ Email _____						
Provide Sample Description: _____ List Analyses Requested: _____ * VOCs including BTEX, EDC, MTBE, and naphthalene. Please keep PQLs below MTCA Cleanup levels				Note Special Instructions/Comments: <u>Tier 3 reporting</u> <u>Y</u>								
Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	MWTRH-GX	VOCs #	ETA BTEX	ETA Lead/300	Company	Date	Time
MW-1-111010		11/10/10 1610	W	6		X	X	X	X	G&E	11/10/10	1420
MW-2-111010		11/10/10 1507		6		X	X	X	X	G&E	11/10/10	1425
MW-3-111010		11/10/10 1426		6		X	X	X	X	G&E	11/10/10	1425
MW-4-111010		1323		6		X	X	X	X	G&E	11/10/10	1425
MW-5-111010		1727		6		X	X	X	X	G&E	11/10/10	1425
MW-6-111010		1514		6		X	X	X	X	G&E	11/10/10	1425
MW-7-111010		0841		6		X	X	X	X	G&E	11/10/10	1425
MW-8-111010		1608		6		X	X	X	X	G&E	11/10/10	1425
MW-9-111010		1145		6		X	X	X	X	G&E	11/10/10	1425
MW-10-111010		0950		6		X	X	X	X	G&E	11/10/10	1425
MW-11-111010		1046		6		X	X	X	X	G&E	11/10/10	1425
MW-12-111010		1729	↓	6		X	X	X	X	G&E	11/10/10	1425
Received by	Kevin Rothell									G&E	11/10/10	1420
Received by	M. Brown									G&E	11/10/10	1425
Received by											11-12-10	
Received by												

Inspection Checklist:  
 Received Intact? Y  
 Labels & Chains Agree? Y  
 Containers Sealed? Y  
 VOC Head Space? Y  
Wind cooler / ice  
Temperature (C) 3.0  
Preservative / ICE  
 Date & Time: 11-12-10  
 Inspected By: M. Brown



101112 036 **GEI** Last Due 11/22/2010  
 1st SAMP 11/10/201 1st RCVD 11/12/2010  
 ONE, WA 0504-058-00

**Chain of Custody Record**

**Anatek Labs, Inc.**  
 1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246  
 504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Company Name: GeoEngineering  
 Address: 523 E 2nd Ave State: WA Zip: 99202  
 City: Spokane  
 Phone: 509-363-3125  
 Fax: 363-3126

Project Name & #: ION, WA 0504-058-00  
 Email Address: d.lauder@geoengineering.com  
 Purchase Order #: \_\_\_\_\_  
 Project Manager: Dave Lauder  
 Sampler Name & Phone: Ronald Randall 435-764-7167

Provide Sample Description:

Lab ID	Sample Ident Location	Sampling Date/Time	Matrix	# of Containers	Sample Volume	MTPH-GX	VOC *	EM 8260	EM 600/400	TCLP Benzen
	Duplicate-1	11/10	W	3		X	X			
	Drum MW-5	11/10	W	2		X	X			
	Drum MW-8	11/10	W	2		X	X			
	DP Drum Loose Block	11/10	Spil	2	8 gal		X			X

List Analyses Requested: \_\_\_\_\_

Special Instructions/Comments:  
 \* VOCs including BTEX, EDC, MTBE, and naphthalene.  
 Please keep PCLs below MTCA Cleanup levels.  
 Tier 3 Reporting

Phone: \_\_\_\_\_  
 Mail: \_\_\_\_\_  
 Fax: \_\_\_\_\_  
 Email: \_\_\_\_\_

\*All rush order requests must be prior approved.

Normal:  Next Day\*: \_\_\_\_\_  
 2nd Day\*: \_\_\_\_\_  
 Other\*: \_\_\_\_\_

http://www.anateklabs.com/services/guidelines/reporting.asp

Inspection Checklist:  
 Received intact?  N  
 Labels & Chains Agreed?  N  
 Containers Sealed?  N  
 VOC Head Space?  N  
 Personal Protective Gear: \_\_\_\_\_  
 Temperature (CO<sub>2</sub>): 3°C  
 Preservative: HCl  
 Date & Time: 11/12/10  
 Inspected By: Dave Lauder

Requested by: Ronald Randall Signature: Ronald Randall Date: 11/10/10  
 Received by: MICHAEL Signature: MICHAEL Date: 11/12/10  
 Reinstated by: \_\_\_\_\_  
 Received by: \_\_\_\_\_  
 Reinstated by: \_\_\_\_\_

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

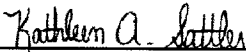
**Batch #:** 101209043  
**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report

<b>Sample Number</b>	101209043-001	<b>Sampling Date</b>	12/8/2010	<b>Date/Time Received</b>	12/9/2010 11:25 AM
<b>Client Sample ID</b>	CABIN WELL - 120810	<b>Sampling Time</b>	12:44 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Lead	ND	mg/L	0.001	12/16/2010	KEA	EPA 200.8	

Authorized Signature

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

**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** 101209043-001      **Sampling Date** 12/8/2010      **Date/Time Received** 12/9/2010 11:25 AM  
**Client Sample ID** CABIN WELL - 120810      **Sampling Time** 12:44 PM      **Extraction Date**  
**Matrix** Water      **Sample Location**  
**Comments**

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	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-Dibromoethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	192	ug/L	25	12/9/2010	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	

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

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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

<b>Sample Number</b>	101209043-001	<b>Sampling Date</b>	12/8/2010	<b>Date/Time Received</b>	12/9/2010 11:25 AM
<b>Client Sample ID</b>	CABIN WELL - 120810	<b>Sampling Time</b>	12:44 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

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	
Bromochloromethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Bromodichloromethane	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 Tetrachloride	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-dichloroethene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Ethylbenzene	592	ug/L	25	12/9/2010	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	

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

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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

<b>Sample Number</b>	101209043-001	<b>Sampling Date</b>	12/8/2010	<b>Date/Time Received</b>	12/9/2010 11:25 AM
<b>Client Sample ID</b>	CABIN WELL - 120810	<b>Sampling Time</b>	12:44 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Isopropylbenzene	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 ketone (MEK)	4.73	ug/L	2.5	12/9/2010	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	12/9/2010	WOZ	EPA 8260C	
Methylene chloride	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-Butylbenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
n-Propylbenzene	70.0	ug/L	25	12/9/2010	WOZ	EPA 8260C	
o-Xylene	1090	ug/L	25	12/9/2010	WOZ	EPA 8260C	
p-isopropyltoluene	2.59	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Tetrachloroethene	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-Dichloroethene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	

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  
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**Batch #:** 101209043  
**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report

<b>Sample Number</b>	101209043-001	<b>Sampling Date</b>	12/8/2010	<b>Date/Time Received</b>	12/9/2010 11:25 AM
<b>Client Sample ID</b>	CABIN WELL - 120810	<b>Sampling Time</b>	12:44 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
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## Surrogate Data

<b>Sample Number</b>	101209043-001						
<b>Surrogate Standard</b>		<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
1,2-Dichlorobenzene-d4		EPA 8260C		99.6		70-130	
4-Bromofluorobenzene		EPA 8260C		113.2		70-130	
Toluene-d8		EPA 8260C		81.6		70-130	

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**Batch #:** 101209043  
**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report

<b>Sample Number</b>	101209043-002	<b>Sampling Date</b>	12/8/2010	<b>Date/Time Received</b>	12/9/2010 11:25 AM
<b>Client Sample ID</b>	TRIP BLANK	<b>Sampling Time</b>		<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2,4-Trimethylbenzene	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-Dibromoethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
2-Chlorotoluene	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  
**Address:** 523 E 2ND  
SPOKANE, WA 99202  
**Attn:** DAVE LAUDER

**Batch #:** 101209043  
**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report

<b>Sample Number</b>	101209043-002	<b>Sampling Date</b>	12/8/2010	<b>Date/Time Received</b>	12/9/2010 11:25 AM
<b>Client Sample ID</b>	TRIP BLANK	<b>Sampling Time</b>		<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
4-Chlorotoluene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Acetone	ND	ug/L	2.5	12/9/2010	WOZ	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Benzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Bromochloromethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Bromodichloromethane	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 Tetrachloride	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-dichloroethene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	

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**Batch #:** 101209043  
**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report

Sample Number	101209043-002	Sampling Date	12/8/2010	Date/Time Received	12/9/2010 11:25 AM		
Client Sample ID	TRIP BLANK	Sampling Time		Extraction Date			
Matrix	Water	Sample Location					
Comments							
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
m+p-Xylene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	12/9/2010	WOZ	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	12/9/2010	WOZ	EPA 8260C	
Methylene chloride	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-Butylbenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
n-Propylbenzene	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-isopropyltoluene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Styrene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Tetrachloroethene	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-Dichloroethene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	12/9/2010	WOZ	EPA 8260C	
Trichlorofluoromethane	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  
**Address:** 523 E 2ND  
SPOKANE, WA 99202  
**Attn:** DAVE LAUDER

**Batch #:** 101209043  
**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report

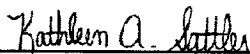
<b>Sample Number</b>	101209043-002	<b>Sampling Date</b>	12/8/2010	<b>Date/Time Received</b>	12/9/2010 11:25 AM
<b>Client Sample ID</b>	TRIP BLANK	<b>Sampling Time</b>		<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
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### Surrogate Data

<b>Sample Number</b>	101209043-002						
<b>Surrogate Standard</b>		<b>Method</b>		<b>Percent Recovery</b>		<b>Control Limits</b>	
1,2-Dichlorobenzene-d4		EPA 8260C		103.2		70-130	
4-Bromofluorobenzene		EPA 8260C		93.6		70-130	
Toluene-d8		EPA 8260C		100.4		70-130	

Authorized Signature



Kathy Sattler, Lab Manager

MCL EPA's Maximum Contaminant Level  
ND Not Detected  
PQL Practical Quantitation Limit

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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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**Batch #:** 101209043  
**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report

<b>Sample Number</b>	101209043-001	<b>Sampling Date</b>	12/8/2010	<b>Date/Time Received</b>	12/9/2010 11:25 AM
<b>Client Sample ID</b>	CABIN WELL - 120810	<b>Sampling Time</b>	12:44 PM	<b>Extraction Date</b>	
<b>Matrix</b>	Water	<b>Sample Location</b>			
<b>Comments</b>					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Gasoline	26.1	mg/L	1	12/11/2010	WOZ	NWTPHG	

## Surrogate Data

<b>Sample Number</b>	101209043-001			
<b>Surrogate Standard</b>		<b>Method</b>	<b>Percent Recovery</b>	<b>Control Limits</b>
4-Bromofluorobenzene		NWTPHG	112.5	70-130

Authorized Signature



Kathy Sattler, Lab Manager

MCL EPA's Maximum Contaminant Level  
ND Not Detected  
PQL Practical Quantitation Limit

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**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report Quality Control Data

### Lab Control Sample

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:

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

# Anatek Labs, Inc.

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

**Batch #:** 101209043  
**Project Name:** IONE, WA 0504-058-00

## 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-Chlorotoluene	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:

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  
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**Attn:** DAVE LAUDER

**Batch #:** 101209043  
**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report 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
Trichlorofluoromethane	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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## Analytical Results Report Quality Control Data

### Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Gasoline	0.889	mg/L	1.1	80.8	70-130	12/10/2010	12/10/2010

### Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
101208039-004	Gasoline	462	1.61	mg/L	1.1	104.4	70-130	12/10/2010	12/10/2010

### Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Gasoline	1.66	mg/L	1.1	108.9	3.1	0-20	12/10/2010	12/10/2010

### Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Gasoline	ND	mg/L	0.1	12/10/2010	12/10/2010

AR Acceptable Range  
ND Not Detected  
PQL Practical Quantitation Limit  
RPD Relative Percentage Difference

### Comments:

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  
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**Attn:** DAVE LAUDER

**Batch #:** 101209043  
**Project Name:** IONE, WA 0504-058-00

## Analytical Results Report Quality Control Data

### Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Lead	0.0511	mg/L	0.05	102.2	85-115	12/15/2010	12/16/2010

### Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
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 Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Lead	0.0489	mg/L	0.05	97.8	0.2	0-20	12/15/2010	12/16/2010

### Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Lead	ND	mg/L	0.001	12/15/2010	12/16/2010

AR Acceptable Range  
ND Not Detected  
PQL Practical Quantitation Limit  
RPD Relative Percentage Difference

### Comments:

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  
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## Login Report

**Customer Name:** GEO ENGINEERS

523 E 2ND

SPOKANE

WA

99202

**Order ID:** 101209043

**Order Date:** 12/9/2010

**Contact Name:** DAVE LAUDER

**Project Name:** IONE, WA 0504-058-00

**Comment:**

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**Sample #:** 101209043-001    **Customer Sample #:** CABIN WELL - 120810

**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	Method	Due Date	Priority
LEAD	EPA 200.8	12/21/2010	<u>Normal (6-10 Days)</u>
TPHG-NW-SPO	NWTPHG	12/16/2010	<u>Normal (6-10 Days)</u>
VOLATILES 8260	EPA 8260C	12/21/2010	<u>Normal (6-10 Days)</u>
VOLATILES 8260 RBCA	EPA 8260B	12/21/2010	<u>Normal (6-10 Days)</u>

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**Sample #:** 101209043-002    **Customer Sample #:** TRIP BLANK

**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	Method	Due Date	Priority
VOLATILES 8260	EPA 8260C	12/21/2010	<u>Normal (6-10 Days)</u>
VOLATILES 8260 RBCA	EPA 8260B	12/21/2010	<u>Normal (6-10 Days)</u>

**Customer Name:** GEO ENGINEERS  
523 E 2ND  
SPOKANE

WA 99202

**Order ID:** 101209043  
**Order Date:** 12/9/2010

**Contact Name:** DAVE LAUDER

**Project Name:** IONE, WA 0504-058-00

**Comment:**

### SAMPLE CONDITION RECORD

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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



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**Chain of Custody Record**

**101209 043** **GEOL** Last 12/21/2010  
 1st SAMP 12/9/2010 1st RCVD 12/9/2010  
 ONE, WA 0504-058-00

Company Name: GeoEngineers  
 Address: 523 E 20th Ave  
 City: Spokane State: WA Zip: 99202  
 Phone: 509-363-2125  
 Project Name & #: 262-2126  
 Email Address: Tom@GeoEng.com  
 Purchase Order #: 0504-058-00  
 Project Manager: Dax Lamb  
 Sample Name: Provide Sample Description  
 List Analyses Requested: Asst

Lab ID	Sample Description	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Analysis	Company	Date	Time
	Edison Well - 120910 12/9/10	12PM	W			<input checked="" type="checkbox"/> NWTPA-GX <input checked="" type="checkbox"/> VOCs <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> PCBs	Geo	12/9/10	1125

Received Impact?  N  
 Labels & Chains Agreed?  N  
 Containers Sealed?  N  
 VOC Head Space?  N  
 Temperature (C) 5.0  
 Preservative: Asst  
 Date & Time: 12-9-10  
 Inspected By: RJS

Inspection Checklist  
 Received Impact?  N  
 Labels & Chains Agreed?  N  
 Containers Sealed?  N  
 VOC Head Space?  N  
 Temperature (C) 5.0  
 Preservative: Asst  
 Date & Time: 12-9-10  
 Inspected By: RJS

Please refer to our normal turn around times at: <http://www.anateklabs.com/services/guidelines/reporting.asp>  
 Note Special Instructions/Comments: 50938 all sp  
EPA Method 8260 or 8021  
VOCs, Metals, BTEX, EDC, MTBE, PCB  
analytical

Have we delivered World Class Client Service?  
Please let us know by visiting [www. geoengineers.com/feedback](http://www.geoengineers.com/feedback).

