



***Groundwater Monitoring Report and  
Request For Case Closure***

**Former Live Oak Service Station**

**May 18, 2012**

***Site location:***

1671 Capitola Road  
Santa Cruz, California 95062

***Prepared for:***

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<b>TABLE OF CONTENTS</b>	<b>Page No.</b>
1.0 INTRODUCTION .....	1
2.0 SITE INFORMATION .....	1
2.1 Physical Setting .....	1
2.2 Summary of Previous Environmental Investigations and Remedial Activities .....	1
3.0 GROUNDWATER MONITORING METHODS .....	2
3.1 Depth-to-Water and Well Depth Measurements .....	2
3.2 Groundwater Elevations .....	2
3.3 Groundwater Sampling Protocol and Procedures .....	2
3.4 Chemical Analyses .....	3
3.5 Wastewater Disposal .....	3
4.0 GROUNDWATER MONITORING RESULTS AND DISCUSSION .....	3
4.1 Groundwater Analytical Results .....	3
4.2 Discussion of Groundwater Monitoring Data .....	3
4.2.1 PCE Groundwater Contamination Plume .....	3
4.2.2 TPHg Groundwater Contamination Plume .....	4
4.3 Request for Case Closure .....	4
5.0 CONCLUSIONS AND RECOMMENDATIONS .....	5
5.1 Conclusions .....	5
5.2 Recommendations .....	6
6.0 CERTIFICATION AND DISTRIBUTION .....	6
7.0 REFERENCES .....	7

**FIGURES**

Figure 1 – Site Vicinity Map

Figure 2 – Site Plan

Figure 3 – Groundwater Gradient Plot – March 27, 2012

Figure 4 – TPHg Groundwater Isoconcentration Map – March 27, 2012

Figure 5A – PCE Groundwater Isoconcentration Map – March 27, 2012

Figure 5B – PCE Groundwater Isoconcentration Map – December 10, 2010

Figure 5C – PCE Groundwater Isoconcentration Map – March 18, 2009

Figure 5D – PCE Groundwater Isoconcentration Map – December 15, 2009

Figure 5E – PCE Groundwater Isoconcentration Map – October 22, 2008

**TABLES**

Table 1 – Summary of Current Groundwater Monitoring Data

Table 2 – Summary of Historical Groundwater Elevation Data

Table 3 – Summary of Historical Groundwater Analytical Data

**GRAPHS**

Graph 1 – Chemical Concentrations of TPHg in Monitoring Well MW-1 Over Time

Graph 2 – Chemical Concentrations of TPHg in Monitoring Well MW-2 Over Time

Graph 3 – Chemical Concentrations of TPHg in Monitoring Well MW-3 Over Time

Graph 4 – Chemical Concentrations of TPHg in Monitoring Well MW-4 Over Time

Graph 5 – Chemical Concentrations of TPHg in Monitoring Well MW-5 Over Time

Graph 6 – Chemical Concentrations of TPHg in Monitoring Well MW-6 Over Time

Graph 7 – Chemical Concentrations of TPHg in Monitoring Well MW-7 Over Time



1671 Capitola Road, Santa Cruz, California 95062

## Graph 8 – Chemical Concentrations of TPHg in Monitoring Well MW-8 Over Time

### **APPENDICES**

Appendix A – Well Sampling Logs

Appendix B – Analytical Laboratory Data Sheets

Appendix C – Historical Laboratory Data Sheets

Appendix D – Summary of Historical Soil Analytical Data Tables

Appendix E – Cross Sections

Appendix F – Sensitive Receptor Survey

## 1.0 INTRODUCTION

A+ Environmental Solutions, LLC (AES) appreciates the opportunity to work on the Former Live Oak Service Station project located at 1671 Capitola Road, Santa Cruz, California, site. On March 27, 2012, AES performed the 1<sup>st</sup> Quarter 2012 annual sampling event. This sampling event consisted of collecting depth-to-water measurements, purging, and sampling of all seven (7) site-related groundwater monitoring wells (Figure 2, Site Plan). The purpose of this sampling event was to measure groundwater contaminant concentrations and trends over time. This report documents the sampling procedures, results, conclusions, and recommendations of the sampling event.

## 2.0 SITE INFORMATION

The project site is located at 1671 Capitola Road, Santa Cruz, California. The property is situated on the northwest corner of the intersection of Capitola Road and 17<sup>th</sup> Avenue (Figure 1, Site Vicinity Map). The site is currently developed with a commercial building occupied by Holiday Muffler, a smog check and repair business.

### 2.1 Physical Setting

Based on the *U.S. Geological Survey Santa Cruz, California 7.5 Minute Quadrangle Map*, the subject property lies at approximately 80 feet (ft) above mean sea level (msl). The topographic slope of the subject property and surrounding area is generally to the south towards Monterey Bay (Figure 1).

#### Regional and Site Geology

According to the Geologic Map of Santa Cruz County, the site lies upon Pleistocene coastal terrace deposits (Qc1). The deposits are described as semiconsolidated, generally well-sorted sand with a few thin, relatively continuous layers of gravel deposited in a nearshore high-energy environment (Brabb, 1989). During previous investigations, site specific soils have been identified as primarily consisting of fine grained interbedded silts, fine sands, and clays (ML to CL to CH), from the ground surface to depths of between 7 and 13 ft below ground surface (bgs). Below which a well-graded sand (SW) generally extends to a depth of approximately 20 ft bgs. A poorly graded sand (SP) is then encountered from 20 ft bgs to at least 45 ft bgs, which is the maximum depth explored at the site. Detailed cross-sections depicting the encountered subsurface materials are presented in Clearwater Group's (Clearwater) June 2011 *Site Conceptual Model*.

#### Hydrologic Setting

The nearest surface water to the site is Rodeo Creek, located approximately 2,500 ft east of the site. Rodeo Creek flows to the Monterey Bay, located approximately one mile south of the site.

Site Specific groundwater levels have historically ranged from 18.71 ft below top of casing (BTOC) at well MW-1 to 26.11 feet BTOC at well MW-1 (Table 2). Groundwater flow has been measured to generally flow towards the south-southwest.

### 2.2 Summary of Previous Environmental Investigations and Remedial Activities

The site was previously occupied by the Live Oak Service Station and Live Oak Texaco. These businesses operated three (3) underground storage tanks (USTs): one (1) 6,000-gallon gasoline tank, one (1) 4,000-gallon gasoline tank, and one (1) 300-gallon waste oil tank. The USTs were removed from the site in February 1990 and the associated dispensers and fuel lines were removed in 1994.

Since the removal of the tanks and associated piping, soil and groundwater contamination at the site has been thoroughly characterized. Site characterization has included, but is not limited to, direct soil sampling, advancement of temporary soil borings, installation of groundwater monitoring wells, installation of soil vapor wells, a passive soil gas survey, and an active soil gas survey. The first

monitoring wells were installed on site in 1994, and a total of 34 sampling events have been conducted at the site to date.

Remedial activities conducted at the site include, but are not limited to, the excavation of contaminated soils, free product removal (via passive skimmers), installation of in-situ Submerged Oxygen Curtain (iSOC) units, and groundwater extraction.

A full summary of the historical investigations conducted at the site through 2011 can be found in Attachment 2 of Clearwater's June 2011 *Site Conceptual Model*.

AES conducted an Active Soil Gas Survey at the site in March 2012 to determine if residual contaminants of concern (COCs) that may remain in the subsurface are releasing potentially harmful soil vapors to the surface. The results of the soil vapor sampling event indicated that relatively low concentrations of Total Petroleum Hydrocarbons as gasoline (TPHg) and the volatile organic compounds (VOCs) tetrachloroethene (PCE) and trichloroethene (TCE) were present in soil gas below the site.

### **3.0 GROUNDWATER MONITORING METHODS**

AES completed this groundwater monitoring event on March 27, 2012, following the methods and procedures described in this section.

#### **3.1 Depth-to-Water and Well Depth Measurements**

Each of the seven (7) site related monitoring wells (MW-1, MW-3, MW-4E, and MW-5 thru MW-8) were opened and allowed to equilibrate for a minimum of 15 minutes prior to collecting the initial depth-to-water and total well depth measurements. The depth of freestanding groundwater was then measured to the nearest one-hundredth (0.01) of a foot using a Solinst water level indicator. The depth to water measurements were made from the surveyed point on the north side of the top of casing. The depth to initial groundwater and total well depth of each well were then recorded on the well sampling logs (Appendix A) and are summarized in Table 1 and 2. All well sampling equipment was decontaminated in a three-stage wash with 1) Alconox®, a cleaning detergent, and brushing, 2) a tap water rinse, and 3) a purified water rinse. Purified water consisted of distilled water. All downhole equipment was either new or decontaminated by this three-stage process prior to use.

Post-operation, all equipment was decontaminated, and containers of purge and decon water were properly labeled, secured, and analytical results reviewed. Appropriate disposal will be arranged and manifests will be included under separate cover and electronically uploaded to GeoTracker, the State Water Resources Control Board's internet-accessible database system.

#### **3.2 Groundwater Elevations**

The water table was measured at depths ranging from 20.07 feet below top of casing (BTOC) (MW-6 and MW-7) to 23.59 feet BTOC (MW-1). Groundwater elevations were calculated to range from a low of 55.87 feet above Mean Sea Level (feet MSL) (MW-7) to a high of 57.85 feet MSL (MW-1) (Table 1). The groundwater elevations were used to construct the potentiometric map, included as Figure 3, which interprets groundwater flow for the sampling event to generally be to the southeast at an average gradient of 0.007 foot of vertical drop per foot of horizontal distance (ft/ft). This groundwater flow direction and gradient is consistent with historical flow directions and gradients.

Note: Due to an anomalously high groundwater elevation reading, the groundwater elevation recorded from MW-6 was not used in the construction of the potentiometric map.

#### **3.3 Groundwater Sampling Protocol and Procedures**

After groundwater levels were measured and well casing volumes calculated, each well was purged with a peristaltic pump or PVC bailer of at least three (3) well casing volumes of water. Prior to the first well casing and following each purge of a well casing volume, field parameters were measured and recorded

on the well sampling logs (Appendix A). AES measured pH, specific conductivity, temperature, dissolved oxygen (DO), oxidation reduction potential (ORP), and turbidity. AES personnel were careful to not dewater wells. Dewatering may cause volatilization of the groundwater, as water may cascade down the well casing or gravel pack. After the water column recovered a minimum of 80%, the groundwater samples were collected using a new disposable polyethylene bailer for each well. The samples were immediately transferred to laboratory supplied EPA Testing Method approved containers, labeled, sealed in individual plastic bags, and placed in a pre-chilled ice chest with ice to remain at 4 degrees Celsius (°C) until they arrived at the lab. VOC samples were properly decanted into 40 ml VOAs using bailer attachments to minimize agitation of the sample and checked for headspace. VOA vials were ordered with hydrochloric acid preservative and were used for all VOC and TPHg analysis.

### 3.4 Chemical Analyses

Once all samples were collected and appropriately packed, they were transported, observing formal chain-of-custody procedures to BC Laboratories (a State of California-certified testing laboratory). Samples were analyzed for TPHg, MBTEX (MtBE, benzene, toluene, ethylbenzene, and xylenes), and the full VOC suite using EPA Method 8260B.

### 3.5 Wastewater Disposal

Wastewater generated during this sampling event was stored in properly labeled and secured 55-gallon DOT-approved drums until it can be properly disposed of. A licensed hazardous-waste hauler will be contracted to recycle impacted waste water. Disposal manifests will be presented under separate cover.

## 4.0 GROUNDWATER MONITORING RESULTS AND DISCUSSION

### 4.1 Groundwater Analytical Results

A summary of the COCs detected by laboratory analysis are summarized in Tables 1 and 3. The complete laboratory data sheets are presented in Appendix B. A brief summary of the analytical data is as follows:

- TPHg was reported in four (4) wells, at concentrations ranging from 360 µg/L (at MW-7) to 4,200 µg/L (at MW-8) (see Figure 4);
- Benzene was reported as non-detect at or above laboratory detection limits in all samples submitted for analysis;
- MtBE was reported as non-detect at or above laboratory detection limits in all samples submitted for analysis; and
- PCE was reported in three (3) wells, at concentrations ranging from 1.4 µg/L (at MW-3) to 55 µg/L (at MW-5) (see Figure 5A).

### 4.2 Discussion of Groundwater Monitoring Data

Based on the results of this current sampling event, two distinct COCs, TPHg and PCE, exist at the site. Each of these contaminants appears to have separate plumes originating from different source areas (Figures 4 and 5A-E). As such, each will be discussed separately in the following sections.

#### 4.2.1 PCE Groundwater Contamination Plume

PCE contamination at the site was first identified during the *Active Soil Gas Survey* conducted by AES in April 2012. During that investigation PCE was detected above laboratory detection limits in three (3) separate soil gas samples collected at both on- and off-site locations. AES concluded, in part, that “it is unlikely that VOC soil gas vapors (including PCE) are releasing to the surface at concentrations potentially harmful to human health.” However, to fully assess the impacts of VOCs to the environment and possibly human health, the soil gas data must be used in conjunction with soil and groundwater contaminant concentrations. Although a significant network of groundwater monitoring wells exists at the site, and groundwater monitoring has been ongoing since 1995, groundwater samples have never

previously been analyzed for the full range of VOCs, which includes PCE and TCE. Before a definitive assessment of the potential impacts of VOCs to the environment and human health could be determined, an evaluation of the concentrations of VOCs in groundwater must be made. Therefore, during this current sampling event, in addition to the usual TPHg and MBTEX analysis, AES analyzed all groundwater samples for the full range of VOCs (including PCE). Additionally, historical groundwater monitoring samples were analyzed for TPHg and MBTEX by EPA Test Method 8260b. As such, in an attempt to determine if VOCs have historically been present in groundwater at the site, AES contacted the analytical laboratory which conducted the analysis of groundwater samples collected during five (5) historical sampling events at the site between 2008 and 2010. The analytical laboratory was able to extract the full suite of VOCs (which includes PCE and TCE) from the historical samples. The historical laboratory data sheets are presented in Appendix C and summarized in Table 3.

Based on the results of this current sampling event and review of historical analytical data, a relatively small PCE contamination plume appears to be present in groundwater centered around off-site monitoring well MW-5 (Figures 5A through 5E). The PCE plume is distinctly separate in size and shape from the previously documented TPHg groundwater plume. Furthermore, it does not appear to be originating from the same source area (the former on-site USTs) as the TPHg plume (Figure 4). This is supported by two main factors:

- 1.) The highest detected concentrations of PCE have both currently (at 55 µg/L) and historically (up to 130 µg/L on March 18, 2009) been detected in off-site well MW-5. This well is located off-site and cross-gradient (i.e., southwest) of the subject site and the former on-site USTs.
- 2.) Only trace (up to 1.4 µg/L) to non-detectable concentrations of PCE have been detected in on-site groundwater monitoring well MW-3. This well is located directly between the former USTs and well MW-5, where the highest detected concentrations of PCE have historically been found. If the on-site USTs were the source of this plume, significantly higher concentrations of PCE would likely be found in MW-3. Furthermore, PCE has never been reported at concentrations above laboratory detection levels in the two wells (MW-4/4E and MW-8) located directly downgradient from the former USTs.

The exact source of this off-site PCE plume has not yet been identified. However, based on the groundwater flow direction and shape of the plume, it is likely originating from a source area southwest of the subject site across Capitola Avenue.

#### **4.2.2 TPHg Groundwater Contamination Plume**

The TPHg groundwater contamination plume at the site has been thoroughly characterized and delineated over the 22 years since the tanks were removed and groundwater monitoring began. As shown on Figure 4 and Graphs 1 through 8, the plume is stable and decreasing in size. During this current investigation, the highest detected concentration of TPHg was found in well MW-8 at 4,200 µg/L. Additionally, benzene has not been detected above laboratory detection limits in any groundwater samples submitted for analysis since 2007, and MtBE has not been detected in any samples since 2000.

#### **4.3 Request for Case Closure**

AES recommends this leaking underground storage tank (LUST) site be reviewed for case closure by both the local (SCCDEH) and regional (RWQCB) oversight agencies, based on the results of this current sampling event, review of historical sampling events, remedial activities, and the following criteria:

- 1.) The source of the contamination (i.e. the former on-site USTs and associated piping and fuel islands) and all free product have been removed. Additionally, what little contamination that remains in the soil (if any) is no longer leaching contaminants into the water table as is evidenced by the continually decreasing COC trends in groundwater (see Table 3, Graphs 1 through 8, and Appendix D).

- 2.) The site and the TPHg plume have been thoroughly characterized as at least 49 groundwater sampling events have occurred at the site since groundwater wells were first installed in 1995, and at least 106 soil samples have been collected and analyzed from excavations, soil borings and stockpiles (Appendix D). Also, detailed cross-sections, which depict all relevant subsurface features, were prepared as part of the June 2011 Site Conceptual Model for the site and are also included in Appendix E.
- 3.) The dissolved phase TPHg plume is no longer migrating and is decreasing in size. This is evidenced by ongoing decreasing TPHg concentrations in all wells but most importantly MW-7, the most downgradient off-site well (Graph 7).
- 4.) No water wells, deeper drinking water aquifers, or other sensitive receptors have likely been impacted by the release. A full sensitive receptor survey was prepared as part of the Site Conceptual Model and is presented in Appendix F. Additionally, the nearest surface water to the site is Rodeo Creek, located approximately 2,500 ft east of the site. Rodeo Creek flows to the Monterey Bay, located approximately one mile south of the site. Based on their distance from the site, it is highly unlikely that any surface waters have been impacted by this release.
- 5.) The residual TPHg contamination plume presents no significant risk to human health. This was confirmed by the results of AES's April 2012 *Active Soil Gas Survey*. The conclusions of that report indicate, in part, that "it is highly unlikely that TPHg soil gas vapors are releasing to the surface at concentrations potentially harmful to human health."
- 6.) The site presents no significant risk to the environment. As stated above, no sensitive receptors of surface bodies of water have likely been impacted by the release. Additionally, any residual contamination that remains below the site (if any) is at least 20 to 30 feet bgs, is no longer migrating, and should continue to naturally attenuate.

## 5.0 CONCLUSIONS AND RECOMMENDATIONS

### 5.1 Conclusions

The following conclusions are based upon interpretation of analytical data and field measurements collected during March 2012, and upon review of historical investigations conducted at the site and at nearby facilities:

- Groundwater flow for this sampling event was interpreted to be generally to the south-southwest at an average gradient of 0.007 ft/ft. This groundwater flow direction and gradient is consistent with historical flow directions and gradients.
- Two distinct contaminants of concern, TPHg and PCE, have been historically detected at the site.
- PCE contamination first identified during an *Active Soil Gas Survey* performed at both on- and off-site locations, and confirmed by groundwater analysis, does not appear to be originating from the same source area (the former on-site USTs) as the TPHg plume. The exact source of this off-site PCE plume has not yet been identified. However, based on the groundwater flow direction and shape of the plume, it is likely originating from a source area southwest of the subject site, across Capitola Avenue.
- The TPHg groundwater contamination plume has been thoroughly characterized and delineated over the 17 years since groundwater monitoring began. The plume is stable and decreasing in size. During this current investigation, the highest detected concentration of TPHg was found in well MW-8 at 4,200 µg/L. Additionally, benzene has not been detected above laboratory detection limits in any groundwater samples submitted for analysis since 2007, and MtBE has not been detected in any samples since 2000.



## 5.2 Recommendations

Based on the data collected during this investigation and the above conclusions AES makes the following recommendations:

- Based on the results of this current sampling event, review of historical sampling events, remedial activities, and the six (6) factors outlined in detail in Section 4.3, AES recommends this leaking underground storage tank (LUST) site be reviewed for case closure by both the local (SCCDEH) and regional (RWQCB) oversight agencies.
- The groundwater monitoring program should be suspended, pending the preparation and regulatory review of a formal Case Closure Summary Report.

## 6.0 CERTIFICATION AND DISTRIBUTION

To the best of our knowledge, all statements made in this report are true and correct. This report is based on data provided by the client and others, site conditions observed, samples collected, and analytical data. No warranty whatsoever is made that this report/investigation addresses all contamination found on the site.

If you have any questions or require additional information regarding this report, please contact Forrest Cook at AES (831-476-9200).

Respectfully submitted,



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## 7.0 REFERENCES

A+ Environmental Solutions, LLC. *Active Soil Gas Survey*. Former Live Oak Service Station, 1671 Capitola Road, Santa Cruz, CA. April 18, 2012.

Brabb, E. E., Graham, S. E., Wentworth, C., Knifong, D., Graymer, R., and Blissenbach, J. 1997. Geologic map of Santa Cruz County, California: A digital database: U.S. Geological Survey Open-File Report 97-489.

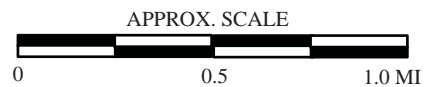
Clearwater Group. *Site Conceptual Model*. Former Live Oak Service Station, Capitola Road, Santa Cruz, CA. June 2011.

Department of Toxic Substance Control. *Advisory – Active Soil Gas Investigations*. January, 28, 2003.

**FIGURES**



SOURCE: USGS 7.5 MINUTE SOQUEL QUAD

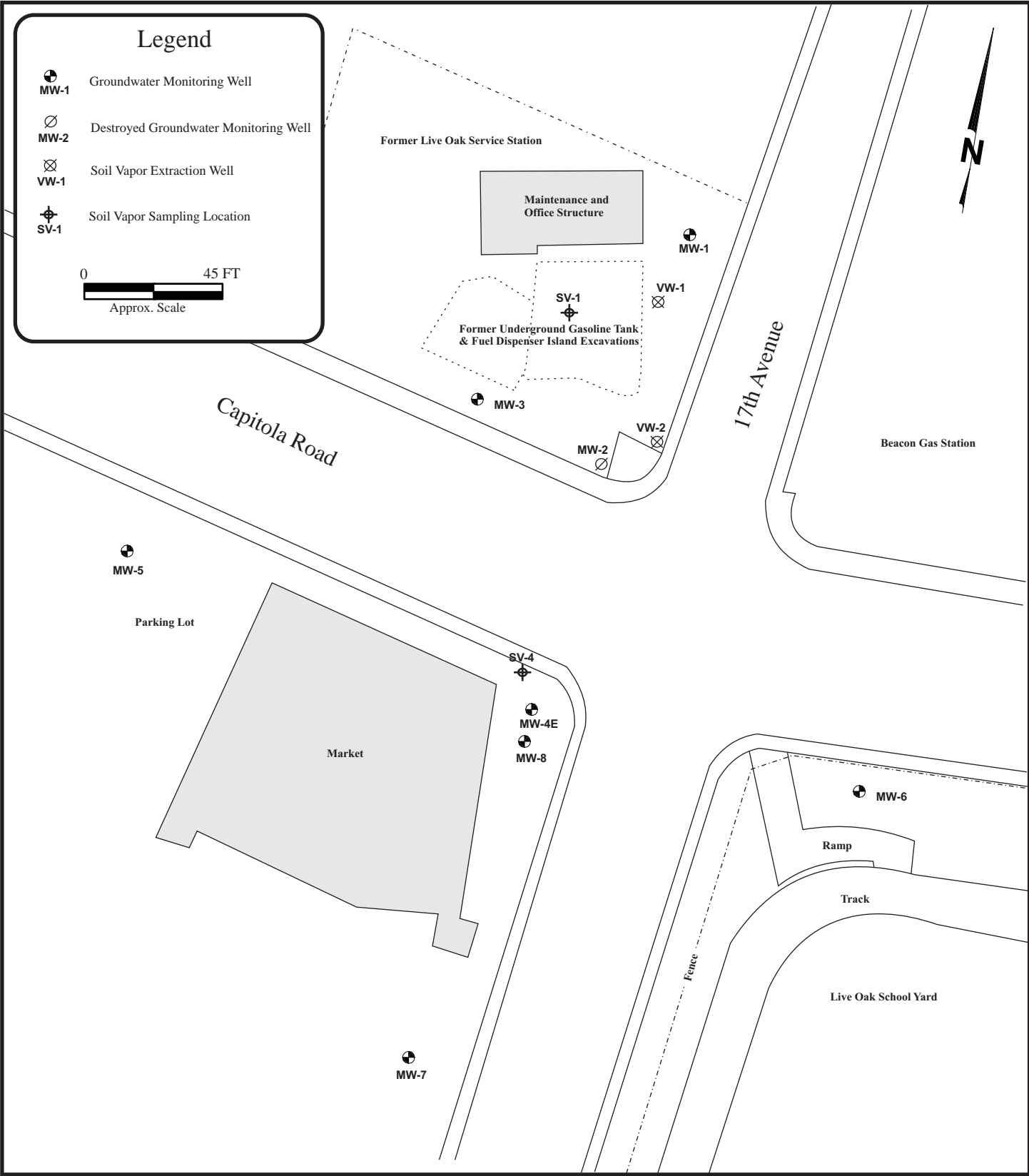


**FORMER LIVE OAK SERVICE STATION  
1671 CAPITOLA ROAD  
SANTA CRUZ, CALIFORNIA**

**SITE VICINITY MAP**

**FIGURE**

**1**

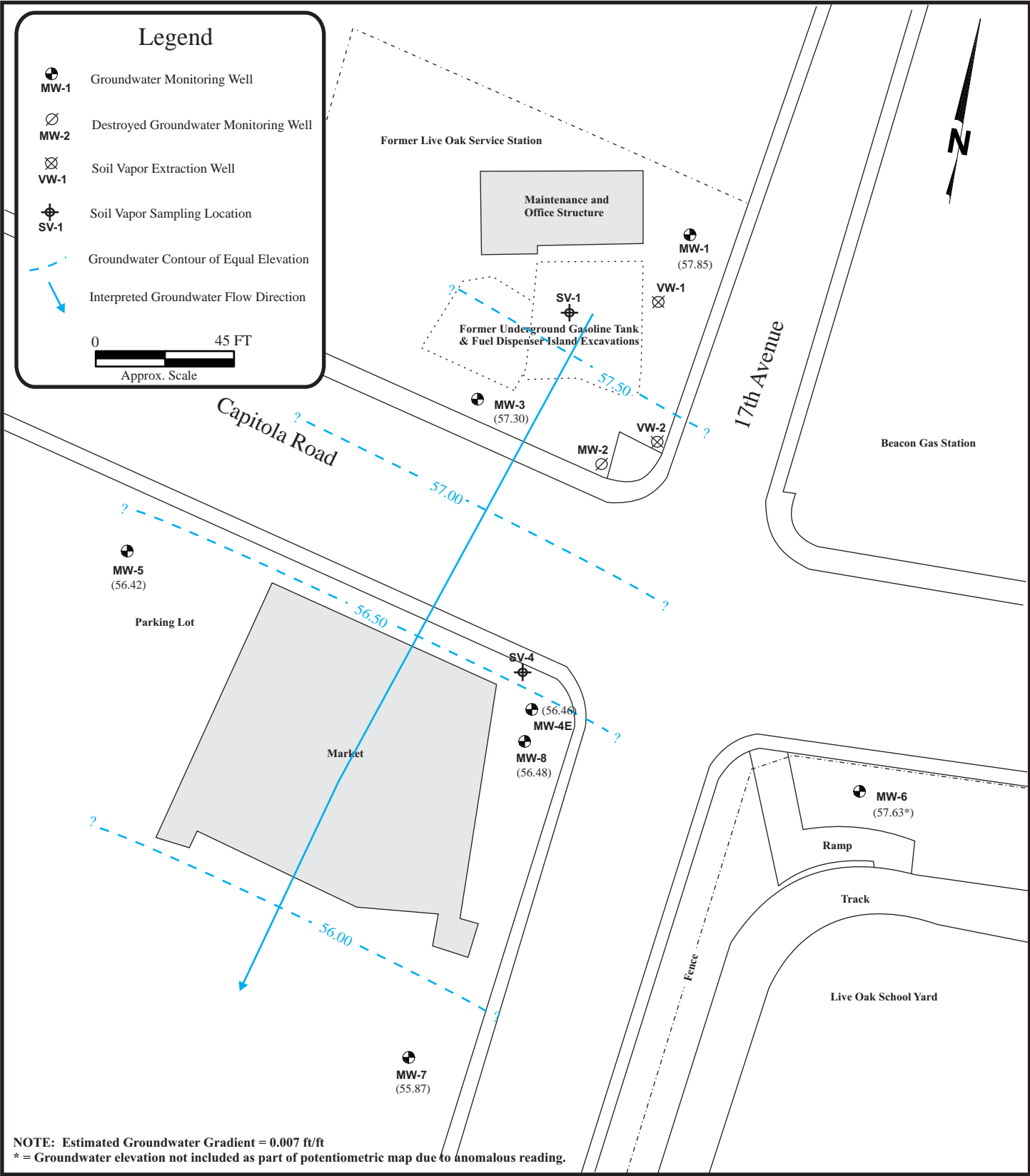


**Former Live Oak Service Station  
1671 Capitola Rd.  
Santa Cruz, California**

Site Map

**Figure**

**2**



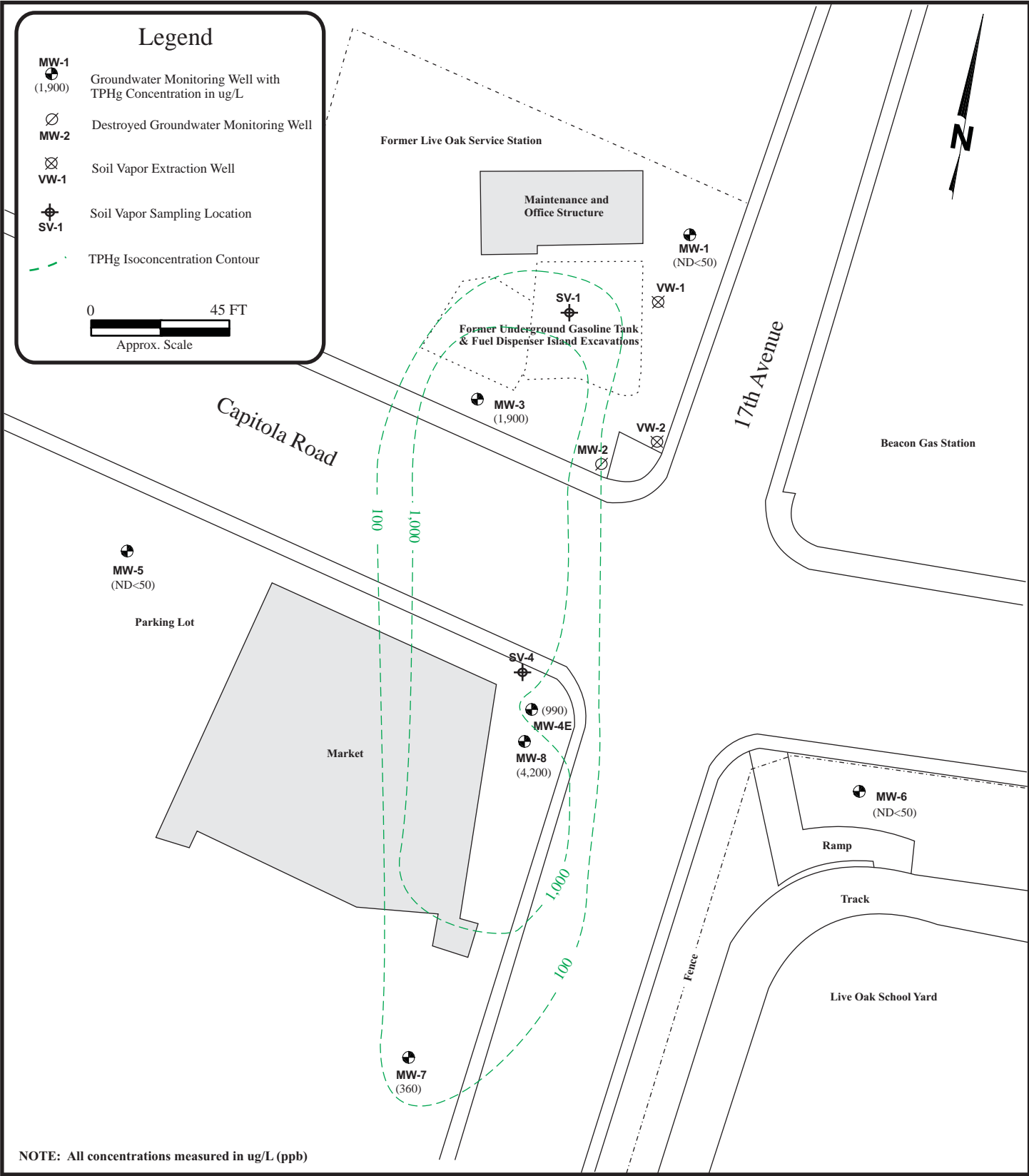
NOTE: Estimated Groundwater Gradient = 0.007 ft/ft  
 \* = Groundwater elevation not included as part of potentiometric map due to anomalous reading.



**Former Live Oak Service Station**  
**1671 Capitola Rd.**  
**Santa Cruz, California**

**March 27, 2012**  
**Groundwater Gradient Map**

**Figure**  
**3**

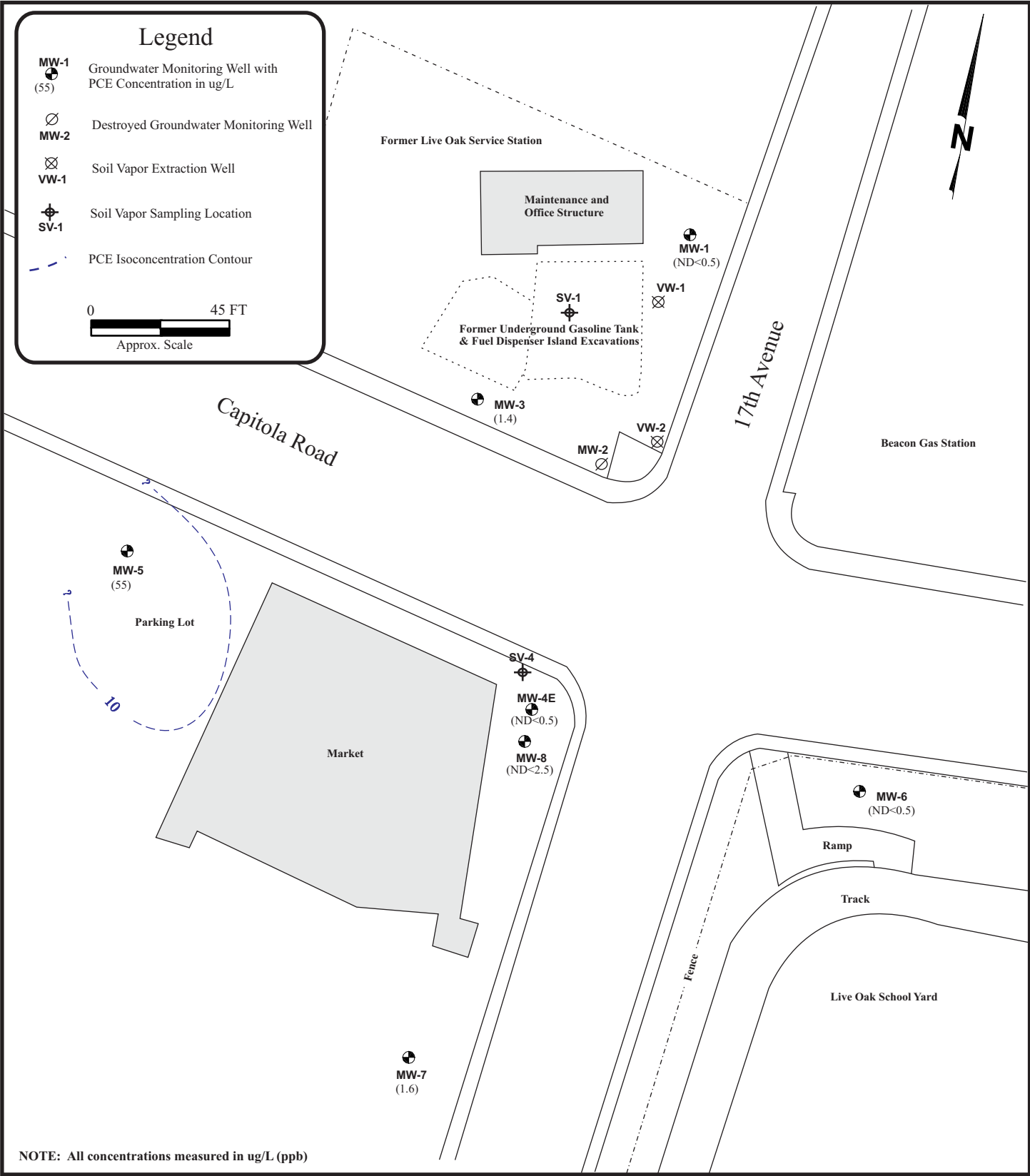


**Former Live Oak Service Station  
1671 Capitola Rd.  
Santa Cruz, California**

**March 27, 2012  
TPHg Isoconcentration Map**

**Figure**

**4**



NOTE: All concentrations measured in ug/L (ppb)

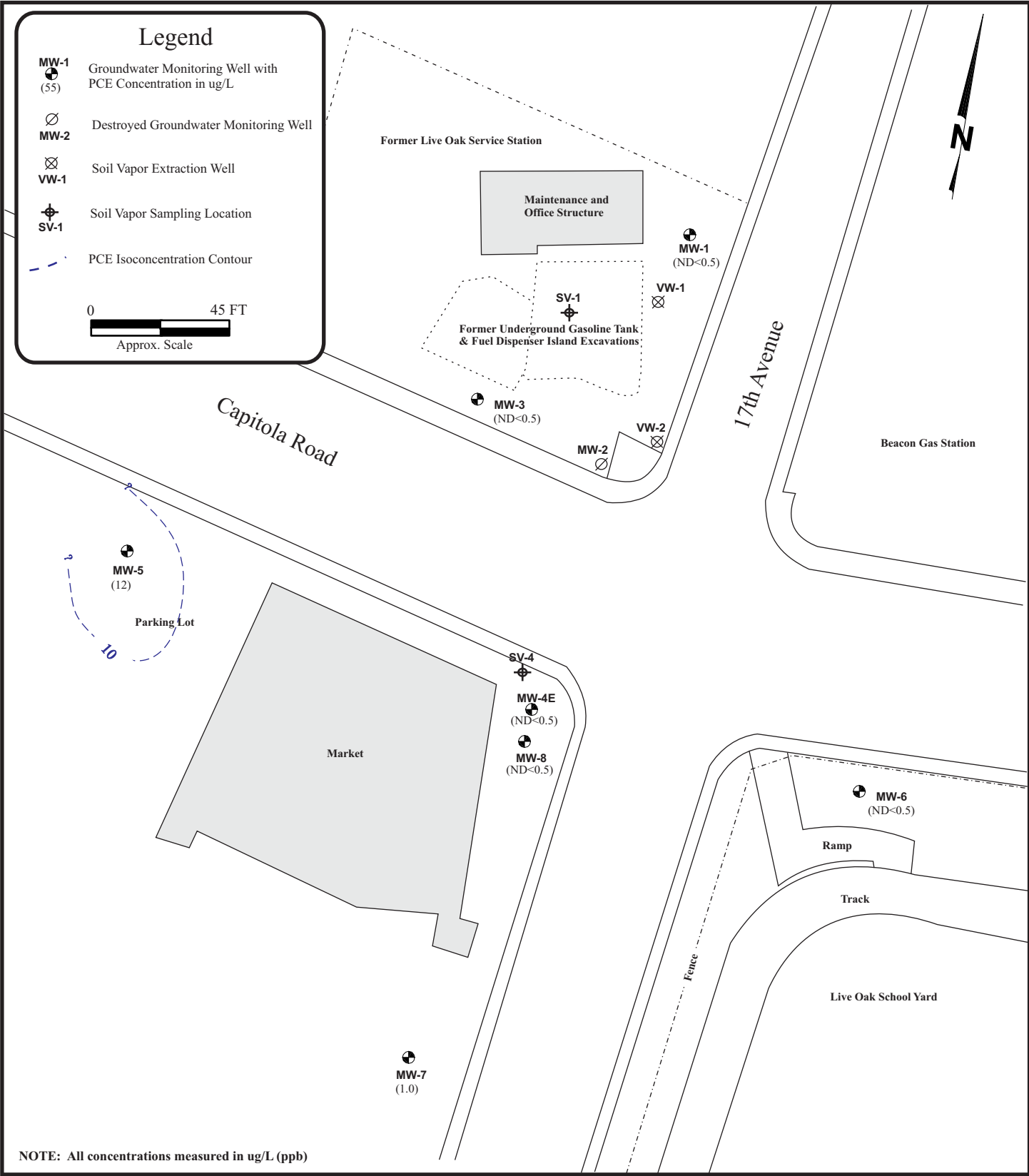


**Former Live Oak Service Station  
1671 Capitola Rd.  
Santa Cruz, California**

**March 27, 2012  
PCE Isoconcentration Map**

**Figure  
5A**





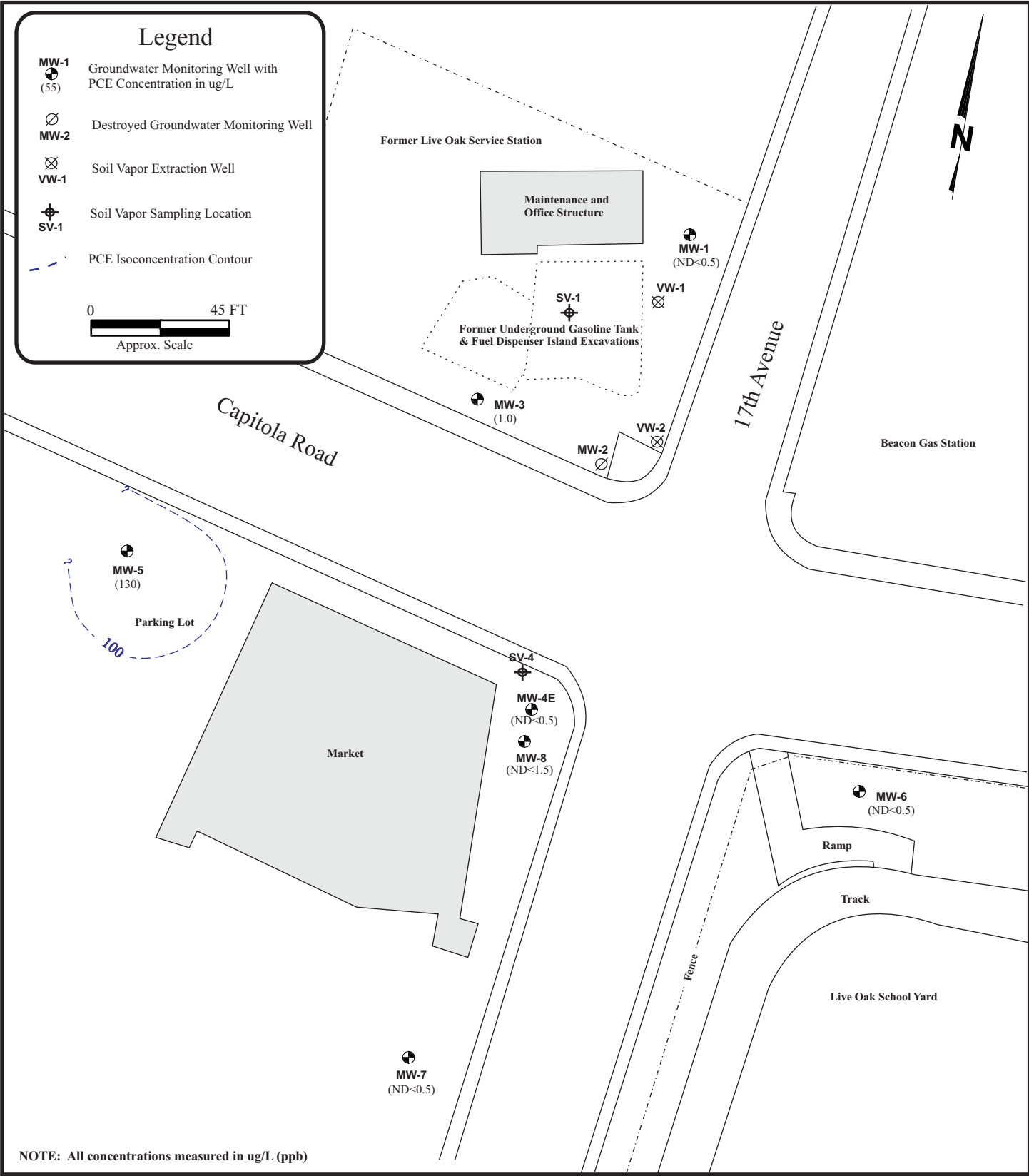
NOTE: All concentrations measured in ug/L (ppb)



**Former Live Oak Service Station  
1671 Capitola Rd.  
Santa Cruz, California**

**December 10, 2010  
PCE Isoconcentration Map**

**Figure  
5B**

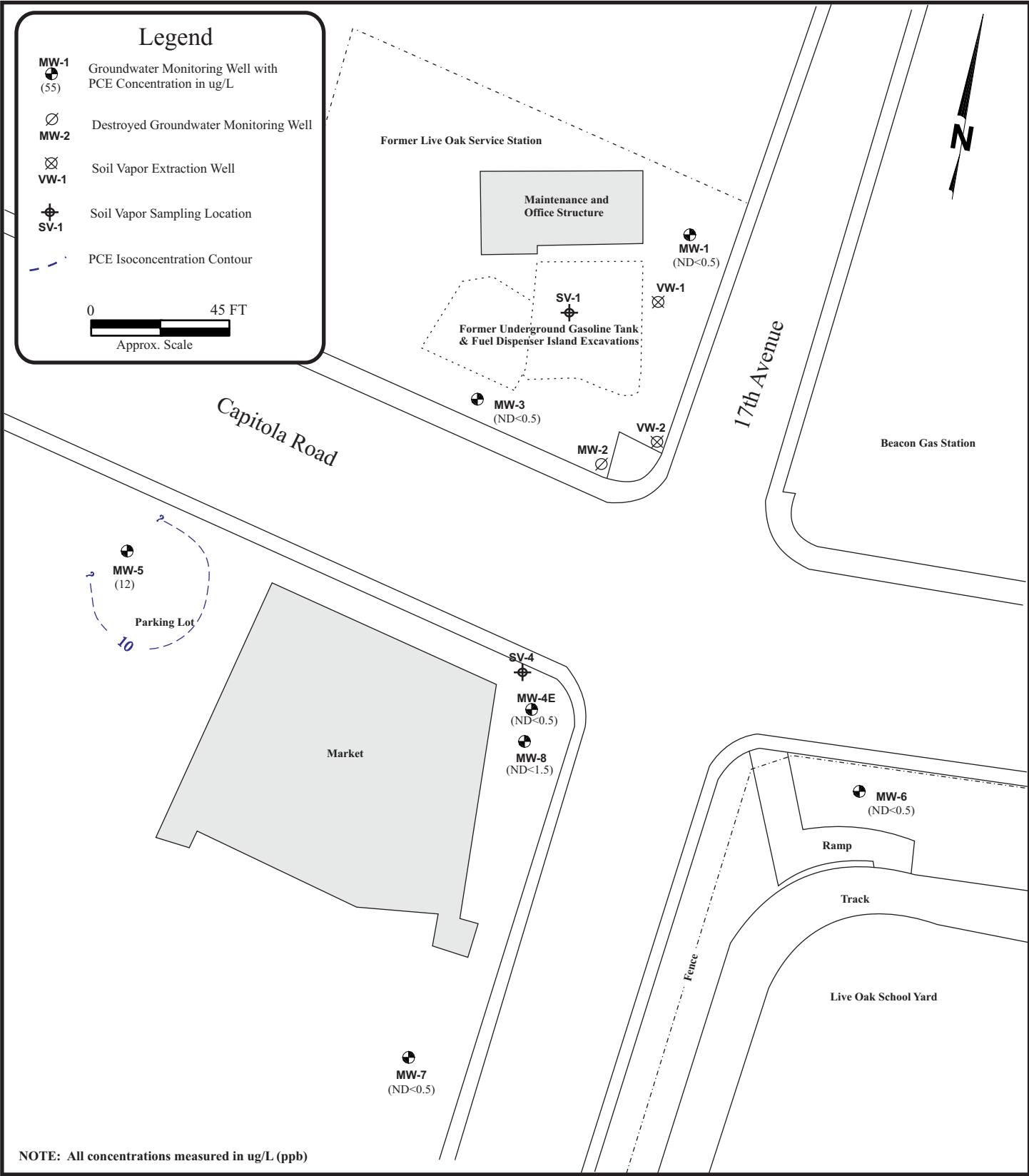


**Former Live Oak Service Station  
1671 Capitola Rd.  
Santa Cruz, California**

**March 18, 2009  
PCE Isoconcentration Map**

**Figure**

**5C**

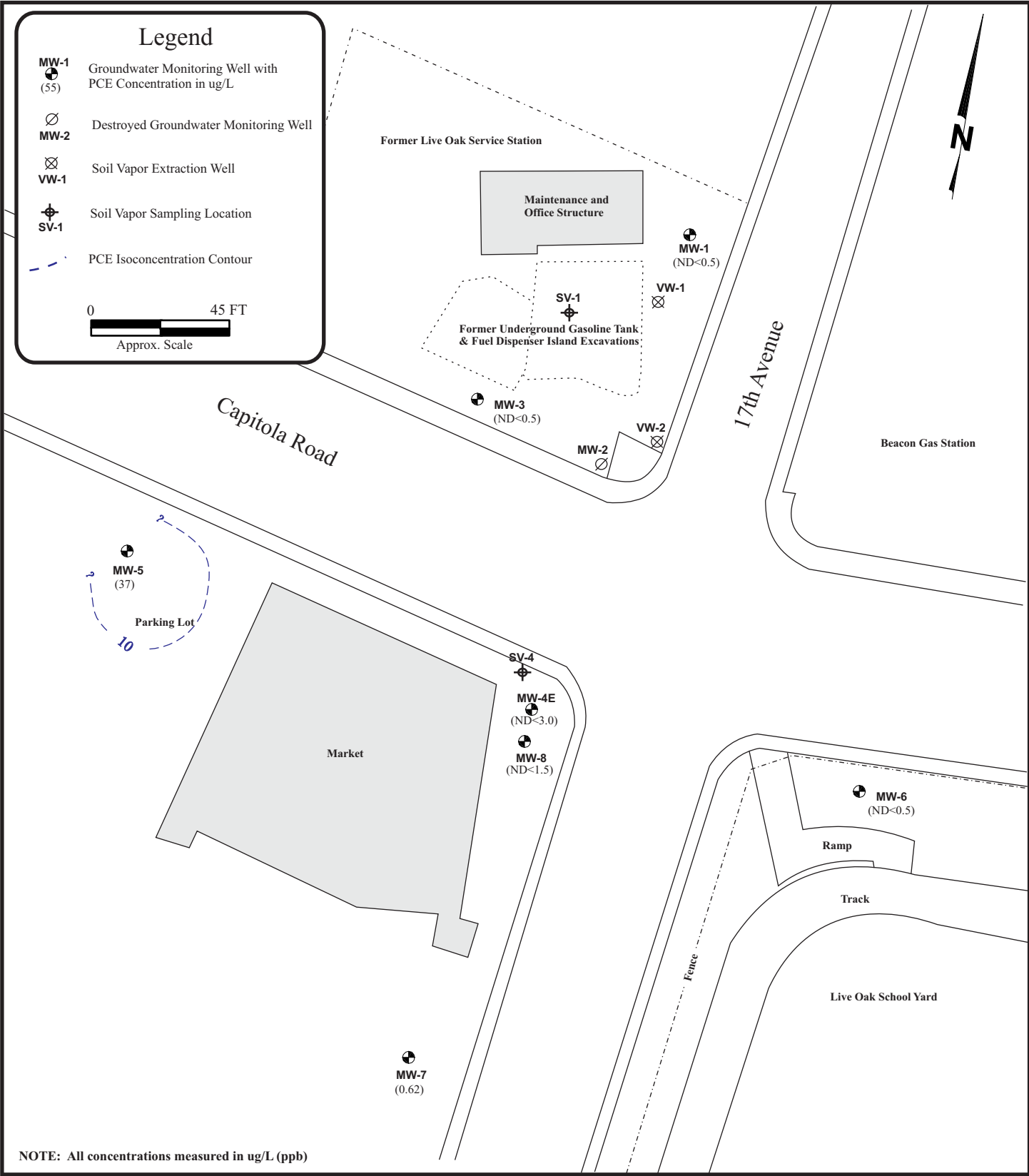


**Former Live Oak Service Station  
1671 Capitola Rd.  
Santa Cruz, California**

**December 15, 2009  
PCE Isoconcentration Map**

**Figure**

**5D**



**Former Live Oak Service Station  
1671 Capitola Rd.  
Santa Cruz, California**

**October 22, 2008  
PCE Isoconcentration Map**

**Figure**

**5E**



1671 Capitola Road, Santa Cruz, California 95062

## **TABLES**

**TABLE 1**  
**SUMMARY OF CURRENT GROUNDWATER MONITORING DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**  
**March 27, 2012**

Well ID	TOC Elev. (feet MSL)	Depth to GW (feet BTOC)	GW Elev. (feet MSL)	TPHg µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MtBE µg/L	PCE µg/L
MW-1	81.44	23.59	57.85	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
MW-3	80.45	23.15	57.30	<b>1,900</b>	<0.5	<0.5	<b>55</b>	<b>140</b>	<0.5	<b>1.4</b>
MW-4E	79.74	23.28	56.46	<b>990</b>	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
MW-5	79.19	22.77	56.42	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<b>55</b>
MW-6	77.70	20.07	57.63	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5
MW-7	75.94	20.07	55.87	<b>360</b>	<0.5	<0.5	<b>0.94</b>	<1.0	<0.5	<b>1.6</b>
MW-8	79.73	23.28	56.45	<b>4,200</b>	<2.5	<2.5	<b>200</b>	<b>56</b>	<2.5	<2.5

Notes:

TOC = Top of Casing Elevation

GW = Ground Water

BTOC = Below Top of Casing

µg/L = micrograms per liter = parts per billion = ppb

<0.5 / ND = Not present at or above reporting detection limit

TPHg = Total Petroleum Hydrocarbons as gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total Xylenes

MtBE = Methyl-t-butyl ether

PCE = Tetrachloroethene

**TABLE 2**  
**SUMMARY OF HISTORICAL GROUNDWATER ELEVATION DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Date	TOC Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)	Free Product Thickness (feet)	GW Elevation Change (feet)
MW-1	04/10/95	81.26	26.11	55.15	---	---
	04/25/95	81.26	26.11	55.15	---	0.00
	06/07/95	81.26	25.91	55.35	---	0.20
	12/12/95	81.26	25.32	55.94	---	---
	01/22/96	81.26	25.95	55.31	---	---
	03/04/96	81.26	25.55	55.71	---	---
	06/07/96	81.26	24.96	56.30	---	---
	09/11/96	81.26	25.5	55.76	---	-0.54
	12/11/96	81.26	25.05	56.21	---	0.45
	03/07/97	81.26	24.08	57.18	---	0.97
	06/03/97	81.26	23.9	57.36	---	0.18
	09/08/97	81.26	24.32	56.94	---	-0.42
	11/20/97	81.26	24.62	56.64	---	-0.30
	12/22/97	81.26	24.46	56.80	---	0.16
	03/25/98	81.26	22.89	58.37	---	1.57
	06/29/98	81.26	22.17	59.09	---	0.72
	09/15/98	81.26	22.45	58.81	---	---
	12/29/98	81.26	22.91	58.35	---	-0.46
	03/05/99	81.26	22.3	58.96	---	0.61
	06/24/99	81.26	21.98	59.28	---	0.32
	08/25/99	81.26	22.32	58.94	---	-0.34
	12/13/99	81.26	22.94	58.32	---	-0.62
	03/16/00	81.26	22.35	58.91	---	0.59
	11/07/00	81.26	23.05	58.21	---	-0.70
	04/24/01	81.26	22.85	58.41	---	0.20
	09/24/01	81.26	23.43	57.83	---	-0.58
	04/09/02	81.44	23.01	58.43	---	0.60
	10/30/02	81.44	23.9	57.54	---	-0.89
	04/22/03	81.44	23.55	57.89	---	0.35
	10/14/03	81.44	24.08	57.36	---	-0.53
	04/28/04	81.44	23.54	57.90	---	0.54
	10/28/04	81.44	23.82	57.62	---	-0.28
	04/22/05	81.44	22.85	58.59	---	0.97
	10/19/05	81.44	23.08	58.36	---	-0.23
	04/25/06	81.44	21.54	59.90	---	1.54
	07/17/06	81.44	21.48	59.96	---	0.06
10/26/06	81.44	22.24	59.20	---	-0.76	
01/31/07	81.44	22.61	58.83	---	-0.37	
04/17/07	81.44	22.64	58.80	---	-0.03	
07/26/07	81.44	22.99	58.45	---	-0.35	
10/25/07	81.44	23.4	58.04	---	-0.41	
04/24/08	81.44	18.71	62.73	---	4.69	
10/22/08	81.44	24.13	57.31	---	-5.42	
03/18/09	81.44	22.91	58.53	---	1.22	
12/14/09	81.44	25	56.44	---	-2.09	
12/06/10	81.44	24.39	57.05	---	0.61	
03/27/12	81.44	23.59	57.85	---	0.80	

**TABLE 2**  
**SUMMARY OF HISTORICAL GROUNDWATER ELEVATION DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Date	TOC Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)	Free Product Thickness (feet)	GW Elevation Change (feet)
MW-2	04/10/95	80.17	25.76	54.41	---	---
	04/25/95	80.17	25.72	54.45	---	0.04
	06/07/95	80.17	25.49	54.68	---	0.23
	12/12/95	80.17	25.35	54.82	---	0.14
	01/22/96	80.17	25.4	54.77	---	-0.05
	03/04/96	80.17	25	55.17	---	0.40
	06/07/96	80.17	24.31	55.86	---	0.69
	09/11/96	80.17	24.35	55.82	---	-0.04
	12/11/96	80.17	24.46	55.71	---	-0.11
	03/07/97	80.17	23.41	56.76	---	1.05
	06/03/97	80.17	23.25	56.92	---	0.16
	09/08/97	80.17	23.67	56.50	---	-0.42
	11/20/97	80.17	24	56.17	---	-0.33
	12/22/97	80.17	23.82	56.35	---	0.18
	03/25/98	80.17	22.21	57.96	---	1.61
	06/29/98	80.17	21.51	58.66	---	0.70
	09/15/98	80.17	21.77	58.40	---	-0.26
	12/29/98	80.17	22.28	57.89	---	-0.51
	03/05/99	80.17	21.67	58.50	---	0.61
	06/24/99	80.17	21.33	58.84	---	0.34
	08/25/99	80.17	21.68	58.49	---	-0.35
	12/13/99	80.17	22.29	57.88	---	-0.61
	03/16/00	80.17	21.72	58.45	---	0.57
11/07/00	80.17	22.41	57.76	---	-0.69	
04/24/01	80.17	22.23	57.94	---	0.18	
09/24/01	80.17	---	---	---	---	
04/09/02	80.17	22.42	57.75	---	---	

Well Destroyed by Pressure Grouting on April 18, 2002



**TABLE 2**  
**SUMMARY OF HISTORICAL GROUNDWATER ELEVATION DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Date	TOC Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)	Free Product Thickness (feet)	GW Elevation Change (feet)
MW-3	04/10/95	80.39	25.75	54.64	---	---
	04/25/95	80.39	25.73	54.66	---	0.02
	06/07/95	80.39	25.51	54.88	---	0.22
	12/12/95	80.39	24.96	55.43	---	0.55
	01/22/96	80.39	25.45	54.94	---	-0.49
	03/04/96	80.39	25.05	55.34	---	0.40
	06/07/96	80.39	24.39	56.00	---	0.66
	09/11/96	80.39	24.45	55.94	---	-0.06
	12/11/96	80.39	24.51	55.88	---	-0.06
	03/07/97	80.39	23.50	56.89	---	1.01
	06/03/97	80.39	23.36	57.03	---	0.14
	09/08/97	80.39	23.78	56.61	---	-0.42
	11/20/97	80.39	24.10	56.29	---	-0.32
	12/22/97	80.39	23.92	56.47	---	0.18
	03/25/98	80.39	22.32	58.07	---	1.60
	06/29/98	80.39	21.65	58.74	---	0.67
	09/15/98	80.39	21.91	58.48	---	-0.26
	12/29/98	80.39	22.39	58.00	---	-0.48
	03/05/99	80.39	21.80	58.59	---	0.59
	06/24/99	80.39	21.48	58.91	---	0.32
	08/25/99	80.39	21.83	58.56	---	-0.35
	12/13/99	80.39	22.43	57.96	---	-0.60
	03/16/00	80.39	21.83	58.56	---	0.60
	11/07/00	80.39	22.54	57.85	---	-0.71
	04/24/01	80.39	22.33	58.06	---	0.21
	09/24/01	80.39	22.91	57.48	---	-0.58
	04/09/02	80.45	22.52	57.93	---	0.45
	10/30/02	80.45	23.36	57.09	---	-0.84
	04/22/03	80.45	23.07	57.38	---	0.29
	10/14/03	80.45	23.57	56.88	---	-0.50
	04/28/04	80.45	23.03	57.42	---	0.54
	10/28/04	80.45	24.30	56.15	---	-1.27
	04/22/05	80.45	22.35	58.10	---	1.95
	10/19/05	80.45	---	---	---	---
	04/25/06	80.45	21.13	59.32	---	---
	07/17/06	80.45	20.91	59.54	---	0.22
10/26/06	80.45	21.71	58.74	---	-0.80	
01/31/07	80.45	22.16	58.29	---	-0.45	
04/17/07	80.45	22.19	58.26	---	-0.03	
07/26/07	80.45	22.52	57.93	---	-0.33	
10/25/07	80.45	22.98	57.47	---	-0.46	
04/24/08	80.45	22.82	57.63	---	0.16	
10/22/08	80.45	23.68	56.77	---	-0.86	
03/18/09	80.45	21.54	58.91	---	2.14	
12/14/09	80.45	24.55	55.90	---	-3.01	
12/06/10	80.45	23.94	56.51	---	0.61	
03/27/12	80.45	23.15	57.30	---	0.79	

**TABLE 2**  
**SUMMARY OF HISTORICAL GROUNDWATER ELEVATION DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Date	TOC Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)	Free Product Thickness (feet)	GW Elevation Change (feet)
MW-4	01/22/96	79.80	---	54.10	---	---
	03/04/96	79.80	25.64	54.16	---	---
	06/07/96	79.80	24.54	55.26	---	1.10
	09/11/96	79.80	24.60	55.20	---	-0.06
	12/11/96	79.80	24.80	55.00	---	-0.20
	03/07/97	79.80	23.52	56.28	---	1.28
	06/03/97	79.80	23.41	56.39	---	0.11
	09/08/97	79.80	23.92	55.88	---	-0.51
	11/20/97	79.80	24.34	55.46	---	-0.42
	12/22/97	79.80	24.09	55.71	---	0.25
	03/25/98	79.80	22.28	57.52	---	1.81
	06/29/98	79.80	21.54	58.26	---	0.74
	09/15/98	79.80	21.86	57.94	---	-0.32
	12/29/98	79.80	22.44	57.36	---	-0.58
	03/05/99	79.80	21.80	58.00	---	0.64
	06/24/99	79.80	21.41	58.39	---	0.39
	08/25/99	79.80	21.80	58.00	---	-0.39
	12/13/99	79.80	22.50	57.30	---	-0.70
	03/16/00	79.80	21.86	57.94	---	0.64
	11/07/00	79.80	22.58	57.22	---	-0.72
	04/24/01	79.80	22.36	57.44	---	0.22
	09/24/01	79.80	22.94	56.86	---	-0.58
	04/09/02	79.87	23.51	56.36	---	-0.50
	10/30/02	79.87	23.45	56.42	---	0.06
	04/22/03	79.87	23.22	56.65	---	0.23
	10/14/03	79.87	23.71	56.16	---	-0.49
	04/28/04	79.87	23.24	56.63	---	0.47
	10/28/04	79.87	24.00	55.87	---	-0.76
	04/22/05	79.87	22.38	57.49	---	1.62
	10/19/05	79.87	22.70	57.17	---	-0.32
	04/25/06	79.87	21.14	58.73	---	1.56
	07/17/06	79.87	20.97	58.90	---	0.17
10/26/06	79.87	21.48	58.39	---	-0.51	
01/31/07	79.87	21.92	57.95	---	-0.44	
04/17/07	79.87	21.98	57.89	---	-0.06	
07/26/07	79.87	22.38	57.49	---	-0.40	
10/25/07	79.87	22.88	56.99	---	-0.50	
04/24/08	79.87	22.71	57.16	---	0.17	
10/22/08	79.87	23.60	56.27	---	-0.89	
03/18/09	79.87	21.48	58.39	---	2.12	
12/14/09	79.87	24.57	55.30	---	-3.09	
Well MW-4 Replaced by MW-4E on August 12, 2010						

**TABLE 2**  
**SUMMARY OF HISTORICAL GROUNDWATER ELEVATION DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Date	TOC Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)	Free Product Thickness (feet)	GW Elevation Change (feet)
<b>MW-4E*</b>	08/27/10	79.74	29.07	50.67	---	---
	09/16/10	79.74	28.45	51.29	---	0.62
	10/07/10	79.74	27.20	52.54	---	1.25
	10/19/10	79.74	27.17	52.57	---	0.03
	10/27/10	79.74	25.83	53.91	---	1.34
	11/06/10	79.74	26.19	53.55	---	-0.36
	11/16/10	79.74	28.80	50.94	---	-2.61
	12/02/10	79.74	25.02	54.72	---	3.78
	03/27/12	79.74	23.28	56.46	---	1.74

**TABLE 2**  
**SUMMARY OF HISTORICAL GROUNDWATER ELEVATION DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Date	TOC Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)	Free Product Thickness (feet)	GW Elevation Change (feet)
MW-5	12/22/97	79.19	23.41	55.78	---	---
	03/25/98	79.19	21.40	57.79	---	2.01
	06/29/98	79.19	21.04	58.15	---	0.36
	09/15/98	79.19	21.36	57.83	---	-0.32
	12/29/98	79.19	21.88	57.31	---	-0.52
	03/05/99	79.19	21.27	57.92	---	0.61
	06/24/99	79.19	20.92	58.27	---	0.35
	08/25/99	79.19	21.31	57.88	---	-0.39
	12/13/99	79.19	21.93	57.26	---	-0.62
	03/16/00	79.19	21.31	57.88	---	0.62
	11/07/00	79.19	22.00	57.19	---	-0.69
	04/24/01	79.19	21.79	57.40	---	0.21
	09/24/01	79.19	22.42	56.77	---	-0.63
	04/09/02	79.19	22.02	57.17	---	0.40
	10/30/02	79.19	22.91	56.28	---	-0.89
	04/22/03	79.19	22.58	56.61	---	0.33
	10/14/03	79.19	23.15	56.04	---	-0.57
	04/28/04	79.19	22.59	56.60	---	0.56
	10/28/04	79.19	23.36	55.83	---	-0.77
	04/22/05	79.19	21.84	57.35	---	1.52
	10/19/05	79.19	22.13	57.06	---	-0.29
	04/25/06	79.19	20.42	58.77	---	1.71
	07/17/06	79.19	---	---	---	---
	10/26/06	79.19	---	---	---	---
	01/31/07	79.19	---	---	---	---
	04/17/07	79.19	---	---	---	---
	07/26/07	79.19	---	---	---	---
	10/25/07	79.19	---	---	---	---
	04/24/08	79.19	---	---	---	---
	10/22/08	79.19	23.22	55.97	---	---
	03/18/09	79.19	21.01	58.18	---	2.21
	12/14/09	79.19	24.14	55.05	---	-3.13
12/06/10	79.19	23.51	55.68	---	0.63	
03/27/12	79.19	22.77	56.42	---	0.74	

**TABLE 2**  
**SUMMARY OF HISTORICAL GROUNDWATER ELEVATION DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Date	TOC Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)	Free Product Thickness (feet)	GW Elevation Change (feet)
MW-6	12/22/97	77.70	21.85	55.85	---	---
	03/25/98	77.70	20.10	57.60	---	1.75
	06/29/98	77.70	19.31	58.39	---	0.79
	09/15/98	77.70	19.63	58.07	---	-0.32
	12/29/98	77.70	20.18	57.52	---	-0.55
	03/05/99	77.70	19.53	58.17	---	0.65
	06/24/99	77.70	19.13	58.57	---	0.40
	08/25/99	77.70	19.55	58.15	---	-0.42
	12/13/99	77.70	20.22	57.48	---	-0.67
	03/16/00	77.70	19.51	58.19	---	0.71
	11/07/00	77.70	20.31	57.39	---	-0.80
	04/24/01	77.70	20.13	57.57	---	0.18
	09/24/01	77.70	20.79	56.91	---	-0.66
	04/09/02	77.70	23.01	54.69	---	-2.22
	10/30/02	77.70	21.30	56.40	---	1.71
	04/22/03	77.70	20.93	56.77	---	0.37
	10/14/03	77.70	21.56	56.14	---	-0.63
	04/28/04	77.70	20.92	56.78	---	0.64
	10/28/04	77.70	21.72	55.98	---	-0.80
	04/22/05	77.70	20.10	57.60	---	1.62
	10/19/05	77.70	---	---	---	---
	04/25/06	77.70	18.96	58.74	---	---
	07/17/06	77.70	---	---	---	---
	10/26/06	77.70	---	---	---	---
	01/31/07	77.70	---	---	---	---
	04/17/07	77.70	---	---	---	---
	07/26/07	77.70	---	---	---	---
	10/25/07	77.70	---	---	---	---
	04/24/08	77.70	---	---	---	---
	10/22/08	77.70	21.55	56.15	---	---
	03/18/09	77.70	20.04	57.66	---	1.51
	12/14/09	77.70	22.55	55.15	---	-2.51
12/06/10	77.70	21.90	55.80	---	0.65	
03/27/12	77.70	20.07	57.63	---	1.83	

**TABLE 2**  
**SUMMARY OF HISTORICAL GROUNDWATER ELEVATION DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Date	TOC Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)	Free Product Thickness (feet)	GW Elevation Change (feet)
MW-7	12/22/97	75.92	20.83	55.09	---	---
	03/25/98	75.92	18.87	57.05	---	1.96
	06/29/98	75.92	18.20	57.72	---	0.67
	09/15/98	75.92	18.57	57.35	---	-0.37
	12/29/98	75.92	19.15	56.77	---	-0.58
	03/05/99	75.92	18.45	57.47	---	0.70
	06/24/99	75.92	18.04	57.88	---	0.41
	08/25/99	75.92	18.51	57.41	---	-0.47
	12/13/99	75.92	19.16	56.76	---	-0.65
	03/16/00	75.92	18.44	57.48	---	0.72
	11/07/00	75.92	19.28	56.64	---	-0.84
	04/24/01	75.92	19.02	56.90	---	0.26
	09/24/01	75.92	19.77	56.15	---	-0.75
	04/09/02	75.94	19.27	56.67	---	0.52
	10/30/02	75.94	20.25	55.69	---	-0.98
	04/22/03	75.94	19.89	56.05	---	0.36
	10/14/03	75.94	20.43	55.51	---	-0.54
	04/28/04	75.94	19.90	56.04	---	0.53
	10/28/04	75.94	20.72	55.22	---	-0.82
	04/22/05	75.94	19.00	56.94	---	1.72
	10/19/05	75.94	19.35	56.59	---	-0.35
	04/25/06	75.94	17.58	58.36	---	1.77
	07/17/06	75.94	17.58	58.36	---	0.00
	11/09/06	75.94	---	---	---	---
	10/26/06	75.94	18.44	57.50	---	-0.86
	01/31/07	75.94	18.83	57.11	---	-0.39
	04/17/07	75.94	18.92	57.02	---	-0.09
	07/26/07	75.94	19.36	56.58	---	-0.44
	10/25/07	75.94	19.83	56.11	---	-0.47
	04/24/08	75.94	19.61	56.33	---	0.22
10/22/08	75.94	20.61	55.33	---	-1.00	
03/18/09	75.94	18.32	57.62	---	2.29	
12/14/09	75.94	21.55	54.39	---	-3.23	
12/06/10	75.94	20.89	55.05	---	0.66	
03/27/12	75.94	20.07	55.87	---	0.82	

**TABLE 2**  
**SUMMARY OF HISTORICAL GROUNDWATER ELEVATION DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Date	TOC Elevation (feet)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet)	Free Product Thickness (feet)	GW Elevation Change (feet)
MW-8	07/14/06	79.73	21.19	58.54	---	---
	07/17/06	79.73	20.86	58.87	---	0.33
	10/26/06	79.73	21.67	58.06	---	-0.81
	11/09/06	79.73	---	---	---	---
	01/31/07	79.73	22.06	57.67	---	---
	04/17/07	79.73	22.13	57.60	---	-0.07
	07/26/07	79.73	22.67	57.06	---	-0.54
	10/25/07	79.73	22.98	56.75	---	-0.31
	04/24/08	79.73	22.85	56.88	---	0.13
	10/22/08	79.73	23.75	55.98	---	-0.90
	03/18/09	79.73	21.91	57.82	---	1.84
	12/14/09	79.73	24.72	55.01	---	-2.81
	12/07/09	79.73	24.07	55.66	---	0.65
03/27/12	79.73	23.28	56.45	---	0.79	

**NOTES:**

TOC = Top of Casing

NM = Not Measured

BTOC = Below Top of Casing

Data from April 1995 to December 2010 were obtained from the *Groundwater Monitoring and iSOC Operation and Maintenance Report - Fourth Quarter 2010* produced by Clearwater Group dated February 3, 2011

**TABLE 3**  
**SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL DATA**  
**FORMER LIVE OAK SERVICE STATION**

**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Sample Date	TPHg µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MtBE µg/L	1,2-EDB µg/L	1,2-DCA µg/L	PCE µg/L	DO mg/L	ORP mV	
MW-1	04/10/95	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	
	04/25/95	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	
	06/07/95	<50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	
	09/08/95	<50	<0.5	<0.5	<0.5	<0.5	---	---	<0.5	---	---	---	
	12/12/95	<50	<0.5	0.5	1.50	3.80	---	---	---	---	---	---	
	01/22/96	---	---	---	---	---	---	---	---	---	---	---	---
	03/01/96	<50	<0.5	1.20	<0.5	2.50	<5.0	---	<0.5	---	---	---	---
	03/04/96	---	---	---	---	---	---	---	---	---	---	---	---
	06/07/96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---	---
	09/11/96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---	---
	12/11/96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---	---
	03/07/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	---	<0.5	---	---	---	---
	06/03/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---	---
	09/08/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---	---
	11/20/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---	---
	12/22/97	---	---	---	---	---	---	---	---	---	---	---	---
	03/25/98	---	---	---	---	---	---	---	---	---	---	---	---
	06/29/98	---	---	---	---	---	---	---	---	---	---	2.2	300
	09/15/98	---	---	---	---	---	---	---	---	---	---	2.800	75.000
	12/29/98	---	---	---	---	---	---	---	---	---	---	1.4	235
	03/05/99	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	---	<0.5	---	---	---
	06/24/99	---	---	---	---	---	---	---	---	---	---	---	---
	08/25/99	---	---	---	---	---	---	---	---	---	---	---	---
	12/13/99	---	---	---	---	---	---	---	---	---	---	---	---
	03/16/00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
	11/07/00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
	04/24/01	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
	09/24/01	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
04/09/02	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	4.2	-12	
10/30/02	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	1.4	9	
04/22/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	1.5	41	
10/14/03	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	1.4	48	
04/28/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	0.2	111	



**TABLE 3**  
**SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Sample Date	TPHg µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MtBE µg/L	1,2-EDB µg/L	1,2-DCA µg/L	PCE µg/L	DO mg/L	ORP mV
<b>MW-1 cont.</b>	10/28/04	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	0.3	109
	04/22/05	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	0.9	11
	10/19/05	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	0.5	43
	04/25/06	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	0.9	19
	07/17/06	---	---	---	---	---	---	---	---	---	0.13	50
	10/26/06	---	---	---	---	---	---	---	---	---	---	---
	01/31/07	---	---	---	---	---	---	---	---	---	---	---
	04/17/07	<50	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	0.63	165
	07/26/07	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	1.23	144
	10/25/07	<50	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	0.12	205
	04/24/08	---	---	---	---	---	---	---	---	---	3.21	117.1
	10/22/08	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.5	2.3	-137.8
	03/18/09	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	1.0	1.81	-127.9
	12/14/09	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.5	0.75	-132.5
	12/06/10	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---	<0.5	0.49	166.3
03/27/12	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	1.4	3.4	187

**TABLE 3**  
**SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL DATA**  
**FORMER LIVE OAK SERVICE STATION**

**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Sample Date	TPHg µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MtBE µg/L	1,2-EDB µg/L	1,2-DCA µg/L	PCE µg/L	DO mg/L	ORP mV
MW-2	04/10/95	3,800	1.7	4.4	20.00	210	---	---	---	---	---	---
	04/25/95	2,000	1.3	2.2	6.5	82	---	---	---	---	---	---
	06/07/95	680	1.4	<0.5	5.1	---	---	---	---	---	---	---
	09/08/95	700	4.5	0.61	17	---	---	---	<0.5	---	---	---
	12/12/95	320	1.9	1.1	8.8	---	---	---	---	---	---	---
	01/22/96	---	---	---	---	---	---	---	---	---	---	---
	03/01/96	220	3.3	<0.5	4.2	---	---	---	<0.5	---	---	---
	03/04/96	---	---	---	---	---	---	---	---	---	---	---
	06/07/96	450	5.60	1	16	---	---	---	---	---	---	---
	09/11/96	180	0.55	<0.5	7	---	---	---	---	---	---	---
	12/11/96	2,000	8.70	4.3	86	---	---	---	---	---	---	---
	03/07/97	1,100	5.30	2.9	45	---	---	---	<0.5	---	---	---
	06/03/97	1,000	4.40	3.2	51	140	<5.0	---	---	---	---	---
	09/08/97	230	0.92	0.61	9.6	31	<5.0	---	---	---	---	---
	11/20/97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---
	12/22/97	---	---	---	---	---	---	---	---	---	---	---
	03/25/98	3,000	4.10	4.7	190	520	<5.0	<0.5	<0.5	---	---	---
	06/29/98	4,100	2.00	6.3	320	500	<5.0	---	---	---	2	105
	09/15/98	4,300	3.70	8.00	310.00	860	<10	---	---	---	---	---
	12/29/98	1,400	<0.5	<0.5	39.00	91	<5.0	---	---	---	---	---
	03/05/99	730	<0.5	<0.5	26.00	68	<5.0	---	<0.5	---	---	---
	06/24/99	830	<0.5	<0.5	29.00	49	<5.0	---	---	---	---	---
	08/25/99	1,700	<0.5	<0.5	31.00	62	<5.0	---	---	---	---	---
12/13/99	890	<0.5	<0.5	26.00	59	<5.0	---	---	---	---	---	
03/16/00	1,000	<0.5	2.7	44.00	82	<5.0	---	---	---	---	---	
11/07/00	650	<0.5	1.9	22.00	48	<1.0	---	---	---	---	---	
04/24/01	250	<0.5	1.7	23.00	21	<1.0	---	---	---	---	---	
04/09/02	---	---	---	---	---	---	---	---	---	---	---	

Well Destroyed by Pressure Grouting on April 18, 2002

**TABLE 3**  
**SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL DATA**  
**FORMER LIVE OAK SERVICE STATION**

**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Sample Date	TPHg µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MtBE µg/L	1,2-EDB µg/L	1,2-DCA µg/L	PCE µg/L	DO mg/L	ORP mV
MW-3	04/10/95	4,200	4	6	3	140	---	---	---	---	---	---
	04/25/95	5,500	21	11	5	200	---	---	---	---	---	---
	06/07/95	5,400	66	27	72	270	---	---	---	---	---	---
	09/08/95	11,000	170	280	680	1,700	---	---	16	---	---	---
	12/12/95	12,000	120	280	640	1,600	---	---	---	---	---	---
	01/22/96	---	---	---	---	---	---	---	---	---	---	---
	03/01/96	14,000	84	240	680	1,800	<40	---	3	---	---	---
	03/04/96	---	---	---	---	---	---	---	---	---	---	---
	06/07/96	3,800	15	10	160	280	<6.0	---	---	---	---	---
	09/11/96	9,800	38	160	820	2,000	<15	---	---	---	---	---
	12/11/96	15,000	39	210	940	3,400	<5.0	---	---	---	---	---
	03/07/97	8,100	9.5	36	470	1,600	<5.5	---	2	---	---	---
	06/03/97	17,000	36	260	1,100	3,500	<9.0	---	---	---	---	---
	09/08/97	28,000	52	500	1,900	6,900	<40	---	---	---	---	---
	11/20/97	450	0.9	1	23	62	<5.0	---	---	---	---	---
	12/22/97	---	---	---	---	---	---	---	---	---	---	---
	03/25/98	9,000	9.4	22	650	1,700	<5.0	<0.5	1	---	---	---
	06/29/98	16,000	6.6	110	1,200	3,900	<20	---	<0.5	---	1.500	20.000
	09/15/98	20,000	<5.0	240	1,900	5,700	<100	---	---	---	---	---
	12/29/98	19,000	14.0	210	1,400	6,400	<20	---	---	---	---	---
	03/05/99	---	---	---	---	---	---	---	---	---	---	---
	03/31/99	18,000	<1.0	100	910	4,500	<20	---	<0.5	---	---	---
	06/24/99	6,300	<0.5	39	320	1,500	<1.0	---	---	---	---	---
	08/25/99	29,000	15	240	1,600	7,700	<2.5	---	---	---	---	---
	12/13/99	23,000	7.3	160	1,400	6,200	<10	---	---	---	---	---
	03/16/00	25,000	<10	160	1,100	6,200	<1.0	---	---	---	---	---
11/07/00	30,000	<1.6	116	1,400	7,000	<8.5	---	---	---	---	---	
04/24/01	26,000	<3.0	110	1,300	7,100	<10	---	---	---	---	---	
09/24/01	36,000	<2.5	170	2,200	12,000	<30	---	---	---	---	---	
04/09/02	14,000	<25	37	610	3,100	<5.0	---	---	---	3	-14.00	
10/30/02	22,000	<50	85	970	5,100	<5.0	---	---	---	1	-64.00	
04/22/03	39,000	<17	67	1,700	9,000	<50	---	---	---	1	8.00	
10/14/03	28,000	<50	<50	1,400	6,900	<25	---	---	---	1	-72.00	

**TABLE 3**  
**SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Sample Date	TPHg µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MtBE µg/L	1,2-EDB µg/L	1,2-DCA µg/L	PCE µg/L	DO mg/L	ORP mV
MW-3 cont.	04/28/04	10,000	<10	<10	500	2,500	<1.0	---	---	---	0	-57.00
	10/28/04	20,000	<5.0	16	880	4,000	<5.0	---	---	---	0	-50.00
	04/22/05	12,000	<5.0	10	600	2,600	<5.0	---	---	---	1	92.00
	10/19/05	Well inaccessible due to parked car										
	04/25/06	5,000	<5.0	<5.0	330	1,300	<2.5	---	---	---	1	106.00
	07/14/06	---	---	---	---	---	---	---	---	---	---	---
	07/17/06	8,300	<2.5	9	250	1,100	<25	---	---	---	0	-54.00
	10/26/06	Lab courier misplaced samples / Re-sampled 11/9/2006										
	11/09/06	1,100	<0.5	1	31	150	<0.5	---	---	---	---	---
	01/31/07	14,000	<10	12	400	2,000	<100	---	---	---	11	-30.00
	04/17/07	3,300	<0.5	5	170	750	<5.0	---	---	---	18	-35.00
	07/26/07	19,000	<5.0	7	860	4,700	<0.5	---	---	---	16	0.00
	10/25/07	7,200	<10	<10	330	1,900	<0.5	---	---	---	24	-54.00
	04/24/08	240	<0.50	<0.50	17	51	<0.50	---	---	0.64	30	184.20
	10/22/08	12,000	<0.50	<0.50	600	1,800	<0.50	---	---	<0.5	21	-172.50
	03/18/09	2,200	<0.90	<0.90	88	400	<0.90	---	---	1.0	23	-168.10
12/14/09	470	<0.50	<0.50	17	29	<0.50	---	---	<0.5	1	-204.10	
12/06/10	1,600	<0.50	<0.50	54	150	<0.50	---	---	<0.5	9	5.20	
03/27/12	1,900	<0.50	<0.50	55	140	<0.50	<0.50	<0.50	1.4	2.5	270	

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**SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Sample Date	TPHg µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MtBE µg/L	1,2-EDB µg/L	1,2-DCA µg/L	PCE µg/L	DO mg/L	ORP mV
MW-4	01/22/96	75,000	48	1,500	3,000	14,000	---	---	---	---	---	---
	03/04/96	---	---	---	---	---	---	---	---	---	---	---
	04/02/96	---	---	---	---	---	---	---	---	---	---	---
	04/09/96	---	---	---	---	---	---	---	---	---	---	---
	04/11/96	---	---	---	---	---	---	---	---	---	---	---
	04/15/96	---	---	---	---	---	---	---	---	---	---	---
	05/10/96	---	---	---	---	---	---	---	---	---	---	---
	05/30/96	---	---	---	---	---	---	---	---	---	---	---
	06/07/96	74,000	75	1,100	3,300	16,000	390	---	---	---	---	---
	07/17/96	---	---	---	---	---	---	---	---	---	---	---
	09/11/96	---	---	---	---	---	---	---	---	---	---	---
	09/25/96	---	---	---	---	---	---	---	---	---	---	---
	09/26/96	---	---	---	---	---	---	---	---	---	---	---
	09/30/96	---	---	---	---	---	---	---	---	---	---	---
	10/02/96	---	---	---	---	---	---	---	---	---	---	---
	10/14/96	---	---	---	---	---	---	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	---
	10/21/96	---	---	---	---	---	---	---	---	---	---	---
	10/31/96	---	---	---	---	---	---	---	---	---	---	---
	11/26/96	---	---	---	---	---	---	---	---	---	---	---
	12/11/96	---	---	---	---	---	---	---	---	---	---	---
	12/23/96	---	---	---	---	---	---	---	---	---	---	---
	01/09/97	---	---	---	---	---	---	---	---	---	---	---
	02/05/97	---	---	---	---	---	---	---	---	---	---	---
	03/07/97	---	---	---	---	---	---	---	---	---	---	---
	06/03/97	63,000	66	640	2,700	14,000	<490	---	---	---	---	---
	09/08/97	---	---	---	---	---	---	---	---	---	---	---
11/20/97	---	---	---	---	---	---	---	---	---	---	---	
12/22/97	---	---	---	---	---	---	---	---	---	---	---	
03/25/98	---	<85	410	2,200	11,000	<85	<85	<85	---	---	---	
06/29/98	52,000	33	550	2,400	2,400	12,000	<35	---	---	---	1	-20.00
09/15/98	100,000	<10	610	2,100	2,100	9,800	<1,100	---	---	---	2	-71.00
12/29/98	32,000	<10	420	1,700	1,700	8,200	<930	---	---	---	---	<-55

**TABLE 3**  
**SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Sample Date	TPHg µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MtBE µg/L	1,2-EDB µg/L	1,2-DCA µg/L	PCE µg/L	DO mg/L	ORP mV	
MW-4 cont.	03/05/99	---	---	---	---	---	---	---	---	---	---	---	
	03/16/99	31,000	<2.5	340	1,300	5,800	<300	---	<0.5	---	---	---	
	06/24/99	32,000	<5	300	1,300	5,700	<5	---	---	---	---	---	
	08/25/99	32,000	<10	190	1,000	4,200	<10	---	---	---	---	---	
	12/13/99	37,000	<30	280	1,400	6,500	<50	---	---	---	---	---	
	03/16/00	30,000	<13	250	910	3,700	<1.0	---	---	---	---	---	
	11/07/00	48,000	73	340	1,500	5,700	<8.5	---	---	---	---	---	
	04/24/01	80,000	<40	730	1,400	4,800	<10	---	---	---	---	---	
	09/24/01	37,000	15	240	1,700	5,400	<10	---	---	---	---	---	
	04/09/02	620,000	<500	4,600	5,500	20,000	<50	---	---	---	2	-56.00	
	10/30/02	59,000	97	350	3,200	12,000	<10	---	---	---	1	-95.00	
	04/22/03	49,000	47	160	2,200	5,800	<50	---	---	---	1	-51.00	
	10/14/03	47,000	260	140	2,200	6,400	<50	---	---	---	2	-123.00	
	04/28/04	28,000	18	120	1,600	3,600	<5.0	---	---	---	0	-70.00	
	10/28/04	50,000	93	170	2,200	7,000	<5.0H	---	---	---	0	-92.00	
	04/22/05	41,000	<50	110	1,800	4,900	<10	---	---	---	1	110.00	
	10/19/05	26,000	11	76	1,500	2,500	<10	---	---	---	0	-79.00	
	04/25/06	11,000	22	55	780	750	<2.5	---	---	---	1	139.00	
	07/14/06	---	---	---	---	---	---	---	---	---	---	---	---
	07/17/06	32,000	13	110	1,200	1,300	<100	---	---	---	0	-116.00	
	10/26/06	Lab courier misplaced samples / Re-sampled 11/9/2006									---	1	-172.00
	11/09/06	13,000	<5.0	59	560	640	<5.0	---	---	---	---	---	---
	01/31/07	12,000	15	70	340	300	<210	---	---	---	15	-57.00	
	04/17/07	11,000	5.4	61	500	510	<25	---	---	---	1	-83.00	
	07/26/07	6,800	<10	47	360	240	<0.5	---	---	---	12	-48.00	
	10/25/07	6,100	28	43	520	490	<1.7	---	---	---	0	-61.00	
04/24/08	2,500	<0.90	2	120	350	<0.90	---	---	<0.5	34	3.80		
10/22/08	12,000	<0.90	10	1,000	1,400	<0.90	---	---	<3.0	24	-75.20		
03/18/09	12,000	<3.0	6	1,100	1,400	<3.0	---	---	<3.0	22	10.00		
12/14/09	15,000	<3.0	9	1,500	1,500	<3.0	---	---	<3.0	1	-87.60		
MW-4 Destroyed and Replaced by MW-4E													

**TABLE 3**  
**SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Sample Date	TPHg µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MtBE µg/L	1,2-EDB µg/L	1,2-DCA µg/L	PCE µg/L	DO mg/L	ORP mV
MW-4E	08/27/10	13,000	<2.5	<2.5	770.0	1,000.0	<2.5	---	---	---	---	---
	09/16/10	2,500	<0.50	<0.50	94	120	<0.50	---	---	---	---	---
	10/07/10	4,700	<0.90	1	230.0	320.0	<0.90	---	---	---	---	---
	10/19/10	5,200	<0.90	1.6	170.0	390.0	<0.90	---	---	---	---	---
	10/27/10	4,800	<0.90	1.0	130.0	320.0	<0.90	---	---	---	---	---
	11/06/10	4,600	<0.80	1.2	110.0	320.0	<0.80	---	---	---	---	---
	11/16/10	3,300	<0.50	0.8	190.0	280.0	<0.50	---	---	---	---	---
	12/02/10	4,200	<0.50	1.1	130.0	280.0	<0.50	---	---	---	---	---
	03/27/12	990	<0.50	<0.50	<0.50	<1.0	<0.50	<0.5	<0.5	<0.5	2.0	-51.00

**TABLE 3**  
**SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL DATA**  
**FORMER LIVE OAK SERVICE STATION**

**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Sample Date	TPHg µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MtBE µg/L	1,2-EDB µg/L	1,2-DCA µg/L	PCE µg/L	DO mg/L	ORP mV
MW-5	12/22/97	<50	<0.5	<0.5	<0.5	<0.5	170.0	<0.5	<0.5	---	---	---
	03/25/98	190	<0.5	<0.5	<0.5	<0.5	3300.0	<85	<85	---	---	---
	06/29/98	92	<0.5	<0.5	<0.5	<0.5	760.0	---	---	---	---	---
	09/15/98	<50	<0.5	<0.5	<0.5	<0.5	6.2	---	---	---	---	---
	12/29/98	<50	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
	03/05/99	66	<0.5	<0.5	<0.5	<0.5	9.8	---	<0.5	---	---	---
	06/24/99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
	08/25/99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
	12/13/99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
	03/16/00	<50	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
	11/07/00	<50	<0.5	<0.5	<0.5	<0.5	1.4	---	---	---	---	---
	04/24/01	55	<0.5	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
	09/24/01	---	---	---	---	---	---	---	---	---	---	---
	04/09/02	---	---	---	---	---	---	---	---	---	---	---
	10/30/02	---	---	---	---	---	---	---	---	---	---	---
	04/22/03	---	---	---	---	---	---	---	---	---	---	---
	10/14/03	---	---	---	---	---	---	---	---	---	---	---
	04/28/04	---	---	---	---	---	---	---	---	---	---	---
	10/28/04	---	---	---	---	---	---	---	---	---	---	---
	04/22/05	---	---	---	---	---	---	---	---	---	---	---
10/19/05	---	---	---	---	---	---	---	---	---	---	---	
04/25/06	---	---	---	---	---	---	---	---	---	---	---	
10/22/08	62	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	37	1.1	63.3
03/18/09	200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	130	0.9	-14.1
12/14/09	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	12	1.7	286.4
12/06/10	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	12	0.2	160.0
03/27/12	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.5	<0.5	55	2.5	181.0



**TABLE 3**  
**SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Sample Date	TPHg µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MtBE µg/L	1,2-EDB µg/L	1,2-DCA µg/L	PCE µg/L	DO mg/L	ORP mV
MW-6	12/22/97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---	---	---
	03/25/98	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	---	---	---
	06/29/98	<50	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
	09/15/98	---	---	---	---	---	---	---	---	---	---	---
	12/29/98	---	---	---	---	---	---	---	---	---	---	---
	03/05/99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	-	<0.5	---	---	---
	06/24/99	---	---	---	---	---	---	---	---	---	---	---
	08/25/99	---	---	---	---	---	---	---	---	---	---	---
	12/13/99	---	---	---	---	---	---	---	---	---	---	---
	03/16/00	<50	<0.5	<0.5	<0.5	<0.5	<5.0	---	---	---	---	---
	11/07/00	<50	<0.5	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
	04/24/01	<50	<0.5	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
	09/24/01	---	---	---	---	---	---	---	---	---	---	---
	04/09/02	---	---	---	---	---	---	---	---	---	---	---
	10/30/02	---	---	---	---	---	---	---	---	---	---	---
	04/22/03	---	---	---	---	---	---	---	---	---	---	---
	10/14/03	---	---	---	---	---	---	---	---	---	---	---
	04/28/04	---	---	---	---	---	---	---	---	---	---	---
	10/28/04	---	---	---	---	---	---	---	---	---	---	---
	04/22/05	---	---	---	---	---	---	---	---	---	---	---
10/19/05	Well inaccessible due to new tan bark in planter covering well.											
04/25/06	---	---	---	---	---	---	---	---	---	---	---	---
10/22/08	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.9	28.9
03/18/09	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.6	<0.50	<0.50	<0.50	0.8	30.3
12/14/09	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	-159.3
12/06/10	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.2	146.5
03/27/12	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3.1	82.0

**TABLE 3**  
**SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Sample Date	TPHg µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MtBE µg/L	1,2-EDB µg/L	1,2-DCA µg/L	PCE µg/L	DO mg/L	ORP mV	
MW-7	12/22/97	5,100	26	33	560	1,000	<70	<0.5	---	---	---	---	
	03/25/98	2,800	28	5	320	360	<0.5	<0.5	14	---	---	---	
	06/29/98	1,300	18	5	160	230	<5.0	---	15	---	---	---	
	09/15/98	1,200	19	515	120	200	<5.0	---	---	---	---	---	
	12/29/98	1,100	6.8	2	110	200	<20	---	---	---	---	---	
	03/05/99	4,600	18	21	430	800	<120	---	---	---	---	---	
	06/24/99	3,400	4.7	10	320	590	<1.0	---	1	---	---	---	
	08/25/99	510	0.6	2	43	83	<1.0	---	---	---	---	---	
	12/13/99	120	<0.5	<0.5	9	18	<1.0	---	---	---	---	---	
	03/16/00	200	<0.5	2	20	21	<1.0	---	---	---	---	---	
	11/07/00	110	<0.5	<0.5	8	8	<1.0	---	---	---	---	---	
	04/24/01	250	0.53	4	45	27	<1.0	---	---	---	---	---	
	09/24/01	1,500	1.2	11	180	240	<5.0	---	---	---	---	---	
	04/09/02	1,300	1.2	12	160	170	<0.5	---	---	---	4.1	-48.0	
	10/30/02	940	2.6	13	140	51	<0.5	---	---	---	1.4	0.0	
	04/22/03	3,100	7.7	31	430	67	<0.5	---	---	---	1.9	39.0	
	10/14/03	1,600	1.9	9	280	18	<0.5	---	---	---	2.0	0.0	
	04/28/04	380	<0.5	2	71	4	<0.5	---	---	---	0.6	49.0	
	10/28/04	1,200	1.2	5	200	5	<0.5	---	---	---	0.6	-60.0	
	04/22/05	600	0.82	3	110	6	<0.5	---	---	---	0.9	86.0	
	10/19/05	64	<0.5	<0.5	5	<0.5	<0.5	---	---	---	0.3	-32.0	
	04/25/06	190	0.95	3	27	1	<0.5	---	---	---	1.0	103.0	
	07/17/06	300	<0.5	1	30	2	<5.0	---	---	---	0.1	8.0	
	10/26/06	Lab courier misplaced samples / Re-sampled 11/9/2006									---	0.5	130.0
	11/09/06	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	01/31/07	57	<0.5	1	1	<0.5	<5.0	---	---	---	0.3	54.0	
	04/17/07	120	<0.5	3	3	<0.5	<5.0	---	---	---	0.8	38.0	
	07/26/07	<50	<0.5	<0.5	3	<0.5	<0.5	---	---	---	1.3	44.0	
	10/25/07	<50	<0.5	1	4	<0.5	<0.5	---	---	---	0.1	27.0	
	04/24/08	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.0	0.8	13.0
10/22/08	77	<0.50	<0.50	1	<0.50	<0.50	<0.50	<0.50	<0.50	0.62	9.0	-82.5	
03/18/09	300	<0.50	1	24	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.3	-66.8	
12/14/09	760	<0.50	1	87	4	<0.50	<0.50	<0.50	<0.50	<0.50	0.7	-212.6	
12/06/10	670	<0.50	<0.50	1.7	3	<0.50	<0.50	<0.50	<0.50	0.58	0.3	-115.8	
03/27/12	360	<0.50	<0.50	0.9	<1.0	<0.50	<0.50	<0.50	<0.50	1.6	4.0	147.0	

**TABLE 3**  
**SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL DATA**  
**FORMER LIVE OAK SERVICE STATION**  
**1671 Capitola Road**  
**Santa Cruz, California**

Well ID	Sample Date	TPHg µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MtBE µg/L	1,2-EDB µg/L	1,2-DCA µg/L	PCE µg/L	DO mg/L	ORP mV
MW-8	07/14/06	---	---	---	---	---	---	---	---		---	---
	07/17/06	14,000	<5.0	44	460	720	<50	---	---		---	---
	10/26/06	Lab courier misplaced samples / Re-sampled 11/9/2006										
	11/09/06	8,100	8.7	28	660	620	<5.0	---	---		0.7	-127.0
	01/31/07	3,300	14	21	380	270	<10	---	---		0.7	-86.0
	04/17/07	7,000	5	29	640	340	<50	---	---		0.3	-107.0
	07/26/07	5,600	5.9	14	610	270	<2.5	---	---		1.6	-55.0
	10/25/07	4,600	25	22	630	340	<2.5	---	---		0.0	78.0
	04/24/08	4,600	<1.5	4	590	240	<1.5	---	---	<1.5	0.5	1.6
	10/22/08	6,000	<1.5	4	800	280	<1.5	---	---	<1.5	1.9	-116.2
	03/18/09	10,000	<1.5	9	1,400	630	<1.5	---	---	---	2.0	-99.7
	03/18/09	11,000	<2.5	10	1,400	700	<2.5	---	---	<1.5	2.0	-99.1
	12/14/09	11,000	<2.5	8	1,400	460	<2.5	---	---	<2.5	0.7	-88.5
	12/07/10	4,200	<0.50	2	360	150	<0.50	---	---	<0.5	0.4	-136.7
03/27/12	4,200	<2.5	<2.5	200	56	<2.5	<2.5	<2.5	<2.5	2.8	-23.0	

**TABLE 3  
 SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL DATA  
 FORMER LIVE OAK SERVICE STATION**

**1671 Capitola Road  
 Santa Cruz, California**

Well ID	Sample Date	TPHg µg/L	B µg/L	T µg/L	E µg/L	X µg/L	MtBE µg/L	1,2-EDB µg/L	1,2-DCA µg/L	PCE µg/L	DO mg/L	ORP mV
<b>GW-1</b>	02/16/99	<50	<0.5	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
<b>GW-2</b>	02/16/99	<50	<0.5	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
<b>GW-3</b>	02/16/99	<50	<0.5	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---
<b>GW-4</b>	02/16/99	<50	<0.5	<0.5	<0.5	<0.5	<1.0	---	---	---	---	---

**Notes:**

Groundwater data collected from April 10, 1995 to December 6, 2010 were obtained from *Groundwater Monitoring and iSOC Operation and Maintenance Report - Fourth Quarter 2010* produced by Clearwater Group dated February 3, 2011

TPHg = Total petroleum hydrocarbons as gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MtBE = Methyl tertiary butly ether

1,2-EDB = 1,2-Dibromo-ethane

1,2-DCA = 1,2-Dichloro-ethane

DO = Dissolved Oxygen

ORP = Oxidation-Reduction Potential

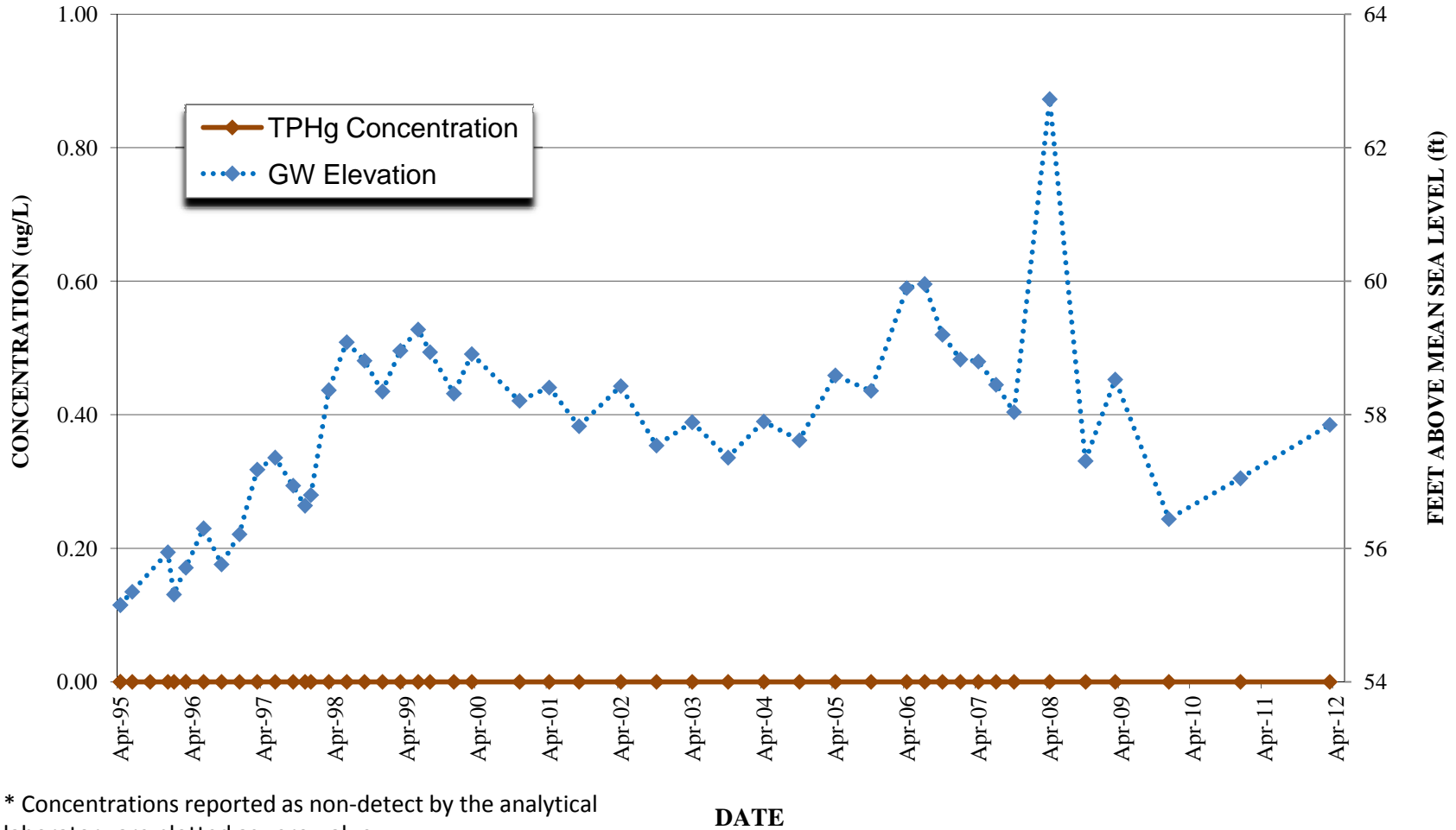
<0.5 / ND = Not present at or above reporting detection limit



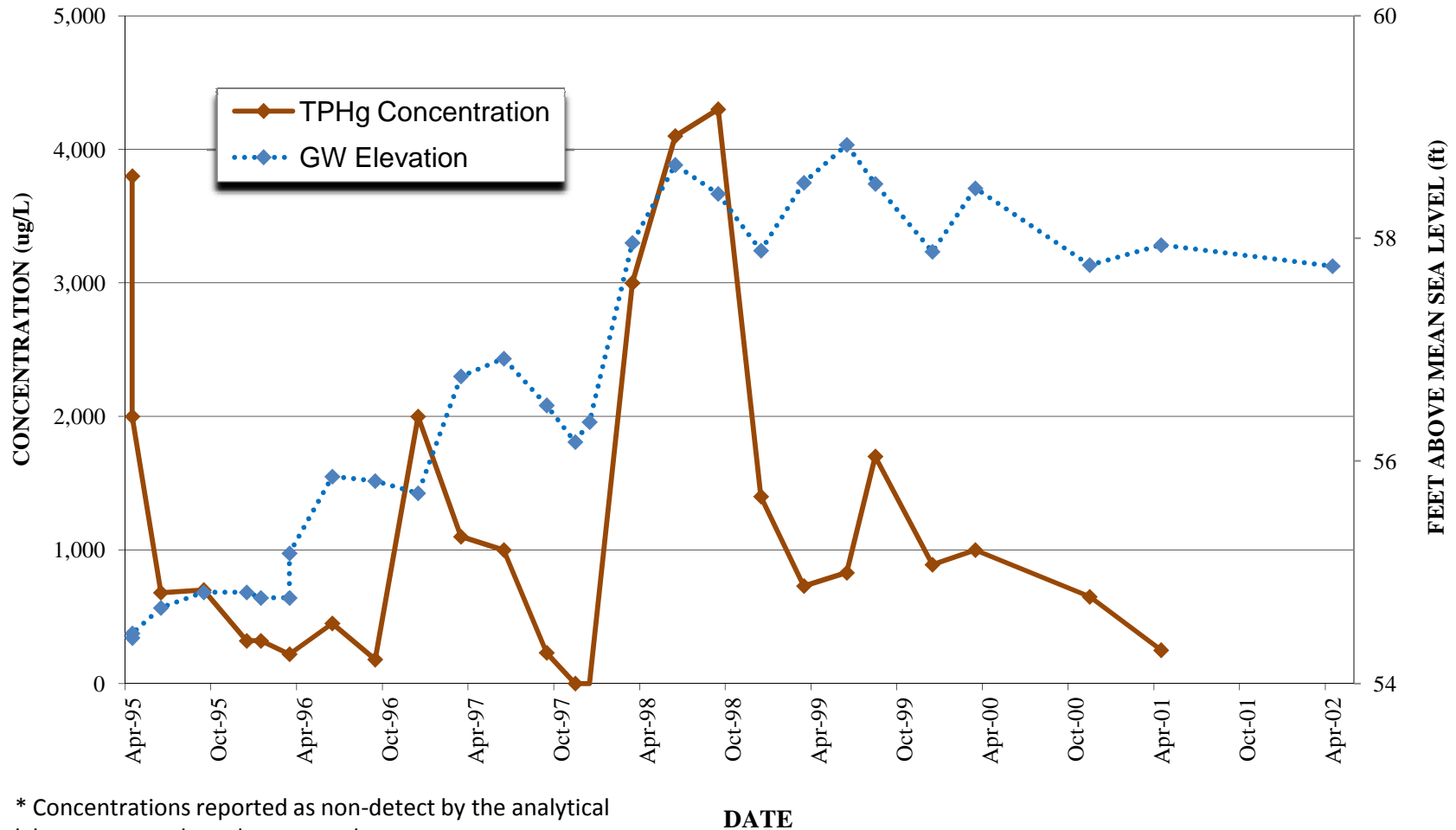
1671 Capitola Road, Santa Cruz, California 95062

## **GRAPHS**

**Former Live Oak Service Station**  
**Graph 1: Chemical Concentrations of TPHg in Well MW-1 Over Time**

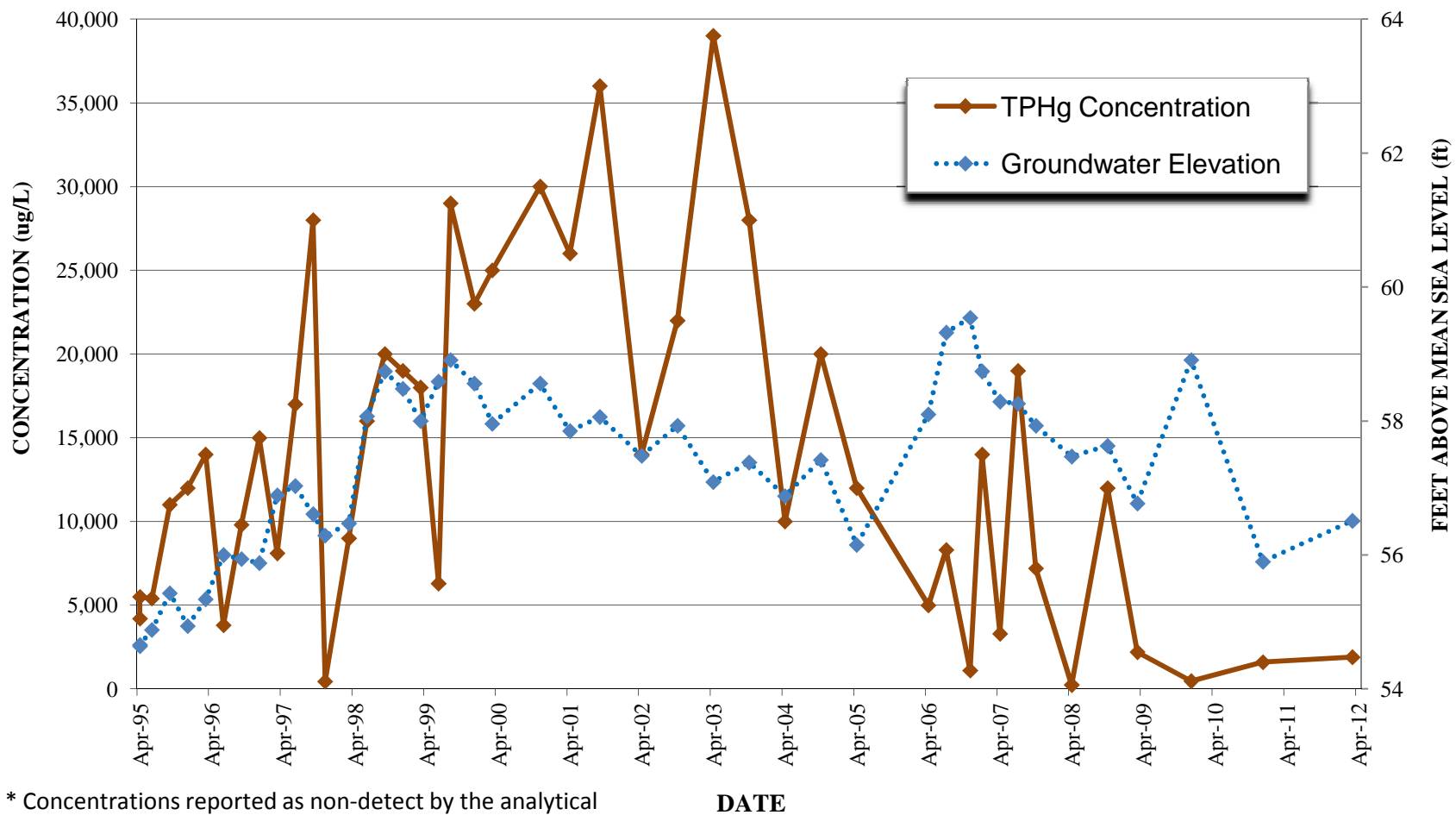


**Former Live Oak Service Station**  
**Graph 2: Chemical Concentrations of TPHg in Well MW-2 Over Time**



\* Concentrations reported as non-detect by the analytical laboratory are plotted as zero-value.

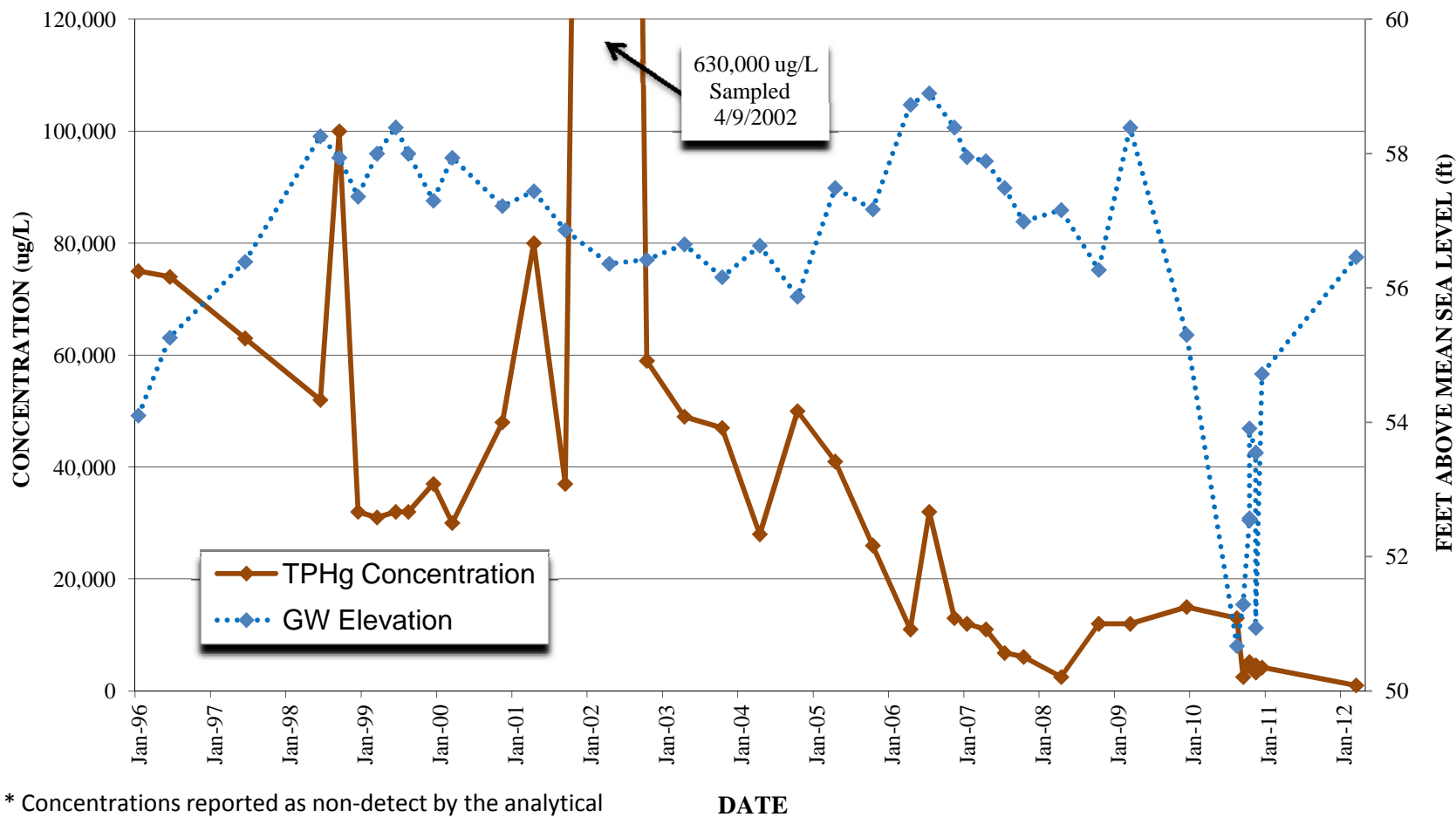
**Former Live Oak Service Station**  
**Graph 3: Chemical Concentrations of TPHg in Well MW-3 Over Time**



\* Concentrations reported as non-detect by the analytical laboratory are plotted as zero-value.

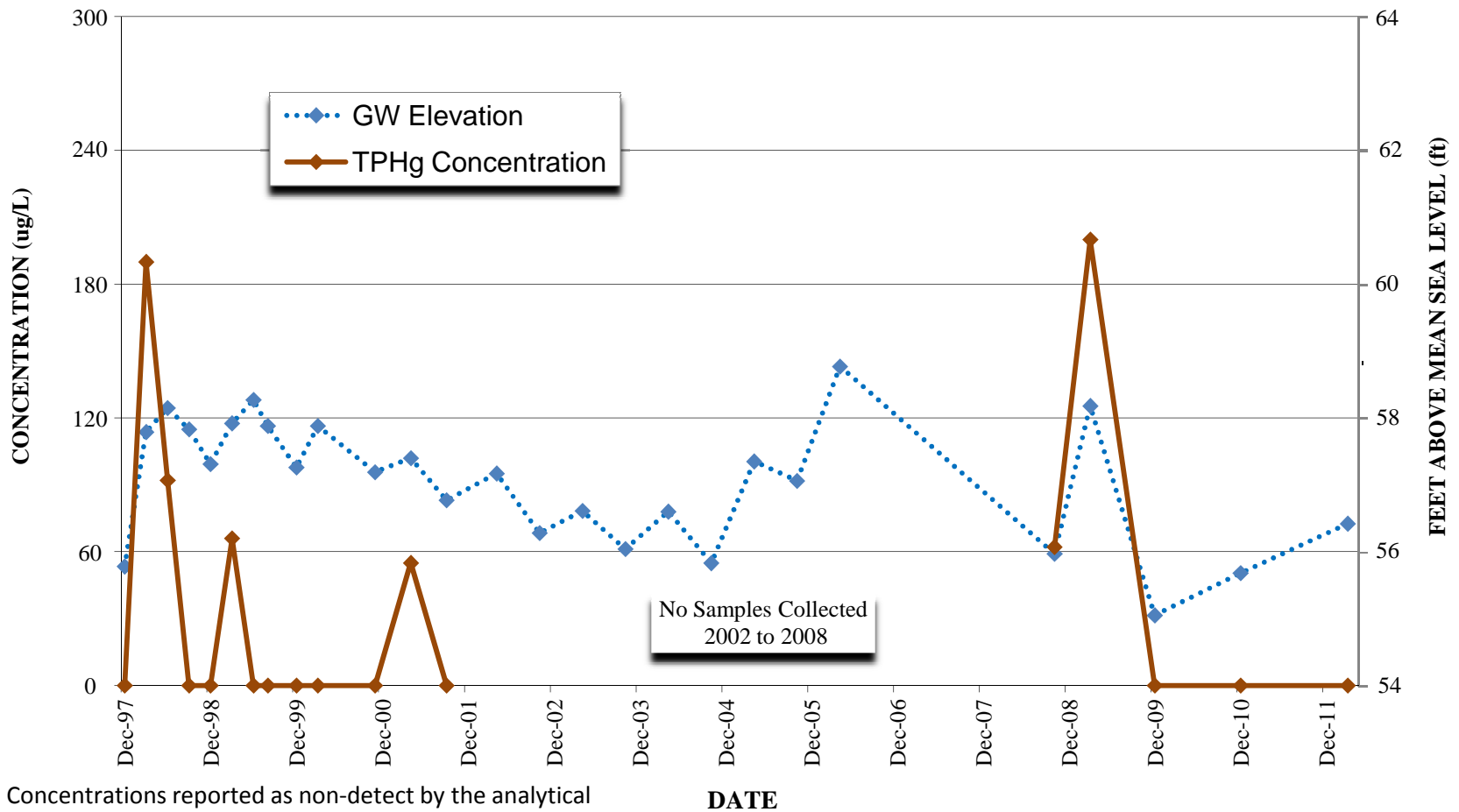


**Former Live Oak Service Station  
Graph 4: Chemical Concentrations of TPHg in Well MW-4 Over Time**



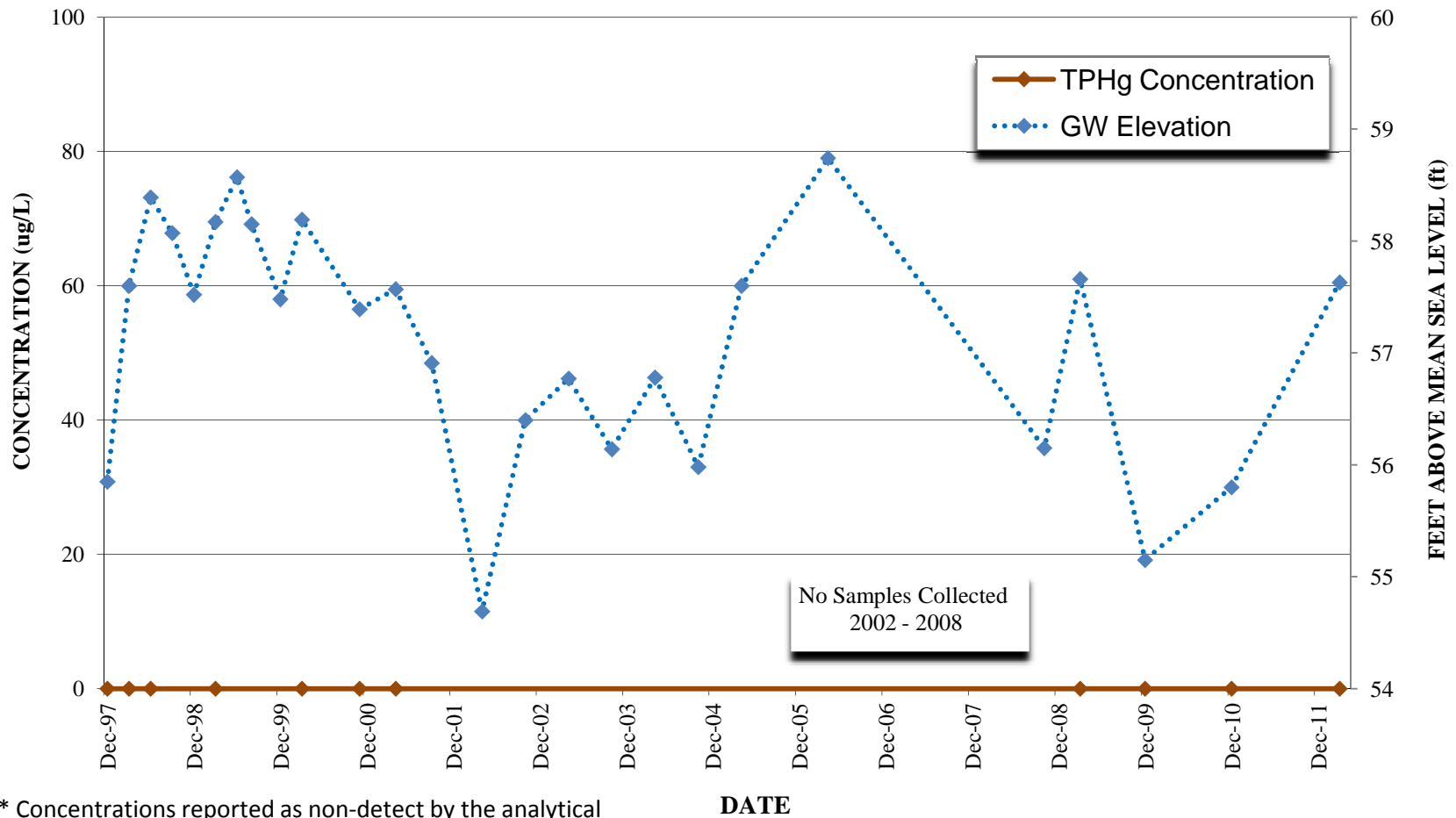
\* Concentrations reported as non-detect by the analytical laboratory are plotted as zero-value.

**Former Live Oak Service Station**  
**Graph 5: Chemical Concentrations of TPHg in Well MW-5 Over Time**



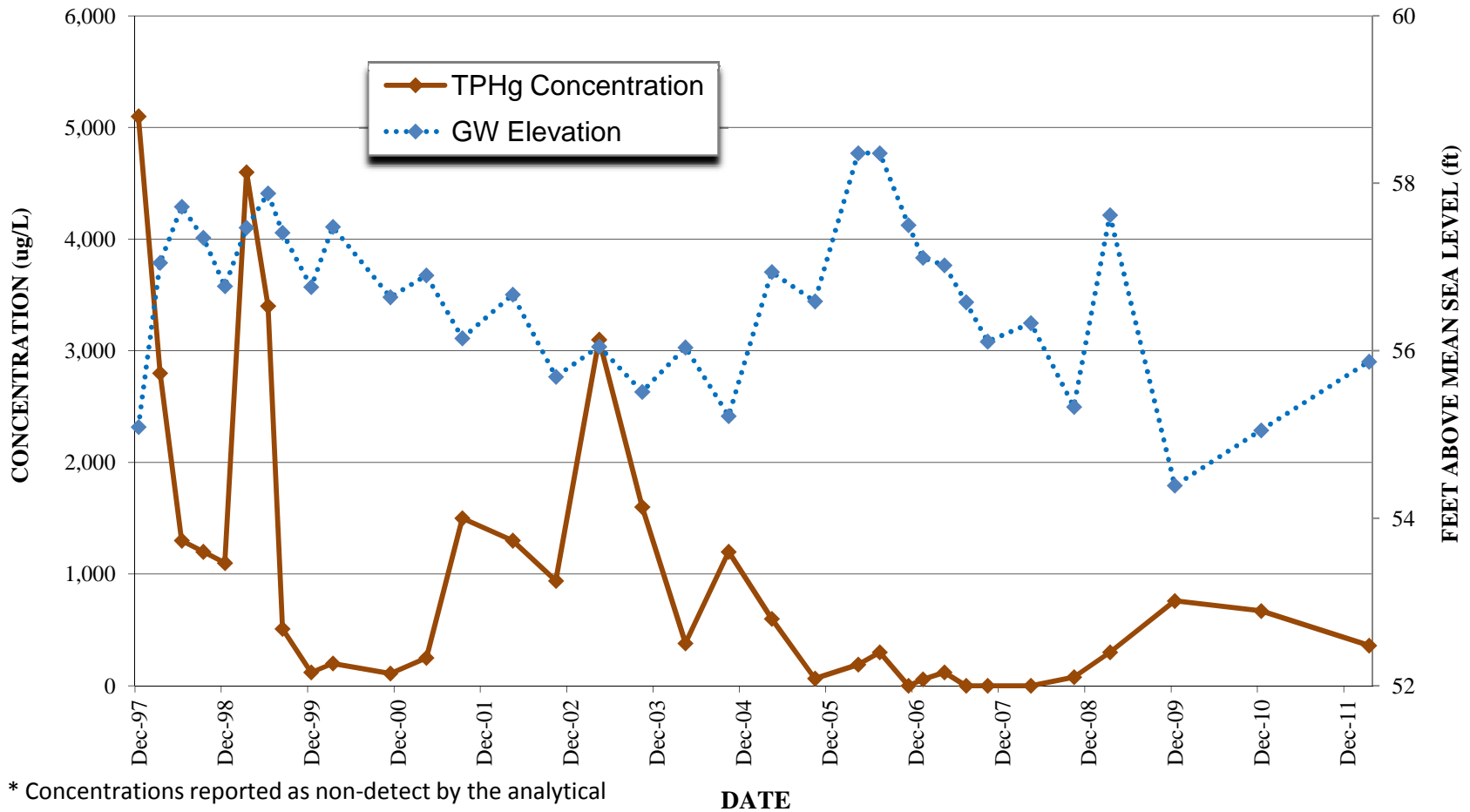
\* Concentrations reported as non-detect by the analytical laboratory are plotted as zero-value.

**Former Live Oak Service Station**  
**Graph 6: Chemical Concentrations of TPHg in Well MW-6 Over Time**



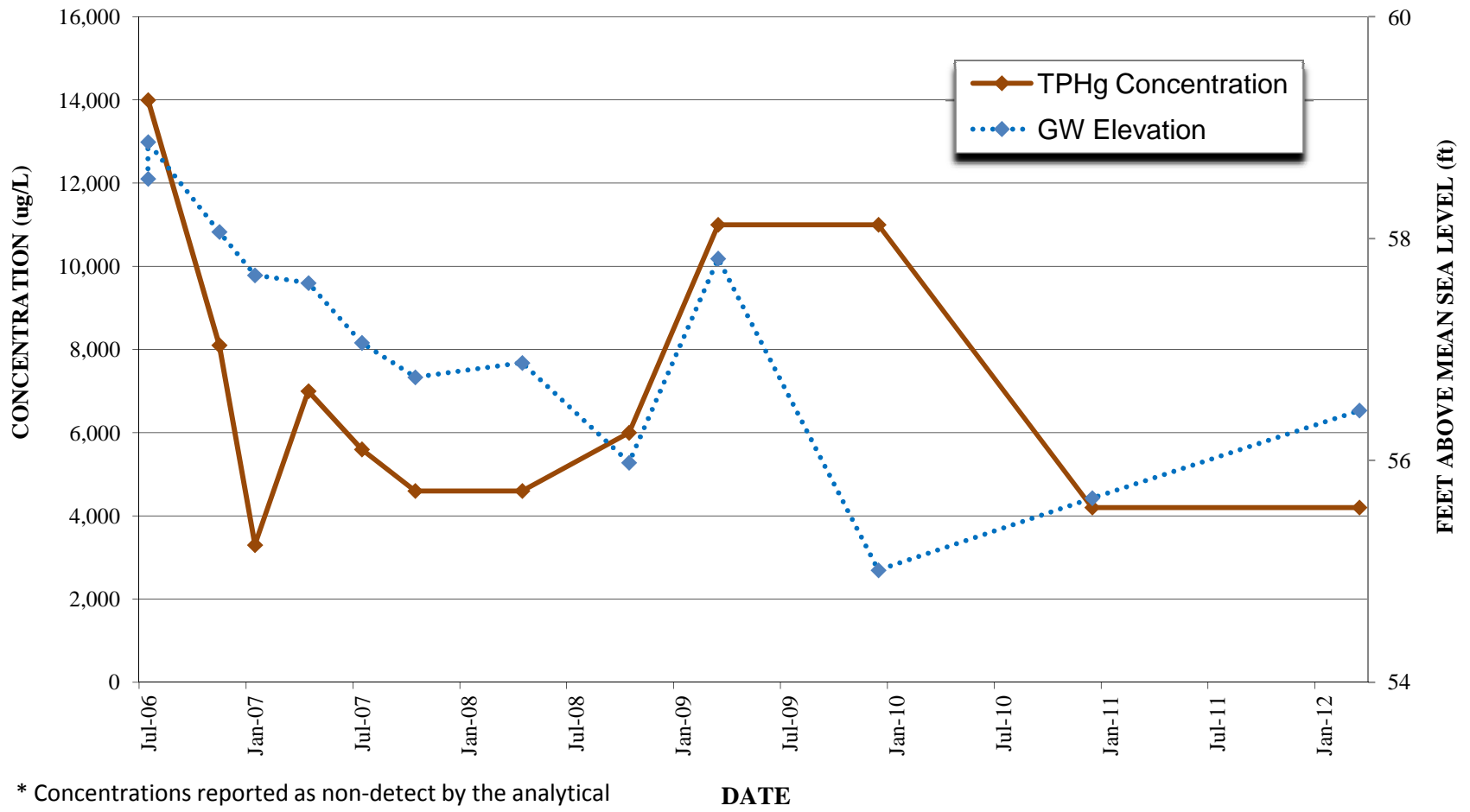
\* Concentrations reported as non-detect by the analytical laboratory are plotted as zero-value.

**Former Live Oak Service Station**  
**Graph 7: Chemical Concentrations of TPHg in Well MW-7 Over Time**



\* Concentrations reported as non-detect by the analytical laboratory are plotted as zero-value.

**Former Live Oak Service Station**  
**Graph 8: Chemical Concentrations of TPHg in Well MW-8 Over Time**



\* Concentrations reported as non-detect by the analytical laboratory are plotted as zero-value.



1671 Capitola Road, Santa Cruz, California 95062

**APPENDIX A**  
**WELL SAMPLING LOGS**



A+ Environmental Solutions, LLC

6898 Soquel Avenue  
 Santa Cruz, CA 95062  
 Ph 831-476-9200  
 Fax 831-475-5322  
<http://www.envir-solutions.com>

# Well Purging and Sampling Form

Well No.

MW-1

Project Name <u>CAPITOLA RD</u>	Project No.	Date <u>3/27/12</u>
Project Address, City, County <u>1671 " " SC 95062</u>		

**PURGING AND SAMPLING INSTRUMENTATION AND METHOD**

Water Level Meter (Model/ID) <u>Solinst</u>	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) <input checked="" type="checkbox"/> PVC Bailer	<input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input type="checkbox"/> Other
Sampling Method(s)	<input type="checkbox"/> Teflon Bailer <input checked="" type="checkbox"/> Disposal Bailer <u>2"</u> <input type="checkbox"/> Other

**BOREHOLE AND WELL CASING VOLUME INFORMATION**

Borehole Diameter (Circle)	8" 10" 12"	Casing Diameter (Circle)	3/4" <u>2"</u> 4" 6"
Borehole Multiplier (BM) (gallons/foot)	0.8 1.5 1.95	Casing Multiplier (CM) (gallons/foot)	0.023 <u>0.16</u> 0.65 1.47

**MONITORING MEASUREMENTS**

**PURGING CALCULATORS**

Depth to Free Product (feet)	Borehole Volumes (BV)
Depth to Water (DTW) (feet) <u>23.59' @ 9.55 23.60 @ 10.40</u>	<input type="checkbox"/> WC x BM <input type="checkbox"/> BV (gal) x 1.5 BV (gal)
Total Well Depth (feet) <u>38.73'</u>	Casing Volume (CV)
Water Column (WC) (feet) <u>15.14'</u>	<u>15.14'</u> WC x CM <u>0.16</u> <u>2.42</u> CV (gal) x 3.0 CV (gal) <u>7.3</u>
Free Product Thickness (feet)	Free Product Purged (gal)

**PURGING DATA**

Time (24 hr)	2	5	7
Gallons Purged	<u>10:00</u>	<u>10:30</u>	<u>10:35</u> <u>10:40</u>
Temp (F/C)	<u>15.4</u>	<u>14.8</u>	<u>16.8</u> <u>17.4</u>
Diss O2 (mg/L)	<u>1.9</u>	<u>2.6</u>	<u>3.3</u> <u>3.4</u>
pH	<u>7.24</u>	<u>7.16</u>	<u>7.13</u> <u>7.0</u>
Cond. (u or m mhos)	<u>577</u>	<u>533</u>	<u>346</u> <u>350</u> <u>520</u>
ORO (mV)	<u>188</u>	<u>187</u>	<u>218</u> <u>187</u>
Diss Solids (mg/L)	<u>None</u>	<u>350</u>	<u>766</u> <u>350</u>
Turbidity (NTU)	<u>Slightly cloudy</u>	<u>cloudy</u>	<u>cloudy</u> <u>cloudy</u>
Visual Description	<u>cloudy with</u>	<u>MORE SED</u>	
Odor (Yes/No)	<u>NO</u>	<u>NO</u>	<u>NO</u> <u>NO</u>
Other			
Other			

**SAMPLING DATA**

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

**WELL RECOVERY DATA**

Maximum Drawdown (DTW m) (feet):	Approximate Flow Rate (GPM):
% Recovery = $1 - \frac{(DTW - DTW_s)}{(DTW - DTW_m)} \times 100$	% Recovery = $1 - \left( \frac{23.59}{23.60} \right) \times 100$
Recovery Type <input checked="" type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery = <input checked="" type="checkbox"/>

**FIELD PERSONNEL**

Environmental Solutions Representative(s): <u>J.G.</u>	Subcontractor:
Signature:	Date: <u>3/27/12</u>



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# Well Purging and Sampling Form

Well No.

MW-1

Project Name CAPITOLA TRD Project No. \_\_\_\_\_ Date 3/27/12  
 Project Address, City, County 1671 CAPITOLA TRD.

### PURGING AND SAMPLING INSTRUMENTATION AND METHOD

Water Level Meter (Model/ID) \_\_\_\_\_ Interface probe (Model/ID) \_\_\_\_\_  
 Water Quality Meter (Model/ID) \_\_\_\_\_ Decontamination Method \_\_\_\_\_  
 Purging Method(s)  PVC Bailer \_\_\_\_\_ Vacuum Truck \_\_\_\_\_ Submersible Pump \_\_\_\_\_ Other \_\_\_\_\_  
 Sampling Method(s) \_\_\_\_\_ Teflon Bailer \_\_\_\_\_  Disposal Bailer \_\_\_\_\_ Other \_\_\_\_\_

### BOREHOLE AND WELL CASING VOLUME INFORMATION

Borehole Diameter (Circle)	8"	10"	12"	Casing Diameter (Circle)	3/4"	<u>2"</u>	4"	6"
Borehole Multiplier (BM) (gallons/foot)	0.8	1.5	1.95	Casing Multiplier (CM) (gallons/foot)	0.023	<u>0.16</u>	0.65	1.47

### MONITORING MEASUREMENTS

### PURGING CALCULATORS

Depth to Free Product (feet) <u>0</u>	Borehole Volumes (BV)
Depth to Water (DTW) (feet) <u>23.15</u> <u>23.18 @ 12:40</u>	_____ WC x BM _____ BV (gal) x 1.5 BV (gal) _____
Total Well Depth (feet) <u>33.51</u>	Casing Volume (CV)
Water Column (WC) (feet) <u>10.36</u>	<u>10.36</u> WC x CM <u>.16</u> <u>1.65</u> CV (gal) x 3.0 CV (gal) <u>5</u>
Free Product Thickness (feet) <u>0</u>	Free Product Purged (gal) _____

### PURGING DATA

Time (24 hr)	12:20	12:26	12:30	12:35				
Gallons Purged	0	1	3	5				
Temp (F/C)	16.8	17.4	17.7	17.4				
Diss O2 (mg/L)	3.1	2.4	2.5			SAMPLE		
pH	7.03	7.05	6.97	6.94		@		
Cond. (u or m mhos)	351	393	403	414				
ORO (mV)	230	250	0270	270		12:45		
Diss Solids (mg/L)	176	197	202	205				
Turbidity (NTU)								
Visual Description	Clear	gray	gray	gray				
Odor (Yes/No)	slight	slight	slight	light				
Other								
Other								

### SAMPLING DATA

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

### WELL RECOVERY DATA

Maximum Drawdown (DTW m) (feet): \_\_\_\_\_ Approximate Flow Rate (GPM): \_\_\_\_\_  
 $\% \text{ Recovery} = 1 - \frac{(\text{DTW} - \text{DTW}_s)}{(\text{DTW} - \text{DTW}_m)} \times 100$   
 $\% \text{ Recovery} = 1 - \left( \frac{23.15}{23.18} \right) \times 100$  ✓  
 Recovery Type  Fast \_\_\_\_\_ Slow \_\_\_\_\_  $\% \text{ Recovery} =$  ✓

### FIELD PERSONNEL

Environmental Solutions Representative(s): EC Subcontractor: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: 3/27/12





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# Well Purging and Sampling Form

Well No.

**MW-4E**

Project Name <b>CAPITOLA RD</b>	Project No.	Date <b>3/27/12</b>
Project Address, City, County <b>1671 CAPITOLA RD, CAPITOLA, CA</b>		

**PURGING AND SAMPLING INSTRUMENTATION AND METHOD**

Water Level Meter (Model/ID) <b>Solonist</b>	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) <del>PVC Bailor</del> Vacuum Truck <input checked="" type="checkbox"/> <b>Submersible Pump</b> Other	
Sampling Method(s) Teflon Bailor <input checked="" type="checkbox"/> Disposal Bailor Other	

**BOREHOLE AND WELL CASING VOLUME INFORMATION**

Borehole Diameter (Circle) 8" 10" 12"	Casing Diameter (Circle) 3/4" <del>1"</del> <b>4"</b> 6"
Borehole Multiplier (BM) (gallons/foot) 0.8 1.5 1.95	Casing Multiplier (CM) (gallons/foot) 0.023 <del>0.15</del> <b>0.65</b> 1.47

MONITORING MEASUREMENTS		PURGING CALCULATORS	
Depth to Free Product (feet)	Borehole Volumes (BV)	WC x BM BV (gal) x 1.5 BV (gal)	
Depth to Water (DTW) (feet) <b>23.28</b> <sup>13:00</sup> <del>14</del> <b>23.35</b> <sup>13:40</sup>	WC x BM	BV (gal) x 1.5 BV (gal)	
Total Well Depth (feet) <b>38.83'</b>	Casing Volume (CV)	WC x CM <b>0.65</b> CV (gal) x 3.0 CV (gal) <b>30.3 GAL</b>	
Water Column (WC) (feet) <b>15.55'</b>	Free Product Purged (gal)		
Free Product Thickness (feet)			

**PURGING DATA**

Time (24 hr)	1:10	1:17	1:25	1:35				
Gallons Purged	0	10	20	30				
Temp (F) <sup>BIK</sup>	17.4	17.8	17.7	17.7				
Diss O2 (mg/L)	2.1	2.4	2.4	2.0				
pH <sup>BIK</sup>	6.92	6.88	6.86	6.85				
Cond. (or m mhos) <sup>BIK</sup>	732	684	617	605				
ORO (mV) <sup>GRN</sup>	-54	-50	-40	-51				
Diss Solids (mg/L) <sup>SPM</sup>	490	440	410	400				
Turbidity (NTU)	CLR	CLR	CLR	CLR				
Visual Description	CLR w/BIK	CLR	CLR	CLR				
Odor (Yes/No)	Yes	Yes	less/Yes	Yes				
Other	light BIK	less SED	No	No				
Other	SED		SED	SED				

**SAMPLING DATA**

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

**WELL RECOVERY DATA**

Maximum Drawdown (DTW m) (feet):	Approximate Flow Rate (GPM):
% Recovery = $1 - \frac{(DTW - DTW_s)}{(DTW - DTW_m)} \times 100$	% Recovery = $1 - \left( \frac{23.28}{23.35} \right) \times 100$
Recovery Type <input checked="" type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery = <input checked="" type="checkbox"/>

**FIELD PERSONNEL**

Environmental Solutions Representative(s): <b>S.G.</b>	Subcontractor:
Signature:	Date: <b>3/27/12</b>



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# Well Purging and Sampling Form

Well No.

MW-5

Project Name Capitola Rd. Project No. \_\_\_\_\_ Date 3/27/12

Project Address, City, County CA 1671 CAPITOLA RD, CAPITOLA, CA

**PURGING AND SAMPLING INSTRUMENTATION AND METHOD**

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) <input checked="" type="checkbox"/> PVC Bailer	<input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input type="checkbox"/> Other
Sampling Method(s) <input checked="" type="checkbox"/> Teflon Bailer	<input type="checkbox"/> Disposal Bailer <input type="checkbox"/> Other

**BOREHOLE AND WELL CASING VOLUME INFORMATION**

Borehole Diameter (Circle) <u>8"</u>	10"	12"	Casing Diameter (Circle) 3/4"	<u>2"</u>	4"	6"
Borehole Multiplier (BM) (gallons/foot) 0.8	1.5	1.95	Casing Multiplier (CM) (gallons/foot) 0.023	<u>0.16</u>	0.65	1.47

**MONITORING MEASUREMENTS**

**PURGING CALCULATORS**

Depth to Free Product (feet) <u>NA</u>	Borehole Volumes (BV)
Depth to Water (DTW) (feet) <u>22.77</u>	<u>10:55</u> <u>22.77</u> <u>11:30</u>
Total Well Depth (feet) <u>30.26</u>	WC x BM _____ BV (gal) x 1.5 BV (gal) _____
Water Column (WC) (feet) <u>7.49</u>	Casing Volume (CV)
Free Product Thickness (feet) <u>NA</u>	<u>7.49</u> WC x CM <u>0.16</u> <u>1.2</u> CV (gal) x 3.0 CV (gal) <u>3.6</u>
	Free Product Purged (gal)

**PURGING DATA**

Time (24 hr)	11:00	11:15	11:20	11:25				
Gallons Purged	0	1	2.5	4				
Temp (F/C)	16.6	17.7	17.2	17.0				
Diss O2 (mg/L)	2.3	2.5	2.4	2.5				
pH	7.12	7.07	7.13	7.16				
Cond. (u or m mhos)	469	466	473	482				
ORO (mV)	182	187	180	181				
Diss Solids (mg/L)	310	310	320	320				
Turbidity (NTU)								
Visual Description	light cloudy	light cloudy	light cloudy	murky				
Odor (Yes/No)	NO	NO	NO	NO				
Other								
Other								

**SAMPLING DATA**

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

**WELL RECOVERY DATA**

Maximum Drawdown (DTW m) (feet):	Approximate Flow Rate (GPM):
% Recovery = $1 - \frac{(DTW - DTW_s)}{(DTW - DTW_m)} \times 100$	% Recovery = $1 - \left( \frac{22.77}{22.78} \right) \times 100$
Recovery Type <input checked="" type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery = <input checked="" type="checkbox"/>

**FIELD PERSONNEL**

Environmental Solutions Representative(s): <u>[Signature]</u>	Subcontractor:
Signature: <u>[Signature]</u>	Date: <u>3/27/12</u>



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# Well Purging and Sampling Form

Well No.

MW-6

Project Name CAPITOLA RD. Project No. \_\_\_\_\_ Date 3/27/12  
 Project Address, City, County 1671 CAPITOLA RD, CAPITOLA CA

**PURGING AND SAMPLING INSTRUMENTATION AND METHOD**

Water Level Meter (Model/ID) \_\_\_\_\_ Interface probe (Model/ID) \_\_\_\_\_  
 Water Quality Meter (Model/ID) \_\_\_\_\_ Decontamination Method \_\_\_\_\_  
 Purging Method(s)  PVC Bailer \_\_\_\_\_ Vacuum Truck \_\_\_\_\_ Submersible Pump \_\_\_\_\_ Other \_\_\_\_\_  
 Sampling Method(s) \_\_\_\_\_ Teflon Bailer \_\_\_\_\_  Disposal Bailer \_\_\_\_\_ Other \_\_\_\_\_

**BOREHOLE AND WELL CASING VOLUME INFORMATION**

Borehole Diameter (Circle)	8"	10"	12"	Casing Diameter (Circle)	3/4"	<u>2"</u>	4"	6"
Borehole Multiplier (BM) (gallons/foot)	0.8	1.5	1.95	Casing Multiplier (CM) (gallons/foot)	0.023	<u>0.16</u>	0.65	1.47

**MONITORING MEASUREMENTS**

**PURGING CALCULATORS**

Depth to Free Product (feet) \_\_\_\_\_  
 Depth to Water (DTW) (feet) 29.675  
 Total Well Depth (feet) 20.07 @ 15:20 20.09 @ 15:50  
 Water Column (WC) (feet) 9.6'  
 Free Product Thickness (feet) \_\_\_\_\_

Borehole Volumes (BV)  
 \_\_\_\_\_ WC x BM \_\_\_\_\_ BV (gal) x 1.5 BV (gal) \_\_\_\_\_  
 Casing Volume (CV)  
9.6' WC x CM 0.16 1.5 CV (gal) x 3.0 CV (gal) 4.6  
 Free Product Purged (gal) \_\_\_\_\_

**PURGING DATA**

Time (24 hr)	15:30	15:35	<del>15:45</del>	<del>15:55</del>	15:55			
Gallons Purged	0	1.5	3	4.5				
Temp (F) <sup>BIK</sup>	16.5	17.3	16.5	17.4	<del>17.5</del> (GRN)			
Diss O2 (mg/L)	2.6	2.8	3.0	3.1				
pH <sup>BIK</sup>	6.73	6.65	6.87	6.69				
Cond. (u or m mhos)	556	563	570	562				
ORP (mV) <sup>GRN</sup>	76	74	81	82				
Diss Solids (mg/L) <sup>SED</sup>	360	370	370	370				
Turbidity (NTU)	little	less	SAME	little				
Visual Description	CLOY	CLOY		more CLOY				
Odor (Yes/No)	NO	NO	NO	NO				
Other	little	" "	" "	More				
Other	SED			SED				

SAMPLE @ 16:00

**SAMPLING DATA**

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

**WELL RECOVERY DATA**

Maximum Drawdown (DTW m) (feet): \_\_\_\_\_ Approximate Flow Rate (GPM): \_\_\_\_\_  

$$\% \text{ Recovery} = 1 - \frac{(DTW - DTW_s)}{(DTW - DTW_m)} \times 100$$

$$\% \text{ Recovery} = 1 - \left( \frac{20.07 - 20.09}{20.07 - 20.09} \right) \times 100$$
  
 Recovery Type  Fast \_\_\_\_\_ Slow \_\_\_\_\_ % Recovery =

**FIELD PERSONNEL**

Environmental Solutions Representative(s): \_\_\_\_\_ Signature: \_\_\_\_\_  
 Subcontractor: \_\_\_\_\_ Date: 3/27/12



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# Well Purging and Sampling Form

Well No.

MW-7

Project Name <u>CAPITOLA RD</u>	Project No.	Date <u>5/27/12</u>
Project Address, City, County <u>1671 CAPITOLA RD, CAPITOLA, CA</u>		

**PURGING AND SAMPLING INSTRUMENTATION AND METHOD**

Water Level Meter (Model/ID)	Interface probe (Model/ID)
Water Quality Meter (Model/ID)	Decontamination Method
Purging Method(s) <input checked="" type="checkbox"/> PVC Bailer	<input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Submersible Pump <input type="checkbox"/> Other
Sampling Method(s)	<input type="checkbox"/> Teflon Bailer <input checked="" type="checkbox"/> Disposal Bailer <input type="checkbox"/> Other

**BOREHOLE AND WELL CASING VOLUME INFORMATION**

Borehole Diameter (Circle)	8" 10" 12"	Casing Diameter (Circle)	3/4" <u>2"</u> 4" 6"
Borehole Multiplier (BM) (gallons/foot)	0.8 1.5 1.95	Casing Multiplier (CM) (gallons/foot)	0.023 <u>0.16</u> 0.65 1.47

**MONITORING MEASUREMENTS**

**PURGING CALCULATORS**

Depth to Free Product (feet) <u>NA</u>	Borehole Volumes (BV)
Depth to Water (DTW) (feet) <u>20.07</u> <u>20.10 @ 12:03</u>	<input type="checkbox"/> WC x BM <input type="checkbox"/> BV (gal) x 1.5 BV (gal)
Total Well Depth (feet) <u>30.37</u>	Casing Volume (CV)
Water Column (WC) (feet) <u>10.30</u>	<u>10.30</u> WC x CM <u>0.16</u> <u>1.665</u> CV (gal) x 3.0 CV (gal) <u>4.9</u>
Free Product Thickness (feet) <u>NA</u>	Free Product Purged (gal)

**PURGING DATA**

Time (24 hr)	11:45	11:50	11:55	12:00				
Gallons Purged	0	1	3	5				
Temp (F/C)	16.7	17.0	17.6	17.7				
Diss O2 (mg/L)	3.4	2.6	4.0	4.0				
pH	7.02	6.95	7.07	7.00				
Cond. (u or m mhos)	671	430	668	668				
ORO (mV)	440/182	167	154	147				
Diss Solids (mg/L)	335	343	334	440				
Turbidity (NTU)								
Visual Description	clear	light grey	cloudy	cloudy				
Odor (Yes/No)								
Other								
Other								

SAMPLE D  
12:05

**SAMPLING DATA**

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

**WELL RECOVERY DATA**

Maximum Drawdown (DTW m) (feet):	Approximate Flow Rate (GPM):
% Recovery = $1 - \frac{(DTW - DTW_s)}{(DTW - DTW_m)} \times 100$	% Recovery = $1 - \frac{(20.07)}{(20.10)} \times 100$
Recovery Type <input type="checkbox"/> Fast <input type="checkbox"/> Slow	% Recovery = <input checked="" type="checkbox"/>

**FIELD PERSONNEL**

Environmental Solutions Representative(s): <u>S.G.</u>	Subcontractor:
Signature: <u>[Signature]</u>	Date: <u>5/27/12</u>



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# Well Purging and Sampling Form

Well No. **MW-8**

Project Name **CAPITOLA RD** Project No. \_\_\_\_\_ Date **3/27/12**  
 Project Address, City, County **1671 CAPITOLA RD, CAPITOLA CA**

**PURGING AND SAMPLING INSTRUMENTATION AND METHOD**

Water Level Meter (Model/ID) **SOLOMEST** Interface probe (Model/ID) \_\_\_\_\_  
 Water Quality Meter (Model/ID) \_\_\_\_\_ Decontamination Method \_\_\_\_\_  
 Purging Method(s)  PVC Bailer \_\_\_\_\_ Vacuum Truck \_\_\_\_\_ Submersible Pump \_\_\_\_\_ Other \_\_\_\_\_  
 Sampling Method(s) \_\_\_\_\_ Teflon Bailer \_\_\_\_\_  Disposal Bailer \_\_\_\_\_ Other \_\_\_\_\_

**BOREHOLE AND WELL CASING VOLUME INFORMATION**

Borehole Diameter (Circle)	8"	10"	12"	Casing Diameter (Circle)	3/4"	<b>2"</b>	4"	6"
Borehole Multiplier (BM) (gallons/foot)	0.8	1.5	1.95	Casing Multiplier (CM) (gallons/foot)	0.023	<b>0.16</b>	0.65	1.47

MONITORING MEASUREMENTS		PURGING CALCULATORS	
Depth to Free Product (feet)		Borehole Volumes (BV)	
Depth to Water (DTW) (feet)	<b>23.28' @ 14:00 23.28' @ 14:40</b>	WC x BM	BV (gal) x 1.5 BV (gal)
Total Well Depth (feet)	<b>33.98'</b>	Casing Volume (CV)	
Water Column (WC) (feet)	<b>10.7'</b>	<b>10.7' WC x CM 0.16 1.7 CV (gal) x 3.0 CV (gal) 5.1</b>	
Free Product Thickness (feet)		Free Product Purged (gal)	

**PURGING DATA**

Time (24 hr)	<b>14:10</b>	<b>14:20</b>	<b>14:28</b>	<b>14:35</b>				
Gallons Purged	<b>0</b>	<b>1.5</b>	<b>3</b>	<b>5</b>				
Temp (F) <small>BIK</small>	<b>16.3</b>	<b>17.2</b>	<b>17.8</b>	<b>17.2</b>				
Diss O2 (mg/L)	<b>2.6</b>	<b>2.5</b>	<b>2.6</b>	<b>2.8</b>				
pH <small>BIK</small>	<b>6.77</b>	<b>6.86</b>	<b>6.74</b>	<b>6.76</b>				
Cond (uS or m mhos)	<b>533</b>	<b>546</b>	<b>550</b>	<b>540</b>				
ORO (mV)	<b>5</b>	<b>-22</b>	<b>-30</b>	<b>-23</b>				
Diss Solids (ppm)	<b>350</b>	<b>360</b>	<b>360</b>	<b>350</b>				
Turbidity (NTU)	<b>CLR</b>	<b>CLR</b>	<b>Little</b>	<b>---</b>				
Visual Description	<b>CLR</b>	<b>Little CLDY</b>	<b>CLDY</b>	<b>CLDY</b>				
Odor (Yes/No)	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>				
Other	<b>light</b>	<b>MORE</b>	<b>SAME</b>	<b>Little more</b>				
Other	<b>SED</b>	<b>SED</b>		<b>SED</b>				

**SAMPLE @ 14:45**

**SAMPLING DATA**

Sample ID	Time	Quantity	Volume	Type	Filtered	Preserved	Analysis

**WELL RECOVERY DATA**

Maximum Drawdown (DTW m) (feet):	Approximate Flow Rate (GPM):
% Recovery = $1 - \frac{(DTW - DTW_s)}{(DTW - DTW_m)} \times 100$	% Recovery = $1 - \left( \frac{23.28}{23.28} \right) \times 100$
Recovery Type <input checked="" type="checkbox"/> Fast _____ Slow	% Recovery = _____

**FIELD PERSONNEL**

Environmental Solutions Representative(s): **S.G.** Subcontractor: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: **3/27/12**



1671 Capitola Road, Santa Cruz, California 95062

**APPENDIX B**  
**ANALYTICAL LABORATORY DATA SHEETS**



Date of Report: 05/01/2012

Forrest Cook

A Plus Environmental Solutions

6898 Soquel Avenue  
Santa Cruz, CA 95062

Project: Capitola Road

BC Work Order: 1205489

Invoice ID: B119717

Enclosed are the results of analyses for samples received by the laboratory on 3/29/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Linda Phoudamneun  
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



## Table of Contents

### Sample Information

Chain of Custody and Cooler Receipt form.....	3
Laboratory / Client Sample Cross Reference.....	5

### Sample Results

<b>1205489-01 - MW-1 1671</b>	
Volatile Organic Analysis (EPA Method 8260).....	6
<b>1205489-02 - MW-5 Market</b>	
Volatile Organic Analysis (EPA Method 8260).....	9
<b>1205489-03 - MW-7 Market</b>	
Volatile Organic Analysis (EPA Method 8260).....	12
<b>1205489-04 - MW-3 1671</b>	
Volatile Organic Analysis (EPA Method 8260).....	15
<b>1205489-05 - MW-4E Market</b>	
Volatile Organic Analysis (EPA Method 8260).....	18
<b>1205489-06 - MW-8 Market</b>	
Volatile Organic Analysis (EPA Method 8260).....	21
<b>1205489-07 - MW-6 School</b>	
Volatile Organic Analysis (EPA Method 8260).....	24

### Quality Control Reports

<b>Volatile Organic Analysis (EPA Method 8260)</b>	
Method Blank Analysis.....	27
Laboratory Control Sample.....	29
Precision and Accuracy.....	30

### Notes

Notes and Definitions.....	31
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Chain of Custody Form

Report To: **Client:** At Environmental Solutions Project #: 1671  
**Attn:** Forrest Cook Project Name: CAPITOLA RD  
 Street Address: 6898 SOQUEL AVE Global ID #:  
 City, State, Zip: SANTA CLAVE, CA 95062 Sampler(s): JON GAMBLE  
 Phone: 831 476-9200 Fax:  
 Email Address: forrest@envit-solutions.com  
 Work Order #: 1205489

Analysis Requested  
 TRH, MSTEM, 8260, Full suite  
 See reference to the back of this page for completion instructions.  
 Legend:  
 Soil  
 Drinking Water  
 Ground Water  
 Wastewater  
 Other

Sample #	Description	Date Sampled	Time Sampled	Turnaround # of work days*	Notes
NW-1	1671 -1	3/27/12	10:45		
NW-5	MARKET -2		11:30		
NW-7	MARKET -3		12:05		
NW-3	1671 -4		12:45		
NW-4E	MARKET -5		13:50		
NW-8	MARKET -6		14:45		
NW-6	SCHOOL -7		16:00		

Global ID (Needed for EDT):  
 1. Relinquished By: [Signature] Date: 3/28/12 Time: 12:15  
 2. Relinquished By: [Signature] Date: 3/28/12 Time: 17:15  
 3. Relinquished By: [Signature] Date: 3/29/12 Time: 8:05

EDP Required?  Yes  No  
 Send Copy to State of CA? (EDT)  Yes  No

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 I/O #: \_\_\_\_\_

System # (Needed for EDT):  
 CHKEY DISTRIBUTION  
 SUB-OUT

Are there any facts with holding times less than or equal to 48 hours?  
 Yes  No  
 \* Standard Turnaround = 10 work days

BC Laboratories, Inc. - 4100 Atlas Ct. - Bakersfield, CA 93308 - 661.327.4911 - Fax: 661.327.1918 - www.bclabs.com



BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 12-05489

<b>SHIPPING INFORMATION</b> Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input type="checkbox"/> Other <u>ASD</u> (Specify)		<b>SHIPPING CONTAINER</b> Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify)	
---	--	---	--

Refrigerant: Ice  Blue Ice  None  Other  Comments:

Custody Seals: Ice Chest  Containers  None  Comments:  
 Intact? Yes  No  Intact? Yes  No

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received  YES  NO

Emissivity: 0.98 Container: PIPE Thermometer ID: 177  
 Temperature: A 0.6 °C / C 1.2 °C

Date/Time: 3/29/12  
 Analyst Initial: MAN 8:05

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A B	A B	A B	A B	A B	A B	A B	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: -4 time read '1240', -5, 6 & 7 have no time on voas.

Sample Numbering Completed By: BLT Date/Time: 3/29/12 @ 1010

A = Actual / C = Corrected

[H:\DOCS\WP80\LAB\_DOCS\FORMS\SAMREC2.WPD]



A Plus Environmental Solutions  
6898 Soquel Avenue  
Santa Cruz, CA 95062

**Reported:** 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	
1205489-01	COC Number:	---		03/29/2012 08:05	
	Project Number:	---		03/27/2012 10:45	
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	MW-1 1671		Lab Matrix:	Water
	Sampled By:	---		Sample Type:	Groundwater
1205489-02	COC Number:	---		03/29/2012 08:05	
	Project Number:	---		03/27/2012 11:30	
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	MW-5 Market		Lab Matrix:	Water
	Sampled By:	---		Sample Type:	Groundwater
1205489-03	COC Number:	---		03/29/2012 08:05	
	Project Number:	---		03/27/2012 12:05	
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	MW-7 Market		Lab Matrix:	Water
	Sampled By:	---		Sample Type:	Groundwater
1205489-04	COC Number:	---		03/29/2012 08:05	
	Project Number:	---		03/27/2012 12:45	
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	MW-3 1671		Lab Matrix:	Water
	Sampled By:	---		Sample Type:	Groundwater
1205489-05	COC Number:	---		03/29/2012 08:05	
	Project Number:	---		03/27/2012 13:50	
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	MW-4E Market		Lab Matrix:	Water
	Sampled By:	---		Sample Type:	Groundwater
1205489-06	COC Number:	---		03/29/2012 08:05	
	Project Number:	---		03/27/2012 14:45	
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	MW-8 Market		Lab Matrix:	Water
	Sampled By:	---		Sample Type:	Groundwater
1205489-07	COC Number:	---		03/29/2012 08:05	
	Project Number:	---		03/27/2012 16:00	
	Sampling Location:	---		Sample Depth:	---
	Sampling Point:	MW-6 School		Lab Matrix:	Water
	Sampled By:	---		Sample Type:	Groundwater



A Plus Environmental Solutions  
6898 Soquel Avenue  
Santa Cruz, CA 95062

**Reported:** 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

<b>BCL Sample ID:</b> 1205489-01	<b>Client Sample Name:</b> MW-1 1671, 3/27/2012 10:45:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1

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6898 Soquel Avenue  
Santa Cruz, CA 95062

**Reported:** 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1205489-01		Client Sample Name: MW-1 1671, 3/27/2012 10:45:00AM					
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Naphthalene	ND	ug/L	0.50	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
p- & m-Xylenes	ND	ug/L	0.50	EPA-8260	ND		1
o-Xylene	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.0	%	86 - 115 (LCL - UCL)	EPA-8260			1

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Santa Cruz, CA 95062

**Reported:** 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

**BCL Sample ID:** 1205489-01      **Client Sample Name:** MW-1 1671, 3/27/2012 10:45:00AM

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/30/12	03/31/12 09:51	KEA	HPCHEM	1	BVD0021



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6898 Soquel Avenue  
Santa Cruz, CA 95062

Reported: 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

<b>BCL Sample ID:</b> 1205489-02	<b>Client Sample Name:</b> MW-5 Market, 3/27/2012 11:30:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1

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A Plus Environmental Solutions  
6898 Soquel Avenue  
Santa Cruz, CA 95062

Reported: 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1205489-02		Client Sample Name: MW-5 Market, 3/27/2012 11:30:00AM					
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Naphthalene	ND	ug/L	0.50	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
<b>Tetrachloroethene</b>	<b>55</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
p- & m-Xylenes	ND	ug/L	0.50	EPA-8260	ND		1
o-Xylene	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.1	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.2	%	86 - 115 (LCL - UCL)	EPA-8260			1

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A Plus Environmental Solutions  
6898 Soquel Avenue  
Santa Cruz, CA 95062

**Reported:** 05/01/2012 11:14  
**Project:** Capitola Road  
**Project Number:** 1671  
**Project Manager:** Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

**BCL Sample ID:** 1205489-02      **Client Sample Name:** MW-5 Market, 3/27/2012 11:30:00AM

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/30/12	03/31/12 09:27	KEA	HPCHEM	1	BVD0021



A Plus Environmental Solutions  
6898 Soquel Avenue  
Santa Cruz, CA 95062

Reported: 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

<b>BCL Sample ID:</b> 1205489-03	<b>Client Sample Name:</b> MW-7 Market, 3/27/2012 12:05:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
<b>n-Butylbenzene</b>	<b>0.89</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
<b>sec-Butylbenzene</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1

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A Plus Environmental Solutions  
6898 Soquel Avenue  
Santa Cruz, CA 95062

Reported: 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1205489-03		Client Sample Name: MW-7 Market, 3/27/2012 12:05:00PM					
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
<b>Ethylbenzene</b>	<b>0.94</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
<b>Isopropylbenzene</b>	<b>5.6</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Naphthalene	ND	ug/L	0.50	EPA-8260	ND		1
<b>n-Propylbenzene</b>	<b>5.1</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
<b>Tetrachloroethene</b>	<b>1.6</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
<b>1,2,4-Trimethylbenzene</b>	<b>0.59</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
<b>p- &amp; m-Xylenes</b>	<b>0.54</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
o-Xylene	ND	ug/L	0.50	EPA-8260	ND		1
<b>Total Purgeable Petroleum Hydrocarbons</b>	<b>360</b>	<b>ug/L</b>	<b>50</b>	<b>Luft-GC/MS</b>	ND		1
1,2-Dichloroethane-d4 (Surrogate)	96.6	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	104	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)	EPA-8260			1

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6898 Soquel Avenue  
Santa Cruz, CA 95062

**Reported:** 05/01/2012 11:14  
**Project:** Capitola Road  
**Project Number:** 1671  
**Project Manager:** Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

<b>BCL Sample ID:</b> 1205489-03	<b>Client Sample Name:</b> MW-7 Market, 3/27/2012 12:05:00PM
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Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/30/12	03/31/12 09:03	KEA	HPCHEM	1	BVD0021



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6898 Soquel Avenue  
Santa Cruz, CA 95062

Reported: 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

<b>BCL Sample ID:</b> 1205489-04	<b>Client Sample Name:</b> MW-3 1671, 3/27/2012 12:45:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
<b>n-Butylbenzene</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
sec-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1

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**Reported:** 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1205489-04		Client Sample Name: MW-3 1671, 3/27/2012 12:45:00PM					
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
<b>Ethylbenzene</b>	<b>55</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
<b>Isopropylbenzene</b>	<b>16</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
<b>p-Isopropyltoluene</b>	<b>1.8</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
<b>Naphthalene</b>	<b>62</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
<b>n-Propylbenzene</b>	<b>40</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
<b>Tetrachloroethene</b>	<b>1.4</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
<b>1,2,4-Trimethylbenzene</b>	<b>310</b>	<b>ug/L</b>	<b>2.5</b>	<b>EPA-8260</b>	ND	<b>A01</b>	2
<b>1,3,5-Trimethylbenzene</b>	<b>19</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
<b>Total Xylenes</b>	<b>140</b>	<b>ug/L</b>	<b>1.0</b>	<b>EPA-8260</b>	ND		1
<b>p- &amp; m-Xylenes</b>	<b>130</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
<b>o-Xylene</b>	<b>11</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		1
<b>Total Purgeable Petroleum Hydrocarbons</b>	<b>1900</b>	<b>ug/L</b>	<b>50</b>	<b>Luft-GC/MS</b>	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	97.9	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	104	%	88 - 110 (LCL - UCL)	EPA-8260			1

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6898 Soquel Avenue  
Santa Cruz, CA 95062

**Reported:** 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

<b>BCL Sample ID:</b> 1205489-04	<b>Client Sample Name:</b> MW-3 1671, 3/27/2012 12:45:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Toluene-d8 (Surrogate)	98.7	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/30/12	03/31/12 08:38	KEA	HPCHEM	1	BVD0021
2	EPA-8260	03/30/12	04/03/12 20:21	KEA	HPCHEM	5	BVD0021

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**Reported:** 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

**BCL Sample ID:** 1205489-05      **Client Sample Name:** MW-4E Market, 3/27/2012 1:50:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1

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Reported: 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1205489-05		Client Sample Name: MW-4E Market, 3/27/2012 1:50:00PM					
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
<b>Naphthalene</b>	<b>10</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	ND		<b>1</b>
n-Propylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
p- & m-Xylenes	ND	ug/L	0.50	EPA-8260	ND		1
o-Xylene	ND	ug/L	0.50	EPA-8260	ND		1
<b>Total Purgeable Petroleum Hydrocarbons</b>	<b>990</b>	<b>ug/L</b>	<b>50</b>	<b>Luft-GC/MS</b>	ND		<b>1</b>
1,2-Dichloroethane-d4 (Surrogate)	107	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	104	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)	EPA-8260			1

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A Plus Environmental Solutions  
6898 Soquel Avenue  
Santa Cruz, CA 95062

**Reported:** 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

**BCL Sample ID:** 1205489-05      **Client Sample Name:** MW-4E Market, 3/27/2012 1:50:00PM

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/30/12	03/31/12 08:14	KEA	HPCHEM	1	BVD0021



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Reported: 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

<b>BCL Sample ID:</b> 1205489-06	<b>Client Sample Name:</b> MW-8 Market, 3/27/2012 2:45:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	2.5	EPA-8260	ND	A01	1
Bromobenzene	ND	ug/L	2.5	EPA-8260	ND	A01	1
Bromochloromethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
Bromodichloromethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
Bromoform	ND	ug/L	2.5	EPA-8260	ND	A01	1
Bromomethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
<b>n-Butylbenzene</b>	<b>8.6</b>	<b>ug/L</b>	<b>2.5</b>	<b>EPA-8260</b>	ND	<b>A01</b>	1
<b>sec-Butylbenzene</b>	<b>7.3</b>	<b>ug/L</b>	<b>2.5</b>	<b>EPA-8260</b>	ND	<b>A01</b>	1
tert-Butylbenzene	ND	ug/L	2.5	EPA-8260	ND	A01	1
Carbon tetrachloride	ND	ug/L	2.5	EPA-8260	ND	A01	1
Chlorobenzene	ND	ug/L	2.5	EPA-8260	ND	A01	1
Chloroethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
Chloroform	ND	ug/L	2.5	EPA-8260	ND	A01	1
Chloromethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
2-Chlorotoluene	ND	ug/L	2.5	EPA-8260	ND	A01	1
4-Chlorotoluene	ND	ug/L	2.5	EPA-8260	ND	A01	1
Dibromochloromethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
Dibromomethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,2-Dichlorobenzene	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,3-Dichlorobenzene	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,4-Dichlorobenzene	ND	ug/L	2.5	EPA-8260	ND	A01	1
Dichlorodifluoromethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,1-Dichloroethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,1-Dichloroethene	ND	ug/L	2.5	EPA-8260	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/L	2.5	EPA-8260	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,2-Dichloropropane	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,3-Dichloropropane	ND	ug/L	2.5	EPA-8260	ND	A01	1
2,2-Dichloropropane	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,1-Dichloropropene	ND	ug/L	2.5	EPA-8260	ND	A01	1

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Reported: 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1205489-06		Client Sample Name: MW-8 Market, 3/27/2012 2:45:00PM					
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	2.5	EPA-8260	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/L	2.5	EPA-8260	ND	A01	1
<b>Ethylbenzene</b>	<b>200</b>	<b>ug/L</b>	<b>5.0</b>	<b>EPA-8260</b>	ND	<b>A01</b>	<b>2</b>
Hexachlorobutadiene	ND	ug/L	2.5	EPA-8260	ND	A01	1
<b>Isopropylbenzene</b>	<b>55</b>	<b>ug/L</b>	<b>2.5</b>	<b>EPA-8260</b>	ND	<b>A01</b>	<b>1</b>
p-Isopropyltoluene	ND	ug/L	2.5	EPA-8260	ND	A01	1
Methylene chloride	ND	ug/L	5.0	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	ug/L	2.5	EPA-8260	ND	A01	1
<b>Naphthalene</b>	<b>210</b>	<b>ug/L</b>	<b>2.5</b>	<b>EPA-8260</b>	ND	<b>A01</b>	<b>1</b>
<b>n-Propylbenzene</b>	<b>120</b>	<b>ug/L</b>	<b>2.5</b>	<b>EPA-8260</b>	ND	<b>A01</b>	<b>1</b>
Styrene	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,1,1,2-Tetrachloroethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
Tetrachloroethene	ND	ug/L	2.5	EPA-8260	ND	A01	1
Toluene	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,2,3-Trichlorobenzene	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,1,1-Trichloroethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,1,2-Trichloroethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
Trichloroethene	ND	ug/L	2.5	EPA-8260	ND	A01	1
Trichlorofluoromethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,2,3-Trichloropropane	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/L	2.5	EPA-8260	ND	A01	1
<b>1,3,5-Trimethylbenzene</b>	<b>8.8</b>	<b>ug/L</b>	<b>2.5</b>	<b>EPA-8260</b>	ND	<b>A01</b>	<b>1</b>
Vinyl chloride	ND	ug/L	2.5	EPA-8260	ND	A01	1
<b>Total Xylenes</b>	<b>56</b>	<b>ug/L</b>	<b>5.0</b>	<b>EPA-8260</b>	ND	<b>A01</b>	<b>1</b>
<b>p- &amp; m-Xylenes</b>	<b>56</b>	<b>ug/L</b>	<b>2.5</b>	<b>EPA-8260</b>	ND	<b>A01</b>	<b>1</b>
o-Xylene	ND	ug/L	2.5	EPA-8260	ND	A01	1
<b>Total Purgeable Petroleum Hydrocarbons</b>	<b>4200</b>	<b>ug/L</b>	<b>250</b>	<b>Luft-GC/MS</b>	ND	<b>A01</b>	<b>1</b>
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	98.9	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	103	%	88 - 110 (LCL - UCL)	EPA-8260			1

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6898 Soquel Avenue  
Santa Cruz, CA 95062

**Reported:** 05/01/2012 11:14  
**Project:** Capitola Road  
**Project Number:** 1671  
**Project Manager:** Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

<b>BCL Sample ID:</b> 1205489-06	<b>Client Sample Name:</b> MW-8 Market, 3/27/2012 2:45:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Toluene-d8 (Surrogate)	99.0	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	98.3	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.6	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/30/12	03/31/12 07:24	KEA	HPCHEM	5	BVD0021
2	EPA-8260	03/30/12	04/05/12 13:03	KEA	HPCHEM	10	BVD0021



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**Reported:** 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

<b>BCL Sample ID:</b> 1205489-07	<b>Client Sample Name:</b> MW-6 School, 3/27/2012 4:00:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1

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**Reported:** 05/01/2012 11:14  
**Project:** Capitola Road  
**Project Number:** 1671  
**Project Manager:** Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

<b>BCL Sample ID:</b> 1205489-07	<b>Client Sample Name:</b> MW-6 School, 3/27/2012 4:00:00PM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Naphthalene	ND	ug/L	0.50	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
p- & m-Xylenes	ND	ug/L	0.50	EPA-8260	ND		1
o-Xylene	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.1	%	86 - 115 (LCL - UCL)	EPA-8260			1

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**Reported:** 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

**BCL Sample ID:** 1205489-07      **Client Sample Name:** MW-6 School, 3/27/2012 4:00:00PM

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	03/30/12	03/31/12 07:49	KEA	HPCHEM	1	BVD0021





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Santa Cruz, CA 95062

**Reported:** 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

## Volatile Organic Analysis (EPA Method 8260)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BVD0021</b>						
Benzene	BVD0021-BLK1	ND	ug/L	0.50		
Bromobenzene	BVD0021-BLK1	ND	ug/L	0.50		
Bromochloromethane	BVD0021-BLK1	ND	ug/L	0.50		
Bromodichloromethane	BVD0021-BLK1	ND	ug/L	0.50		
Bromoform	BVD0021-BLK1	ND	ug/L	0.50		
Bromomethane	BVD0021-BLK1	ND	ug/L	1.0		
n-Butylbenzene	BVD0021-BLK1	ND	ug/L	0.50		
sec-Butylbenzene	BVD0021-BLK1	ND	ug/L	0.50		
tert-Butylbenzene	BVD0021-BLK1	ND	ug/L	0.50		
Carbon tetrachloride	BVD0021-BLK1	ND	ug/L	0.50		
Chlorobenzene	BVD0021-BLK1	ND	ug/L	0.50		
Chloroethane	BVD0021-BLK1	ND	ug/L	0.50		
Chloroform	BVD0021-BLK1	ND	ug/L	0.50		
Chloromethane	BVD0021-BLK1	ND	ug/L	0.50		
2-Chlorotoluene	BVD0021-BLK1	ND	ug/L	0.50		
4-Chlorotoluene	BVD0021-BLK1	ND	ug/L	0.50		
Dibromochloromethane	BVD0021-BLK1	ND	ug/L	0.50		
1,2-Dibromo-3-chloropropane	BVD0021-BLK1	ND	ug/L	1.0		
1,2-Dibromoethane	BVD0021-BLK1	ND	ug/L	0.50		
Dibromomethane	BVD0021-BLK1	ND	ug/L	0.50		
1,2-Dichlorobenzene	BVD0021-BLK1	ND	ug/L	0.50		
1,3-Dichlorobenzene	BVD0021-BLK1	ND	ug/L	0.50		
1,4-Dichlorobenzene	BVD0021-BLK1	ND	ug/L	0.50		
Dichlorodifluoromethane	BVD0021-BLK1	ND	ug/L	0.50		
1,1-Dichloroethane	BVD0021-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BVD0021-BLK1	ND	ug/L	0.50		
1,1-Dichloroethene	BVD0021-BLK1	ND	ug/L	0.50		
cis-1,2-Dichloroethene	BVD0021-BLK1	ND	ug/L	0.50		
trans-1,2-Dichloroethene	BVD0021-BLK1	ND	ug/L	0.50		
1,2-Dichloropropane	BVD0021-BLK1	ND	ug/L	0.50		
1,3-Dichloropropane	BVD0021-BLK1	ND	ug/L	0.50		
2,2-Dichloropropane	BVD0021-BLK1	ND	ug/L	0.50		
1,1-Dichloropropene	BVD0021-BLK1	ND	ug/L	0.50		
cis-1,3-Dichloropropene	BVD0021-BLK1	ND	ug/L	0.50		

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Santa Cruz, CA 95062

Reported: 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BVD0021</b>						
trans-1,3-Dichloropropene	BVD0021-BLK1	ND	ug/L	0.50		
Ethylbenzene	BVD0021-BLK1	ND	ug/L	0.50		
Hexachlorobutadiene	BVD0021-BLK1	ND	ug/L	0.50		
Isopropylbenzene	BVD0021-BLK1	ND	ug/L	0.50		
p-Isopropyltoluene	BVD0021-BLK1	ND	ug/L	0.50		
Methylene chloride	BVD0021-BLK1	ND	ug/L	1.0		
Methyl t-butyl ether	BVD0021-BLK1	ND	ug/L	0.50		
Naphthalene	BVD0021-BLK1	ND	ug/L	0.50		
n-Propylbenzene	BVD0021-BLK1	ND	ug/L	0.50		
Styrene	BVD0021-BLK1	ND	ug/L	0.50		
1,1,1,2-Tetrachloroethane	BVD0021-BLK1	ND	ug/L	0.50		
1,1,1,2,2-Tetrachloroethane	BVD0021-BLK1	ND	ug/L	0.50		
Tetrachloroethene	BVD0021-BLK1	ND	ug/L	0.50		
Toluene	BVD0021-BLK1	ND	ug/L	0.50		
1,2,3-Trichlorobenzene	BVD0021-BLK1	ND	ug/L	0.50		
1,2,4-Trichlorobenzene	BVD0021-BLK1	ND	ug/L	0.50		
1,1,1-Trichloroethane	BVD0021-BLK1	ND	ug/L	0.50		
1,1,2-Trichloroethane	BVD0021-BLK1	ND	ug/L	0.50		
Trichloroethene	BVD0021-BLK1	ND	ug/L	0.50		
Trichlorofluoromethane	BVD0021-BLK1	ND	ug/L	0.50		
1,2,3-Trichloropropane	BVD0021-BLK1	ND	ug/L	1.0		
1,1,2-Trichloro-1,2,2-trifluoroethane	BVD0021-BLK1	ND	ug/L	0.50		
1,2,4-Trimethylbenzene	BVD0021-BLK1	ND	ug/L	0.50		
1,3,5-Trimethylbenzene	BVD0021-BLK1	ND	ug/L	0.50		
Vinyl chloride	BVD0021-BLK1	ND	ug/L	0.50		
Total Xylenes	BVD0021-BLK1	ND	ug/L	1.0		
p- & m-Xylenes	BVD0021-BLK1	ND	ug/L	0.50		
o-Xylene	BVD0021-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BVD0021-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BVD0021-BLK1	110	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVD0021-BLK1	99.4	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVD0021-BLK1	98.0	%	86 - 115 (LCL - UCL)		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



A Plus Environmental Solutions  
6898 Soquel Avenue  
Santa Cruz, CA 95062

**Reported:** 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

## Volatile Organic Analysis (EPA Method 8260)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BVD0021</b>										
Benzene	BVD0021-BS1	LCS	24.650	25.000	ug/L	98.6		70 - 130		
Bromodichloromethane	BVD0021-BS1	LCS	24.840	25.000	ug/L	99.4		70 - 130		
Chlorobenzene	BVD0021-BS1	LCS	25.920	25.000	ug/L	104		70 - 130		
Chloroethane	BVD0021-BS1	LCS	26.220	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	BVD0021-BS1	LCS	24.910	25.000	ug/L	99.6		70 - 130		
1,1-Dichloroethane	BVD0021-BS1	LCS	24.420	25.000	ug/L	97.7		70 - 130		
1,1-Dichloroethene	BVD0021-BS1	LCS	24.180	25.000	ug/L	96.7		70 - 130		
Toluene	BVD0021-BS1	LCS	25.000	25.000	ug/L	100		70 - 130		
Trichloroethene	BVD0021-BS1	LCS	27.160	25.000	ug/L	109		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVD0021-BS1	LCS	10.600	10.000	ug/L	106		76 - 114		
Toluene-d8 (Surrogate)	BVD0021-BS1	LCS	10.090	10.000	ug/L	101		88 - 110		
4-Bromofluorobenzene (Surrogate)	BVD0021-BS1	LCS	9.8800	10.000	ug/L	98.8		86 - 115		



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6898 Soquel Avenue  
Santa Cruz, CA 95062

Reported: 05/01/2012 11:14  
Project: Capitola Road  
Project Number: 1671  
Project Manager: Forrest Cook

### Volatile Organic Analysis (EPA Method 8260)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery		Lab Quals
								RPD	Percent Recovery	
<b>QC Batch ID: BVD0021</b>		Used client sample: N								
Benzene	MS	1204254-50	ND	25.880	25.000	ug/L		104		70 - 130
	MSD	1204254-50	ND	25.680	25.000	ug/L	0.8	103	20	70 - 130
Bromodichloromethane	MS	1204254-50	ND	25.150	25.000	ug/L		101		70 - 130
	MSD	1204254-50	ND	25.140	25.000	ug/L	0.0	101	20	70 - 130
Chlorobenzene	MS	1204254-50	ND	26.720	25.000	ug/L		107		70 - 130
	MSD	1204254-50	ND	26.330	25.000	ug/L	1.5	105	20	70 - 130
Chloroethane	MS	1204254-50	ND	27.250	25.000	ug/L		109		70 - 130
	MSD	1204254-50	ND	26.510	25.000	ug/L	2.8	106	20	70 - 130
1,4-Dichlorobenzene	MS	1204254-50	ND	24.990	25.000	ug/L		100		70 - 130
	MSD	1204254-50	ND	24.850	25.000	ug/L	0.6	99.4	20	70 - 130
1,1-Dichloroethane	MS	1204254-50	ND	25.410	25.000	ug/L		102		70 - 130
	MSD	1204254-50	ND	25.180	25.000	ug/L	0.9	101	20	70 - 130
1,1-Dichloroethene	MS	1204254-50	ND	24.910	25.000	ug/L		99.6		70 - 130
	MSD	1204254-50	ND	24.930	25.000	ug/L	0.1	99.7	20	70 - 130
Toluene	MS	1204254-50	ND	25.540	25.000	ug/L		102		70 - 130
	MSD	1204254-50	ND	25.280	25.000	ug/L	1.0	101	20	70 - 130
Trichloroethene	MS	1204254-50	ND	27.030	25.000	ug/L		108		70 - 130
	MSD	1204254-50	ND	27.340	25.000	ug/L	1.1	109	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1204254-50	ND	10.800	10.000	ug/L		108		76 - 114
	MSD	1204254-50	ND	10.750	10.000	ug/L	0.5	108		76 - 114
Toluene-d8 (Surrogate)	MS	1204254-50	ND	10.150	10.000	ug/L		102		88 - 110
	MSD	1204254-50	ND	10.180	10.000	ug/L	0.3	102		88 - 110
4-Bromofluorobenzene (Surrogate)	MS	1204254-50	ND	9.6300	10.000	ug/L		96.3		86 - 115
	MSD	1204254-50	ND	9.7200	10.000	ug/L	0.9	97.2		86 - 115

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A Plus Environmental Solutions  
6898 Soquel Avenue  
Santa Cruz, CA 95062

**Reported:** 05/01/2012 11:14  
**Project:** Capitola Road  
**Project Number:** 1671  
**Project Manager:** Forrest Cook

**Notes And Definitions**

- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.



1671 Capitola Road, Santa Cruz, California 95062

**APPENDIX C**  
**HISTORICAL LABORATORY DATA SHEETS**

## Laboratory Results

Forrest Cook  
A+ Environmental Solutions, LLC  
6898 Soquel Avenue  
Santa Cruz, CA 95062

Subject : 6 Water Samples  
Project Name : Former Live Oak Service  
Project Number : GP0110

Dear Mr. Cook,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Troy Turpen

Subject : 6 Water Samples  
Project Name : Former Live Oak Service  
Project Number : GP0110

## Case Narrative

A version of this report was previously issued on 12/14/2010. This revised version replaces that report.

The Method Reporting Limit for Chloromethane has been increased due to the presence of an interfering compound for samples MW-7 and MW-8.

The result for 1,2,4-Trimethylbenzene for sample MW-3 is flagged with a 'J', indicating it is an estimate. The concentration exceeded the calibration range for the instrument. The analysis request was made after the sample had expired.



Sample : MW-1

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Lab Number : 75647-01

Matrix : Water

Sample Date :12/06/2010

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	12/10/10 10:15
TPH as Gasoline	< 50	50	ug/L	12/10/10 10:15
Dichlorodifluoromethane	< 0.50	0.50	ug/L	12/10/10 10:15
Chloromethane	< 0.50	0.50	ug/L	12/10/10 10:15
Vinyl Chloride	< 0.50	0.50	ug/L	12/10/10 10:15
Bromomethane	< 20	20	ug/L	12/10/10 10:15
Chloroethane	< 0.50	0.50	ug/L	12/10/10 10:15
Trichlorofluoromethane	< 0.50	0.50	ug/L	12/10/10 10:15
1,1-Dichloroethene	< 0.50	0.50	ug/L	12/10/10 10:15
Methylene Chloride	< 5.0	5.0	ug/L	12/10/10 10:15
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/10/10 10:15
1,1-Dichloroethane	< 0.50	0.50	ug/L	12/10/10 10:15
2,2-Dichloropropane	< 0.50	0.50	ug/L	12/10/10 10:15
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/10/10 10:15
Chloroform	< 0.50	0.50	ug/L	12/10/10 10:15
Bromochloromethane	< 0.50	0.50	ug/L	12/10/10 10:15
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	12/10/10 10:15
1,1-Dichloropropene	< 0.50	0.50	ug/L	12/10/10 10:15
1,2-Dichloroethane	< 0.50	0.50	ug/L	12/10/10 10:15
Carbon Tetrachloride	< 0.50	0.50	ug/L	12/10/10 10:15
Benzene	< 0.50	0.50	ug/L	12/10/10 10:15
Trichloroethene	< 0.50	0.50	ug/L	12/10/10 10:15
1,2-Dichloropropane	< 0.50	0.50	ug/L	12/10/10 10:15
Bromodichloromethane	< 0.50	0.50	ug/L	12/10/10 10:15
Dibromomethane	< 0.50	0.50	ug/L	12/10/10 10:15
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/10/10 10:15
Toluene	< 0.50	0.50	ug/L	12/10/10 10:15
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/10/10 10:15
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	12/10/10 10:15
1,3-Dichloropropane	< 0.50	0.50	ug/L	12/10/10 10:15
Tetrachloroethene	< 0.50	0.50	ug/L	12/10/10 10:15
Dibromochloromethane	< 0.50	0.50	ug/L	12/10/10 10:15
1,2-Dibromoethane	< 0.50	0.50	ug/L	12/10/10 10:15

Sample : MW-1

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Lab Number : 75647-01

Matrix : Water

Sample Date :12/06/2010

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	12/10/10 10:15
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/10/10 10:15
Ethylbenzene	< 0.50	0.50	ug/L	12/10/10 10:15
P,M-Xylene	< 1.0	1.0	ug/L	12/10/10 10:15
O-Xylene	< 0.50	0.50	ug/L	12/10/10 10:15
Styrene	< 0.50	0.50	ug/L	12/10/10 10:15
Isopropyl benzene	< 0.50	0.50	ug/L	12/10/10 10:15
Bromoform	< 0.50	0.50	ug/L	12/10/10 10:15
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/10/10 10:15
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	12/10/10 10:15
n-Propylbenzene	< 0.50	0.50	ug/L	12/10/10 10:15
Bromobenzene	< 0.50	0.50	ug/L	12/10/10 10:15
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	12/10/10 10:15
2+4-Chlorotoluene	< 1.0	1.0	ug/L	12/10/10 10:15
tert-Butylbenzene	< 0.50	0.50	ug/L	12/10/10 10:15
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	12/10/10 10:15
sec-Butylbenzene	< 0.50	0.50	ug/L	12/10/10 10:15
p-Isopropyltoluene	< 0.50	0.50	ug/L	12/10/10 10:15
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	12/10/10 10:15
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	12/10/10 10:15
n-Butylbenzene	< 0.50	0.50	ug/L	12/10/10 10:15
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	12/10/10 10:15
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	12/10/10 10:15
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	12/10/10 10:15
Hexachlorobutadiene	< 0.50	0.50	ug/L	12/10/10 10:15
Naphthalene	< 0.50	0.50	ug/L	12/10/10 10:15
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	12/10/10 10:15
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	12/10/10 10:15
4-Bromofluorobenzene (Surr)	99.0		% Recovery	12/10/10 10:15
Toluene - d8 (Surr)	99.2		% Recovery	12/10/10 10:15

Sample : MW-5

Project Name : Former Live Oak Service

Project Number : GP0110

Lab Number : 75647-02

Matrix : Water

Sample Date :12/06/2010

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	12/10/10 10:13
TPH as Gasoline	< 50	50	ug/L	12/10/10 10:13
Dichlorodifluoromethane	< 0.50	0.50	ug/L	12/10/10 10:13
Chloromethane	< 0.50	0.50	ug/L	12/10/10 10:13
Vinyl Chloride	< 0.50	0.50	ug/L	12/10/10 10:13
Bromomethane	< 20	20	ug/L	12/10/10 10:13
Chloroethane	< 0.50	0.50	ug/L	12/10/10 10:13
Trichlorofluoromethane	< 0.50	0.50	ug/L	12/10/10 10:13
1,1-Dichloroethene	< 0.50	0.50	ug/L	12/10/10 10:13
Methylene Chloride	< 5.0	5.0	ug/L	12/10/10 10:13
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/10/10 10:13
1,1-Dichloroethane	< 0.50	0.50	ug/L	12/10/10 10:13
2,2-Dichloropropane	< 0.50	0.50	ug/L	12/10/10 10:13
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/10/10 10:13
Chloroform	< 0.50	0.50	ug/L	12/10/10 10:13
Bromochloromethane	< 0.50	0.50	ug/L	12/10/10 10:13
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	12/10/10 10:13
1,1-Dichloropropene	< 0.50	0.50	ug/L	12/10/10 10:13
1,2-Dichloroethane	< 0.50	0.50	ug/L	12/10/10 10:13
Carbon Tetrachloride	< 0.50	0.50	ug/L	12/10/10 10:13
Benzene	< 0.50	0.50	ug/L	12/10/10 10:13
Trichloroethene	< 0.50	0.50	ug/L	12/10/10 10:13
1,2-Dichloropropane	< 0.50	0.50	ug/L	12/10/10 10:13
Bromodichloromethane	< 0.50	0.50	ug/L	12/10/10 10:13
Dibromomethane	< 0.50	0.50	ug/L	12/10/10 10:13
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/10/10 10:13
Toluene	< 0.50	0.50	ug/L	12/10/10 10:13
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/10/10 10:13
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	12/10/10 10:13
1,3-Dichloropropane	< 0.50	0.50	ug/L	12/10/10 10:13
<b>Tetrachloroethene</b>	<b>12</b>	0.50	ug/L	12/10/10 10:13
Dibromochloromethane	< 0.50	0.50	ug/L	12/10/10 10:13
1,2-Dibromoethane	< 0.50	0.50	ug/L	12/10/10 10:13

Sample : MW-5

Project Name : Former Live Oak Service

Project Number : GP0110

Lab Number : 75647-02

Matrix : Water

Sample Date :12/06/2010

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	12/10/10 10:13
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/10/10 10:13
Ethylbenzene	< 0.50	0.50	ug/L	12/10/10 10:13
P,M-Xylene	< 1.0	1.0	ug/L	12/10/10 10:13
O-Xylene	< 0.50	0.50	ug/L	12/10/10 10:13
Styrene	< 0.50	0.50	ug/L	12/10/10 10:13
Isopropyl benzene	< 0.50	0.50	ug/L	12/10/10 10:13
Bromoform	< 0.50	0.50	ug/L	12/10/10 10:13
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/10/10 10:13
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	12/10/10 10:13
n-Propylbenzene	< 0.50	0.50	ug/L	12/10/10 10:13
Bromobenzene	< 0.50	0.50	ug/L	12/10/10 10:13
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	12/10/10 10:13
2+4-Chlorotoluene	< 1.0	1.0	ug/L	12/10/10 10:13
tert-Butylbenzene	< 0.50	0.50	ug/L	12/10/10 10:13
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	12/10/10 10:13
sec-Butylbenzene	< 0.50	0.50	ug/L	12/10/10 10:13
p-Isopropyltoluene	< 0.50	0.50	ug/L	12/10/10 10:13
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	12/10/10 10:13
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	12/10/10 10:13
n-Butylbenzene	< 0.50	0.50	ug/L	12/10/10 10:13
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	12/10/10 10:13
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	12/10/10 10:13
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	12/10/10 10:13
Hexachlorobutadiene	< 0.50	0.50	ug/L	12/10/10 10:13
Naphthalene	< 0.50	0.50	ug/L	12/10/10 10:13
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	12/10/10 10:13
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	12/10/10 10:13
4-Bromofluorobenzene (Surr)	96.0		% Recovery	12/10/10 10:13
Toluene - d8 (Surr)	104		% Recovery	12/10/10 10:13



Sample : MW-6

Project Name : Former Live Oak Service

Project Number : GP0110

Lab Number : 75647-03

Matrix : Water

Sample Date :12/06/2010

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	12/10/10 16:04
TPH as Gasoline	< 50	50	ug/L	12/10/10 16:04
Dichlorodifluoromethane	< 0.50	0.50	ug/L	12/10/10 16:04
Chloromethane	< 0.50	0.50	ug/L	12/10/10 16:04
Vinyl Chloride	< 0.50	0.50	ug/L	12/10/10 16:04
Bromomethane	< 20	20	ug/L	12/10/10 16:04
Chloroethane	< 0.50	0.50	ug/L	12/10/10 16:04
Trichlorofluoromethane	< 0.50	0.50	ug/L	12/10/10 16:04
1,1-Dichloroethene	< 0.50	0.50	ug/L	12/10/10 16:04
Methylene Chloride	< 5.0	5.0	ug/L	12/10/10 16:04
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/10/10 16:04
1,1-Dichloroethane	< 0.50	0.50	ug/L	12/10/10 16:04
2,2-Dichloropropane	< 0.50	0.50	ug/L	12/10/10 16:04
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/10/10 16:04
Chloroform	< 0.50	0.50	ug/L	12/10/10 16:04
Bromochloromethane	< 0.50	0.50	ug/L	12/10/10 16:04
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	12/10/10 16:04
1,1-Dichloropropene	< 0.50	0.50	ug/L	12/10/10 16:04
1,2-Dichloroethane	< 0.50	0.50	ug/L	12/10/10 16:04
Carbon Tetrachloride	< 0.50	0.50	ug/L	12/10/10 16:04
Benzene	< 0.50	0.50	ug/L	12/10/10 16:04
Trichloroethene	< 0.50	0.50	ug/L	12/10/10 16:04
1,2-Dichloropropane	< 0.50	0.50	ug/L	12/10/10 16:04
Bromodichloromethane	< 0.50	0.50	ug/L	12/10/10 16:04
Dibromomethane	< 0.50	0.50	ug/L	12/10/10 16:04
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/10/10 16:04
Toluene	< 0.50	0.50	ug/L	12/10/10 16:04
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/10/10 16:04
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	12/10/10 16:04
1,3-Dichloropropane	< 0.50	0.50	ug/L	12/10/10 16:04
Tetrachloroethene	< 0.50	0.50	ug/L	12/10/10 16:04
Dibromochloromethane	< 0.50	0.50	ug/L	12/10/10 16:04
1,2-Dibromoethane	< 0.50	0.50	ug/L	12/10/10 16:04

Sample : MW-6

Project Name : Former Live Oak Service

Project Number : GP0110

Lab Number : 75647-03

Matrix : Water

Sample Date :12/06/2010

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	12/10/10 16:04
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/10/10 16:04
Ethylbenzene	< 0.50	0.50	ug/L	12/10/10 16:04
P,M-Xylene	< 1.0	1.0	ug/L	12/10/10 16:04
O-Xylene	< 0.50	0.50	ug/L	12/10/10 16:04
Styrene	< 0.50	0.50	ug/L	12/10/10 16:04
Isopropyl benzene	< 0.50	0.50	ug/L	12/10/10 16:04
Bromoform	< 0.50	0.50	ug/L	12/10/10 16:04
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/10/10 16:04
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	12/10/10 16:04
n-Propylbenzene	< 0.50	0.50	ug/L	12/10/10 16:04
Bromobenzene	< 0.50	0.50	ug/L	12/10/10 16:04
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	12/10/10 16:04
2+4-Chlorotoluene	< 1.0	1.0	ug/L	12/10/10 16:04
tert-Butylbenzene	< 0.50	0.50	ug/L	12/10/10 16:04
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	12/10/10 16:04
sec-Butylbenzene	< 0.50	0.50	ug/L	12/10/10 16:04
p-Isopropyltoluene	< 0.50	0.50	ug/L	12/10/10 16:04
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	12/10/10 16:04
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	12/10/10 16:04
n-Butylbenzene	< 0.50	0.50	ug/L	12/10/10 16:04
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	12/10/10 16:04
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	12/10/10 16:04
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	12/10/10 16:04
Hexachlorobutadiene	< 0.50	0.50	ug/L	12/10/10 16:04
Naphthalene	< 0.50	0.50	ug/L	12/10/10 16:04
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	12/10/10 16:04
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	12/10/10 16:04
4-Bromofluorobenzene (Surr)	101		% Recovery	12/10/10 16:04
Toluene - d8 (Surr)	100		% Recovery	12/10/10 16:04

Sample : MW-3

Project Name : Former Live Oak Service

Project Number : GP0110

Lab Number : 75647-04

Matrix : Water

Sample Date :12/06/2010

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	12/10/10 15:33
<b>TPH as Gasoline</b>	<b>1600</b>	50	ug/L	12/10/10 15:33
Dichlorodifluoromethane	< 0.50	0.50	ug/L	12/10/10 15:33
Chloromethane	< 0.50	0.50	ug/L	12/10/10 15:33
Vinyl Chloride	< 0.50	0.50	ug/L	12/10/10 15:33
Bromomethane	< 20	20	ug/L	12/10/10 15:33
Chloroethane	< 0.50	0.50	ug/L	12/10/10 15:33
Trichlorofluoromethane	< 0.50	0.50	ug/L	12/10/10 15:33
1,1-Dichloroethene	< 0.50	0.50	ug/L	12/10/10 15:33
Methylene Chloride	< 5.0	5.0	ug/L	12/10/10 15:33
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/10/10 15:33
1,1-Dichloroethane	< 0.50	0.50	ug/L	12/10/10 15:33
2,2-Dichloropropane	< 0.50	0.50	ug/L	12/10/10 15:33
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/10/10 15:33
Chloroform	< 0.50	0.50	ug/L	12/10/10 15:33
Bromochloromethane	< 0.50	0.50	ug/L	12/10/10 15:33
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	12/10/10 15:33
1,1-Dichloropropene	< 0.50	0.50	ug/L	12/10/10 15:33
1,2-Dichloroethane	< 0.50	0.50	ug/L	12/10/10 15:33
Carbon Tetrachloride	< 0.50	0.50	ug/L	12/10/10 15:33
Benzene	< 0.50	0.50	ug/L	12/10/10 15:33
Trichloroethene	< 0.50	0.50	ug/L	12/10/10 15:33
1,2-Dichloropropane	< 0.50	0.50	ug/L	12/10/10 15:33
Bromodichloromethane	< 0.50	0.50	ug/L	12/10/10 15:33
Dibromomethane	< 0.50	0.50	ug/L	12/10/10 15:33
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/10/10 15:33
Toluene	< 0.50	0.50	ug/L	12/10/10 15:33
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/10/10 15:33
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	12/10/10 15:33
1,3-Dichloropropane	< 0.50	0.50	ug/L	12/10/10 15:33
Tetrachloroethene	< 0.50	0.50	ug/L	12/10/10 15:33
Dibromochloromethane	< 0.50	0.50	ug/L	12/10/10 15:33
1,2-Dibromoethane	< 0.50	0.50	ug/L	12/10/10 15:33

Sample : MW-3

Project Name : Former Live Oak Service

Project Number : GP0110

Lab Number : 75647-04

Matrix : Water

Sample Date :12/06/2010

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	12/10/10 15:33
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/10/10 15:33
<b>Ethylbenzene</b>	<b>54</b>	0.50	ug/L	12/10/10 15:33
<b>P,M-Xylene</b>	<b>150</b>	1.0	ug/L	12/10/10 15:33
<b>O-Xylene</b>	<b>0.75</b>	0.50	ug/L	12/10/10 15:33
Styrene	< 0.50	0.50	ug/L	12/10/10 15:33
<b>Isopropyl benzene</b>	<b>15</b>	0.50	ug/L	12/10/10 15:33
Bromoform	< 0.50	0.50	ug/L	12/10/10 15:33
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/10/10 15:33
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	12/10/10 15:33
<b>n-Propylbenzene</b>	<b>38</b>	0.50	ug/L	12/10/10 15:33
Bromobenzene	< 0.50	0.50	ug/L	12/10/10 15:33
<b>1,3,5-Trimethylbenzene</b>	<b>29</b>	0.50	ug/L	12/10/10 15:33
2+4-Chlorotoluene	< 1.0	1.0	ug/L	12/10/10 15:33
tert-Butylbenzene	< 0.50	0.50	ug/L	12/10/10 15:33
<b>1,2,4-Trimethylbenzene</b>	<b>260 J</b>	0.50	ug/L	12/10/10 15:33
<b>sec-Butylbenzene</b>	<b>2.8</b>	0.50	ug/L	12/10/10 15:33
<b>p-Isopropyltoluene</b>	<b>1.5</b>	0.50	ug/L	12/10/10 15:33
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	12/10/10 15:33
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	12/10/10 15:33
<b>n-Butylbenzene</b>	<b>3.6</b>	0.50	ug/L	12/10/10 15:33
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	12/10/10 15:33
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	12/10/10 15:33
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	12/10/10 15:33
Hexachlorobutadiene	< 0.50	0.50	ug/L	12/10/10 15:33
<b>Naphthalene</b>	<b>44</b>	0.50	ug/L	12/10/10 15:33
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	12/10/10 15:33
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	12/10/10 15:33
4-Bromofluorobenzene (Surr)	102		% Recovery	12/10/10 15:33
Toluene - d8 (Surr)	101		% Recovery	12/10/10 15:33



Sample : MW-7

Project Name : Former Live Oak Service

Project Number : GP0110

Lab Number : 75647-05

Matrix : Water

Sample Date :12/06/2010

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	12/10/10 15:01
<b>TPH as Gasoline</b>	<b>670</b>	50	ug/L	12/10/10 15:01
Dichlorodifluoromethane	< 0.50	0.50	ug/L	12/10/10 15:01
Chloromethane	< 0.80	0.80	ug/L	12/10/10 15:01
Vinyl Chloride	< 0.50	0.50	ug/L	12/10/10 15:01
Bromomethane	< 20	20	ug/L	12/10/10 15:01
Chloroethane	< 0.50	0.50	ug/L	12/10/10 15:01
Trichlorofluoromethane	< 0.50	0.50	ug/L	12/10/10 15:01
1,1-Dichloroethene	< 0.50	0.50	ug/L	12/10/10 15:01
Methylene Chloride	< 5.0	5.0	ug/L	12/10/10 15:01
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/10/10 15:01
1,1-Dichloroethane	< 0.50	0.50	ug/L	12/10/10 15:01
2,2-Dichloropropane	< 0.50	0.50	ug/L	12/10/10 15:01
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/10/10 15:01
Chloroform	< 0.50	0.50	ug/L	12/10/10 15:01
Bromochloromethane	< 0.50	0.50	ug/L	12/10/10 15:01
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	12/10/10 15:01
1,1-Dichloropropene	< 0.50	0.50	ug/L	12/10/10 15:01
1,2-Dichloroethane	< 0.50	0.50	ug/L	12/10/10 15:01
Carbon Tetrachloride	< 0.50	0.50	ug/L	12/10/10 15:01
Benzene	< 0.50	0.50	ug/L	12/10/10 15:01
Trichloroethene	< 0.50	0.50	ug/L	12/10/10 15:01
1,2-Dichloropropane	< 0.50	0.50	ug/L	12/10/10 15:01
Bromodichloromethane	< 0.50	0.50	ug/L	12/10/10 15:01
Dibromomethane	< 0.50	0.50	ug/L	12/10/10 15:01
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/10/10 15:01
Toluene	< 0.50	0.50	ug/L	12/10/10 15:01
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/10/10 15:01
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	12/10/10 15:01
1,3-Dichloropropane	< 0.50	0.50	ug/L	12/10/10 15:01
<b>Tetrachloroethene</b>	<b>0.58</b>	0.50	ug/L	12/10/10 15:01
Dibromochloromethane	< 0.50	0.50	ug/L	12/10/10 15:01
1,2-Dibromoethane	< 0.50	0.50	ug/L	12/10/10 15:01

Sample : MW-7

Project Name : Former Live Oak Service

Project Number : GP0110

Lab Number : 75647-05

Matrix : Water

Sample Date :12/06/2010

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	12/10/10 15:01
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/10/10 15:01
<b>Ethylbenzene</b>	<b>1.7</b>	0.50	ug/L	12/10/10 15:01
<b>P,M-Xylene</b>	<b>2.9</b>	1.0	ug/L	12/10/10 15:01
O-Xylene	< 0.50	0.50	ug/L	12/10/10 15:01
Styrene	< 0.50	0.50	ug/L	12/10/10 15:01
<b>Isopropyl benzene</b>	<b>9.1</b>	0.50	ug/L	12/10/10 15:01
Bromoform	< 0.50	0.50	ug/L	12/10/10 15:01
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/10/10 15:01
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	12/10/10 15:01
<b>n-Propylbenzene</b>	<b>14</b>	0.50	ug/L	12/10/10 15:01
Bromobenzene	< 0.50	0.50	ug/L	12/10/10 15:01
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	12/10/10 15:01
2+4-Chlorotoluene	< 1.0	1.0	ug/L	12/10/10 15:01
tert-Butylbenzene	< 0.50	0.50	ug/L	12/10/10 15:01
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	12/10/10 15:01
<b>sec-Butylbenzene</b>	<b>1.6</b>	0.50	ug/L	12/10/10 15:01
p-Isopropyltoluene	< 0.50	0.50	ug/L	12/10/10 15:01
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	12/10/10 15:01
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	12/10/10 15:01
<b>n-Butylbenzene</b>	<b>1.9</b>	0.50	ug/L	12/10/10 15:01
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	12/10/10 15:01
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	12/10/10 15:01
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	12/10/10 15:01
Hexachlorobutadiene	< 0.50	0.50	ug/L	12/10/10 15:01
<b>Naphthalene</b>	<b>26</b>	0.50	ug/L	12/10/10 15:01
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	12/10/10 15:01
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	12/10/10 15:01
4-Bromofluorobenzene (Surr)	100		% Recovery	12/10/10 15:01
Toluene - d8 (Surr)	102		% Recovery	12/10/10 15:01

Sample : MW-8

Project Name : Former Live Oak Service

Project Number : GP0110

Lab Number : 75647-06

Matrix : Water

Sample Date :12/07/2010

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	12/13/10 14:46
<b>TPH as Gasoline</b>	<b>4200</b>	50	ug/L	12/13/10 14:46
Dichlorodifluoromethane	< 0.50	0.50	ug/L	12/13/10 14:46
Chloromethane	< 2.0	2.0	ug/L	12/13/10 14:46
Vinyl Chloride	< 0.50	0.50	ug/L	12/13/10 14:46
Bromomethane	< 20	20	ug/L	12/13/10 14:46
Chloroethane	< 0.50	0.50	ug/L	12/13/10 14:46
Trichlorofluoromethane	< 0.50	0.50	ug/L	12/13/10 14:46
1,1-Dichloroethene	< 0.50	0.50	ug/L	12/13/10 14:46
Methylene Chloride	< 5.0	5.0	ug/L	12/13/10 14:46
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/13/10 14:46
1,1-Dichloroethane	< 0.50	0.50	ug/L	12/13/10 14:46
2,2-Dichloropropane	< 0.50	0.50	ug/L	12/13/10 14:46
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/13/10 14:46
Chloroform	< 0.50	0.50	ug/L	12/13/10 14:46
Bromochloromethane	< 0.50	0.50	ug/L	12/13/10 14:46
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	12/13/10 14:46
1,1-Dichloropropene	< 0.50	0.50	ug/L	12/13/10 14:46
1,2-Dichloroethane	< 0.50	0.50	ug/L	12/13/10 14:46
Carbon Tetrachloride	< 0.50	0.50	ug/L	12/13/10 14:46
Benzene	< 0.50	0.50	ug/L	12/13/10 14:46
Trichloroethene	< 0.50	0.50	ug/L	12/13/10 14:46
1,2-Dichloropropane	< 0.50	0.50	ug/L	12/13/10 14:46
Bromodichloromethane	< 0.50	0.50	ug/L	12/13/10 14:46
Dibromomethane	< 0.50	0.50	ug/L	12/13/10 14:46
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/13/10 14:46
<b>Toluene</b>	<b>1.8</b>	0.50	ug/L	12/13/10 14:46
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/13/10 14:46
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	12/13/10 14:46
1,3-Dichloropropane	< 0.50	0.50	ug/L	12/13/10 14:46
Tetrachloroethene	< 0.50	0.50	ug/L	12/13/10 14:46
Dibromochloromethane	< 0.50	0.50	ug/L	12/13/10 14:46
1,2-Dibromoethane	< 0.50	0.50	ug/L	12/13/10 14:46

Sample : MW-8

Project Name : Former Live Oak Service

Project Number : GP0110

Lab Number : 75647-06

Matrix : Water

Sample Date :12/07/2010

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	12/13/10 14:46
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/13/10 14:46
<b>Ethylbenzene</b>	<b>360</b>	0.50	ug/L	12/13/10 14:46
<b>P,M-Xylene</b>	<b>150</b>	1.0	ug/L	12/13/10 14:46
<b>O-Xylene</b>	<b>0.69</b>	0.50	ug/L	12/13/10 14:46
Styrene	< 0.50	0.50	ug/L	12/13/10 14:46
<b>Isopropyl benzene</b>	<b>44</b>	0.50	ug/L	12/13/10 14:46
Bromoform	< 0.50	0.50	ug/L	12/13/10 14:46
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/13/10 14:46
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	12/13/10 14:46
<b>n-Propylbenzene</b>	<b>100</b>	0.50	ug/L	12/13/10 14:46
Bromobenzene	< 0.50	0.50	ug/L	12/13/10 14:46
<b>1,3,5-Trimethylbenzene</b>	<b>15</b>	0.50	ug/L	12/13/10 14:46
2+4-Chlorotoluene	< 1.0	1.0	ug/L	12/13/10 14:46
tert-Butylbenzene	< 0.50	0.50	ug/L	12/13/10 14:46
<b>1,2,4-Trimethylbenzene</b>	<b>63</b>	0.50	ug/L	12/13/10 14:46
<b>sec-Butylbenzene</b>	<b>8.9</b>	0.50	ug/L	12/13/10 14:46
<b>p-Isopropyltoluene</b>	<b>1.8</b>	0.50	ug/L	12/13/10 14:46
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	12/13/10 14:46
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	12/13/10 14:46
<b>n-Butylbenzene</b>	<b>11</b>	0.50	ug/L	12/13/10 14:46
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	12/13/10 14:46
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	12/13/10 14:46
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	12/13/10 14:46
Hexachlorobutadiene	< 0.50	0.50	ug/L	12/13/10 14:46
<b>Naphthalene</b>	<b>180</b>	0.50	ug/L	12/13/10 14:46
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	12/13/10 14:46
1,2-Dichloroethane-d4 (Surr)	96.7		% Recovery	12/13/10 14:46
4-Bromofluorobenzene (Surr)	98.8		% Recovery	12/13/10 14:46
Toluene - d8 (Surr)	98.9		% Recovery	12/13/10 14:46

Report Number : 75647

Date : 04/30/2012

QC Report : Method Blank Data

Project Name : Former Live Oak Service

Project Number : GP0110

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/10/2010	P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	12/10/2010
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	Styrene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Bromomethane	< 20	20	ug/L	EPA 8260B	12/10/2010	Bromoform	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	12/10/2010	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	12/10/2010
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
1,1-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,2-Dichloroethane-d4 (Surr)	100	%		EPA 8260B	12/10/2010
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	4-Bromofluorobenzene (Surr)	98.4	%		EPA 8260B	12/10/2010
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	Toluene - d8 (Surr)	102	%		EPA 8260B	12/10/2010
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010						
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010						
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010						
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010						
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010						
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010						
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010						

Report Number : 75647

Date : 04/30/2012

**QC Report : Method Blank Data**  
**Project Name : Former Live Oak Service**  
**Project Number : GP0110**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/10/2010	P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	12/10/2010
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	Styrene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Bromomethane	< 20	20	ug/L	EPA 8260B	12/10/2010	Bromoform	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	12/10/2010	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	12/10/2010
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
1,1-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	1,2-Dichloroethane-d4 (Surr)	99.3	%		EPA 8260B	12/10/2010
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	4-Bromofluorobenzene (Surr)	98.8	%		EPA 8260B	12/10/2010
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010	Toluene - d8 (Surr)	99.3	%		EPA 8260B	12/10/2010
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010						
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010						
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010						
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010						
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010						
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010						
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/10/2010						

Report Number : 75647

Date : 04/30/2012

**QC Report : Method Blank Data**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/13/2010	P,Mt-Xylene	< 1.0	1.0	ug/L	EPA 8260B	12/13/2010
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	Styrene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
Bromomethane	< 20	20	ug/L	EPA 8260B	12/13/2010	Bromoforn	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	12/13/2010	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	12/13/2010
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	1,2-Dichloroethane-d4 (Surr)	98.8	%		EPA 8260B	12/13/2010
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	4-Bromofluorobenzene (Surr)	97.3	%		EPA 8260B	12/13/2010
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010	Toluene - d8 (Surr)	100	%		EPA 8260B	12/13/2010
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010						
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010						
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010						
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010						
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010						
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010						
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/13/2010						

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	75647-02	<0.50	40.0	40.0	39.2	37.8	ug/L	EPA 8260B	12/10/10	97.9	94.6	3.35	80-120	25
Ethylbenzene	75647-02	<0.50	40.0	40.0	41.1	39.3	ug/L	EPA 8260B	12/10/10	103	98.3	4.42	80-120	25
Methyl-t-butyl ether	75647-02	<0.50	40.0	40.0	39.8	39.3	ug/L	EPA 8260B	12/10/10	99.5	98.2	1.25	69.7-121	25
P + M Xylene	75647-02	<1.0	40.0	40.0	40.7	39.6	ug/L	EPA 8260B	12/10/10	102	98.9	2.90	76.8-120	25
Toluene	75647-02	<0.50	40.0	40.0	40.8	39.2	ug/L	EPA 8260B	12/10/10	102	98.0	3.87	80-120	25
Benzene	75647-01	<0.50	40.0	40.0	38.7	37.8	ug/L	EPA 8260B	12/10/10	96.7	94.5	2.29	80-120	25
Ethylbenzene	75647-01	<0.50	40.0	40.0	41.2	40.0	ug/L	EPA 8260B	12/10/10	103	99.9	3.09	80-120	25
Methyl-t-butyl ether	75647-01	<0.50	40.0	40.0	38.0	38.0	ug/L	EPA 8260B	12/10/10	95.0	94.9	0.0727	69.7-121	25
P + M Xylene	75647-01	<1.0	40.0	40.0	40.0	39.1	ug/L	EPA 8260B	12/10/10	99.9	97.8	2.11	76.8-120	25



Report Number : 75647

Date : 04/30/2012

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Toluene	75647-01	<0.50	40.0	40.0	38.9	38.2	ug/L	EPA 8260B	12/10/10	97.3	95.6	1.80	80-120	25
Benzene	75653-10	<0.50	40.0	40.0	41.3	40.2	ug/L	EPA 8260B	12/13/10	103	100	2.85	80-120	25
Ethylbenzene	75653-10	<0.50	40.0	40.0	40.3	39.3	ug/L	EPA 8260B	12/13/10	101	98.3	2.33	80-120	25
Methyl-t-butyl ether	75653-10	3.1	40.0	40.0	40.0	39.1	ug/L	EPA 8260B	12/13/10	92.3	90.0	2.45	69.7-121	25
P + M Xylene	75653-10	<1.0	40.0	40.0	39.3	38.8	ug/L	EPA 8260B	12/13/10	98.2	97.0	1.21	76.8-120	25
Toluene	75653-10	<0.50	40.0	40.0	40.9	40.1	ug/L	EPA 8260B	12/13/10	102	100	1.92	80-120	25
1,1,1,2-Tetrachloroethane	75647-02	<0.50	40.0	40.0	43.2	41.7	ug/L	EPA 8260B	12/10/10	108	104	3.57	70.0-130	25
1,1,1-Trichloroethane	75647-02	<0.50	40.0	40.0	40.6	39.3	ug/L	EPA 8260B	12/10/10	102	98.3	3.24	70.0-130	25
1,1,2,2-Tetrachloroethane	75647-02	<0.50	40.0	40.0	41.6	41.2	ug/L	EPA 8260B	12/10/10	104	103	1.09	80-121	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,1,2-Trichloroethane	75647-02	<0.50	40.0	40.0	41.2	40.3	ug/L	EPA 8260B	12/10/10	103	101	2.30	70.0-130	25
1,1-Dichloroethane	75647-02	<0.50	40.0	40.0	40.3	38.9	ug/L	EPA 8260B	12/10/10	101	97.2	3.50	76.5-120	25
1,1-Dichloroethene	75647-02	<0.50	40.0	40.0	42.0	39.9	ug/L	EPA 8260B	12/10/10	105	99.7	5.28	69.6-124	25
1,1-Dichloropropene	75647-02	<0.50	40.0	40.0	41.5	39.6	ug/L	EPA 8260B	12/10/10	104	99.1	4.63	70.0-130	25
1,2,3-Trichlorobenzene	75647-02	<0.50	40.0	40.0	39.5	38.6	ug/L	EPA 8260B	12/10/10	98.8	96.6	2.21	70.0-130	25
1,2,3-Trichloropropane	75647-02	<0.50	40.0	40.0	39.9	40.1	ug/L	EPA 8260B	12/10/10	99.8	100	0.424	70.0-130	25
1,2,4-Trichlorobenzene	75647-02	<0.50	40.0	40.0	38.7	38.1	ug/L	EPA 8260B	12/10/10	96.8	95.3	1.61	70.0-130	25
1,2,4-Trimethylbenzene	75647-02	<0.50	40.0	40.0	42.2	40.7	ug/L	EPA 8260B	12/10/10	105	102	3.64	70.0-130	25
1,2-Dibromoethane	75647-02	<0.50	40.0	40.0	43.2	42.2	ug/L	EPA 8260B	12/10/10	108	106	2.17	80-120	25
1,2-Dichlorobenzene	75647-02	<0.50	40.0	40.0	38.8	38.1	ug/L	EPA 8260B	12/10/10	97.0	95.2	1.89	80-120	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,2-Dichloroethane	75647-02	<0.50	40.0	40.0	39.9	39.0	ug/L	EPA 8260B	12/10/10	99.8	97.4	2.38	75.7-122	25
1,2-Dichloropropane	75647-02	<0.50	40.0	40.0	40.6	39.5	ug/L	EPA 8260B	12/10/10	102	98.8	2.78	80-120	25
1,2-dibromo-3-chloropropane	75647-02	<0.50	40.0	40.0	41.2	42.0	ug/L	EPA 8260B	12/10/10	103	105	1.99	70.0-130	25
1,3,5-Trimethylbenzene	75647-02	<0.50	40.0	40.0	43.4	42.1	ug/L	EPA 8260B	12/10/10	108	105	2.85	70.0-130	25
1,3-Dichlorobenzene	75647-02	<0.50	40.0	40.0	41.3	39.8	ug/L	EPA 8260B	12/10/10	103	99.6	3.68	79.3-120	25
1,3-Dichloropropane	75647-02	<0.50	40.0	40.0	41.0	39.6	ug/L	EPA 8260B	12/10/10	102	98.9	3.50	70.0-130	25
1,4-Dichlorobenzene	75647-02	<0.50	40.0	40.0	39.2	37.6	ug/L	EPA 8260B	12/10/10	97.9	93.9	4.16	80-120	25
2+4-Chlorotoluene	75647-02	<1.0	80.0	80.0	81.4	78.9	ug/L	EPA 8260B	12/10/10	102	98.6	3.14	70.0-130	25
2,2-Dichloropropane	75647-02	<0.50	40.0	40.0	42.4	40.7	ug/L	EPA 8260B	12/10/10	106	102	4.11	65.6-145	25
Bromobenzene	75647-02	<0.50	40.0	40.0	41.1	39.5	ug/L	EPA 8260B	12/10/10	103	98.8	3.88	70.0-130	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Bromochloromethane	75647-02	<0.50	40.0	40.0	40.4	40.3	ug/L	EPA 8260B	12/10/10	101	101	0.190	70.0-130	25
Bromodichloromethane	75647-02	<0.50	40.0	40.0	42.2	41.3	ug/L	EPA 8260B	12/10/10	106	103	2.22	70.0-130	25
Bromoform	75647-02	<0.50	40.0	40.0	45.2	45.2	ug/L	EPA 8260B	12/10/10	113	113	0.0469	73.0-142	25
Bromomethane	75647-02	<20	200	200	184	186	ug/L	EPA 8260B	12/10/10	92.1	93.1	1.07	33.5-140	25
Carbon Tetrachloride	75647-02	<0.50	40.0	40.0	43.0	41.2	ug/L	EPA 8260B	12/10/10	107	103	4.28	70.0-130	25
Chlorobenzene	75647-02	<0.50	40.0	40.0	40.7	38.9	ug/L	EPA 8260B	12/10/10	102	97.2	4.61	80-120	25
Chloroethane	75647-02	<0.50	40.0	40.0	39.9	38.4	ug/L	EPA 8260B	12/10/10	99.8	96.1	3.84	70.0-130	25
Chloroform	75647-02	<0.50	40.0	40.0	39.6	38.5	ug/L	EPA 8260B	12/10/10	99.0	96.2	2.91	80.0-120	25
Chloromethane	75647-02	<0.50	40.0	40.0	39.5	37.6	ug/L	EPA 8260B	12/10/10	98.7	94.0	4.88	45.9-142	25
Dibromochloromethane	75647-02	<0.50	40.0	40.0	46.2	44.2	ug/L	EPA 8260B	12/10/10	116	110	4.39	70.0-130	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Dibromomethane	75647-02	<0.50	40.0	40.0	42.9	41.9	ug/L	EPA 8260B	12/10/10	107	105	2.39	70.0-130	25
Dichlorodifluoromethane	75647-02	<0.50	40.0	40.0	41.1	39.8	ug/L	EPA 8260B	12/10/10	103	99.4	3.28	47.4-151	25
Hexachlorobutadiene	75647-02	<0.50	40.0	40.0	40.0	39.7	ug/L	EPA 8260B	12/10/10	100	99.2	0.875	70.0-130	25
Isopropyl benzene	75647-02	<0.50	40.0	40.0	42.0	40.8	ug/L	EPA 8260B	12/10/10	105	102	2.89	70.0-130	25
Methylene Chloride	75647-02	<5.0	40.0	40.0	39.5	38.2	ug/L	EPA 8260B	12/10/10	98.7	95.4	3.34	70.0-130	25
Naphthalene	75647-02	<0.50	40.0	40.0	40.6	40.3	ug/L	EPA 8260B	12/10/10	101	101	0.683	70.0-130	25
O-Xylene	75647-02	<0.50	40.0	40.0	40.8	39.5	ug/L	EPA 8260B	12/10/10	102	98.8	3.09	79.7-120	25
Styrene	75647-02	<0.50	40.0	40.0	41.2	40.1	ug/L	EPA 8260B	12/10/10	103	100	2.76	70.0-130	25
Tetrachloroethene	75647-02	12	40.0	40.0	54.4	52.2	ug/L	EPA 8260B	12/10/10	106	101	5.21	77.0-120	25
Trichloroethene	75647-02	<0.50	40.0	40.0	40.9	39.3	ug/L	EPA 8260B	12/10/10	102	98.2	4.05	80-120	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Trichlorofluoromethane	75647-02	<0.50	40.0	40.0	41.8	40.2	ug/L	EPA 8260B	12/10/10	104	100	3.72	70.0-130	25
Vinyl Chloride	75647-02	<0.50	40.0	40.0	40.1	37.9	ug/L	EPA 8260B	12/10/10	100	94.8	5.69	42.1-138	25
c-1,3-Dichloropropene	75647-02	<5.0	40.0	40.0	41.4	40.3	ug/L	EPA 8260B	12/10/10	104	101	2.78	70.0-130	25
cis-1,2-Dichloroethene	75647-02	<0.50	40.0	40.0	39.7	38.7	ug/L	EPA 8260B	12/10/10	99.3	96.9	2.47	70.0-130	25
n-butylbenzene	75647-02	<0.50	40.0	40.0	40.8	39.6	ug/L	EPA 8260B	12/10/10	102	99.1	3.03	70.0-130	25
n-propylbenzene	75647-02	<0.50	40.0	40.0	42.1	41.5	ug/L	EPA 8260B	12/10/10	105	104	1.52	70.0-130	25
p-isopropyltoluene	75647-02	<0.50	40.0	40.0	42.7	41.0	ug/L	EPA 8260B	12/10/10	107	102	4.06	70.0-130	25
sec-butylbenzene	75647-02	<0.50	40.0	40.0	41.4	40.1	ug/L	EPA 8260B	12/10/10	103	100	2.98	70.0-130	25
t-1,2-Dichloroethene	75647-02	<5.0	40.0	40.0	39.7	37.8	ug/L	EPA 8260B	12/10/10	99.2	94.5	4.80	70.0-130	25
t-1,3-Dichloropropene	75647-02	<5.0	40.0	40.0	43.5	42.0	ug/L	EPA 8260B	12/10/10	109	105	3.71	70.0-130	25

Report Number : 75647

Date : 04/30/2012

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
tert-butylbenzene	75647-02	<0.50	40.0	40.0	41.1	39.8	ug/L	EPA 8260B	12/10/10	103	99.4	3.22	70.0-130	25
1,1,1,2-Tetrachloroethane	75647-01	<0.50	40.0	40.0	39.8	39.1	ug/L	EPA 8260B	12/10/10	99.6	97.8	1.87	70.0-130	25
1,1,1-Trichloroethane	75647-01	<0.50	40.0	40.0	38.6	37.9	ug/L	EPA 8260B	12/10/10	96.6	94.7	2.00	70.0-130	25
1,1,2,2-Tetrachloroethane	75647-01	<0.50	40.0	40.0	40.7	40.1	ug/L	EPA 8260B	12/10/10	102	100	1.47	80-121	25
1,1,2-Trichloroethane	75647-01	<0.50	40.0	40.0	39.3	39.1	ug/L	EPA 8260B	12/10/10	98.2	97.7	0.504	70.0-130	25
1,1-Dichloroethane	75647-01	<0.50	40.0	40.0	38.7	37.4	ug/L	EPA 8260B	12/10/10	96.8	93.4	3.63	76.5-120	25
1,1-Dichloroethene	75647-01	<0.50	40.0	40.0	38.0	36.6	ug/L	EPA 8260B	12/10/10	95.1	91.4	4.04	69.6-124	25
1,1-Dichloropropene	75647-01	<0.50	40.0	40.0	39.2	38.4	ug/L	EPA 8260B	12/10/10	98.0	95.9	2.14	70.0-130	25
1,2,3-Trichlorobenzene	75647-01	<0.50	40.0	40.0	40.2	40.3	ug/L	EPA 8260B	12/10/10	100	101	0.432	70.0-130	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,2,3-Trichloropropane	75647-01	<0.50	40.0	40.0	39.2	38.8	ug/L	EPA 8260B	12/10/10	98.1	97.0	1.16	70.0-130	25
1,2,4-Trichlorobenzene	75647-01	<0.50	40.0	40.0	40.2	40.0	ug/L	EPA 8260B	12/10/10	100	99.9	0.597	70.0-130	25
1,2,4-Trimethylbenzene	75647-01	<0.50	40.0	40.0	40.1	39.0	ug/L	EPA 8260B	12/10/10	100	97.4	2.82	70.0-130	25
1,2-Dibromoethane	75647-01	<0.50	40.0	40.0	40.7	40.6	ug/L	EPA 8260B	12/10/10	102	102	0.196	80-120	25
1,2-Dichlorobenzene	75647-01	<0.50	40.0	40.0	39.5	39.8	ug/L	EPA 8260B	12/10/10	98.7	99.4	0.701	80-120	25
1,2-Dichloroethane	75647-01	<0.50	40.0	40.0	38.4	38.0	ug/L	EPA 8260B	12/10/10	96.0	95.0	1.03	75.7-122	25
1,2-Dichloropropane	75647-01	<0.50	40.0	40.0	38.9	38.4	ug/L	EPA 8260B	12/10/10	97.2	95.9	1.39	80-120	25
1,2-dibromo-3-chloropropane	75647-01	<0.50	40.0	40.0	40.9	41.5	ug/L	EPA 8260B	12/10/10	102	104	1.48	70.0-130	25
1,3,5-Trimethylbenzene	75647-01	<0.50	40.0	40.0	39.6	38.5	ug/L	EPA 8260B	12/10/10	98.9	96.2	2.73	70.0-130	25
1,3-Dichlorobenzene	75647-01	<0.50	40.0	40.0	40.1	39.1	ug/L	EPA 8260B	12/10/10	100	97.7	2.54	79.3-120	25



**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,3-Dichloropropane	75647-01	<0.50	40.0	40.0	38.9	38.7	ug/L	EPA 8260B	12/10/10	97.3	96.8	0.590	70.0-130	25
1,4-Dichlorobenzene	75647-01	<0.50	40.0	40.0	39.2	38.5	ug/L	EPA 8260B	12/10/10	98.1	96.3	1.88	80-120	25
2+4-Chlorotoluene	75647-01	<1.0	80.0	80.0	79.3	76.9	ug/L	EPA 8260B	12/10/10	99.1	96.1	3.08	70.0-130	25
2,2-Dichloropropane	75647-01	<0.50	40.0	40.0	41.4	39.8	ug/L	EPA 8260B	12/10/10	103	99.5	3.86	65.6-145	25
Bromobenzene	75647-01	<0.50	40.0	40.0	39.4	38.5	ug/L	EPA 8260B	12/10/10	98.6	96.2	2.48	70.0-130	25
Bromochloromethane	75647-01	<0.50	40.0	40.0	39.2	38.6	ug/L	EPA 8260B	12/10/10	98.0	96.4	1.57	70.0-130	25
Bromodichloromethane	75647-01	<0.50	40.0	40.0	38.8	38.8	ug/L	EPA 8260B	12/10/10	97.0	96.9	0.116	70.0-130	25
Bromoform	75647-01	<0.50	40.0	40.0	40.4	40.0	ug/L	EPA 8260B	12/10/10	101	99.9	1.22	73.0-142	25
Bromomethane	75647-01	<20	200	200	187	189	ug/L	EPA 8260B	12/10/10	93.5	94.6	1.13	33.5-140	25
Carbon Tetrachloride	75647-01	<0.50	40.0	40.0	39.2	38.0	ug/L	EPA 8260B	12/10/10	97.9	95.0	3.07	70.0-130	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Chlorobenzene	75647-01	<0.50	40.0	40.0	39.7	38.7	ug/L	EPA 8260B	12/10/10	99.2	96.8	2.47	80-120	25
Chloroethane	75647-01	<0.50	40.0	40.0	35.8	34.4	ug/L	EPA 8260B	12/10/10	89.4	85.9	3.99	70.0-130	25
Chloroform	75647-01	<0.50	40.0	40.0	38.7	37.8	ug/L	EPA 8260B	12/10/10	96.7	94.6	2.18	80.0-120	25
Chloromethane	75647-01	<0.50	40.0	40.0	40.9	38.6	ug/L	EPA 8260B	12/10/10	102	96.5	5.87	45.9-142	25
Dibromochloromethane	75647-01	<0.50	40.0	40.0	39.7	39.4	ug/L	EPA 8260B	12/10/10	99.2	98.5	0.766	70.0-130	25
Dibromomethane	75647-01	<0.50	40.0	40.0	39.0	38.8	ug/L	EPA 8260B	12/10/10	97.6	96.9	0.652	70.0-130	25
Dichlorodifluoromethane	75647-01	<0.50	40.0	40.0	44.7	39.4	ug/L	EPA 8260B	12/10/10	112	98.5	12.7	47.4-151	25
Hexachlorobutadiene	75647-01	<0.50	40.0	40.0	40.1	39.4	ug/L	EPA 8260B	12/10/10	100	98.5	1.82	70.0-130	25
Isopropyl benzene	75647-01	<0.50	40.0	40.0	41.2	39.4	ug/L	EPA 8260B	12/10/10	103	98.4	4.67	70.0-130	25
Methylene Chloride	75647-01	<5.0	40.0	40.0	37.8	37.5	ug/L	EPA 8260B	12/10/10	94.6	93.7	0.901	70.0-130	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Naphthalene	75647-01	<0.50	40.0	40.0	40.2	40.7	ug/L	EPA 8260B	12/10/10	100	102	1.24	70.0-130	25
O-Xylene	75647-01	<0.50	40.0	40.0	40.8	39.2	ug/L	EPA 8260B	12/10/10	102	97.9	4.06	79.7-120	25
Styrene	75647-01	<0.50	40.0	40.0	41.8	40.4	ug/L	EPA 8260B	12/10/10	104	101	3.38	70.0-130	25
Tetrachloroethene	75647-01	<0.50	40.0	40.0	38.9	37.8	ug/L	EPA 8260B	12/10/10	97.3	94.5	2.94	77.0-120	25
Trichloroethene	75647-01	<0.50	40.0	40.0	38.5	37.4	ug/L	EPA 8260B	12/10/10	96.4	93.4	3.06	80-120	25
Trichlorofluoromethane	75647-01	<0.50	40.0	40.0	39.7	38.4	ug/L	EPA 8260B	12/10/10	99.3	95.9	3.41	70.0-130	25
Vinyl Chloride	75647-01	<0.50	40.0	40.0	39.1	37.0	ug/L	EPA 8260B	12/10/10	97.7	92.4	5.60	42.1-138	25
c-1,3-Dichloropropene	75647-01	<5.0	40.0	40.0	38.9	38.1	ug/L	EPA 8260B	12/10/10	97.3	95.2	2.20	70.0-130	25
cis-1,2-Dichloroethene	75647-01	<0.50	40.0	40.0	38.8	38.2	ug/L	EPA 8260B	12/10/10	97.0	95.5	1.55	70.0-130	25
n-butylbenzene	75647-01	<0.50	40.0	40.0	40.2	39.8	ug/L	EPA 8260B	12/10/10	101	99.4	1.26	70.0-130	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
n-propylbenzene	75647-01	<0.50	40.0	40.0	40.0	38.8	ug/L	EPA 8260B	12/10/10	100	97.1	3.00	70.0-130	25
p-isopropyltoluene	75647-01	<0.50	40.0	40.0	40.5	38.9	ug/L	EPA 8260B	12/10/10	101	97.2	4.01	70.0-130	25
sec-butylbenzene	75647-01	<0.50	40.0	40.0	40.4	39.3	ug/L	EPA 8260B	12/10/10	101	98.2	2.71	70.0-130	25
t-1,2-Dichloroethene	75647-01	<5.0	40.0	40.0	39.0	37.9	ug/L	EPA 8260B	12/10/10	97.6	94.8	2.97	70.0-130	25
t-1,3-Dichloropropene	75647-01	<5.0	40.0	40.0	40.1	39.7	ug/L	EPA 8260B	12/10/10	100	99.2	1.05	70.0-130	25
tert-butylbenzene	75647-01	<0.50	40.0	40.0	40.2	38.9	ug/L	EPA 8260B	12/10/10	100	97.3	3.24	70.0-130	25
1,1,1,2-Tetrachloroethane	75653-10	<0.50	40.0	40.0	39.9	39.4	ug/L	EPA 8260B	12/13/10	99.9	98.5	1.38	70.0-130	25
1,1,1-Trichloroethane	75653-10	<0.50	40.0	40.0	41.4	40.0	ug/L	EPA 8260B	12/13/10	104	100	3.48	70.0-130	25
1,1,2,2-Tetrachloroethane	75653-10	<0.50	40.0	40.0	42.1	41.6	ug/L	EPA 8260B	12/13/10	105	104	1.34	80-121	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,1,2-Trichloroethane	75653-10	<0.50	40.0	40.0	41.2	40.4	ug/L	EPA 8260B	12/13/10	103	101	1.86	70.0-130	25
1,1-Dichloroethane	75653-10	<0.50	40.0	40.0	41.8	40.3	ug/L	EPA 8260B	12/13/10	104	101	3.68	76.5-120	25
1,1-Dichloroethene	75653-10	<0.50	40.0	40.0	40.7	39.6	ug/L	EPA 8260B	12/13/10	102	99.0	2.79	69.6-124	25
1,1-Dichloropropene	75653-10	<0.50	40.0	40.0	41.9	40.7	ug/L	EPA 8260B	12/13/10	105	102	2.93	70.0-130	25
1,2,3-Trichlorobenzene	75653-10	<0.50	40.0	40.0	40.5	39.5	ug/L	EPA 8260B	12/13/10	101	98.7	2.56	70.0-130	25
1,2,3-Trichloropropane	75653-10	<0.50	40.0	40.0	40.8	40.4	ug/L	EPA 8260B	12/13/10	102	101	0.774	70.0-130	25
1,2,4-Trichlorobenzene	75653-10	<0.50	40.0	40.0	41.2	40.2	ug/L	EPA 8260B	12/13/10	103	100	2.43	70.0-130	25
1,2,4-Trimethylbenzene	75653-10	<0.50	40.0	40.0	40.2	39.5	ug/L	EPA 8260B	12/13/10	100	98.7	1.85	70.0-130	25
1,2-Dibromoethane	75653-10	<0.50	40.0	40.0	42.7	42.1	ug/L	EPA 8260B	12/13/10	107	105	1.46	80-120	25
1,2-Dichlorobenzene	75653-10	<0.50	40.0	40.0	40.8	39.7	ug/L	EPA 8260B	12/13/10	102	99.2	2.84	80-120	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,2-Dichloroethane	75653-10	<0.50	40.0	40.0	41.4	40.2	ug/L	EPA 8260B	12/13/10	103	100	2.82	75.7-122	25
1,2-Dichloropropane	75653-10	<0.50	40.0	40.0	41.9	41.0	ug/L	EPA 8260B	12/13/10	105	102	2.13	80-120	25
1,2-dibromo-3-chloropropane	75653-10	<0.50	40.0	40.0	42.2	41.9	ug/L	EPA 8260B	12/13/10	106	105	0.900	70.0-130	25
1,3,5-Trimethylbenzene	75653-10	<0.50	40.0	40.0	40.1	39.3	ug/L	EPA 8260B	12/13/10	100	98.3	2.06	70.0-130	25
1,3-Dichlorobenzene	75653-10	<0.50	40.0	40.0	40.3	39.4	ug/L	EPA 8260B	12/13/10	101	98.4	2.43	79.3-120	25
1,3-Dichloropropane	75653-10	<0.50	40.0	40.0	41.4	40.5	ug/L	EPA 8260B	12/13/10	104	101	2.12	70.0-130	25
1,4-Dichlorobenzene	75653-10	<0.50	40.0	40.0	40.9	39.6	ug/L	EPA 8260B	12/13/10	102	99.0	3.15	80-120	25
2+4-Chlorotoluene	75653-10	<1.0	80.0	80.0	79.4	77.6	ug/L	EPA 8260B	12/13/10	99.2	97.0	2.27	70.0-130	25
2,2-Dichloropropane	75653-10	<0.50	40.0	40.0	55.1	52.2	ug/L	EPA 8260B	12/13/10	138	130	5.51	65.6-145	25
Bromobenzene	75653-10	<0.50	40.0	40.0	39.1	38.1	ug/L	EPA 8260B	12/13/10	97.6	95.3	2.42	70.0-130	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Bromochloromethane	75653-10	<0.50	40.0	40.0	40.3	39.8	ug/L	EPA 8260B	12/13/10	101	99.6	1.26	70.0-130	25
Bromodichloromethane	75653-10	<0.50	40.0	40.0	42.5	41.5	ug/L	EPA 8260B	12/13/10	106	104	2.31	70.0-130	25
Bromoform	75653-10	<0.50	40.0	40.0	41.5	41.2	ug/L	EPA 8260B	12/13/10	104	103	0.770	73.0-142	25
Bromomethane	75653-10	<20	200	200	188	195	ug/L	EPA 8260B	12/13/10	94.0	97.7	3.86	33.5-140	25
Carbon Tetrachloride	75653-10	<0.50	40.0	40.0	41.3	40.2	ug/L	EPA 8260B	12/13/10	103	100	2.80	70.0-130	25
Chlorobenzene	75653-10	<0.50	40.0	40.0	39.7	39.0	ug/L	EPA 8260B	12/13/10	99.3	97.4	2.00	80-120	25
Chloroethane	75653-10	<0.50	40.0	40.0	41.4	39.6	ug/L	EPA 8260B	12/13/10	104	99.0	4.55	70.0-130	25
Chloroform	75653-10	<0.50	40.0	40.0	41.3	40.1	ug/L	EPA 8260B	12/13/10	103	100	2.78	80.0-120	25
Chloromethane	75653-10	<0.50	40.0	40.0	43.6	42.1	ug/L	EPA 8260B	12/13/10	109	105	3.44	45.9-142	25
Dibromochloromethane	75653-10	<0.50	40.0	40.0	42.1	41.2	ug/L	EPA 8260B	12/13/10	105	103	2.04	70.0-130	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Dibromomethane	75653-10	<0.50	40.0	40.0	40.8	40.0	ug/L	EPA 8260B	12/13/10	102	100	2.06	70.0-130	25
Dichlorodifluoromethane	75653-10	<0.50	40.0	40.0	40.2	38.6	ug/L	EPA 8260B	12/13/10	100	96.6	3.97	47.4-151	25
Hexachlorobutadiene	75653-10	<0.50	40.0	40.0	41.0	39.8	ug/L	EPA 8260B	12/13/10	102	99.4	2.99	70.0-130	25
Isopropyl benzene	75653-10	<0.50	40.0	40.0	39.9	39.2	ug/L	EPA 8260B	12/13/10	99.8	97.9	1.94	70.0-130	25
Methylene Chloride	75653-10	<5.0	40.0	40.0	40.6	39.5	ug/L	EPA 8260B	12/13/10	102	98.8	2.82	70.0-130	25
Naphthalene	75653-10	<0.50	40.0	40.0	41.6	40.6	ug/L	EPA 8260B	12/13/10	104	102	2.45	70.0-130	25
O-Xylene	75653-10	<0.50	40.0	40.0	40.0	39.2	ug/L	EPA 8260B	12/13/10	99.9	98.0	1.91	79.7-120	25
Styrene	75653-10	<0.50	40.0	40.0	41.8	40.9	ug/L	EPA 8260B	12/13/10	104	102	2.12	70.0-130	25
Tetrachloroethene	75653-10	<0.50	40.0	40.0	40.4	39.1	ug/L	EPA 8260B	12/13/10	101	97.7	3.38	77.0-120	25
Trichloroethene	75653-10	<0.50	40.0	40.0	39.3	38.4	ug/L	EPA 8260B	12/13/10	98.2	96.0	2.21	80-120	25



**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Trichlorofluoromethane	75653-10	<0.50	40.0	40.0	42.0	40.4	ug/L	EPA 8260B	12/13/10	105	101	4.01	70.0-130	25
Vinyl Chloride	75653-10	<0.50	40.0	40.0	41.7	40.0	ug/L	EPA 8260B	12/13/10	104	100	4.22	42.1-138	25
c-1,3-Dichloropropene	75653-10	<5.0	40.0	40.0	43.3	42.2	ug/L	EPA 8260B	12/13/10	108	105	2.62	70.0-130	25
cis-1,2-Dichloroethene	75653-10	<0.50	40.0	40.0	41.3	39.9	ug/L	EPA 8260B	12/13/10	103	99.8	3.36	70.0-130	25
n-butylbenzene	75653-10	<0.50	40.0	40.0	42.6	41.1	ug/L	EPA 8260B	12/13/10	106	103	3.39	70.0-130	25
n-propylbenzene	75653-10	<0.50	40.0	40.0	40.0	39.2	ug/L	EPA 8260B	12/13/10	100	97.9	2.19	70.0-130	25
p-isopropyltoluene	75653-10	<0.50	40.0	40.0	40.7	39.8	ug/L	EPA 8260B	12/13/10	102	99.5	2.28	70.0-130	25
sec-butylbenzene	75653-10	<0.50	40.0	40.0	40.1	39.3	ug/L	EPA 8260B	12/13/10	100	98.2	2.11	70.0-130	25
t-1,2-Dichloroethene	75653-10	<5.0	40.0	40.0	41.3	40.1	ug/L	EPA 8260B	12/13/10	103	100	2.94	70.0-130	25
t-1,3-Dichloropropene	75653-10	<5.0	40.0	40.0	44.6	43.5	ug/L	EPA 8260B	12/13/10	112	109	2.50	70.0-130	25

Report Number : 75647

Date : 04/30/2012

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
tert-butylbenzene	75653-10	<0.50	40.0	40.0	39.2	38.7	ug/L	EPA 8260B	12/13/10	98.1	96.7	1.39	70.0-130	25

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	12/10/10	94.2	80-120
Ethylbenzene	40.0	ug/L	EPA 8260B	12/10/10	98.6	80-120
Methyl-t-butyl ether	40.0	ug/L	EPA 8260B	12/10/10	94.7	69.7-121
P + M Xylene	40.0	ug/L	EPA 8260B	12/10/10	97.9	76.8-120
TPH as Gasoline	498	ug/L	EPA 8260B	12/10/10	90.8	70.0-130
Toluene	40.0	ug/L	EPA 8260B	12/10/10	97.6	80-120
1,1,1,2-Tetrachloroethane	40.0	ug/L	EPA 8260B	12/10/10	103	70.0-130
1,1,1-Trichloroethane	40.0	ug/L	EPA 8260B	12/10/10	99.4	70.0-130
1,1,2,2-Tetrachloroethane	40.0	ug/L	EPA 8260B	12/10/10	98.4	80-121
1,1,2-Trichloroethane	40.0	ug/L	EPA 8260B	12/10/10	96.7	70.0-130
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	12/10/10	95.8	76.5-120
1,1-Dichloroethene	40.0	ug/L	EPA 8260B	12/10/10	96.9	69.6-124
1,1-Dichloropropene	40.0	ug/L	EPA 8260B	12/10/10	99.2	70.0-130
1,2,3-Trichlorobenzene	40.0	ug/L	EPA 8260B	12/10/10	93.9	70.0-130
1,2,3-Trichloropropane	40.0	ug/L	EPA 8260B	12/10/10	94.1	70.0-130
1,2,4-Trichlorobenzene	40.0	ug/L	EPA 8260B	12/10/10	92.6	70.0-130
1,2,4-Trimethylbenzene	40.0	ug/L	EPA 8260B	12/10/10	101	70.0-130
1,2-Dibromoethane	40.0	ug/L	EPA 8260B	12/10/10	101	80-120
1,2-Dichlorobenzene	40.0	ug/L	EPA 8260B	12/10/10	93.1	80-120
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	12/10/10	95.8	75.7-122
1,2-Dichloropropane	40.0	ug/L	EPA 8260B	12/10/10	97.8	80-120
1,2-dibromo-3-chloropropane	40.0	ug/L	EPA 8260B	12/10/10	93.5	70.0-130
1,3,5-Trimethylbenzene	40.0	ug/L	EPA 8260B	12/10/10	105	70.0-130

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,3-Dichlorobenzene	40.0	ug/L	EPA 8260B	12/10/10	97.5	79.3-120
1,3-Dichloropropane	40.0	ug/L	EPA 8260B	12/10/10	96.0	70.0-130
1,4-Dichlorobenzene	40.0	ug/L	EPA 8260B	12/10/10	93.2	80-120
2+4-Chlorotoluene	80.0	ug/L	EPA 8260B	12/10/10	96.4	70.0-130
2,2-Dichloropropane	40.0	ug/L	EPA 8260B	12/10/10	103	65.6-145
Bromobenzene	40.0	ug/L	EPA 8260B	12/10/10	98.6	70.0-130
Bromochloromethane	40.0	ug/L	EPA 8260B	12/10/10	94.8	70.0-130
Bromodichloromethane	40.0	ug/L	EPA 8260B	12/10/10	104	70.0-130
Bromoform	40.0	ug/L	EPA 8260B	12/10/10	112	73.0-142
Bromomethane	200	ug/L	EPA 8260B	12/10/10	84.2	33.5-140
Carbon Tetrachloride	40.0	ug/L	EPA 8260B	12/10/10	104	70.0-130
Chlorobenzene	40.0	ug/L	EPA 8260B	12/10/10	96.9	80-120
Chloroethane	40.0	ug/L	EPA 8260B	12/10/10	93.1	70.0-130
Chloroform	40.0	ug/L	EPA 8260B	12/10/10	95.5	80.0-120
Chloromethane	40.0	ug/L	EPA 8260B	12/10/10	91.2	45.9-142
Dibromochloromethane	40.0	ug/L	EPA 8260B	12/10/10	112	70.0-130
Dibromomethane	40.0	ug/L	EPA 8260B	12/10/10	102	70.0-130
Dichlorodifluoromethane	40.0	ug/L	EPA 8260B	12/10/10	98.2	47.4-151
Hexachlorobutadiene	40.0	ug/L	EPA 8260B	12/10/10	96.3	70.0-130
Isopropyl benzene	40.0	ug/L	EPA 8260B	12/10/10	100	70.0-130
Methylene Chloride	40.0	ug/L	EPA 8260B	12/10/10	93.1	70.0-130
Naphthalene	40.0	ug/L	EPA 8260B	12/10/10	95.9	70.0-130
O-Xylene	40.0	ug/L	EPA 8260B	12/10/10	97.8	79.7-120

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Styrene	40.0	ug/L	EPA 8260B	12/10/10	102	70.0-130
Tetrachloroethene	40.0	ug/L	EPA 8260B	12/10/10	98.5	77.0-120
Trichloroethene	40.0	ug/L	EPA 8260B	12/10/10	96.6	80-120
Trichlorofluoromethane	40.0	ug/L	EPA 8260B	12/10/10	97.4	70.0-130
Vinyl Chloride	40.0	ug/L	EPA 8260B	12/10/10	92.7	42.1-138
c-1,3-Dichloropropene	40.0	ug/L	EPA 8260B	12/10/10	101	70.0-130
cis-1,2-Dichloroethene	40.0	ug/L	EPA 8260B	12/10/10	94.5	70.0-130
n-butylbenzene	40.0	ug/L	EPA 8260B	12/10/10	97.1	70.0-130
n-propylbenzene	40.0	ug/L	EPA 8260B	12/10/10	100	70.0-130
p-isopropyltoluene	40.0	ug/L	EPA 8260B	12/10/10	102	70.0-130
sec-butylbenzene	40.0	ug/L	EPA 8260B	12/10/10	99.1	70.0-130
t-1,2-Dichloroethene	40.0	ug/L	EPA 8260B	12/10/10	91.2	70.0-130
t-1,3-Dichloropropene	40.0	ug/L	EPA 8260B	12/10/10	105	70.0-130
tert-butylbenzene	40.0	ug/L	EPA 8260B	12/10/10	98.2	70.0-130
Benzene	39.9	ug/L	EPA 8260B	12/10/10	95.4	80-120
Ethylbenzene	39.9	ug/L	EPA 8260B	12/10/10	102	80-120
Methyl-t-butyl ether	39.9	ug/L	EPA 8260B	12/10/10	94.6	69.7-121
P + M Xylene	39.9	ug/L	EPA 8260B	12/10/10	98.0	76.8-120
TPH as Gasoline	498	ug/L	EPA 8260B	12/10/10	96.4	70.0-130
Toluene	39.9	ug/L	EPA 8260B	12/10/10	95.6	80-120
1,1,1,2-Tetrachloroethane	39.9	ug/L	EPA 8260B	12/10/10	97.7	70.0-130
1,1,1-Trichloroethane	39.9	ug/L	EPA 8260B	12/10/10	96.3	70.0-130

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,1,2,2-Tetrachloroethane	39.9	ug/L	EPA 8260B	12/10/10	98.2	80-121
1,1,2-Trichloroethane	39.9	ug/L	EPA 8260B	12/10/10	96.3	70.0-130
1,1-Dichloroethane	39.9	ug/L	EPA 8260B	12/10/10	96.4	76.5-120
1,1-Dichloroethene	39.9	ug/L	EPA 8260B	12/10/10	93.9	69.6-124
1,1-Dichloropropene	39.9	ug/L	EPA 8260B	12/10/10	97.9	70.0-130
1,2,3-Trichlorobenzene	39.9	ug/L	EPA 8260B	12/10/10	97.4	70.0-130
1,2,3-Trichloropropane	39.9	ug/L	EPA 8260B	12/10/10	96.9	70.0-130
1,2,4-Trichlorobenzene	39.9	ug/L	EPA 8260B	12/10/10	96.1	70.0-130
1,2,4-Trimethylbenzene	39.9	ug/L	EPA 8260B	12/10/10	98.6	70.0-130
1,2-Dibromoethane	39.9	ug/L	EPA 8260B	12/10/10	101	80-120
1,2-Dichlorobenzene	39.9	ug/L	EPA 8260B	12/10/10	96.6	80-120
1,2-Dichloroethane	39.9	ug/L	EPA 8260B	12/10/10	95.1	75.7-122
1,2-Dichloropropane	39.9	ug/L	EPA 8260B	12/10/10	95.7	80-120
1,2-dibromo-3-chloropropane	39.9	ug/L	EPA 8260B	12/10/10	101	70.0-130
1,3,5-Trimethylbenzene	39.9	ug/L	EPA 8260B	12/10/10	96.7	70.0-130
1,3-Dichlorobenzene	39.9	ug/L	EPA 8260B	12/10/10	98.4	79.3-120
1,3-Dichloropropane	39.9	ug/L	EPA 8260B	12/10/10	96.9	70.0-130
1,4-Dichlorobenzene	39.9	ug/L	EPA 8260B	12/10/10	94.9	80-120
2+4-Chlorotoluene	79.8	ug/L	EPA 8260B	12/10/10	96.7	70.0-130
2,2-Dichloropropane	39.9	ug/L	EPA 8260B	12/10/10	101	65.6-145
Bromobenzene	39.9	ug/L	EPA 8260B	12/10/10	96.4	70.0-130
Bromochloromethane	39.9	ug/L	EPA 8260B	12/10/10	96.5	70.0-130
Bromodichloromethane	39.9	ug/L	EPA 8260B	12/10/10	96.3	70.0-130

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Bromoform	39.9	ug/L	EPA 8260B	12/10/10	99.0	73.0-142
Bromomethane	200	ug/L	EPA 8260B	12/10/10	94.0	33.5-140
Carbon Tetrachloride	39.9	ug/L	EPA 8260B	12/10/10	96.9	70.0-130
Chlorobenzene	39.9	ug/L	EPA 8260B	12/10/10	97.6	80-120
Chloroethane	39.9	ug/L	EPA 8260B	12/10/10	88.6	70.0-130
Chloroform	39.9	ug/L	EPA 8260B	12/10/10	97.1	80.0-120
Chloromethane	39.9	ug/L	EPA 8260B	12/10/10	104	45.9-142
Dibromochloromethane	39.9	ug/L	EPA 8260B	12/10/10	96.2	70.0-130
Dibromomethane	39.9	ug/L	EPA 8260B	12/10/10	96.3	70.0-130
Dichlorodifluoromethane	39.9	ug/L	EPA 8260B	12/10/10	109	47.4-151
Hexachlorobutadiene	39.9	ug/L	EPA 8260B	12/10/10	102	70.0-130
Isopropyl benzene	39.9	ug/L	EPA 8260B	12/10/10	99.7	70.0-130
Methylene Chloride	39.9	ug/L	EPA 8260B	12/10/10	95.6	70.0-130
Naphthalene	39.9	ug/L	EPA 8260B	12/10/10	97.9	70.0-130
O-Xylene	39.9	ug/L	EPA 8260B	12/10/10	98.7	79.7-120
Styrene	39.9	ug/L	EPA 8260B	12/10/10	102	70.0-130
Tetrachloroethene	39.9	ug/L	EPA 8260B	12/10/10	93.1	77.0-120
Trichloroethene	39.9	ug/L	EPA 8260B	12/10/10	95.5	80-120
Trichlorofluoromethane	39.9	ug/L	EPA 8260B	12/10/10	101	70.0-130
Vinyl Chloride	39.9	ug/L	EPA 8260B	12/10/10	99.6	42.1-138
c-1,3-Dichloropropene	39.9	ug/L	EPA 8260B	12/10/10	95.6	70.0-130
cis-1,2-Dichloroethene	39.9	ug/L	EPA 8260B	12/10/10	96.7	70.0-130
n-butylbenzene	39.9	ug/L	EPA 8260B	12/10/10	99.4	70.0-130

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
n-propylbenzene	39.9	ug/L	EPA 8260B	12/10/10	98.1	70.0-130
p-isopropyltoluene	39.9	ug/L	EPA 8260B	12/10/10	99.7	70.0-130
sec-butylbenzene	39.9	ug/L	EPA 8260B	12/10/10	99.6	70.0-130
t-1,2-Dichloroethene	39.9	ug/L	EPA 8260B	12/10/10	99.0	70.0-130
t-1,3-Dichloropropene	39.9	ug/L	EPA 8260B	12/10/10	99.1	70.0-130
tert-butylbenzene	39.9	ug/L	EPA 8260B	12/10/10	99.5	70.0-130
Benzene	39.8	ug/L	EPA 8260B	12/13/10	98.9	80-120
Ethylbenzene	39.8	ug/L	EPA 8260B	12/13/10	96.5	80-120
Methyl-t-butyl ether	39.8	ug/L	EPA 8260B	12/13/10	88.4	69.7-121
P + M Xylene	39.8	ug/L	EPA 8260B	12/13/10	94.6	76.8-120
TPH as Gasoline	498	ug/L	EPA 8260B	12/13/10	96.0	70.0-130
Toluene	39.8	ug/L	EPA 8260B	12/13/10	98.0	80-120
1,1,1,2-Tetrachloroethane	39.8	ug/L	EPA 8260B	12/13/10	96.9	70.0-130
1,1,1-Trichloroethane	39.8	ug/L	EPA 8260B	12/13/10	99.0	70.0-130
1,1,2,2-Tetrachloroethane	39.8	ug/L	EPA 8260B	12/13/10	101	80-121
1,1,2-Trichloroethane	39.8	ug/L	EPA 8260B	12/13/10	98.5	70.0-130
1,1-Dichloroethane	39.8	ug/L	EPA 8260B	12/13/10	100	76.5-120
1,1-Dichloroethene	39.8	ug/L	EPA 8260B	12/13/10	97.5	69.6-124
1,1-Dichloropropene	39.8	ug/L	EPA 8260B	12/13/10	100	70.0-130
1,2,3-Trichlorobenzene	39.8	ug/L	EPA 8260B	12/13/10	96.8	70.0-130
1,2,3-Trichloropropane	39.8	ug/L	EPA 8260B	12/13/10	97.6	70.0-130
1,2,4-Trichlorobenzene	39.8	ug/L	EPA 8260B	12/13/10	98.8	70.0-130



**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,2,4-Trimethylbenzene	39.8	ug/L	EPA 8260B	12/13/10	97.5	70.0-130
1,2-Dibromoethane	39.8	ug/L	EPA 8260B	12/13/10	103	80-120
1,2-Dichlorobenzene	39.8	ug/L	EPA 8260B	12/13/10	97.0	80-120
1,2-Dichloroethane	39.8	ug/L	EPA 8260B	12/13/10	99.4	75.7-122
1,2-Dichloropropane	39.8	ug/L	EPA 8260B	12/13/10	100	80-120
1,2-dibromo-3-chloropropane	39.8	ug/L	EPA 8260B	12/13/10	96.6	70.0-130
1,3,5-Trimethylbenzene	39.8	ug/L	EPA 8260B	12/13/10	96.9	70.0-130
1,3-Dichlorobenzene	39.8	ug/L	EPA 8260B	12/13/10	97.7	79.3-120
1,3-Dichloropropane	39.8	ug/L	EPA 8260B	12/13/10	98.9	70.0-130
1,4-Dichlorobenzene	39.8	ug/L	EPA 8260B	12/13/10	97.6	80-120
2+4-Chlorotoluene	79.6	ug/L	EPA 8260B	12/13/10	95.5	70.0-130
2,2-Dichloropropane	39.8	ug/L	EPA 8260B	12/13/10	134	65.6-145
Bromobenzene	39.8	ug/L	EPA 8260B	12/13/10	94.0	70.0-130
Bromochloromethane	39.8	ug/L	EPA 8260B	12/13/10	97.5	70.0-130
Bromodichloromethane	39.8	ug/L	EPA 8260B	12/13/10	102	70.0-130
Bromoform	39.8	ug/L	EPA 8260B	12/13/10	101	73.0-142
Bromomethane	199	ug/L	EPA 8260B	12/13/10	85.6	33.5-140
Carbon Tetrachloride	39.8	ug/L	EPA 8260B	12/13/10	99.5	70.0-130
Chlorobenzene	39.8	ug/L	EPA 8260B	12/13/10	95.6	80-120
Chloroethane	39.8	ug/L	EPA 8260B	12/13/10	100	70.0-130
Chloroform	39.8	ug/L	EPA 8260B	12/13/10	99.9	80.0-120
Chloromethane	39.8	ug/L	EPA 8260B	12/13/10	108	45.9-142
Dibromochloromethane	39.8	ug/L	EPA 8260B	12/13/10	101	70.0-130

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service**

Project Number : **GP0110**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Dibromomethane	39.8	ug/L	EPA 8260B	12/13/10	98.2	70.0-130
Dichlorodifluoromethane	39.8	ug/L	EPA 8260B	12/13/10	98.4	47.4-151
Hexachlorobutadiene	39.8	ug/L	EPA 8260B	12/13/10	99.9	70.0-130
Isopropyl benzene	39.8	ug/L	EPA 8260B	12/13/10	96.4	70.0-130
Methylene Chloride	39.8	ug/L	EPA 8260B	12/13/10	97.2	70.0-130
Naphthalene	39.8	ug/L	EPA 8260B	12/13/10	98.3	70.0-130
O-Xylene	39.8	ug/L	EPA 8260B	12/13/10	96.2	79.7-120
Styrene	39.8	ug/L	EPA 8260B	12/13/10	101	70.0-130
Tetrachloroethene	39.8	ug/L	EPA 8260B	12/13/10	96.0	77.0-120
Trichloroethene	39.8	ug/L	EPA 8260B	12/13/10	94.1	80-120
Trichlorofluoromethane	39.8	ug/L	EPA 8260B	12/13/10	101	70.0-130
Vinyl Chloride	39.8	ug/L	EPA 8260B	12/13/10	100	42.1-138
c-1,3-Dichloropropene	39.8	ug/L	EPA 8260B	12/13/10	101	70.0-130
cis-1,2-Dichloroethene	39.8	ug/L	EPA 8260B	12/13/10	99.1	70.0-130
n-butylbenzene	39.8	ug/L	EPA 8260B	12/13/10	102	70.0-130
n-propylbenzene	39.8	ug/L	EPA 8260B	12/13/10	96.1	70.0-130
p-isopropyltoluene	39.8	ug/L	EPA 8260B	12/13/10	99.5	70.0-130
sec-butylbenzene	39.8	ug/L	EPA 8260B	12/13/10	98.0	70.0-130
t-1,2-Dichloroethene	39.8	ug/L	EPA 8260B	12/13/10	99.0	70.0-130
t-1,3-Dichloropropene	39.8	ug/L	EPA 8260B	12/13/10	107	70.0-130
tert-butylbenzene	39.8	ug/L	EPA 8260B	12/13/10	95.6	70.0-130



2795 2nd Street, Suite 300  
Davis, CA 95618  
Lab: 530.297.4800  
Fax: 530.297.4802

SRG # / Lab No.

75647

Page

of

Project Contact (Hardcopy or PDF To):

*Arren Wilder*

Company / Address: *Clearwater Grp.*

*239 Tewksbury Ave*

*Berkeley, CA 94801*

Phone Number: *510-307-9943*

Fax Number: *510-232-3823*

Project #: *GPD110*

Project Name: *Former live oak service*

Sampler Print Name: *Kevin Pope*

Sampler Signature: *Kevin Pope*

Project Address: *1671 Capitola Rd.*

*Santa Cruz, CA*

California EDF Report?  Yes  No

Sampling Company Log Code: *CWGO*

Global ID: *TP608700286*

EDF Deliverable To (Email Address): *EFixco@clearwatergroup.com*

Bill to: *clearwater*

Preservative: *None*

Container: *Tedlar*

Matrix: *Water*

40 ml VOA

Sleeve

Poly

Glass

None

HCl

HNO<sub>3</sub>

Water

Soil

Air

Chain-of-Custody Record and Analysis Request

Analysis Request

CIRCLE METHOD

CAM 17 Metals (EPA 200.7 / 6010)

TPH as Motor Oil (EPA 8015M)

TPH as Diesel (EPA 8015M)

Volatile Organics (EPA 524.2 Drinking Water)

Volatile Organics Full List (EPA 8260B)

Volatile Halocarbons (EPA 8260B)

Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)

7 Oxygenates (5 oxy + EtOH, MeOH) (EPA 8260B)

5 Oxygenates (MTBE, DIBE, ETBE, TAME, TBA) (EPA 8260B)

TPH Gas (EPA 8260B)

BTEX (EPA 8260B)

MTBE @ 0.5 ppb (EPA 8260B)

TAT

12 hr

24 hr

48hr

72hr

1 wk

For Lab Use Only

01  
02  
03  
04  
05  
06

Remarks:

Received by:

Time

Date

Received by:

Time

Date

Received by Laboratory:

Time

Date

Relinquished by:

*Kevin Pope*

Relinquished by:

*Kevin Pope*

Relinquished by:

*Kevin Pope*

**SAMPLE RECEIPT CHECKLIST**

RECEIVER  
RLM  
Initials

SRG#: 75647 Date: 120910  
Project ID: Former Live Oak Service  
Method of Receipt:  Courier  Over-the-counter  Shipper

**COC Inspection**

Is COC present?  Yes  No

Custody seals on shipping container?  Intact  Broken  Not present  N/A

Is COC Signed by Relinquisher?  Yes  No Dated?  Yes  No

Is sampler name legibly indicated on COC?  Yes  No

Is analysis or hold requested for all samples?  Yes  No

Is the turnaround time indicated on COC?  Yes  No

Is COC free of whiteout and uninitialed cross-outs?  Yes  No, Whiteout  No, Cross-outs

**Sample Inspection**

Coolant Present:  Yes  No (includes water)

Temperature °C 4.2 Therm. ID# IR-5 Initial RLM Date/Time 120910/1540  N/A

Are there custody seals on sample containers?  Intact  Broken  Not present

Do containers match COC?  Yes  No  No, COC lists absent sample(s)  No, Extra sample(s) present

Are there samples matrices other than soil, water, air or carbon?  Yes  No

Are any sample containers broken, leaking or damaged?  Yes  No

Are preservatives indicated?  Yes, on sample containers  Yes, on COC  Not indicated  N/A

Are preservatives correct for analyses requested?  Yes  No  N/A

Are samples within holding time for analyses requested?  Yes  No

Are the correct sample containers used for the analyses requested?  Yes  No

Is there sufficient sample to perform testing?  Yes  No

Does any sample contain product, have strong odor or are otherwise suspected to be hot?  Yes  No

Receipt Details

Matrix WA Container type VIA # of containers received 18

Matrix \_\_\_\_\_ Container type \_\_\_\_\_ # of containers received \_\_\_\_\_

Matrix \_\_\_\_\_ Container type \_\_\_\_\_ # of containers received \_\_\_\_\_

Date and Time Sample Put into Temp Storage Date: 120910 Time: 1543

**Quicklog**

Are the Sample ID's indicated:  On COC  On sample container(s)  On Both  Not indicated

If Sample ID's are listed on both COC and containers, do they all match?  Yes  No  N/A

Is the Project ID indicated:  On COC  On sample container(s)  On Both  Not indicated

If project ID is listed on both COC and containers, do they all match?  Yes  No  N/A

Are the sample collection dates indicated:  On COC  On sample container(s)  On Both  Not indicated

If collection dates are listed on both COC and containers, do they all match?  Yes  No  N/A

Are the sample collection times indicated:  On COC  On sample container(s)  On Both  Not indicated

If collection times are listed on both COC and containers, do they all match?  Yes  No  N/A

**COMMENTS:**

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Report Number : 71236

Date : 04/30/2012

## Laboratory Results

Forrest Cook  
A+ Environmental Solutions, LLC  
6898 Soquel Avenue  
Santa Cruz, CA 95062

Subject : 7 Water Samples  
Project Name : Former Live Oak Service Station  
Project Number : GP011N

Dear Mr. Cook,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Troy G. Turpen". The signature is written in a cursive style with a large initial "T".

Troy Turpen

Subject : 7 Water Samples  
Project Name : Former Live Oak Service Station  
Project Number : GP011N

## Case Narrative

The result for P+M Xylene for sample MW-4 is flagged with a 'J', indicating it is an estimate. The concentration exceeded the calibration range for the instrument. The analysis request was made after sample had expired.

A version of this report was previously issued on 12/21/2009. This revised version replaces that report.

The Method Reporting Limit for Chloromethane has been increased due to the presence of an interfering compound for sample MW-8.

The Method Reporting Limit for Chloroethane has been increased due to the presence of an interfering compound for sample MW-7.



Sample : MW-1

Project Name : Former Live Oak Service Station

Project Number : GP011N

Lab Number : 71236-01

Matrix : Water

Sample Date :12/14/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	12/18/09 23:19
TPH as Gasoline	< 50	50	ug/L	12/18/09 23:19
Dichlorodifluoromethane	< 0.50	0.50	ug/L	12/18/09 23:19
Chloromethane	< 0.50	0.50	ug/L	12/18/09 23:19
Vinyl Chloride	< 0.50	0.50	ug/L	12/18/09 23:19
Bromomethane	< 20	20	ug/L	12/18/09 23:19
Chloroethane	< 0.50	0.50	ug/L	12/18/09 23:19
Trichlorofluoromethane	< 0.50	0.50	ug/L	12/18/09 23:19
1,1-Dichloroethene	< 0.50	0.50	ug/L	12/18/09 23:19
Methylene Chloride	< 5.0	5.0	ug/L	12/18/09 23:19
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/18/09 23:19
1,1-Dichloroethane	< 0.50	0.50	ug/L	12/18/09 23:19
2,2-Dichloropropane	< 0.50	0.50	ug/L	12/18/09 23:19
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/18/09 23:19
Chloroform	< 0.50	0.50	ug/L	12/18/09 23:19
Bromochloromethane	< 0.50	0.50	ug/L	12/18/09 23:19
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	12/18/09 23:19
1,1-Dichloropropene	< 0.50	0.50	ug/L	12/18/09 23:19
1,2-Dichloroethane	< 0.50	0.50	ug/L	12/18/09 23:19
Carbon Tetrachloride	< 0.50	0.50	ug/L	12/18/09 23:19
Benzene	< 0.50	0.50	ug/L	12/18/09 23:19
Trichloroethene	< 0.50	0.50	ug/L	12/18/09 23:19
1,2-Dichloropropane	< 0.50	0.50	ug/L	12/18/09 23:19
Bromodichloromethane	< 0.50	0.50	ug/L	12/18/09 23:19
Dibromomethane	< 0.50	0.50	ug/L	12/18/09 23:19
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/18/09 23:19
Toluene	< 0.50	0.50	ug/L	12/18/09 23:19
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/18/09 23:19
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	12/18/09 23:19
1,3-Dichloropropane	< 0.50	0.50	ug/L	12/18/09 23:19
Tetrachloroethene	< 0.50	0.50	ug/L	12/18/09 23:19
Dibromochloromethane	< 0.50	0.50	ug/L	12/18/09 23:19
1,2-Dibromoethane	< 0.50	0.50	ug/L	12/18/09 23:19



Report Number : 71236

Date : 04/30/2012

Sample : MW-1

Project Name : Former Live Oak Service Station

Project Number : GP011N

Lab Number : 71236-01

Matrix : Water

Sample Date :12/14/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	12/18/09 23:19
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/18/09 23:19
Ethylbenzene	< 0.50	0.50	ug/L	12/18/09 23:19
P,M-Xylene	< 1.0	1.0	ug/L	12/18/09 23:19
O-Xylene	< 0.50	0.50	ug/L	12/18/09 23:19
Styrene	< 0.50	0.50	ug/L	12/18/09 23:19
Isopropyl benzene	< 0.50	0.50	ug/L	12/18/09 23:19
Bromoform	< 0.50	0.50	ug/L	12/18/09 23:19
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/18/09 23:19
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	12/18/09 23:19
n-Propylbenzene	< 0.50	0.50	ug/L	12/18/09 23:19
Bromobenzene	< 0.50	0.50	ug/L	12/18/09 23:19
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	12/18/09 23:19
2+4-Chlorotoluene	< 1.0	1.0	ug/L	12/18/09 23:19
tert-Butylbenzene	< 0.50	0.50	ug/L	12/18/09 23:19
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	12/18/09 23:19
sec-Butylbenzene	< 0.50	0.50	ug/L	12/18/09 23:19
p-Isopropyltoluene	< 0.50	0.50	ug/L	12/18/09 23:19
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	12/18/09 23:19
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	12/18/09 23:19
n-Butylbenzene	< 0.50	0.50	ug/L	12/18/09 23:19
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	12/18/09 23:19
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	12/18/09 23:19
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	12/18/09 23:19
Hexachlorobutadiene	< 0.50	0.50	ug/L	12/18/09 23:19
Naphthalene	< 0.50	0.50	ug/L	12/18/09 23:19
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	12/18/09 23:19
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	12/18/09 23:19
4-Bromofluorobenzene (Surr)	100		% Recovery	12/18/09 23:19
Toluene - d8 (Surr)	97.6		% Recovery	12/18/09 23:19



Sample : MW-3

Project Name : Former Live Oak Service Station

Project Number : GP011N

Lab Number : 71236-02

Matrix : Water

Sample Date :12/15/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	12/19/09 14:34
<b>TPH as Gasoline</b>	<b>470</b>	50	ug/L	12/19/09 14:34
Dichlorodifluoromethane	< 0.90	0.90	ug/L	12/18/09 01:55
Chloromethane	< 0.90	0.90	ug/L	12/18/09 01:55
Vinyl Chloride	< 0.90	0.90	ug/L	12/18/09 01:55
Bromomethane	< 20	20	ug/L	12/18/09 01:55
Chloroethane	< 0.90	0.90	ug/L	12/18/09 01:55
Trichlorofluoromethane	< 0.50	0.50	ug/L	12/19/09 14:34
1,1-Dichloroethene	< 0.90	0.90	ug/L	12/18/09 01:55
Methylene Chloride	< 5.0	5.0	ug/L	12/19/09 14:34
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/19/09 14:34
1,1-Dichloroethane	< 0.50	0.50	ug/L	12/19/09 14:34
2,2-Dichloropropane	< 0.50	0.50	ug/L	12/19/09 14:34
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/19/09 14:34
Chloroform	< 0.50	0.50	ug/L	12/19/09 14:34
Bromochloromethane	< 0.50	0.50	ug/L	12/19/09 14:34
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	12/19/09 14:34
1,1-Dichloropropene	< 0.50	0.50	ug/L	12/19/09 14:34
1,2-Dichloroethane	< 0.50	0.50	ug/L	12/19/09 14:34
Carbon Tetrachloride	< 0.50	0.50	ug/L	12/19/09 14:34
Benzene	< 0.50	0.50	ug/L	12/19/09 14:34
Trichloroethene	< 0.50	0.50	ug/L	12/19/09 14:34
1,2-Dichloropropane	< 0.50	0.50	ug/L	12/19/09 14:34
Bromodichloromethane	< 0.50	0.50	ug/L	12/19/09 14:34
Dibromomethane	< 0.50	0.50	ug/L	12/19/09 14:34
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/19/09 14:34
Toluene	< 0.50	0.50	ug/L	12/19/09 14:34
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/19/09 14:34
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	12/19/09 14:34
1,3-Dichloropropane	< 0.50	0.50	ug/L	12/19/09 14:34
Tetrachloroethene	< 0.50	0.50	ug/L	12/19/09 14:34
Dibromochloromethane	< 0.50	0.50	ug/L	12/19/09 14:34
1,2-Dibromoethane	< 0.50	0.50	ug/L	12/19/09 14:34

Sample : MW-3

Project Name : Former Live Oak Service Station

Project Number : GP011N

Lab Number : 71236-02

Matrix : Water

Sample Date :12/15/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	12/19/09 14:34
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/19/09 14:34
<b>Ethylbenzene</b>	<b>17</b>	0.50	ug/L	12/19/09 14:34
<b>P,M-Xylene</b>	<b>28</b>	1.0	ug/L	12/19/09 14:34
<b>O-Xylene</b>	<b>0.63</b>	0.50	ug/L	12/19/09 14:34
Styrene	< 0.50	0.50	ug/L	12/19/09 14:34
<b>Isopropyl benzene</b>	<b>3.9</b>	0.50	ug/L	12/19/09 14:34
Bromoform	< 0.50	0.50	ug/L	12/19/09 14:34
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/19/09 14:34
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	12/19/09 14:34
<b>n-Propylbenzene</b>	<b>8.6</b>	0.50	ug/L	12/19/09 14:34
Bromobenzene	< 0.50	0.50	ug/L	12/19/09 14:34
<b>1,3,5-Trimethylbenzene</b>	<b>2.4</b>	0.50	ug/L	12/19/09 14:34
2+4-Chlorotoluene	< 1.0	1.0	ug/L	12/19/09 14:34
tert-Butylbenzene	< 0.50	0.50	ug/L	12/19/09 14:34
<b>1,2,4-Trimethylbenzene</b>	<b>53</b>	0.50	ug/L	12/19/09 14:34
<b>sec-Butylbenzene</b>	<b>1.0</b>	0.50	ug/L	12/19/09 14:34
p-Isopropyltoluene	< 0.50	0.50	ug/L	12/19/09 14:34
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	12/19/09 14:34
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	12/19/09 14:34
<b>n-Butylbenzene</b>	<b>0.75</b>	0.50	ug/L	12/19/09 14:34
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	12/19/09 14:34
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	12/19/09 14:34
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	12/19/09 14:34
Hexachlorobutadiene	< 0.50	0.50	ug/L	12/19/09 14:34
<b>Naphthalene</b>	<b>11</b>	0.50	ug/L	12/19/09 14:34
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	12/19/09 14:34
1,2-Dichloroethane-d4 (Surr)	98.4		% Recovery	12/19/09 14:34
4-Bromofluorobenzene (Surr)	94.2		% Recovery	12/19/09 14:34
Toluene - d8 (Surr)	103		% Recovery	12/19/09 14:34



Sample : MW-4

Project Name : Former Live Oak Service Station

Project Number : GP011N

Lab Number : 71236-03

Matrix : Water

Sample Date :12/15/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 3.0	3.0	ug/L	12/18/09 01:08
<b>TPH as Gasoline</b>	<b>15000</b>	300	ug/L	12/18/09 01:08
Dichlorodifluoromethane	< 3.0	3.0	ug/L	12/18/09 01:08
Vinyl Chloride	< 3.0	3.0	ug/L	12/18/09 01:08
Chloroethane	< 3.0	3.0	ug/L	12/18/09 01:08
Trichlorofluoromethane	< 3.0	3.0	ug/L	12/18/09 01:08
1,1-Dichloroethene	< 3.0	3.0	ug/L	12/18/09 01:08
Methylene Chloride	< 5.0	5.0	ug/L	12/18/09 01:08
trans-1,2-Dichloroethene	< 3.0	3.0	ug/L	12/18/09 01:08
1,1-Dichloroethane	< 3.0	3.0	ug/L	12/18/09 01:08
2,2-Dichloropropane	< 3.0	3.0	ug/L	12/18/09 01:08
cis-1,2-Dichloroethene	< 3.0	3.0	ug/L	12/18/09 01:08
Chloroform	< 3.0	3.0	ug/L	12/18/09 01:08
Bromochloromethane	< 3.0	3.0	ug/L	12/18/09 01:08
1,1,1-Trichloroethane	< 3.0	3.0	ug/L	12/18/09 01:08
1,1-Dichloropropene	< 3.0	3.0	ug/L	12/18/09 01:08
1,2-Dichloroethane	< 3.0	3.0	ug/L	12/18/09 01:08
Carbon Tetrachloride	< 3.0	3.0	ug/L	12/18/09 01:08
Benzene	< 3.0	3.0	ug/L	12/18/09 01:08
Trichloroethene	< 3.0	3.0	ug/L	12/18/09 01:08
1,2-Dichloropropane	< 3.0	3.0	ug/L	12/18/09 01:08
Bromodichloromethane	< 3.0	3.0	ug/L	12/18/09 01:08
Dibromomethane	< 3.0	3.0	ug/L	12/18/09 01:08
cis-1,3-Dichloropropene	< 3.0	3.0	ug/L	12/18/09 01:08
<b>Toluene</b>	<b>8.8</b>	3.0	ug/L	12/18/09 01:08
trans-1,3-Dichloropropene	< 3.0	3.0	ug/L	12/18/09 01:08
1,1,2-Trichloroethane	< 3.0	3.0	ug/L	12/18/09 01:08
1,3-Dichloropropane	< 3.0	3.0	ug/L	12/18/09 01:08
Tetrachloroethene	< 3.0	3.0	ug/L	12/18/09 01:08
1,2-Dibromoethane	< 3.0	3.0	ug/L	12/18/09 01:08
Chlorobenzene	< 3.0	3.0	ug/L	12/18/09 01:08
1,1,1,2-Tetrachloroethane	< 3.0	3.0	ug/L	12/18/09 01:08
<b>Ethylbenzene</b>	<b>1500</b>	3.0	ug/L	12/18/09 01:08

Sample : MW-4

Project Name : Former Live Oak Service Station

Project Number : GP011N

Lab Number : 71236-03

Matrix : Water

Sample Date :12/15/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
<b>P,M-Xylene</b>	<b>1500 J</b>	3.0	ug/L	12/18/09 01:08
<b>O-Xylene</b>	<b>7.0</b>	3.0	ug/L	12/18/09 01:08
Styrene	< 3.0	3.0	ug/L	12/18/09 01:08
<b>Isopropyl benzene</b>	<b>110</b>	3.0	ug/L	12/18/09 01:08
1,1,2,2-Tetrachloroethane	< 3.0	3.0	ug/L	12/18/09 01:08
1,2,3-Trichloropropane	< 3.0	3.0	ug/L	12/18/09 01:08
<b>n-Propylbenzene</b>	<b>280</b>	3.0	ug/L	12/18/09 01:08
Bromobenzene	< 3.0	3.0	ug/L	12/18/09 01:08
<b>1,3,5-Trimethylbenzene</b>	<b>150</b>	3.0	ug/L	12/18/09 01:08
2+4-Chlorotoluene	< 6.0	6.0	ug/L	12/18/09 01:08
tert-Butylbenzene	< 3.0	3.0	ug/L	12/18/09 01:08
<b>1,2,4-Trimethylbenzene</b>	<b>590</b>	3.0	ug/L	12/18/09 01:08
<b>sec-Butylbenzene</b>	<b>14</b>	3.0	ug/L	12/18/09 01:08
<b>p-Isopropyltoluene</b>	<b>7.0</b>	3.0	ug/L	12/18/09 01:08
1,3-Dichlorobenzene	< 3.0	3.0	ug/L	12/18/09 01:08
1,4-Dichlorobenzene	< 3.0	3.0	ug/L	12/18/09 01:08
<b>n-Butylbenzene</b>	<b>26</b>	3.0	ug/L	12/18/09 01:08
1,2-Dichlorobenzene	< 3.0	3.0	ug/L	12/18/09 01:08
Hexachlorobutadiene	< 3.0	3.0	ug/L	12/18/09 01:08
1,2-Dichloroethane-d4 (Surr)	99.2		% Recovery	12/18/09 01:08
4-Bromofluorobenzene (Surr)	98.0		% Recovery	12/18/09 01:08
Toluene - d8 (Surr)	97.2		% Recovery	12/18/09 01:08



Sample : MW-5

Project Name : Former Live Oak Service Station

Project Number : GP011N

Lab Number : 71236-04

Matrix : Water

Sample Date :12/14/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	12/18/09 16:56
TPH as Gasoline	< 50	50	ug/L	12/18/09 16:56
Dichlorodifluoromethane	< 0.50	0.50	ug/L	12/18/09 16:56
Chloromethane	< 0.50	0.50	ug/L	12/18/09 16:56
Vinyl Chloride	< 0.50	0.50	ug/L	12/18/09 16:56
Bromomethane	< 20	20	ug/L	12/18/09 16:56
Chloroethane	< 0.50	0.50	ug/L	12/18/09 16:56
Trichlorofluoromethane	< 0.50	0.50	ug/L	12/18/09 16:56
1,1-Dichloroethene	< 0.50	0.50	ug/L	12/18/09 16:56
Methylene Chloride	< 5.0	5.0	ug/L	12/18/09 16:56
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/18/09 16:56
1,1-Dichloroethane	< 0.50	0.50	ug/L	12/18/09 16:56
2,2-Dichloropropane	< 0.50	0.50	ug/L	12/18/09 16:56
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/18/09 16:56
Chloroform	< 0.50	0.50	ug/L	12/18/09 16:56
Bromochloromethane	< 0.50	0.50	ug/L	12/18/09 16:56
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	12/18/09 16:56
1,1-Dichloropropene	< 0.50	0.50	ug/L	12/18/09 16:56
1,2-Dichloroethane	< 0.50	0.50	ug/L	12/18/09 16:56
Carbon Tetrachloride	< 0.50	0.50	ug/L	12/18/09 16:56
Benzene	< 0.50	0.50	ug/L	12/18/09 16:56
Trichloroethene	< 0.50	0.50	ug/L	12/18/09 16:56
1,2-Dichloropropane	< 0.50	0.50	ug/L	12/18/09 16:56
Bromodichloromethane	< 0.50	0.50	ug/L	12/18/09 16:56
Dibromomethane	< 0.50	0.50	ug/L	12/18/09 16:56
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/18/09 16:56
Toluene	< 0.50	0.50	ug/L	12/18/09 16:56
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/18/09 16:56
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	12/18/09 16:56
1,3-Dichloropropane	< 0.50	0.50	ug/L	12/18/09 16:56
<b>Tetrachloroethene</b>	<b>12</b>	0.50	ug/L	12/18/09 16:56
Dibromochloromethane	< 0.50	0.50	ug/L	12/18/09 16:56
1,2-Dibromoethane	< 0.50	0.50	ug/L	12/18/09 16:56



Sample : MW-5

Project Name : Former Live Oak Service Station

Project Number : GP011N

Lab Number : 71236-04

Matrix : Water

Sample Date :12/14/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	12/18/09 16:56
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/18/09 16:56
Ethylbenzene	< 0.50	0.50	ug/L	12/18/09 16:56
P,M-Xylene	< 1.0	1.0	ug/L	12/18/09 16:56
O-Xylene	< 0.50	0.50	ug/L	12/18/09 16:56
Styrene	< 0.50	0.50	ug/L	12/18/09 16:56
Isopropyl benzene	< 0.50	0.50	ug/L	12/18/09 16:56
Bromoform	< 0.50	0.50	ug/L	12/18/09 16:56
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/18/09 16:56
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	12/18/09 16:56
n-Propylbenzene	< 0.50	0.50	ug/L	12/18/09 16:56
Bromobenzene	< 0.50	0.50	ug/L	12/18/09 16:56
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	12/18/09 16:56
2+4-Chlorotoluene	< 1.0	1.0	ug/L	12/18/09 16:56
tert-Butylbenzene	< 0.50	0.50	ug/L	12/18/09 16:56
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	12/18/09 16:56
sec-Butylbenzene	< 0.50	0.50	ug/L	12/18/09 16:56
p-Isopropyltoluene	< 0.50	0.50	ug/L	12/18/09 16:56
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	12/18/09 16:56
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	12/18/09 16:56
n-Butylbenzene	< 0.50	0.50	ug/L	12/18/09 16:56
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	12/18/09 16:56
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	12/18/09 16:56
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	12/18/09 16:56
Hexachlorobutadiene	< 0.50	0.50	ug/L	12/18/09 16:56
Naphthalene	< 0.50	0.50	ug/L	12/18/09 16:56
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	12/18/09 16:56
1,2-Dichloroethane-d4 (Surr)	99.9		% Recovery	12/18/09 16:56
4-Bromofluorobenzene (Surr)	98.2		% Recovery	12/18/09 16:56
Toluene - d8 (Surr)	94.9		% Recovery	12/18/09 16:56

Sample : MW-6

Project Name : Former Live Oak Service Station

Project Number : GP011N

Lab Number : 71236-05

Matrix : Water

Sample Date :12/14/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	12/19/09 14:37
TPH as Gasoline	< 50	50	ug/L	12/19/09 14:37
Dichlorodifluoromethane	< 0.50	0.50	ug/L	12/19/09 14:37
Chloromethane	< 0.50	0.50	ug/L	12/19/09 14:37
Vinyl Chloride	< 0.50	0.50	ug/L	12/19/09 14:37
Bromomethane	< 20	20	ug/L	12/19/09 14:37
Chloroethane	< 0.50	0.50	ug/L	12/19/09 14:37
Trichlorofluoromethane	< 0.50	0.50	ug/L	12/19/09 14:37
1,1-Dichloroethene	< 0.50	0.50	ug/L	12/19/09 14:37
Methylene Chloride	< 5.0	5.0	ug/L	12/19/09 14:37
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/19/09 14:37
1,1-Dichloroethane	< 0.50	0.50	ug/L	12/19/09 14:37
2,2-Dichloropropane	< 0.50	0.50	ug/L	12/19/09 14:37
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/19/09 14:37
Chloroform	< 0.50	0.50	ug/L	12/19/09 14:37
Bromochloromethane	< 0.50	0.50	ug/L	12/19/09 14:37
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	12/19/09 14:37
1,1-Dichloropropene	< 0.50	0.50	ug/L	12/19/09 14:37
1,2-Dichloroethane	< 0.50	0.50	ug/L	12/19/09 14:37
Carbon Tetrachloride	< 0.50	0.50	ug/L	12/19/09 14:37
Benzene	< 0.50	0.50	ug/L	12/19/09 14:37
Trichloroethene	< 0.50	0.50	ug/L	12/19/09 14:37
1,2-Dichloropropane	< 0.50	0.50	ug/L	12/19/09 14:37
Bromodichloromethane	< 0.50	0.50	ug/L	12/19/09 14:37
Dibromomethane	< 0.50	0.50	ug/L	12/19/09 14:37
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/19/09 14:37
Toluene	< 0.50	0.50	ug/L	12/19/09 14:37
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/19/09 14:37
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	12/19/09 14:37
1,3-Dichloropropane	< 0.50	0.50	ug/L	12/19/09 14:37
Tetrachloroethene	< 0.50	0.50	ug/L	12/19/09 14:37
Dibromochloromethane	< 0.50	0.50	ug/L	12/19/09 14:37
1,2-Dibromoethane	< 0.50	0.50	ug/L	12/19/09 14:37



Sample : MW-6

Project Name : Former Live Oak Service Station

Project Number : GP011N

Lab Number : 71236-05

Matrix : Water

Sample Date :12/14/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	12/19/09 14:37
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/19/09 14:37
Ethylbenzene	< 0.50	0.50	ug/L	12/19/09 14:37
P,M-Xylene	< 1.0	1.0	ug/L	12/19/09 14:37
O-Xylene	< 0.50	0.50	ug/L	12/19/09 14:37
Styrene	< 0.50	0.50	ug/L	12/19/09 14:37
Isopropyl benzene	< 0.50	0.50	ug/L	12/19/09 14:37
Bromoform	< 0.50	0.50	ug/L	12/19/09 14:37
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/19/09 14:37
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	12/19/09 14:37
n-Propylbenzene	< 0.50	0.50	ug/L	12/19/09 14:37
Bromobenzene	< 0.50	0.50	ug/L	12/19/09 14:37
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	12/19/09 14:37
2+4-Chlorotoluene	< 1.0	1.0	ug/L	12/19/09 14:37
tert-Butylbenzene	< 0.50	0.50	ug/L	12/19/09 14:37
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	12/19/09 14:37
sec-Butylbenzene	< 0.50	0.50	ug/L	12/19/09 14:37
p-Isopropyltoluene	< 0.50	0.50	ug/L	12/19/09 14:37
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	12/19/09 14:37
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	12/19/09 14:37
n-Butylbenzene	< 0.50	0.50	ug/L	12/19/09 14:37
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	12/19/09 14:37
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	12/19/09 14:37
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	12/19/09 14:37
Hexachlorobutadiene	< 0.50	0.50	ug/L	12/19/09 14:37
Naphthalene	< 0.50	0.50	ug/L	12/19/09 14:37
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	12/19/09 14:37
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	12/19/09 14:37
4-Bromofluorobenzene (Surr)	99.6		% Recovery	12/19/09 14:37
Toluene - d8 (Surr)	96.7		% Recovery	12/19/09 14:37



Sample : MW-7

Project Name : Former Live Oak Service Station

Project Number : GP011N

Lab Number : 71236-06

Matrix : Water

Sample Date :12/15/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	12/18/09 05:41
<b>TPH as Gasoline</b>	<b>760</b>	50	ug/L	12/18/09 05:41
Dichlorodifluoromethane	< 0.50	0.50	ug/L	12/18/09 05:41
Chloromethane	< 0.50	0.50	ug/L	12/18/09 05:41
Vinyl Chloride	< 0.50	0.50	ug/L	12/18/09 05:41
Bromomethane	< 20	20	ug/L	12/18/09 05:41
Chloroethane	< 1.0	1.0	ug/L	12/18/09 05:41
Trichlorofluoromethane	< 0.50	0.50	ug/L	12/18/09 05:41
1,1-Dichloroethene	< 0.50	0.50	ug/L	12/18/09 05:41
Methylene Chloride	< 5.0	5.0	ug/L	12/18/09 05:41
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/18/09 05:41
1,1-Dichloroethane	< 0.50	0.50	ug/L	12/18/09 05:41
2,2-Dichloropropane	< 0.50	0.50	ug/L	12/18/09 05:41
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	12/18/09 05:41
Chloroform	< 0.50	0.50	ug/L	12/18/09 05:41
Bromochloromethane	< 0.50	0.50	ug/L	12/18/09 05:41
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	12/18/09 05:41
1,1-Dichloropropene	< 0.50	0.50	ug/L	12/18/09 05:41
1,2-Dichloroethane	< 0.50	0.50	ug/L	12/18/09 05:41
Carbon Tetrachloride	< 0.50	0.50	ug/L	12/18/09 05:41
Benzene	< 0.50	0.50	ug/L	12/18/09 05:41
Trichloroethene	< 0.50	0.50	ug/L	12/18/09 05:41
1,2-Dichloropropane	< 0.50	0.50	ug/L	12/18/09 05:41
Bromodichloromethane	< 0.50	0.50	ug/L	12/18/09 05:41
Dibromomethane	< 0.50	0.50	ug/L	12/18/09 05:41
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/18/09 05:41
<b>Toluene</b>	<b>1.4</b>	0.50	ug/L	12/18/09 05:41
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	12/18/09 05:41
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	12/18/09 05:41
1,3-Dichloropropane	< 0.50	0.50	ug/L	12/18/09 05:41
Tetrachloroethene	< 0.50	0.50	ug/L	12/18/09 05:41
Dibromochloromethane	< 0.50	0.50	ug/L	12/18/09 05:41
1,2-Dibromoethane	< 0.50	0.50	ug/L	12/18/09 05:41

Sample : MW-7

Project Name : Former Live Oak Service Station

Project Number : GP011N

Lab Number : 71236-06

Matrix : Water

Sample Date :12/15/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	12/18/09 05:41
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/18/09 05:41
<b>Ethylbenzene</b>	<b>87</b>	0.50	ug/L	12/18/09 05:41
<b>P,M-Xylene</b>	<b>3.6</b>	1.0	ug/L	12/18/09 05:41
O-Xylene	< 0.50	0.50	ug/L	12/18/09 05:41
Styrene	< 0.50	0.50	ug/L	12/18/09 05:41
<b>Isopropyl benzene</b>	<b>13</b>	0.50	ug/L	12/18/09 05:41
Bromoform	< 0.50	0.50	ug/L	12/18/09 05:41
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	12/18/09 05:41
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	12/18/09 05:41
<b>n-Propylbenzene</b>	<b>24</b>	0.50	ug/L	12/18/09 05:41
Bromobenzene	< 0.50	0.50	ug/L	12/18/09 05:41
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	12/18/09 05:41
2+4-Chlorotoluene	< 1.0	1.0	ug/L	12/18/09 05:41
tert-Butylbenzene	< 0.50	0.50	ug/L	12/18/09 05:41
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	12/18/09 05:41
<b>sec-Butylbenzene</b>	<b>1.8</b>	0.50	ug/L	12/18/09 05:41
p-Isopropyltoluene	< 0.50	0.50	ug/L	12/18/09 05:41
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	12/18/09 05:41
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	12/18/09 05:41
<b>n-Butylbenzene</b>	<b>2.0</b>	0.50	ug/L	12/18/09 05:41
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	12/18/09 05:41
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	12/18/09 05:41
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	12/18/09 05:41
Hexachlorobutadiene	< 0.50	0.50	ug/L	12/18/09 05:41
<b>Naphthalene</b>	<b>35</b>	0.50	ug/L	12/18/09 05:41
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	12/18/09 05:41
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	12/18/09 05:41
4-Bromofluorobenzene (Surr)	98.3		% Recovery	12/18/09 05:41
Toluene - d8 (Surr)	97.1		% Recovery	12/18/09 05:41

Sample : **MW-8**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Lab Number : 71236-07

Matrix : Water

Sample Date :12/15/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 2.5	2.5	ug/L	12/18/09 00:32
<b>TPH as Gasoline</b>	<b>11000</b>	250	ug/L	12/18/09 00:32
Dichlorodifluoromethane	< 2.5	2.5	ug/L	12/18/09 00:32
Chloromethane	< 5.0	5.0	ug/L	12/18/09 00:32
Vinyl Chloride	< 2.5	2.5	ug/L	12/18/09 00:32
Chloroethane	< 2.5	2.5	ug/L	12/18/09 00:32
Trichlorofluoromethane	< 2.5	2.5	ug/L	12/18/09 00:32
1,1-Dichloroethene	< 2.5	2.5	ug/L	12/18/09 00:32
Methylene Chloride	< 5.0	5.0	ug/L	12/18/09 00:32
trans-1,2-Dichloroethene	< 2.5	2.5	ug/L	12/18/09 00:32
1,1-Dichloroethane	< 2.5	2.5	ug/L	12/18/09 00:32
2,2-Dichloropropane	< 2.5	2.5	ug/L	12/18/09 00:32
cis-1,2-Dichloroethene	< 2.5	2.5	ug/L	12/18/09 00:32
Chloroform	< 2.5	2.5	ug/L	12/18/09 00:32
Bromochloromethane	< 2.5	2.5	ug/L	12/18/09 00:32
1,1,1-Trichloroethane	< 2.5	2.5	ug/L	12/18/09 00:32
1,1-Dichloropropene	< 2.5	2.5	ug/L	12/18/09 00:32
1,2-Dichloroethane	< 2.5	2.5	ug/L	12/18/09 00:32
Carbon Tetrachloride	< 2.5	2.5	ug/L	12/18/09 00:32
Benzene	< 2.5	2.5	ug/L	12/18/09 00:32
Trichloroethene	< 2.5	2.5	ug/L	12/18/09 00:32
1,2-Dichloropropane	< 2.5	2.5	ug/L	12/18/09 00:32
Bromodichloromethane	< 2.5	2.5	ug/L	12/18/09 00:32
Dibromomethane	< 2.5	2.5	ug/L	12/18/09 00:32
cis-1,3-Dichloropropene	< 2.5	2.5	ug/L	12/18/09 00:32
<b>Toluene</b>	<b>7.8</b>	2.5	ug/L	12/18/09 00:32
trans-1,3-Dichloropropene	< 2.5	2.5	ug/L	12/18/09 00:32
1,1,2-Trichloroethane	< 2.5	2.5	ug/L	12/18/09 00:32
1,3-Dichloropropane	< 2.5	2.5	ug/L	12/18/09 00:32
Tetrachloroethene	< 2.5	2.5	ug/L	12/18/09 00:32
1,2-Dibromoethane	< 2.5	2.5	ug/L	12/18/09 00:32
Chlorobenzene	< 2.5	2.5	ug/L	12/18/09 00:32
1,1,1,2-Tetrachloroethane	< 2.5	2.5	ug/L	12/18/09 00:32

Sample : **MW-8**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Lab Number : 71236-07

Matrix : Water

Sample Date :12/15/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
<b>Ethylbenzene</b>	<b>1400</b>	2.5	ug/L	12/18/09 00:32
<b>P,M-Xylene</b>	<b>460</b>	2.5	ug/L	12/18/09 00:32
<b>O-Xylene</b>	<b>3.0</b>	2.5	ug/L	12/18/09 00:32
Styrene	< 2.5	2.5	ug/L	12/18/09 00:32
<b>Isopropyl benzene</b>	<b>100</b>	2.5	ug/L	12/18/09 00:32
1,1,2,2-Tetrachloroethane	< 2.5	2.5	ug/L	12/18/09 00:32
1,2,3-Trichloropropane	< 2.5	2.5	ug/L	12/18/09 00:32
<b>n-Propylbenzene</b>	<b>260</b>	2.5	ug/L	12/18/09 00:32
Bromobenzene	< 2.5	2.5	ug/L	12/18/09 00:32
<b>1,3,5-Trimethylbenzene</b>	<b>35</b>	2.5	ug/L	12/18/09 00:32
2+4-Chlorotoluene	< 5.0	5.0	ug/L	12/18/09 00:32
tert-Butylbenzene	< 2.5	2.5	ug/L	12/18/09 00:32
<b>1,2,4-Trimethylbenzene</b>	<b>160</b>	2.5	ug/L	12/18/09 00:32
<b>sec-Butylbenzene</b>	<b>16</b>	2.5	ug/L	12/18/09 00:32
<b>p-Isopropyltoluene</b>	<b>5.8</b>	2.5	ug/L	12/18/09 00:32
1,3-Dichlorobenzene	< 2.5	2.5	ug/L	12/18/09 00:32
1,4-Dichlorobenzene	< 2.5	2.5	ug/L	12/18/09 00:32
<b>n-Butylbenzene</b>	<b>27</b>	2.5	ug/L	12/18/09 00:32
1,2-Dichlorobenzene	< 2.5	2.5	ug/L	12/18/09 00:32
Hexachlorobutadiene	< 2.5	2.5	ug/L	12/18/09 00:32
1,2-Dichloroethane-d4 (Surr)	96.8		% Recovery	12/18/09 00:32
4-Bromofluorobenzene (Surr)	100		% Recovery	12/18/09 00:32
Toluene - d8 (Surr)	96.5		% Recovery	12/18/09 00:32

Report Number : 71236  
 Date : 04/30/2012

**QC Report : Method Blank Data**  
**Project Name : Former Live Oak Service Station**  
**Project Number : GP011N**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/17/2009
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Bromomethane	< 20	20	ug/L	EPA 8260B	12/17/2009
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	12/17/2009
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009

Report Number : 71236  
Date : 04/30/2012

**QC Report : Method Blank Data**  
**Project Name : Former Live Oak Service Station**  
**Project Number : GP011N**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/17/2009	P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	12/17/2009
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	Styrene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Bromomethane	< 20	20	ug/L	EPA 8260B	12/17/2009	Bromoforn	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	12/17/2009	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	12/17/2009
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
1,1-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	1,2-Dichloroethane-d4 (Surr)	99.8	%		EPA 8260B	12/17/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	4-Bromofluorobenzene (Surr)	99.9	%		EPA 8260B	12/17/2009
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009	Toluene - d8 (Surr)	98.2	%		EPA 8260B	12/17/2009
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009						
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009						
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009						
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009						
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009						
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009						
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/17/2009						

Report Number : 71236

Date : 04/30/2012

**QC Report : Method Blank Data**  
**Project Name : Former Live Oak Service Station**

Project Number : GP011N

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/18/2009	P,Mt-Xylene	< 1.0	1.0	ug/L	EPA 8260B	12/18/2009
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	Styrene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Bromomethane	< 20	20	ug/L	EPA 8260B	12/18/2009	Bromoforn	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	12/18/2009	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	12/18/2009
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,2-Dichloroethane-d4 (Surr)	100	%		EPA 8260B	12/18/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	4-Bromofluorobenzene (Surr)	97.3	%		EPA 8260B	12/18/2009
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	Toluene - d8 (Surr)	98.3	%		EPA 8260B	12/18/2009
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009						
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009						
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009						
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009						
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009						
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009						
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009						

Report Number : 71236  
 Date : 04/30/2012

**QC Report : Method Blank Data**  
**Project Name : Former Live Oak Service Station**  
**Project Number : GP011N**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/18/2009	P,m-Xylene	< 1.0	1.0	ug/L	EPA 8260B	12/18/2009
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	Styrene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Bromomethane	< 20	20	ug/L	EPA 8260B	12/18/2009	Bromoforn	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	12/18/2009	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	12/18/2009
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	1,2-Dichloroethane-d4 (Surr)	100	%		EPA 8260B	12/18/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	4-Bromofluorobenzene (Surr)	99.5	%		EPA 8260B	12/18/2009
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009	Toluene - d8 (Surr)	97.2	%		EPA 8260B	12/18/2009
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009						
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009						
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009						
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009						
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009						
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009						
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/18/2009						



Report Number : 71236  
 Date : 04/30/2012

**QC Report : Method Blank Data**  
**Project Name : Former Live Oak Service Station**  
**Project Number : GP011N**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/19/2009	P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	12/19/2009
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	Styrene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Bromomethane	< 20	20	ug/L	EPA 8260B	12/19/2009	Bromoforn	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	12/19/2009	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	12/19/2009
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,2-Dichloroethane-d4 (Surr)	102	%		EPA 8260B	12/19/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	4-Bromofluorobenzene (Surr)	100	%		EPA 8260B	12/19/2009
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	Toluene - d8 (Surr)	97.8	%		EPA 8260B	12/19/2009
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						

Report Number : 71236

Date : 04/30/2012

QC Report : Method Blank Data  
Project Name : Former Live Oak Service Station

Project Number : GP011N

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/19/2009	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	12/19/2009	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	12/19/2009
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	1,2-Dichloroethane-d4 (Surr)	101		%	EPA 8260B	12/19/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	4-Bromofluorobenzene (Surr)	92.0		%	EPA 8260B	12/19/2009
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009	Toluene - d8 (Surr)	106		%	EPA 8260B	12/19/2009
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	12/19/2009						
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
Styrene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	12/19/2009						

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	71239-12	<0.50	40.3	40.2	38.2	37.8	ug/L	EPA 8260B	12/18/09	94.6	94.0	0.635	80-120	25
Ethylbenzene	71239-12	<0.50	40.1	39.9	42.2	41.7	ug/L	EPA 8260B	12/18/09	105	104	0.781	80-120	25
Methyl-t-butyl ether	71239-12	<0.50	40.4	40.2	33.4	33.4	ug/L	EPA 8260B	12/18/09	82.6	83.1	0.572	69.7-121	25
P + M Xylene	71239-12	<1.0	39.0	38.8	38.8	38.0	ug/L	EPA 8260B	12/18/09	99.5	97.9	1.61	76.8-120	25
Tert-Butanol	71239-12	<5.0	200	200	195	194	ug/L	EPA 8260B	12/18/09	97.0	97.2	0.108	80-120	25
Toluene	71239-12	<0.50	40.1	39.9	38.5	38.1	ug/L	EPA 8260B	12/18/09	96.1	95.5	0.675	80-120	25
Benzene	71252-03	<0.50	40.6	40.6	39.1	35.7	ug/L	EPA 8260B	12/17/09	96.3	88.0	9.01	80-120	25
Ethylbenzene	71252-03	<0.50	40.3	40.3	40.4	36.7	ug/L	EPA 8260B	12/17/09	100	91.0	9.60	80-120	25
Methyl-t-butyl ether	71252-03	1.5	40.6	40.6	40.3	37.0	ug/L	EPA 8260B	12/17/09	95.5	87.4	8.90	69.7-121	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
P + M Xylene	71252-03	<1.0	39.2	39.2	39.3	34.2	ug/L	EPA 8260B	12/17/09	100	87.0	14.0	76.8-120	25
Toluene	71252-03	<0.50	40.3	40.3	39.7	35.4	ug/L	EPA 8260B	12/17/09	98.3	87.7	11.4	80-120	25
Benzene	71246-01	<0.50	40.6	40.6	39.7	39.1	ug/L	EPA 8260B	12/18/09	97.8	96.5	1.39	80-120	25
Ethylbenzene	71246-01	<0.50	40.3	40.3	42.0	40.9	ug/L	EPA 8260B	12/18/09	104	101	2.62	80-120	25
Methyl-t-butyl ether	71246-01	54	40.6	40.6	87.0	88.2	ug/L	EPA 8260B	12/18/09	80.3	83.3	3.63	69.7-121	25
P + M Xylene	71246-01	<1.0	39.2	39.2	42.2	40.9	ug/L	EPA 8260B	12/18/09	108	104	3.24	76.8-120	25
Toluene	71246-01	<0.50	40.3	40.3	40.4	39.4	ug/L	EPA 8260B	12/18/09	100	97.6	2.60	80-120	25
Benzene	71269-03	<0.50	40.6	40.6	40.1	39.6	ug/L	EPA 8260B	12/18/09	98.9	97.7	1.14	80-120	25
Ethylbenzene	71269-03	<0.50	40.3	40.3	42.7	41.3	ug/L	EPA 8260B	12/18/09	106	102	3.29	80-120	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Methyl-t-butyl ether	71269-03	<0.50	40.6	40.6	38.3	38.8	ug/L	EPA 8260B	12/18/09	94.2	95.6	1.49	69.7-121	25
P + M Xylene	71269-03	<1.0	39.2	39.2	42.2	41.2	ug/L	EPA 8260B	12/18/09	107	105	2.19	76.8-120	25
Toluene	71269-03	<0.50	40.3	40.3	40.2	39.4	ug/L	EPA 8260B	12/18/09	99.6	97.6	2.09	80-120	25
Benzene	71266-01	<0.50	40.6	40.6	39.9	38.4	ug/L	EPA 8260B	12/19/09	98.4	94.6	3.95	80-120	25
Ethylbenzene	71266-01	<0.50	40.3	40.3	39.7	37.2	ug/L	EPA 8260B	12/19/09	98.4	92.3	6.32	80-120	25
Methyl-t-butyl ether	71266-01	<0.50	40.6	40.6	38.4	37.5	ug/L	EPA 8260B	12/19/09	94.5	92.4	2.29	69.7-121	25
P + M Xylene	71266-01	<1.0	39.2	39.2	34.5	31.2	ug/L	EPA 8260B	12/19/09	88.0	79.5	10.1	76.8-120	25
Toluene	71266-01	<0.50	40.3	40.3	38.2	36.2	ug/L	EPA 8260B	12/19/09	94.8	89.8	5.35	80-120	25
Benzene	71266-03	<0.50	40.6	40.6	37.3	36.4	ug/L	EPA 8260B	12/19/09	92.1	89.8	2.47	80-120	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Ethylbenzene	71266-03	<0.50	40.3	40.3	39.2	38.3	ug/L	EPA 8260B	12/19/09	97.4	95.0	2.43	80-120	25
Methyl-t-butyl ether	71266-03	1.7	40.6	40.6	41.1	40.6	ug/L	EPA 8260B	12/19/09	96.9	95.7	1.25	69.7-121	25
P + M Xylene	71266-03	<1.0	39.2	39.2	37.4	36.6	ug/L	EPA 8260B	12/19/09	95.2	93.3	1.97	76.8-120	25
Toluene	71266-03	<0.50	40.3	40.3	41.5	40.5	ug/L	EPA 8260B	12/19/09	103	100	2.41	80-120	25
1,1,2,2-Tetrachloroethane	71239-12	<0.50	39.1	39.0	38.0	36.8	ug/L	EPA 8260B	12/18/09	97.1	94.4	2.79	80-124	25
1,1-Dichloroethane	71239-12	<0.50	39.4	39.3	38.9	38.1	ug/L	EPA 8260B	12/18/09	98.7	97.1	1.63	76.5-120	25
1,1-Dichloroethene	71239-12	<0.50	39.3	39.1	37.1	36.4	ug/L	EPA 8260B	12/18/09	94.5	93.0	1.57	69.6-124	25
1,2-Dibromoethane	71239-12	<0.50	40.1	40.0	39.6	38.7	ug/L	EPA 8260B	12/18/09	98.7	97.0	1.82	80-120	25
1,2-Dichlorobenzene	71239-12	<0.50	39.6	39.4	36.7	36.6	ug/L	EPA 8260B	12/18/09	92.7	92.8	0.138	80-120	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,2-Dichloroethane	71239-12	<0.50	39.3	39.2	36.0	35.5	ug/L	EPA 8260B	12/18/09	91.6	90.6	1.02	75.7-122	25
1,2-Dichloropropane	71239-12	<0.50	39.2	39.0	37.5	37.1	ug/L	EPA 8260B	12/18/09	95.8	95.0	0.772	80-120	25
1,3-Dichlorobenzene	71239-12	<0.50	39.9	39.7	38.2	37.7	ug/L	EPA 8260B	12/18/09	95.7	94.9	0.840	79.3-120	25
1,4-Dichlorobenzene	71239-12	<0.50	39.6	39.4	40.7	40.4	ug/L	EPA 8260B	12/18/09	103	102	0.364	80-120	25
Chlorobenzene	71239-12	<0.50	40.4	40.2	38.3	37.8	ug/L	EPA 8260B	12/18/09	94.7	93.8	0.977	80-120	25
Chloroform	71239-12	0.55	40.6	40.4	39.8	39.0	ug/L	EPA 8260B	12/18/09	96.7	95.2	1.51	80.0-120	25
Chloromethane	71239-12	<0.50	40.1	39.9	35.2	35.1	ug/L	EPA 8260B	12/18/09	87.8	88.0	0.217	50.8-148	25
O-Xylene	71239-12	<0.50	40.2	40.0	40.9	40.4	ug/L	EPA 8260B	12/18/09	102	101	1.04	79.7-120	25
Tetrachloroethene	71239-12	<0.50	40.4	40.2	38.9	38.5	ug/L	EPA 8260B	12/18/09	96.5	95.8	0.738	77.0-120	25
Trichloroethene	71239-12	<0.50	39.2	39.0	37.8	37.2	ug/L	EPA 8260B	12/18/09	96.6	95.4	1.23	80-120	25

Report Number : 71236

Date : 04/30/2012

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Vinyl Chloride	71239-12	<0.50	40.0	39.8	36.8	36.0	ug/L	EPA 8260B	12/18/09	92.0	90.5	1.67	42.1-138	25
1,1,2,2-Tetrachloroethane	71252-03	<0.50	39.3	39.3	41.5	38.9	ug/L	EPA 8260B	12/17/09	105	98.8	6.48	80-124	25
1,1-Dichloroethane	71252-03	<0.50	39.7	39.7	39.4	36.0	ug/L	EPA 8260B	12/17/09	99.2	90.8	8.92	76.5-120	25
1,1-Dichloroethene	71252-03	<0.50	39.5	39.5	39.6	36.1	ug/L	EPA 8260B	12/17/09	100	91.3	9.30	69.6-124	25
1,2-Dibromoethane	71252-03	<0.50	40.4	40.4	42.7	39.5	ug/L	EPA 8260B	12/17/09	106	97.9	7.78	80-120	25
1,2-Dichlorobenzene	71252-03	<0.50	39.8	39.8	39.5	36.6	ug/L	EPA 8260B	12/17/09	99.1	91.8	7.67	80-120	25
1,2-Dichloroethane	71252-03	<0.50	39.6	39.6	37.0	33.7	ug/L	EPA 8260B	12/17/09	93.6	85.1	9.52	75.7-122	25
1,2-Dichloropropane	71252-03	<0.50	39.4	39.4	38.8	35.2	ug/L	EPA 8260B	12/17/09	98.3	89.2	9.70	80-120	25
1,3-Dichlorobenzene	71252-03	<0.50	40.1	40.1	40.6	37.2	ug/L	EPA 8260B	12/17/09	101	92.6	8.81	79.3-120	25



**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,4-Dichlorobenzene	71252-03	<0.50	39.8	39.8	39.6	36.2	ug/L	EPA 8260B	12/17/09	99.5	91.0	8.96	80-120	25
Bromoform	71252-03	<0.50	39.5	39.5	32.5	30.3	ug/L	EPA 8260B	12/17/09	82.3	76.7	7.02	73.0-142	25
Chlorobenzene	71252-03	<0.50	40.7	40.7	40.2	36.9	ug/L	EPA 8260B	12/17/09	98.9	90.7	8.68	80-120	25
Chloroform	71252-03	1.2	40.8	40.8	41.4	37.5	ug/L	EPA 8260B	12/17/09	98.7	89.0	10.4	80.0-120	25
Chloromethane	71252-03	<0.50	40.3	40.3	38.1	34.1	ug/L	EPA 8260B	12/17/09	94.5	84.7	10.9	50.8-148	25
O-Xylene	71252-03	<0.50	40.4	40.4	40.6	36.0	ug/L	EPA 8260B	12/17/09	100	89.1	12.0	79.7-120	25
Tetrachloroethene	71252-03	<0.50	40.6	40.6	39.5	36.4	ug/L	EPA 8260B	12/17/09	97.3	89.6	8.25	77.0-120	25
Trichloroethene	71252-03	<0.50	39.4	39.4	39.4	35.8	ug/L	EPA 8260B	12/17/09	100	91.0	9.46	80-120	25
Vinyl Chloride	71252-03	<0.50	40.2	40.2	40.4	36.9	ug/L	EPA 8260B	12/17/09	100	91.6	9.22	42.1-138	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,1,2,2-Tetrachloroethane	71246-01	<0.50	39.3	39.3	42.6	42.7	ug/L	EPA 8260B	12/18/09	108	108	0.172	80-124	25
1,1-Dichloroethane	71246-01	<0.50	39.7	39.7	39.9	39.3	ug/L	EPA 8260B	12/18/09	100	99.0	1.57	76.5-120	25
1,1-Dichloroethene	71246-01	<0.50	39.5	39.5	41.1	39.0	ug/L	EPA 8260B	12/18/09	104	98.5	5.31	69.6-124	25
1,2-Dibromoethane	71246-01	<0.50	40.4	40.4	43.4	43.1	ug/L	EPA 8260B	12/18/09	107	107	0.617	80-120	25
1,2-Dichlorobenzene	71246-01	<0.50	39.8	39.8	40.1	40.0	ug/L	EPA 8260B	12/18/09	101	100	0.0891	80-120	25
1,2-Dichloroethane	71246-01	<0.50	39.6	39.6	37.2	37.3	ug/L	EPA 8260B	12/18/09	94.1	94.2	0.105	75.7-122	25
1,2-Dichloropropane	71246-01	<0.50	39.4	39.4	39.0	38.9	ug/L	EPA 8260B	12/18/09	98.9	98.6	0.245	80-120	25
1,3-Dichlorobenzene	71246-01	<0.50	40.1	40.1	41.9	41.1	ug/L	EPA 8260B	12/18/09	104	102	1.80	79.3-120	25
1,4-Dichlorobenzene	71246-01	<0.50	39.8	39.8	40.0	39.8	ug/L	EPA 8260B	12/18/09	100	99.8	0.649	80-120	25
Bromoform	71246-01	2.2	39.5	39.5	36.6	36.8	ug/L	EPA 8260B	12/18/09	87.1	87.7	0.702	73.0-142	25

Report Number : 71236

Date : 04/30/2012

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Chlorobenzene	71246-01	<0.50	40.7	40.7	41.2	40.6	ug/L	EPA 8260B	12/18/09	101	99.9	1.44	80-120	25
Chloroform	71246-01	<0.50	40.8	40.8	40.8	40.5	ug/L	EPA 8260B	12/18/09	100	99.2	0.800	80.0-120	25
Chloromethane	71246-01	0.53	40.3	40.3	39.0	38.0	ug/L	EPA 8260B	12/18/09	95.5	92.9	2.78	50.8-148	25
O-Xylene	71246-01	<0.50	40.4	40.4	42.9	41.5	ug/L	EPA 8260B	12/18/09	106	103	3.18	79.7-120	25
Tetrachloroethene	71246-01	<0.50	40.6	40.6	40.2	38.6	ug/L	EPA 8260B	12/18/09	98.9	95.0	4.09	77.0-120	25
Trichloroethene	71246-01	<0.50	39.4	39.4	40.5	39.4	ug/L	EPA 8260B	12/18/09	103	99.9	2.90	80-120	25
Vinyl Chloride	71246-01	<0.50	40.2	40.2	40.6	38.6	ug/L	EPA 8260B	12/18/09	101	96.0	5.00	42.1-138	25
1,1,2,2-Tetrachloroethane	71269-03	<0.50	39.3	39.3	42.8	42.6	ug/L	EPA 8260B	12/18/09	109	108	0.438	80-124	25
1,1-Dichloroethane	71269-03	<0.50	39.7	39.7	41.0	40.7	ug/L	EPA 8260B	12/18/09	103	102	0.807	76.5-120	25

Report Number : 71236

Date : 04/30/2012

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,1-Dichloroethene	71269-03	<0.50	39.5	39.5	40.3	38.5	ug/L	EPA 8260B	12/18/09	102	97.4	4.51	69.6-124	25
1,2-Dibromoethane	71269-03	<0.50	40.4	40.4	43.1	43.2	ug/L	EPA 8260B	12/18/09	107	107	0.412	80-120	25
1,2-Dichlorobenzene	71269-03	<0.50	39.8	39.8	40.2	40.8	ug/L	EPA 8260B	12/18/09	101	102	1.59	80-120	25
1,2-Dichloroethane	71269-03	<0.50	39.6	39.6	37.6	37.6	ug/L	EPA 8260B	12/18/09	94.9	94.9	0.0313	75.7-122	25
1,2-Dichloropropane	71269-03	<0.50	39.4	39.4	39.6	39.5	ug/L	EPA 8260B	12/18/09	100	100	0.306	80-120	25
1,3-Dichlorobenzene	71269-03	<0.50	40.1	40.1	42.7	42.2	ug/L	EPA 8260B	12/18/09	106	105	1.34	79.3-120	25
1,4-Dichlorobenzene	71269-03	<0.50	39.8	39.8	40.2	40.4	ug/L	EPA 8260B	12/18/09	101	102	0.504	80-120	25
Bromoform	71269-03	<0.50	39.5	39.5	32.7	32.6	ug/L	EPA 8260B	12/18/09	82.9	82.5	0.422	73.0-142	25
Chlorobenzene	71269-03	<0.50	40.7	40.7	41.8	41.2	ug/L	EPA 8260B	12/18/09	103	101	1.54	80-120	25
Chloroform	71269-03	<0.50	40.8	40.8	41.3	41.0	ug/L	EPA 8260B	12/18/09	101	100	0.717	80.0-120	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Chloromethane	71269-03	<0.50	40.3	40.3	39.6	38.6	ug/L	EPA 8260B	12/18/09	98.3	95.8	2.59	50.8-148	25
O-Xylene	71269-03	<0.50	40.4	40.4	43.1	41.8	ug/L	EPA 8260B	12/18/09	107	104	2.98	79.7-120	25
Tetrachloroethene	71269-03	<0.50	40.6	40.6	40.2	38.4	ug/L	EPA 8260B	12/18/09	99.0	94.7	4.44	77.0-120	25
Trichloroethene	71269-03	<0.50	39.4	39.4	39.7	39.0	ug/L	EPA 8260B	12/18/09	101	98.9	2.01	80-120	25
Vinyl Chloride	71269-03	<0.50	40.2	40.2	41.5	39.4	ug/L	EPA 8260B	12/18/09	103	98.0	5.19	42.1-138	25
1,1,2,2-Tetrachloroethane	71266-01	<0.50	39.3	39.3	41.8	41.5	ug/L	EPA 8260B	12/19/09	106	106	0.746	80-124	25
1,1-Dichloroethane	71266-01	<0.50	39.7	39.7	40.3	38.6	ug/L	EPA 8260B	12/19/09	102	97.3	4.35	76.5-120	25
1,1-Dichloroethene	71266-01	<0.50	39.5	39.5	38.1	35.7	ug/L	EPA 8260B	12/19/09	96.3	90.3	6.45	69.6-124	25
1,2-Dibromoethane	71266-01	<0.50	40.4	40.4	42.8	42.4	ug/L	EPA 8260B	12/19/09	106	105	0.964	80-120	25

Report Number : 71236

Date : 04/30/2012

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,2-Dichlorobenzene	71266-01	<0.50	39.8	39.8	40.5	39.1	ug/L	EPA 8260B	12/19/09	102	98.2	3.48	80-120	25
1,2-Dichloroethane	71266-01	<0.50	39.6	39.6	36.9	36.5	ug/L	EPA 8260B	12/19/09	93.3	92.2	1.20	75.7-122	25
1,2-Dichloropropane	71266-01	<0.50	39.4	39.4	39.1	38.0	ug/L	EPA 8260B	12/19/09	99.0	96.4	2.66	80-120	25
1,3-Dichlorobenzene	71266-01	<0.50	40.1	40.1	41.7	40.4	ug/L	EPA 8260B	12/19/09	104	101	3.04	79.3-120	25
1,4-Dichlorobenzene	71266-01	<0.50	39.8	39.8	40.0	38.9	ug/L	EPA 8260B	12/19/09	100	97.7	2.81	80-120	25
Bromoform	71266-01	<0.50	39.5	39.5	35.6	35.6	ug/L	EPA 8260B	12/19/09	90.2	90.2	0.0585	73.0-142	25
Chlorobenzene	71266-01	<0.50	40.7	40.7	41.1	39.6	ug/L	EPA 8260B	12/19/09	101	97.3	3.77	80-120	25
Chloroform	71266-01	<0.50	40.8	40.8	41.1	39.4	ug/L	EPA 8260B	12/19/09	101	96.5	4.24	80.0-120	25
Chloromethane	71266-01	<0.50	40.3	40.3	38.3	36.7	ug/L	EPA 8260B	12/19/09	95.1	91.2	4.20	50.8-148	25
O-Xylene	71266-01	<0.50	40.4	40.4	37.5	34.9	ug/L	EPA 8260B	12/19/09	92.8	86.4	7.11	79.7-120	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Tetrachloroethene	71266-01	<0.50	40.6	40.6	40.1	37.3	ug/L	EPA 8260B	12/19/09	98.7	91.9	7.06	77.0-120	25
Trichloroethene	71266-01	<0.50	39.4	39.4	39.9	37.9	ug/L	EPA 8260B	12/19/09	101	96.1	5.16	80-120	25
Vinyl Chloride	71266-01	<0.50	40.2	40.2	40.4	37.3	ug/L	EPA 8260B	12/19/09	100	92.6	7.95	42.1-138	25
1,1,2,2-Tetrachloroethane	71266-03	<0.50	39.3	39.3	44.3	44.0	ug/L	EPA 8260B	12/19/09	112	112	0.514	80-124	25
1,1-Dichloroethane	71266-03	<0.50	39.7	39.7	35.4	34.4	ug/L	EPA 8260B	12/19/09	89.2	86.8	2.72	76.5-120	25
1,2-Dibromoethane	71266-03	<0.50	40.4	40.4	42.5	42.4	ug/L	EPA 8260B	12/19/09	105	105	0.110	80-120	25
1,2-Dichlorobenzene	71266-03	<0.50	39.8	39.8	37.2	36.2	ug/L	EPA 8260B	12/19/09	93.4	90.9	2.70	80-120	25
1,2-Dichloroethane	71266-03	<0.50	39.6	39.6	37.1	36.5	ug/L	EPA 8260B	12/19/09	93.7	92.3	1.50	75.7-122	25
1,2-Dichloropropane	71266-03	<0.50	39.4	39.4	39.5	38.2	ug/L	EPA 8260B	12/19/09	100	96.9	3.24	80-120	25

Report Number : 71236

Date : 04/30/2012

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,3-Dichlorobenzene	71266-03	<0.50	40.1	40.1	36.0	35.2	ug/L	EPA 8260B	12/19/09	89.7	87.8	2.16	79.3-120	25
1,4-Dichlorobenzene	71266-03	<0.50	39.8	39.8	37.5	36.5	ug/L	EPA 8260B	12/19/09	94.2	91.5	2.87	80-120	25
Bromoform	71266-03	<0.50	39.5	39.5	36.0	36.2	ug/L	EPA 8260B	12/19/09	91.1	91.6	0.581	73.0-142	25
Chlorobenzene	71266-03	<0.50	40.7	40.7	37.4	37.1	ug/L	EPA 8260B	12/19/09	92.0	91.4	0.692	80-120	25
Chloroform	71266-03	<0.50	40.8	40.8	38.0	37.5	ug/L	EPA 8260B	12/19/09	93.0	91.9	1.21	80.0-120	25
O-Xylene	71266-03	<0.50	40.4	40.4	39.3	38.6	ug/L	EPA 8260B	12/19/09	97.4	95.5	1.91	79.7-120	25
Tetrachloroethene	71266-03	<0.50	40.6	40.6	39.3	37.9	ug/L	EPA 8260B	12/19/09	96.7	93.4	3.52	77.0-120	25
Trichloroethene	71266-03	<0.50	39.4	39.4	34.0	33.6	ug/L	EPA 8260B	12/19/09	86.4	85.3	1.28	80-120	25



**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.6	ug/L	EPA 8260B	12/17/09	93.3	80-120
Ethylbenzene	40.3	ug/L	EPA 8260B	12/17/09	104	80-120
Methyl-t-butyl ether	40.6	ug/L	EPA 8260B	12/17/09	82.7	69.7-121
P + M Xylene	39.2	ug/L	EPA 8260B	12/17/09	97.8	76.8-120
Toluene	40.3	ug/L	EPA 8260B	12/17/09	95.1	80-120
1,1,2,2-Tetrachloroethane	39.3	ug/L	EPA 8260B	12/17/09	96.6	80-124
1,1-Dichloroethane	39.7	ug/L	EPA 8260B	12/17/09	96.3	76.5-120
1,1-Dichloroethene	39.5	ug/L	EPA 8260B	12/17/09	91.6	69.6-124
1,2-Dibromoethane	40.4	ug/L	EPA 8260B	12/17/09	100	80-120
1,2-Dichlorobenzene	39.8	ug/L	EPA 8260B	12/17/09	94.0	80-120
1,2-Dichloroethane	39.6	ug/L	EPA 8260B	12/17/09	91.4	75.7-122
1,2-Dichloropropane	39.4	ug/L	EPA 8260B	12/17/09	95.5	80-120
1,3-Dichlorobenzene	40.1	ug/L	EPA 8260B	12/17/09	95.8	79.3-120
1,4-Dichlorobenzene	39.8	ug/L	EPA 8260B	12/17/09	104	80-120
Chlorobenzene	40.7	ug/L	EPA 8260B	12/17/09	93.7	80-120
Chloroform	40.8	ug/L	EPA 8260B	12/17/09	94.6	80.0-120
Chloromethane	40.3	ug/L	EPA 8260B	12/17/09	81.4	50.8-148
O-Xylene	40.4	ug/L	EPA 8260B	12/17/09	100	79.7-120
Tetrachloroethene	40.6	ug/L	EPA 8260B	12/17/09	94.9	77.0-120
Trichloroethene	39.4	ug/L	EPA 8260B	12/17/09	97.2	80-120
Vinyl Chloride	40.2	ug/L	EPA 8260B	12/17/09	89.5	42.1-138
Benzene	40.2	ug/L	EPA 8260B	12/17/09	100	80-120

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Ethylbenzene	40.2	ug/L	EPA 8260B	12/17/09	104	80-120
Methyl-t-butyl ether	40.8	ug/L	EPA 8260B	12/17/09	92.3	69.7-121
P + M Xylene	40.2	ug/L	EPA 8260B	12/17/09	103	76.8-120
TPH as Gasoline	509	ug/L	EPA 8260B	12/17/09	95.7	80-120
Toluene	40.2	ug/L	EPA 8260B	12/17/09	102	80-120
1,1,1,2-Tetrachloroethane	40.2	ug/L	EPA 8260B	12/17/09	105	80-121
1,1,1-Trichloroethane	40.2	ug/L	EPA 8260B	12/17/09	100	72.2-136
1,1,2,2-Tetrachloroethane	40.2	ug/L	EPA 8260B	12/17/09	104	80-124
1,1,2-Trichloroethane	40.2	ug/L	EPA 8260B	12/17/09	101	80-120
1,1-Dichloroethane	40.2	ug/L	EPA 8260B	12/17/09	101	76.5-120
1,1-Dichloroethene	40.2	ug/L	EPA 8260B	12/17/09	99.1	69.6-124
1,1-Dichloropropene	40.2	ug/L	EPA 8260B	12/17/09	102	80-120
1,2,3-Trichlorobenzene	40.2	ug/L	EPA 8260B	12/17/09	100	79.7-120
1,2,3-Trichloropropane	40.2	ug/L	EPA 8260B	12/17/09	101	80-120
1,2,4-Trichlorobenzene	40.2	ug/L	EPA 8260B	12/17/09	100	80-120
1,2,4-Trimethylbenzene	40.2	ug/L	EPA 8260B	12/17/09	104	80-124
1,2-Dibromoethane	40.2	ug/L	EPA 8260B	12/17/09	103	80-120
1,2-Dichlorobenzene	40.2	ug/L	EPA 8260B	12/17/09	102	80-120
1,2-Dichloroethane	40.2	ug/L	EPA 8260B	12/17/09	99.9	75.7-122
1,2-Dichloropropane	40.2	ug/L	EPA 8260B	12/17/09	100	80-120
1,2-dibromo-3-chloropropane	40.2	ug/L	EPA 8260B	12/17/09	102	70.4-135
1,3,5-Trimethylbenzene	40.2	ug/L	EPA 8260B	12/17/09	105	80-124
1,3-Dichlorobenzene	40.2	ug/L	EPA 8260B	12/17/09	103	79.3-120

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,3-Dichloropropane	40.2	ug/L	EPA 8260B	12/17/09	100	80-120
1,4-Dichlorobenzene	40.2	ug/L	EPA 8260B	12/17/09	101	80-120
2+4-Chlorotoluene	80.4	ug/L	EPA 8260B	12/17/09	103	80-120
2,2-Dichloropropane	40.2	ug/L	EPA 8260B	12/17/09	102	65.6-145
Bromobenzene	40.2	ug/L	EPA 8260B	12/17/09	101	77.8-120
Bromochloromethane	40.2	ug/L	EPA 8260B	12/17/09	101	80-120
Bromodichloromethane	40.2	ug/L	EPA 8260B	12/17/09	101	78.8-131
Bromoform	40.2	ug/L	EPA 8260B	12/17/09	99.7	73.0-142
Bromomethane	201	ug/L	EPA 8260B	12/17/09	102	33.5-140
Carbon Tetrachloride	40.2	ug/L	EPA 8260B	12/17/09	102	65.9-148
Chlorobenzene	40.2	ug/L	EPA 8260B	12/17/09	102	80-120
Chloroethane	40.2	ug/L	EPA 8260B	12/17/09	103	60.1-136
Chloroform	40.2	ug/L	EPA 8260B	12/17/09	101	80.0-120
Chloromethane	40.2	ug/L	EPA 8260B	12/17/09	99.5	50.8-148
Dibromochloromethane	40.2	ug/L	EPA 8260B	12/17/09	104	79.5-137
Dibromomethane	40.2	ug/L	EPA 8260B	12/17/09	101	80-122
Dichlorodifluoromethane	40.2	ug/L	EPA 8260B	12/17/09	99.8	47.4-151
Hexachlorobutadiene	40.2	ug/L	EPA 8260B	12/17/09	101	66.1-134
Isopropyl benzene	40.2	ug/L	EPA 8260B	12/17/09	103	80-122
Methylene Chloride	40.2	ug/L	EPA 8260B	12/17/09	99.2	75.3-120
Naphthalene	40.2	ug/L	EPA 8260B	12/17/09	102	79.8-121
O-Xylene	40.2	ug/L	EPA 8260B	12/17/09	103	79.7-120
Styrene	40.2	ug/L	EPA 8260B	12/17/09	108	80-124

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Tetrachloroethene	40.2	ug/L	EPA 8260B	12/17/09	100	77.0-120
Trichloroethene	40.2	ug/L	EPA 8260B	12/17/09	100	80-120
Trichlorofluoromethane	40.2	ug/L	EPA 8260B	12/17/09	101	65.2-134
Vinyl Chloride	40.2	ug/L	EPA 8260B	12/17/09	103	42.1-138
c-1,3-Dichloropropene	40.2	ug/L	EPA 8260B	12/17/09	102	80-128
cis-1,2-Dichloroethene	40.2	ug/L	EPA 8260B	12/17/09	100	80-120
n-butylbenzene	40.2	ug/L	EPA 8260B	12/17/09	104	77.1-126
n-propylbenzene	40.2	ug/L	EPA 8260B	12/17/09	102	79.8-123
p-isopropyltoluene	40.2	ug/L	EPA 8260B	12/17/09	105	75.1-129
sec-butylbenzene	40.2	ug/L	EPA 8260B	12/17/09	105	76.5-126
t-1,2-Dichloroethene	40.2	ug/L	EPA 8260B	12/17/09	102	77.2-120
t-1,3-Dichloropropene	40.2	ug/L	EPA 8260B	12/17/09	104	78.6-133
tert-butylbenzene	40.2	ug/L	EPA 8260B	12/17/09	103	76.6-124
Benzene	39.7	ug/L	EPA 8260B	12/18/09	102	80-120
Ethylbenzene	39.7	ug/L	EPA 8260B	12/18/09	104	80-120
Methyl-t-butyl ether	40.4	ug/L	EPA 8260B	12/18/09	91.5	69.7-121
P + M Xylene	39.7	ug/L	EPA 8260B	12/18/09	104	76.8-120
TPH as Gasoline	511	ug/L	EPA 8260B	12/18/09	104	80-120
Toluene	39.7	ug/L	EPA 8260B	12/18/09	102	80-120
1,1,1,2-Tetrachloroethane	39.7	ug/L	EPA 8260B	12/18/09	105	80-121
1,1,1-Trichloroethane	39.7	ug/L	EPA 8260B	12/18/09	102	72.2-136
1,1,2,2-Tetrachloroethane	39.7	ug/L	EPA 8260B	12/18/09	105	80-124

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,1,2-Trichloroethane	39.7	ug/L	EPA 8260B	12/18/09	101	80-120
1,1-Dichloroethane	39.7	ug/L	EPA 8260B	12/18/09	101	76.5-120
1,1-Dichloroethene	39.7	ug/L	EPA 8260B	12/18/09	101	69.6-124
1,1-Dichloropropene	39.7	ug/L	EPA 8260B	12/18/09	102	80-120
1,2,3-Trichlorobenzene	39.7	ug/L	EPA 8260B	12/18/09	99.0	79.7-120
1,2,3-Trichloropropane	39.7	ug/L	EPA 8260B	12/18/09	100	80-120
1,2,4-Trichlorobenzene	39.7	ug/L	EPA 8260B	12/18/09	98.8	80-120
1,2,4-Trimethylbenzene	39.7	ug/L	EPA 8260B	12/18/09	105	80-124
1,2-Dibromoethane	39.7	ug/L	EPA 8260B	12/18/09	104	80-120
1,2-Dichlorobenzene	39.7	ug/L	EPA 8260B	12/18/09	101	80-120
1,2-Dichloroethane	39.7	ug/L	EPA 8260B	12/18/09	98.5	75.7-122
1,2-Dichloropropane	39.7	ug/L	EPA 8260B	12/18/09	100	80-120
1,2-dibromo-3-chloropropane	39.7	ug/L	EPA 8260B	12/18/09	101	70.4-135
1,3,5-Trimethylbenzene	39.7	ug/L	EPA 8260B	12/18/09	106	80-124
1,3-Dichlorobenzene	39.7	ug/L	EPA 8260B	12/18/09	103	79.3-120
1,3-Dichloropropane	39.7	ug/L	EPA 8260B	12/18/09	100	80-120
1,4-Dichlorobenzene	39.7	ug/L	EPA 8260B	12/18/09	100	80-120
2+4-Chlorotoluene	79.4	ug/L	EPA 8260B	12/18/09	103	80-120
2,2-Dichloropropane	39.7	ug/L	EPA 8260B	12/18/09	103	65.6-145
Bromobenzene	39.7	ug/L	EPA 8260B	12/18/09	101	77.8-120
Bromochloromethane	39.7	ug/L	EPA 8260B	12/18/09	101	80-120
Bromodichloromethane	39.7	ug/L	EPA 8260B	12/18/09	101	78.8-131
Bromoform	39.7	ug/L	EPA 8260B	12/18/09	99.7	73.0-142

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Bromomethane	199	ug/L	EPA 8260B	12/18/09	102	33.5-140
Carbon Tetrachloride	39.7	ug/L	EPA 8260B	12/18/09	104	65.9-148
Chlorobenzene	39.7	ug/L	EPA 8260B	12/18/09	103	80-120
Chloroethane	39.7	ug/L	EPA 8260B	12/18/09	102	60.1-136
Chloroform	39.7	ug/L	EPA 8260B	12/18/09	101	80.0-120
Chloromethane	39.7	ug/L	EPA 8260B	12/18/09	102	50.8-148
Dibromochloromethane	39.7	ug/L	EPA 8260B	12/18/09	103	79.5-137
Dibromomethane	39.7	ug/L	EPA 8260B	12/18/09	102	80-122
Dichlorodifluoromethane	39.7	ug/L	EPA 8260B	12/18/09	105	47.4-151
Hexachlorobutadiene	39.7	ug/L	EPA 8260B	12/18/09	101	66.1-134
Isopropyl benzene	39.7	ug/L	EPA 8260B	12/18/09	105	80-122
Methylene Chloride	39.7	ug/L	EPA 8260B	12/18/09	99.5	75.3-120
Naphthalene	39.7	ug/L	EPA 8260B	12/18/09	102	79.8-121
O-Xylene	39.7	ug/L	EPA 8260B	12/18/09	105	79.7-120
Styrene	39.7	ug/L	EPA 8260B	12/18/09	108	80-124
Tetrachloroethene	39.7	ug/L	EPA 8260B	12/18/09	102	77.0-120
Trichloroethene	39.7	ug/L	EPA 8260B	12/18/09	101	80-120
Trichlorofluoromethane	39.7	ug/L	EPA 8260B	12/18/09	106	65.2-134
Vinyl Chloride	39.7	ug/L	EPA 8260B	12/18/09	106	42.1-138
c-1,3-Dichloropropene	39.7	ug/L	EPA 8260B	12/18/09	102	80-128
cis-1,2-Dichloroethene	39.7	ug/L	EPA 8260B	12/18/09	99.7	80-120
n-butylbenzene	39.7	ug/L	EPA 8260B	12/18/09	103	77.1-126
n-propylbenzene	39.7	ug/L	EPA 8260B	12/18/09	103	79.8-123

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
p-isopropyltoluene	39.7	ug/L	EPA 8260B	12/18/09	106	75.1-129
sec-butylbenzene	39.7	ug/L	EPA 8260B	12/18/09	107	76.5-126
t-1,2-Dichloroethene	39.7	ug/L	EPA 8260B	12/18/09	101	77.2-120
t-1,3-Dichloropropene	39.7	ug/L	EPA 8260B	12/18/09	105	78.6-133
tert-butylbenzene	39.7	ug/L	EPA 8260B	12/18/09	104	76.6-124
Benzene	39.8	ug/L	EPA 8260B	12/18/09	105	80-120
Ethylbenzene	39.8	ug/L	EPA 8260B	12/18/09	108	80-120
Methyl-t-butyl ether	40.4	ug/L	EPA 8260B	12/18/09	96.0	69.7-121
P + M Xylene	39.8	ug/L	EPA 8260B	12/18/09	109	76.8-120
TPH as Gasoline	511	ug/L	EPA 8260B	12/18/09	102	80-120
Toluene	39.8	ug/L	EPA 8260B	12/18/09	103	80-120
1,1,1,2-Tetrachloroethane	39.8	ug/L	EPA 8260B	12/18/09	108	80-121
1,1,1-Trichloroethane	39.8	ug/L	EPA 8260B	12/18/09	106	72.2-136
1,1,2,2-Tetrachloroethane	39.8	ug/L	EPA 8260B	12/18/09	108	80-124
1,1,2-Trichloroethane	39.8	ug/L	EPA 8260B	12/18/09	101	80-120
1,1-Dichloroethane	39.8	ug/L	EPA 8260B	12/18/09	105	76.5-120
1,1-Dichloroethene	39.8	ug/L	EPA 8260B	12/18/09	104	69.6-124
1,1-Dichloropropene	39.8	ug/L	EPA 8260B	12/18/09	106	80-120
1,2,3-Trichlorobenzene	39.8	ug/L	EPA 8260B	12/18/09	104	79.7-120
1,2,3-Trichloropropane	39.8	ug/L	EPA 8260B	12/18/09	104	80-120
1,2,4-Trichlorobenzene	39.8	ug/L	EPA 8260B	12/18/09	104	80-120
1,2,4-Trimethylbenzene	39.8	ug/L	EPA 8260B	12/18/09	110	80-124

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,2-Dibromoethane	39.8	ug/L	EPA 8260B	12/18/09	104	80-120
1,2-Dichlorobenzene	39.8	ug/L	EPA 8260B	12/18/09	104	80-120
1,2-Dichloroethane	39.8	ug/L	EPA 8260B	12/18/09	102	75.7-122
1,2-Dichloropropane	39.8	ug/L	EPA 8260B	12/18/09	104	80-120
1,2-dibromo-3-chloropropane	39.8	ug/L	EPA 8260B	12/18/09	106	70.4-135
1,3,5-Trimethylbenzene	39.8	ug/L	EPA 8260B	12/18/09	111	80-124
1,3-Dichlorobenzene	39.8	ug/L	EPA 8260B	12/18/09	108	79.3-120
1,3-Dichloropropane	39.8	ug/L	EPA 8260B	12/18/09	100	80-120
1,4-Dichlorobenzene	39.8	ug/L	EPA 8260B	12/18/09	105	80-120
2+4-Chlorotoluene	79.6	ug/L	EPA 8260B	12/18/09	108	80-120
2,2-Dichloropropane	39.8	ug/L	EPA 8260B	12/18/09	107	65.6-145
Bromobenzene	39.8	ug/L	EPA 8260B	12/18/09	106	77.8-120
Bromochloromethane	39.8	ug/L	EPA 8260B	12/18/09	105	80-120
Bromodichloromethane	39.8	ug/L	EPA 8260B	12/18/09	102	78.8-131
Bromoform	39.8	ug/L	EPA 8260B	12/18/09	103	73.0-142
Bromomethane	199	ug/L	EPA 8260B	12/18/09	109	33.5-140
Carbon Tetrachloride	39.8	ug/L	EPA 8260B	12/18/09	107	65.9-148
Chlorobenzene	39.8	ug/L	EPA 8260B	12/18/09	106	80-120
Chloroethane	39.8	ug/L	EPA 8260B	12/18/09	110	60.1-136
Chloroform	39.8	ug/L	EPA 8260B	12/18/09	105	80.0-120
Chloromethane	39.8	ug/L	EPA 8260B	12/18/09	110	50.8-148
Dibromochloromethane	39.8	ug/L	EPA 8260B	12/18/09	104	79.5-137
Dibromomethane	39.8	ug/L	EPA 8260B	12/18/09	102	80-122



**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Dichlorodifluoromethane	39.8	ug/L	EPA 8260B	12/18/09	125	47.4-151
Hexachlorobutadiene	39.8	ug/L	EPA 8260B	12/18/09	105	66.1-134
Isopropyl benzene	39.8	ug/L	EPA 8260B	12/18/09	109	80-122
Methylene Chloride	39.8	ug/L	EPA 8260B	12/18/09	101	75.3-120
Naphthalene	39.8	ug/L	EPA 8260B	12/18/09	107	79.8-121
O-Xylene	39.8	ug/L	EPA 8260B	12/18/09	108	79.7-120
Styrene	39.8	ug/L	EPA 8260B	12/18/09	112	80-124
Tetrachloroethene	39.8	ug/L	EPA 8260B	12/18/09	105	77.0-120
Trichloroethene	39.8	ug/L	EPA 8260B	12/18/09	104	80-120
Trichlorofluoromethane	39.8	ug/L	EPA 8260B	12/18/09	115	65.2-134
Vinyl Chloride	39.8	ug/L	EPA 8260B	12/18/09	113	42.1-138
c-1,3-Dichloropropene	39.8	ug/L	EPA 8260B	12/18/09	103	80-128
cis-1,2-Dichloroethene	39.8	ug/L	EPA 8260B	12/18/09	104	80-120
n-butylbenzene	39.8	ug/L	EPA 8260B	12/18/09	108	77.1-126
n-propylbenzene	39.8	ug/L	EPA 8260B	12/18/09	108	79.8-123
p-isopropyltoluene	39.8	ug/L	EPA 8260B	12/18/09	111	75.1-129
sec-butylbenzene	39.8	ug/L	EPA 8260B	12/18/09	112	76.5-126
t-1,2-Dichloroethene	39.8	ug/L	EPA 8260B	12/18/09	104	77.2-120
t-1,3-Dichloropropene	39.8	ug/L	EPA 8260B	12/18/09	105	78.6-133
tert-butylbenzene	39.8	ug/L	EPA 8260B	12/18/09	108	76.6-124
Benzene	40.2	ug/L	EPA 8260B	12/19/09	102	80-120
Ethylbenzene	40.2	ug/L	EPA 8260B	12/19/09	104	80-120

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Methyl-t-butyl ether	40.8	ug/L	EPA 8260B	12/19/09	92.2	69.7-121
P + M Xylene	40.2	ug/L	EPA 8260B	12/19/09	105	76.8-120
TPH as Gasoline	511	ug/L	EPA 8260B	12/19/09	102	80-120
Toluene	40.2	ug/L	EPA 8260B	12/19/09	100	80-120
1,1,1,2-Tetrachloroethane	40.2	ug/L	EPA 8260B	12/19/09	104	80-121
1,1,1-Trichloroethane	40.2	ug/L	EPA 8260B	12/19/09	101	72.2-136
1,1,2,2-Tetrachloroethane	40.2	ug/L	EPA 8260B	12/19/09	104	80-124
1,1,2-Trichloroethane	40.2	ug/L	EPA 8260B	12/19/09	99.1	80-120
1,1-Dichloroethane	40.2	ug/L	EPA 8260B	12/19/09	102	76.5-120
1,1-Dichloroethene	40.2	ug/L	EPA 8260B	12/19/09	101	69.6-124
1,1-Dichloropropene	40.2	ug/L	EPA 8260B	12/19/09	103	80-120
1,2,3-Trichlorobenzene	40.2	ug/L	EPA 8260B	12/19/09	100	79.7-120
1,2,3-Trichloropropane	40.2	ug/L	EPA 8260B	12/19/09	101	80-120
1,2,4-Trichlorobenzene	40.2	ug/L	EPA 8260B	12/19/09	100	80-120
1,2,4-Trimethylbenzene	40.2	ug/L	EPA 8260B	12/19/09	107	80-124
1,2-Dibromoethane	40.2	ug/L	EPA 8260B	12/19/09	102	80-120
1,2-Dichlorobenzene	40.2	ug/L	EPA 8260B	12/19/09	102	80-120
1,2-Dichloroethane	40.2	ug/L	EPA 8260B	12/19/09	98.1	75.7-122
1,2-Dichloropropane	40.2	ug/L	EPA 8260B	12/19/09	99.9	80-120
1,2-dibromo-3-chloropropane	40.2	ug/L	EPA 8260B	12/19/09	104	70.4-135
1,3,5-Trimethylbenzene	40.2	ug/L	EPA 8260B	12/19/09	107	80-124
1,3-Dichlorobenzene	40.2	ug/L	EPA 8260B	12/19/09	104	79.3-120
1,3-Dichloropropane	40.2	ug/L	EPA 8260B	12/19/09	98.4	80-120

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,4-Dichlorobenzene	40.2	ug/L	EPA 8260B	12/19/09	102	80-120
2+4-Chlorotoluene	80.4	ug/L	EPA 8260B	12/19/09	105	80-120
2,2-Dichloropropane	40.2	ug/L	EPA 8260B	12/19/09	103	65.6-145
Bromobenzene	40.2	ug/L	EPA 8260B	12/19/09	102	77.8-120
Bromochloromethane	40.2	ug/L	EPA 8260B	12/19/09	99.9	80-120
Bromodichloromethane	40.2	ug/L	EPA 8260B	12/19/09	99.2	78.8-131
Bromoform	40.2	ug/L	EPA 8260B	12/19/09	100	73.0-142
Bromomethane	201	ug/L	EPA 8260B	12/19/09	104	33.5-140
Carbon Tetrachloride	40.2	ug/L	EPA 8260B	12/19/09	103	65.9-148
Chlorobenzene	40.2	ug/L	EPA 8260B	12/19/09	103	80-120
Chloroethane	40.2	ug/L	EPA 8260B	12/19/09	105	60.1-136
Chloroform	40.2	ug/L	EPA 8260B	12/19/09	102	80.0-120
Chloromethane	40.2	ug/L	EPA 8260B	12/19/09	104	50.8-148
Dibromochloromethane	40.2	ug/L	EPA 8260B	12/19/09	102	79.5-137
Dibromomethane	40.2	ug/L	EPA 8260B	12/19/09	100	80-122
Dichlorodifluoromethane	40.2	ug/L	EPA 8260B	12/19/09	102	47.4-151
Hexachlorobutadiene	40.2	ug/L	EPA 8260B	12/19/09	102	66.1-134
Isopropyl benzene	40.2	ug/L	EPA 8260B	12/19/09	106	80-122
Methylene Chloride	40.2	ug/L	EPA 8260B	12/19/09	100	75.3-120
Naphthalene	40.2	ug/L	EPA 8260B	12/19/09	103	79.8-121
O-Xylene	40.2	ug/L	EPA 8260B	12/19/09	104	79.7-120
Styrene	40.2	ug/L	EPA 8260B	12/19/09	108	80-124
Tetrachloroethene	40.2	ug/L	EPA 8260B	12/19/09	101	77.0-120

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Trichloroethene	40.2	ug/L	EPA 8260B	12/19/09	101	80-120
Trichlorofluoromethane	40.2	ug/L	EPA 8260B	12/19/09	105	65.2-134
Vinyl Chloride	40.2	ug/L	EPA 8260B	12/19/09	106	42.1-138
c-1,3-Dichloropropene	40.2	ug/L	EPA 8260B	12/19/09	101	80-128
cis-1,2-Dichloroethene	40.2	ug/L	EPA 8260B	12/19/09	99.6	80-120
n-butylbenzene	40.2	ug/L	EPA 8260B	12/19/09	106	77.1-126
n-propylbenzene	40.2	ug/L	EPA 8260B	12/19/09	104	79.8-123
p-isopropyltoluene	40.2	ug/L	EPA 8260B	12/19/09	107	75.1-129
sec-butylbenzene	40.2	ug/L	EPA 8260B	12/19/09	108	76.5-126
t-1,2-Dichloroethene	40.2	ug/L	EPA 8260B	12/19/09	102	77.2-120
t-1,3-Dichloropropene	40.2	ug/L	EPA 8260B	12/19/09	102	78.6-133
tert-butylbenzene	40.2	ug/L	EPA 8260B	12/19/09	105	76.6-124
Benzene	40.2	ug/L	EPA 8260B	12/19/09	96.0	80-120
Ethylbenzene	40.2	ug/L	EPA 8260B	12/19/09	97.9	80-120
Methyl-t-butyl ether	40.8	ug/L	EPA 8260B	12/19/09	83.8	69.7-121
P + M Xylene	40.2	ug/L	EPA 8260B	12/19/09	93.0	76.8-120
TPH as Gasoline	511	ug/L	EPA 8260B	12/19/09	104	80-120
Toluene	40.2	ug/L	EPA 8260B	12/19/09	105	80-120
1,1,1,2-Tetrachloroethane	40.2	ug/L	EPA 8260B	12/19/09	98.4	80-121
1,1,1-Trichloroethane	40.2	ug/L	EPA 8260B	12/19/09	98.1	72.2-136
1,1,2,2-Tetrachloroethane	40.2	ug/L	EPA 8260B	12/19/09	110	80-124
1,1,2-Trichloroethane	40.2	ug/L	EPA 8260B	12/19/09	105	80-120

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,1-Dichloroethane	40.2	ug/L	EPA 8260B	12/19/09	90.3	76.5-120
1,1-Dichloropropene	40.2	ug/L	EPA 8260B	12/19/09	95.2	80-120
1,2,3-Trichlorobenzene	40.2	ug/L	EPA 8260B	12/19/09	92.6	79.7-120
1,2,3-Trichloropropane	40.2	ug/L	EPA 8260B	12/19/09	90.4	80-120
1,2,4-Trichlorobenzene	40.2	ug/L	EPA 8260B	12/19/09	93.2	80-120
1,2,4-Trimethylbenzene	40.2	ug/L	EPA 8260B	12/19/09	94.0	80-124
1,2-Dibromoethane	40.2	ug/L	EPA 8260B	12/19/09	104	80-120
1,2-Dichlorobenzene	40.2	ug/L	EPA 8260B	12/19/09	92.1	80-120
1,2-Dichloroethane	40.2	ug/L	EPA 8260B	12/19/09	100	75.7-122
1,2-Dichloropropane	40.2	ug/L	EPA 8260B	12/19/09	101	80-120
1,2-dibromo-3-chloropropane	40.2	ug/L	EPA 8260B	12/19/09	93.5	70.4-135
1,3,5-Trimethylbenzene	40.2	ug/L	EPA 8260B	12/19/09	93.4	80-124
1,3-Dichlorobenzene	40.2	ug/L	EPA 8260B	12/19/09	89.8	79.3-120
1,3-Dichloropropane	40.2	ug/L	EPA 8260B	12/19/09	103	80-120
1,4-Dichlorobenzene	40.2	ug/L	EPA 8260B	12/19/09	94.1	80-120
2+4-Chlorotoluene	80.4	ug/L	EPA 8260B	12/19/09	90.0	80-120
2,2-Dichloropropane	40.2	ug/L	EPA 8260B	12/19/09	96.1	65.6-145
Bromobenzene	40.2	ug/L	EPA 8260B	12/19/09	89.8	77.8-120
Bromochloromethane	40.2	ug/L	EPA 8260B	12/19/09	95.3	80-120
Bromodichloromethane	40.2	ug/L	EPA 8260B	12/19/09	105	78.8-131
Bromoform	40.2	ug/L	EPA 8260B	12/19/09	97.1	73.0-142
Carbon Tetrachloride	40.2	ug/L	EPA 8260B	12/19/09	97.3	65.9-148
Chlorobenzene	40.2	ug/L	EPA 8260B	12/19/09	94.4	80-120

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service Station**

Project Number : **GP011N**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Chloroform	40.2	ug/L	EPA 8260B	12/19/09	94.9	80.0-120
Dibromochloromethane	40.2	ug/L	EPA 8260B	12/19/09	108	79.5-137
Dibromomethane	40.2	ug/L	EPA 8260B	12/19/09	100	80-122
Hexachlorobutadiene	40.2	ug/L	EPA 8260B	12/19/09	95.1	66.1-134
Isopropyl benzene	40.2	ug/L	EPA 8260B	12/19/09	92.2	80-122
Methylene Chloride	40.2	ug/L	EPA 8260B	12/19/09	86.2	75.3-120
Naphthalene	40.2	ug/L	EPA 8260B	12/19/09	94.7	79.8-121
O-Xylene	40.2	ug/L	EPA 8260B	12/19/09	98.6	79.7-120
Styrene	40.2	ug/L	EPA 8260B	12/19/09	98.5	80-124
Tetrachloroethene	40.2	ug/L	EPA 8260B	12/19/09	100	77.0-120
Trichloroethene	40.2	ug/L	EPA 8260B	12/19/09	86.5	80-120
Trichlorofluoromethane	40.2	ug/L	EPA 8260B	12/19/09	82.9	65.2-134
c-1,3-Dichloropropene	40.2	ug/L	EPA 8260B	12/19/09	105	80-128
cis-1,2-Dichloroethene	40.2	ug/L	EPA 8260B	12/19/09	90.4	80-120
n-butylbenzene	40.2	ug/L	EPA 8260B	12/19/09	98.4	77.1-126
n-propylbenzene	40.2	ug/L	EPA 8260B	12/19/09	93.8	79.8-123
p-isopropyltoluene	40.2	ug/L	EPA 8260B	12/19/09	93.8	75.1-129
sec-butylbenzene	40.2	ug/L	EPA 8260B	12/19/09	93.2	76.5-126
t-1,2-Dichloroethene	40.2	ug/L	EPA 8260B	12/19/09	86.0	77.2-120
t-1,3-Dichloropropene	40.2	ug/L	EPA 8260B	12/19/09	107	78.6-133
tert-butylbenzene	40.2	ug/L	EPA 8260B	12/19/09	90.6	76.6-124



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SRG # / Lab No. **71236**

Page \_\_\_ of \_\_\_

Project Contact (Hardcopy or PDF To):

**Arnon Wilder**

Company / Address: **224 Tenmsbury**

**CLEARWATER GROUP PT RICHMOND**

Phone Number: **510 307 9943**

Fax Number: **90 232 2823**

Project #: **60011N**

P.O. #: **Former live oak service station**

Project Name: **Former live oak service station**

Project Address: **1671 Capitola Rd Santa Cruz, CA**

California EDF Report?  Yes  No

Sampling Company Log Code:

Global ID: **T0608700286**

EDF Deliverable To (Email Address): **gf15co@clearwatergroup.com**

Bill to: **CWG**

Sampler Print Name: **Arnon Wilder**

Sampler Signature: *[Signature]*

Chain-of-Custody Record and Analysis Request

Analysis Request

PLEASE CIRCLE METHOD

- 12 hr
  - 24 hr
  - 48hr
  - 72hr
  - 1 wk
- For Lab Use Only

Sample Designation	Sampling		Container			Preservative			Matrix			TAT	
	Date	Time	Sleeve	Poly	Glass	Tedlar	HCl	HNO <sub>3</sub>	None	Water	Soil		Air
MW-1	12/14/09	1555	X				X			X			01
MW-3	12/15/09	0905	X				X			X			02
MW-4	12/15/09	0954	X				X			X			03
MW-5	12/14/09	1645	X				X			X			04
MW-6	12/14/09	1515	X				X			X			05
MW-7	12/15/09	0955	X				X			X			06
MW-8	12/15/09	0917	X				X			X			07

- MTBE @ 0.5 ppb (EPA 8260B)
- BTEX (EPA 8260B)
- TPH Gas (EPA 8260B)
- 5 Oxygenates (MTBE, DIBE, ETBE, TAME, TBA) (EPA 8260B)
- 7 Oxygenates (5 oxy + EIOH, MeOH) (EPA 8260B)
- Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)
- Volatile Halocarbons (EPA 8260B)
- Volatile Organics Full List (EPA 8260B)
- Volatile Organics (EPA 524.2 Drinking Water)
- TPH as Diesel (EPA 8015M)
- TPH as Motor Oil (EPA 8015M)
- CAM 17 Metals (EPA 200.7 / 6010)
- 5 Waste Oil Metals (Cd, Cr, Ni, Pb, Zn) (EPA 200.7 / 6010)
- Mercury (EPA 245.1 / 7470 / 7471)
- Total Lead (EPA 200.7 / 6010)
- W.E.T. Lead (STLC)

Remarks:

Relinquished by: <i>[Signature]</i>	Date: <b>12/15/09</b>	Time: <b>1415</b>	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date: <b>12/16/09</b>	Time: <b>1325</b>	Received by Laboratory: <i>[Signature]</i> <b>Kiff Analytical</b>

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

**SAMPLE RECEIPT CHECKLIST**

SRG#: 71236 Date: 121609  
Project ID: Former Live Oak Service Station  
Method of Receipt:  Courier  Over-the-counter  Shipper

**COC Inspection**

Is COC present?  Yes  No  
Custody seals on shipping container?  Intact  Broken  Not present  N/A  
Is COC Signed by Relinquisher?  Yes  No Dated?  Yes  No  
Is sampler name legibly indicated on COC?  Yes  No  
Is analysis or hold requested for all samples?  Yes  No  
Is the turnaround time indicated on COC?  Yes  No  
Is COC free of whiteout and uninitialed cross-outs?  Yes  No, Whiteout  No, Cross-outs

**Sample Inspection**

Coolant Present:  Yes  No (includes water)  
Temperature °C 4.8 Therm. ID# IR-S Initial LJR Date/Time 121609/1940  N/A  
Are there custody seals on sample containers?  Intact  Broken  Not present  
Do containers match COC?  Yes  No  No, COC lists absent sample(s)  No, Extra sample(s) present  
Are there samples matrices other than soil, water, air or carbon?  Yes  No  
Are any sample containers broken, leaking or damaged?  Yes  No  
Are preservatives indicated?  Yes, on sample containers  Yes, on COC  Not indicated  N/A  
Are preservatives correct for analyses requested?  Yes  No  N/A  
Are samples within holding time for analyses requested?  Yes  No  
Are the correct sample containers used for the analyses requested?  Yes  No  
Is there sufficient sample to perform testing?  Yes  No  
Does any sample contain product, have strong odor or are otherwise suspected to be hot?  Yes  No

**Receipt Details**

Matrix WA Container type VOA # of containers received 21  
Matrix \_\_\_\_\_ Container type \_\_\_\_\_ # of containers received \_\_\_\_\_  
Matrix \_\_\_\_\_ Container type \_\_\_\_\_ # of containers received \_\_\_\_\_  
Date and Time Sample Put into Temp Storage Date: 121609 Time: 1945

**Quicklog**

Are the Sample ID's indicated:  On COC  On sample container(s)  On Both  Not indicated  
If Sample ID's are listed on both COC and containers, do they all match?  Yes  No  N/A  
Is the Project ID indicated:  On COC  On sample container(s)  On Both  Not indicated  
If project ID is listed on both COC and containers, do they all match?  Yes  No  N/A  
Are the sample collection dates indicated:  On COC  On sample container(s)  On Both  Not indicated  
If collection dates are listed on both COC and containers, do they all match?  Yes  No  N/A  
Are the sample collection times indicated:  On COC  On sample container(s)  On Both  Not indicated  
If collection times are listed on both COC and containers, do they all match?  Yes  No  N/A

**COMMENTS:**

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## Laboratory Results


Forrest Cook  
A+ Environmental Solutions, LLC  
6898 Soquel Avenue  
Santa Cruz, CA 95062

Subject : 8 Water Samples  
Project Name : Former Live Oak Service  
Project Number : GP011N

Dear Mr. Cook,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Troy Turpen

Subject : 8 Water Samples  
Project Name : Former Live Oak Service  
Project Number : GP011N

## Case Narrative

A version of this report was previously issued on 03/24/2009. This revised version replaces that report.

Analytical testing associated with these samples was conducted under laboratory quality guidelines in place at the time.

Sample : MW-1

Project Name : **Former Live Oak Service**

Project Number : **GP011N**

Lab Number : 67804-01

Matrix : Water

Sample Date :03/18/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	03/20/09 21:33
TPH as Gasoline	< 50	50	ug/L	03/20/09 21:33
Dichlorodifluoromethane	< 0.50	0.50	ug/L	03/20/09 21:33
Chloromethane	< 0.50	0.50	ug/L	03/20/09 21:33
Vinyl Chloride	< 0.50	0.50	ug/L	03/20/09 21:33
Bromomethane	< 20	20	ug/L	03/20/09 21:33
Chloroethane	< 0.50	0.50	ug/L	03/20/09 21:33
Trichlorofluoromethane	< 0.50	0.50	ug/L	03/20/09 21:33
1,1-Dichloroethene	< 0.50	0.50	ug/L	03/20/09 21:33
Methylene Chloride	< 5.0	5.0	ug/L	03/20/09 21:33
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/20/09 21:33
1,1-Dichloroethane	< 0.50	0.50	ug/L	03/20/09 21:33
2,2-Dichloropropane	< 0.50	0.50	ug/L	03/20/09 21:33
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/20/09 21:33
Chloroform	< 0.50	0.50	ug/L	03/20/09 21:33
Bromochloromethane	< 0.50	0.50	ug/L	03/20/09 21:33
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	03/20/09 21:33
1,1-Dichloropropene	< 0.50	0.50	ug/L	03/20/09 21:33
1,2-Dichloroethane	< 0.50	0.50	ug/L	03/20/09 21:33
Carbon Tetrachloride	< 0.50	0.50	ug/L	03/20/09 21:33
Benzene	< 0.50	0.50	ug/L	03/20/09 21:33
Trichloroethene	< 0.50	0.50	ug/L	03/20/09 21:33
1,2-Dichloropropane	< 0.50	0.50	ug/L	03/20/09 21:33
Bromodichloromethane	< 0.50	0.50	ug/L	03/20/09 21:33
Dibromomethane	< 0.50	0.50	ug/L	03/20/09 21:33
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/20/09 21:33
Toluene	< 0.50	0.50	ug/L	03/20/09 21:33
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/20/09 21:33
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	03/20/09 21:33
1,3-Dichloropropane	< 0.50	0.50	ug/L	03/20/09 21:33
Tetrachloroethene	< 0.50	0.50	ug/L	03/20/09 21:33
Dibromochloromethane	< 0.50	0.50	ug/L	03/20/09 21:33
1,2-Dibromoethane	< 0.50	0.50	ug/L	03/20/09 21:33

Sample : MW-1

Project Name : Former Live Oak Service

Project Number : GP011N

Lab Number : 67804-01

Matrix : Water

Sample Date :03/18/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	03/20/09 21:33
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/20/09 21:33
Ethylbenzene	< 0.50	0.50	ug/L	03/20/09 21:33
P,M-Xylene	< 1.0	1.0	ug/L	03/20/09 21:33
O-Xylene	< 0.50	0.50	ug/L	03/20/09 21:33
Styrene	< 0.50	0.50	ug/L	03/20/09 21:33
Isopropyl benzene	< 0.50	0.50	ug/L	03/20/09 21:33
Bromoform	< 0.50	0.50	ug/L	03/20/09 21:33
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/20/09 21:33
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	03/20/09 21:33
n-Propylbenzene	< 0.50	0.50	ug/L	03/20/09 21:33
Bromobenzene	< 0.50	0.50	ug/L	03/20/09 21:33
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	03/20/09 21:33
2+4-Chlorotoluene	< 1.0	1.0	ug/L	03/20/09 21:33
tert-Butylbenzene	< 0.50	0.50	ug/L	03/20/09 21:33
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	03/20/09 21:33
sec-Butylbenzene	< 0.50	0.50	ug/L	03/20/09 21:33
p-Isopropyltoluene	< 0.50	0.50	ug/L	03/20/09 21:33
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	03/20/09 21:33
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	03/20/09 21:33
n-Butylbenzene	< 0.50	0.50	ug/L	03/20/09 21:33
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	03/20/09 21:33
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	03/20/09 21:33
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	03/20/09 21:33
Hexachlorobutadiene	< 0.50	0.50	ug/L	03/20/09 21:33
Naphthalene	< 0.50	0.50	ug/L	03/20/09 21:33
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	03/20/09 21:33
1,2-Dichloroethane-d4 (Surr)	99.2		% Recovery	03/20/09 21:33
4-Bromofluorobenzene (Surr)	102		% Recovery	03/20/09 21:33
Toluene - d8 (Surr)	96.9		% Recovery	03/20/09 21:33



Sample : MW-3

Project Name : Former Live Oak Service

Project Number : GP011N

Lab Number : 67804-02

Matrix : Water

Sample Date :03/18/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.90	0.90	ug/L	03/23/09 19:57
<b>TPH as Gasoline</b>	<b>2200</b>	90	ug/L	03/23/09 19:57
Vinyl Chloride	< 0.90	0.90	ug/L	03/23/09 19:57
1,1-Dichloroethene	< 0.90	0.90	ug/L	03/23/09 19:57
1,1-Dichloroethane	< 0.90	0.90	ug/L	03/23/09 19:57
Chloroform	< 0.90	0.90	ug/L	03/23/09 19:57
1,2-Dichloroethane	< 0.90	0.90	ug/L	03/23/09 19:57
Benzene	< 0.90	0.90	ug/L	03/23/09 19:57
Trichloroethene	< 0.90	0.90	ug/L	03/23/09 19:57
1,2-Dichloropropane	< 0.90	0.90	ug/L	03/23/09 19:57
Toluene	< 0.90	0.90	ug/L	03/23/09 19:57
<b>Tetrachloroethene</b>	<b>1.0</b>	0.90	ug/L	03/23/09 19:57
1,2-Dibromoethane	< 0.90	0.90	ug/L	03/23/09 19:57
Chlorobenzene	< 0.90	0.90	ug/L	03/23/09 19:57
<b>Ethylbenzene</b>	<b>88</b>	0.90	ug/L	03/23/09 19:57
<b>P,M-Xylene</b>	<b>360</b>	1.0	ug/L	03/23/09 19:57
<b>O-Xylene</b>	<b>39</b>	0.90	ug/L	03/23/09 19:57
1,1,2,2-Tetrachloroethane	< 0.90	0.90	ug/L	03/23/09 19:57
1,3-Dichlorobenzene	< 0.90	0.90	ug/L	03/23/09 19:57
1,4-Dichlorobenzene	< 0.90	0.90	ug/L	03/23/09 19:57
1,2-Dichlorobenzene	< 0.90	0.90	ug/L	03/23/09 19:57
1,2-Dichloroethane-d4 (Surr)	98.3		% Recovery	03/23/09 19:57
4-Bromofluorobenzene (Surr)	97.1		% Recovery	03/23/09 19:57
Toluene - d8 (Surr)	99.7		% Recovery	03/23/09 19:57

Sample : MW-4

Project Name : Former Live Oak Service

Project Number : GP011N

Lab Number : 67804-03

Matrix : Water

Sample Date :03/18/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 3.0	3.0	ug/L	03/21/09 11:36
<b>TPH as Gasoline</b>	<b>12000</b>	300	ug/L	03/21/09 11:36
Vinyl Chloride	< 3.0	3.0	ug/L	03/21/09 11:36
1,1-Dichloroethene	< 3.0	3.0	ug/L	03/21/09 11:36
1,1-Dichloroethane	< 3.0	3.0	ug/L	03/21/09 11:36
Chloroform	< 3.0	3.0	ug/L	03/21/09 11:36
1,2-Dichloroethane	< 3.0	3.0	ug/L	03/21/09 11:36
Benzene	< 3.0	3.0	ug/L	03/21/09 11:36
Trichloroethene	< 3.0	3.0	ug/L	03/21/09 11:36
1,2-Dichloropropane	< 3.0	3.0	ug/L	03/21/09 11:36
<b>Toluene</b>	<b>6.2</b>	3.0	ug/L	03/21/09 11:36
Tetrachloroethene	< 3.0	3.0	ug/L	03/21/09 11:36
1,2-Dibromoethane	< 3.0	3.0	ug/L	03/21/09 11:36
Chlorobenzene	< 3.0	3.0	ug/L	03/21/09 11:36
<b>Ethylbenzene</b>	<b>1100</b>	3.0	ug/L	03/21/09 11:36
<b>P,M-Xylene</b>	<b>1400</b>	3.0	ug/L	03/21/09 11:36
<b>O-Xylene</b>	<b>5.9</b>	3.0	ug/L	03/21/09 11:36
1,1,2,2-Tetrachloroethane	< 3.0	3.0	ug/L	03/21/09 11:36
1,3-Dichlorobenzene	< 3.0	3.0	ug/L	03/21/09 11:36
1,4-Dichlorobenzene	< 3.0	3.0	ug/L	03/21/09 11:36
1,2-Dichlorobenzene	< 3.0	3.0	ug/L	03/21/09 11:36
1,2-Dichloroethane-d4 (Surr)	88.7		% Recovery	03/21/09 11:36
4-Bromofluorobenzene (Surr)	99.6		% Recovery	03/21/09 11:36
Toluene - d8 (Surr)	97.7		% Recovery	03/21/09 11:36



Sample : MW-5

Project Name : Former Live Oak Service

Project Number : GP011N

Lab Number : 67804-04

Matrix : Water

Sample Date :03/18/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	03/20/09 22:01
<b>TPH as Gasoline</b>	<b>200</b>	50	ug/L	03/20/09 22:01
(Note: Primarily compounds not found in typical Gasoline)				
Dichlorodifluoromethane	< 0.50	0.50	ug/L	03/20/09 22:01
Chloromethane	< 0.50	0.50	ug/L	03/20/09 22:01
Vinyl Chloride	< 0.50	0.50	ug/L	03/20/09 22:01
Bromomethane	< 20	20	ug/L	03/20/09 22:01
Chloroethane	< 0.50	0.50	ug/L	03/20/09 22:01
Trichlorofluoromethane	< 0.50	0.50	ug/L	03/20/09 22:01
1,1-Dichloroethene	< 0.50	0.50	ug/L	03/20/09 22:01
Methylene Chloride	< 5.0	5.0	ug/L	03/20/09 22:01
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/20/09 22:01
1,1-Dichloroethane	< 0.50	0.50	ug/L	03/20/09 22:01
2,2-Dichloropropane	< 0.50	0.50	ug/L	03/20/09 22:01
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/20/09 22:01
Chloroform	< 0.50	0.50	ug/L	03/20/09 22:01
Bromochloromethane	< 0.50	0.50	ug/L	03/20/09 22:01
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	03/20/09 22:01
1,1-Dichloropropene	< 0.50	0.50	ug/L	03/20/09 22:01
1,2-Dichloroethane	< 0.50	0.50	ug/L	03/20/09 22:01
Carbon Tetrachloride	< 0.50	0.50	ug/L	03/20/09 22:01
Benzene	< 0.50	0.50	ug/L	03/20/09 22:01
Trichloroethene	< 0.50	0.50	ug/L	03/20/09 22:01
1,2-Dichloropropane	< 0.50	0.50	ug/L	03/20/09 22:01
Bromodichloromethane	< 0.50	0.50	ug/L	03/20/09 22:01
Dibromomethane	< 0.50	0.50	ug/L	03/20/09 22:01
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/20/09 22:01
Toluene	< 0.50	0.50	ug/L	03/20/09 22:01
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/20/09 22:01
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	03/20/09 22:01
1,3-Dichloropropane	< 0.50	0.50	ug/L	03/20/09 22:01
<b>Tetrachloroethene</b>	<b>130</b>	0.50	ug/L	03/20/09 22:01
Dibromochloromethane	< 0.50	0.50	ug/L	03/20/09 22:01



Report Number : 67804

Date : 04/30/2012

Sample : MW-5

Project Name : Former Live Oak Service

Project Number : GP011N

Lab Number : 67804-04

Matrix : Water

Sample Date :03/18/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
1,2-Dibromoethane	< 0.50	0.50	ug/L	03/20/09 22:01
Chlorobenzene	< 0.50	0.50	ug/L	03/20/09 22:01
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/20/09 22:01
Ethylbenzene	< 0.50	0.50	ug/L	03/20/09 22:01
P,M-Xylene	< 1.0	1.0	ug/L	03/20/09 22:01
O-Xylene	< 0.50	0.50	ug/L	03/20/09 22:01
Styrene	< 0.50	0.50	ug/L	03/20/09 22:01
Isopropyl benzene	< 0.50	0.50	ug/L	03/20/09 22:01
Bromoform	< 0.50	0.50	ug/L	03/20/09 22:01
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/20/09 22:01
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	03/20/09 22:01
n-Propylbenzene	< 0.50	0.50	ug/L	03/20/09 22:01
Bromobenzene	< 0.50	0.50	ug/L	03/20/09 22:01
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	03/20/09 22:01
2+4-Chlorotoluene	< 1.0	1.0	ug/L	03/20/09 22:01
tert-Butylbenzene	< 0.50	0.50	ug/L	03/20/09 22:01
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	03/20/09 22:01
sec-Butylbenzene	< 0.50	0.50	ug/L	03/20/09 22:01
p-Isopropyltoluene	< 0.50	0.50	ug/L	03/20/09 22:01
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	03/20/09 22:01
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	03/20/09 22:01
n-Butylbenzene	< 0.50	0.50	ug/L	03/20/09 22:01
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	03/20/09 22:01
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	03/20/09 22:01
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	03/20/09 22:01
Hexachlorobutadiene	< 0.50	0.50	ug/L	03/20/09 22:01
Naphthalene	< 0.50	0.50	ug/L	03/20/09 22:01
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	03/20/09 22:01
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	03/20/09 22:01
4-Bromofluorobenzene (Surr)	98.7		% Recovery	03/20/09 22:01
Toluene - d8 (Surr)	94.4		% Recovery	03/20/09 22:01



Sample : MW-6

Project Name : Former Live Oak Service

Project Number : GP011N

Lab Number : 67804-05

Matrix : Water

Sample Date :03/18/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
<b>Methyl-t-butyl ether (MTBE)</b>	<b>0.63</b>	0.50	ug/L	03/20/09 23:16
TPH as Gasoline	< 50	50	ug/L	03/20/09 23:16
Dichlorodifluoromethane	< 0.50	0.50	ug/L	03/20/09 23:16
Chloromethane	< 0.50	0.50	ug/L	03/20/09 23:16
Vinyl Chloride	< 0.50	0.50	ug/L	03/20/09 23:16
Bromomethane	< 20	20	ug/L	03/20/09 23:16
Chloroethane	< 0.50	0.50	ug/L	03/20/09 23:16
Trichlorofluoromethane	< 0.50	0.50	ug/L	03/20/09 23:16
1,1-Dichloroethene	< 0.50	0.50	ug/L	03/20/09 23:16
Methylene Chloride	< 5.0	5.0	ug/L	03/20/09 23:16
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/20/09 23:16
1,1-Dichloroethane	< 0.50	0.50	ug/L	03/20/09 23:16
2,2-Dichloropropane	< 0.50	0.50	ug/L	03/20/09 23:16
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/20/09 23:16
Chloroform	< 0.50	0.50	ug/L	03/20/09 23:16
Bromochloromethane	< 0.50	0.50	ug/L	03/20/09 23:16
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	03/20/09 23:16
1,1-Dichloropropene	< 0.50	0.50	ug/L	03/20/09 23:16
1,2-Dichloroethane	< 0.50	0.50	ug/L	03/20/09 23:16
Carbon Tetrachloride	< 0.50	0.50	ug/L	03/20/09 23:16
Benzene	< 0.50	0.50	ug/L	03/20/09 23:16
Trichloroethene	< 0.50	0.50	ug/L	03/20/09 23:16
1,2-Dichloropropane	< 0.50	0.50	ug/L	03/20/09 23:16
Bromodichloromethane	< 0.50	0.50	ug/L	03/20/09 23:16
Dibromomethane	< 0.50	0.50	ug/L	03/20/09 23:16
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/20/09 23:16
Toluene	< 0.50	0.50	ug/L	03/20/09 23:16
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/20/09 23:16
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	03/20/09 23:16
1,3-Dichloropropane	< 0.50	0.50	ug/L	03/20/09 23:16
Tetrachloroethene	< 0.50	0.50	ug/L	03/20/09 23:16
Dibromochloromethane	< 0.50	0.50	ug/L	03/20/09 23:16
1,2-Dibromoethane	< 0.50	0.50	ug/L	03/20/09 23:16



Sample : MW-6

Project Name : Former Live Oak Service

Project Number : GP011N

Lab Number : 67804-05

Matrix : Water

Sample Date :03/18/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	03/20/09 23:16
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/20/09 23:16
Ethylbenzene	< 0.50	0.50	ug/L	03/20/09 23:16
P,M-Xylene	< 1.0	1.0	ug/L	03/20/09 23:16
O-Xylene	< 0.50	0.50	ug/L	03/20/09 23:16
Styrene	< 0.50	0.50	ug/L	03/20/09 23:16
Isopropyl benzene	< 0.50	0.50	ug/L	03/20/09 23:16
Bromoform	< 0.50	0.50	ug/L	03/20/09 23:16
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/20/09 23:16
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	03/20/09 23:16
n-Propylbenzene	< 0.50	0.50	ug/L	03/20/09 23:16
Bromobenzene	< 0.50	0.50	ug/L	03/20/09 23:16
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	03/20/09 23:16
2+4-Chlorotoluene	< 1.0	1.0	ug/L	03/20/09 23:16
tert-Butylbenzene	< 0.50	0.50	ug/L	03/20/09 23:16
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	03/20/09 23:16
sec-Butylbenzene	< 0.50	0.50	ug/L	03/20/09 23:16
p-Isopropyltoluene	< 0.50	0.50	ug/L	03/20/09 23:16
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	03/20/09 23:16
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	03/20/09 23:16
n-Butylbenzene	< 0.50	0.50	ug/L	03/20/09 23:16
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	03/20/09 23:16
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	03/20/09 23:16
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	03/20/09 23:16
Hexachlorobutadiene	< 0.50	0.50	ug/L	03/20/09 23:16
Naphthalene	< 0.50	0.50	ug/L	03/20/09 23:16
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	03/20/09 23:16
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	03/20/09 23:16
4-Bromofluorobenzene (Surr)	102		% Recovery	03/20/09 23:16
Toluene - d8 (Surr)	97.9		% Recovery	03/20/09 23:16

Sample : MW-7

Project Name : **Former Live Oak Service**

Project Number : **GP011N**

Lab Number : 67804-06

Matrix : Water

Sample Date :03/18/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	03/21/09 00:24
<b>TPH as Gasoline</b>	<b>300</b>	50	ug/L	03/21/09 00:24
Dichlorodifluoromethane	< 0.50	0.50	ug/L	03/21/09 00:24
Chloromethane	< 0.50	0.50	ug/L	03/21/09 00:24
Vinyl Chloride	< 0.50	0.50	ug/L	03/21/09 00:24
Bromomethane	< 20	20	ug/L	03/21/09 00:24
Chloroethane	< 0.50	0.50	ug/L	03/21/09 00:24
Trichlorofluoromethane	< 0.50	0.50	ug/L	03/21/09 00:24
1,1-Dichloroethene	< 0.50	0.50	ug/L	03/21/09 00:24
Methylene Chloride	< 5.0	5.0	ug/L	03/21/09 00:24
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/21/09 00:24
1,1-Dichloroethane	< 0.50	0.50	ug/L	03/21/09 00:24
2,2-Dichloropropane	< 0.50	0.50	ug/L	03/21/09 00:24
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	03/21/09 00:24
Chloroform	< 0.50	0.50	ug/L	03/21/09 00:24
Bromochloromethane	< 0.50	0.50	ug/L	03/21/09 00:24
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	03/21/09 00:24
1,1-Dichloropropene	< 0.50	0.50	ug/L	03/21/09 00:24
1,2-Dichloroethane	< 0.50	0.50	ug/L	03/21/09 00:24
Carbon Tetrachloride	< 0.50	0.50	ug/L	03/21/09 00:24
Benzene	< 0.50	0.50	ug/L	03/21/09 00:24
Trichloroethene	< 0.50	0.50	ug/L	03/21/09 00:24
1,2-Dichloropropane	< 0.50	0.50	ug/L	03/21/09 00:24
Bromodichloromethane	< 0.50	0.50	ug/L	03/21/09 00:24
Dibromomethane	< 0.50	0.50	ug/L	03/21/09 00:24
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/21/09 00:24
<b>Toluene</b>	<b>0.55</b>	0.50	ug/L	03/21/09 00:24
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	03/21/09 00:24
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	03/21/09 00:24
1,3-Dichloropropane	< 0.50	0.50	ug/L	03/21/09 00:24
Tetrachloroethene	< 0.50	0.50	ug/L	03/21/09 00:24
Dibromochloromethane	< 0.50	0.50	ug/L	03/21/09 00:24
1,2-Dibromoethane	< 0.50	0.50	ug/L	03/21/09 00:24

Sample : MW-7

Project Name : Former Live Oak Service

Project Number : GP011N

Lab Number : 67804-06

Matrix : Water

Sample Date :03/18/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	03/21/09 00:24
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/21/09 00:24
<b>Ethylbenzene</b>	<b>24</b>	0.50	ug/L	03/21/09 00:24
P,M-Xylene	< 1.0	1.0	ug/L	03/21/09 00:24
O-Xylene	< 0.50	0.50	ug/L	03/21/09 00:24
Styrene	< 0.50	0.50	ug/L	03/21/09 00:24
<b>Isopropyl benzene</b>	<b>2.6</b>	0.50	ug/L	03/21/09 00:24
Bromoform	< 0.50	0.50	ug/L	03/21/09 00:24
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	03/21/09 00:24
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	03/21/09 00:24
n-Propylbenzene	< 0.50	0.50	ug/L	03/21/09 00:24
Bromobenzene	< 0.50	0.50	ug/L	03/21/09 00:24
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	03/21/09 00:24
2+4-Chlorotoluene	< 1.0	1.0	ug/L	03/21/09 00:24
tert-Butylbenzene	< 0.50	0.50	ug/L	03/21/09 00:24
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	03/21/09 00:24
sec-Butylbenzene	< 0.50	0.50	ug/L	03/21/09 00:24
p-Isopropyltoluene	< 0.50	0.50	ug/L	03/21/09 00:24
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	03/21/09 00:24
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	03/21/09 00:24
n-Butylbenzene	< 0.50	0.50	ug/L	03/21/09 00:24
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	03/21/09 00:24
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	03/21/09 00:24
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	03/21/09 00:24
Hexachlorobutadiene	< 0.50	0.50	ug/L	03/21/09 00:24
Naphthalene	< 0.50	0.50	ug/L	03/21/09 00:24
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	03/21/09 00:24
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	03/21/09 00:24
4-Bromofluorobenzene (Surr)	104		% Recovery	03/21/09 00:24
Toluene - d8 (Surr)	99.0		% Recovery	03/21/09 00:24

Sample : MW-8

Project Name : Former Live Oak Service

Project Number : GP011N

Lab Number : 67804-07

Matrix : Water

Sample Date :03/18/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 1.5	1.5	ug/L	03/21/09 09:54
<b>TPH as Gasoline</b>	<b>10000</b>	150	ug/L	03/21/09 09:54
Vinyl Chloride	< 1.5	1.5	ug/L	03/21/09 09:54
1,1-Dichloroethene	< 1.5	1.5	ug/L	03/21/09 09:54
1,1-Dichloroethane	< 1.5	1.5	ug/L	03/21/09 09:54
Chloroform	< 1.5	1.5	ug/L	03/21/09 09:54
1,2-Dichloroethane	< 1.5	1.5	ug/L	03/21/09 09:54
Benzene	< 1.5	1.5	ug/L	03/21/09 09:54
Trichloroethene	< 1.5	1.5	ug/L	03/21/09 09:54
1,2-Dichloropropane	< 1.5	1.5	ug/L	03/21/09 09:54
<b>Toluene</b>	<b>8.5</b>	1.5	ug/L	03/21/09 09:54
Tetrachloroethene	< 1.5	1.5	ug/L	03/21/09 09:54
1,2-Dibromoethane	< 1.5	1.5	ug/L	03/21/09 09:54
Chlorobenzene	< 1.5	1.5	ug/L	03/21/09 09:54
<b>Ethylbenzene</b>	<b>1400</b>	2.5	ug/L	03/23/09 21:38
<b>P,M-Xylene</b>	<b>630</b>	1.5	ug/L	03/21/09 09:54
<b>O-Xylene</b>	<b>3.5</b>	1.5	ug/L	03/21/09 09:54
1,1,2,2-Tetrachloroethane	< 1.5	1.5	ug/L	03/21/09 09:54
1,3-Dichlorobenzene	< 1.5	1.5	ug/L	03/21/09 09:54
1,4-Dichlorobenzene	< 1.5	1.5	ug/L	03/21/09 09:54
1,2-Dichlorobenzene	< 1.5	1.5	ug/L	03/21/09 09:54
1,2-Dichloroethane-d4 (Surr)	83.8		% Recovery	03/21/09 09:54
4-Bromofluorobenzene (Surr)	101		% Recovery	03/21/09 09:54
Toluene - d8 (Surr)	94.4		% Recovery	03/21/09 09:54

Sample : MW-8-LF

Project Name : Former Live Oak Service

Project Number : GP011N

Lab Number : 67804-08

Matrix : Water

Sample Date :03/18/2009

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 2.5	2.5	ug/L	03/23/09 20:31
<b>TPH as Gasoline</b>	<b>11000</b>	250	ug/L	03/23/09 20:31
Vinyl Chloride	< 2.5	2.5	ug/L	03/23/09 20:31
1,1-Dichloroethene	< 2.5	2.5	ug/L	03/23/09 20:31
1,1-Dichloroethane	< 2.5	2.5	ug/L	03/23/09 20:31
Chloroform	< 2.5	2.5	ug/L	03/23/09 20:31
1,2-Dichloroethane	< 2.5	2.5	ug/L	03/23/09 20:31
Benzene	< 2.5	2.5	ug/L	03/23/09 20:31
Trichloroethene	< 2.5	2.5	ug/L	03/23/09 20:31
1,2-Dichloropropane	< 2.5	2.5	ug/L	03/23/09 20:31
<b>Toluene</b>	<b>9.5</b>	2.5	ug/L	03/23/09 20:31
Tetrachloroethene	< 2.5	2.5	ug/L	03/23/09 20:31
1,2-Dibromoethane	< 2.5	2.5	ug/L	03/23/09 20:31
Chlorobenzene	< 2.5	2.5	ug/L	03/23/09 20:31
<b>Ethylbenzene</b>	<b>1400</b>	2.5	ug/L	03/23/09 20:31
<b>P,M-Xylene</b>	<b>700</b>	2.5	ug/L	03/23/09 20:31
<b>O-Xylene</b>	<b>3.7</b>	2.5	ug/L	03/23/09 20:31
1,1,2,2-Tetrachloroethane	< 2.5	2.5	ug/L	03/23/09 20:31
1,3-Dichlorobenzene	< 2.5	2.5	ug/L	03/23/09 20:31
1,4-Dichlorobenzene	< 2.5	2.5	ug/L	03/23/09 20:31
1,2-Dichlorobenzene	< 2.5	2.5	ug/L	03/23/09 20:31
1,2-Dichloroethane-d4 (Surr)	95.6		% Recovery	03/23/09 20:31
4-Bromofluorobenzene (Surr)	100		% Recovery	03/23/09 20:31
Toluene - d8 (Surr)	98.2		% Recovery	03/23/09 20:31

Report Number : 67804

Date : 04/30/2012

**QC Report : Method Blank Data**  
**Project Name : Former Live Oak Service**  
**Project Number : GP011N**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/20/2009	TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/23/2009
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Chloroform	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	03/20/2009	P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	03/23/2009
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/23/2009
1,2-Dichloroethane-d4 (Surr)	104		%	EPA 8260B	03/20/2009	1,2-Dichloroethane-d4 (Surr)	105		%	EPA 8260B	03/23/2009
4-Bromofluorobenzene (Surr)	96.2		%	EPA 8260B	03/20/2009	4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	03/23/2009
Toluene - d8 (Surr)	103		%	EPA 8260B	03/20/2009	Toluene - d8 (Surr)	103		%	EPA 8260B	03/23/2009

Report Number : 67804

Date : 04/30/2012

QC Report : Method Blank Data  
Project Name : Former Live Oak Service

Project Number : GP011N

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/20/2009	P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	03/20/2009
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Styrene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Bromomethane	< 20	20	ug/L	EPA 8260B	03/20/2009	Bromoforn	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	03/20/2009	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	03/20/2009
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2-Dichloroethane-d4 (Surr)	103	%		EPA 8260B	03/20/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	4-Bromofluorobenzene (Surr)	98.9	%		EPA 8260B	03/20/2009
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Toluene - d8 (Surr)	96.4	%		EPA 8260B	03/20/2009
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009						
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009						
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009						
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009						
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009						
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009						
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009						



Report Number : 67804

Date : 04/30/2012

QC Report : Method Blank Data  
Project Name : Former Live Oak Service  
Project Number : GP011N

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	03/20/2009	P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	03/20/2009
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Styrene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Bromomethane	< 20	20	ug/L	EPA 8260B	03/20/2009	Bromoforn	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	03/20/2009	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	03/20/2009
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
1,1-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Benzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	1,2-Dichloroethane-d4 (Surr)	101	%		EPA 8260B	03/20/2009
Toluene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	4-Bromofluorobenzene (Surr)	98.0	%		EPA 8260B	03/20/2009
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009	Toluene - d8 (Surr)	98.3	%		EPA 8260B	03/20/2009
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009						
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009						
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009						
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009						
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009						
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009						
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	03/20/2009						

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	67788-02	<0.50	39.0	39.0	37.9	37.8	ug/L	EPA 8260B	3/20/09	97.0	96.7	0.314	70-130	25
Methyl-t-butyl ether	67788-02	<0.50	40.4	40.4	38.1	38.5	ug/L	EPA 8260B	3/20/09	94.4	95.4	1.11	70-130	25
Toluene	67788-02	<0.50	39.8	39.8	39.5	39.1	ug/L	EPA 8260B	3/20/09	99.2	98.2	1.01	70-130	25
Benzene	67817-05	43	39.2	39.3	79.4	77.0	ug/L	EPA 8260B	3/23/09	91.8	85.5	7.12	70-130	25
Methyl-t-butyl ether	67817-05	0.92	40.6	40.6	33.4	32.2	ug/L	EPA 8260B	3/23/09	80.0	77.1	3.79	70-130	25
Toluene	67817-05	1.0	40.0	40.0	41.5	41.2	ug/L	EPA 8260B	3/23/09	101	100	1.15	70-130	25
Benzene	67803-01	1.3	39.3	39.3	39.4	38.4	ug/L	EPA 8260B	3/20/09	96.8	94.2	2.76	70-130	25
Methyl-t-butyl ether	67803-01	<0.50	40.7	40.7	38.5	38.4	ug/L	EPA 8260B	3/20/09	94.5	94.3	0.304	70-130	25
Toluene	67803-01	<0.50	40.1	40.1	39.2	38.1	ug/L	EPA 8260B	3/20/09	97.6	94.9	2.88	70-130	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	67799-01	3.1	39.3	39.3	40.2	41.0	ug/L	EPA 8260B	3/20/09	94.3	96.3	2.07	70-130	25
Methyl-t-butyl ether	67799-01	<0.50	40.7	40.7	42.5	42.9	ug/L	EPA 8260B	3/20/09	104	105	0.903	70-130	25
Toluene	67799-01	<0.50	40.1	40.1	40.1	40.5	ug/L	EPA 8260B	3/20/09	100	101	0.839	70-130	25
1,1-Dichloroethane	67788-02	<0.50	40.3	40.3	39.0	38.7	ug/L	EPA 8260B	3/20/09	96.8	96.1	0.686	70-130	25
1,2-Dichloroethane	67788-02	<0.50	40.0	40.0	42.0	42.4	ug/L	EPA 8260B	3/20/09	105	106	0.920	70-130	25
Chlorobenzene	67788-02	<0.50	39.5	39.5	38.4	38.6	ug/L	EPA 8260B	3/20/09	97.1	97.7	0.644	70-130	25
1,1-Dichloroethane	67817-05	<0.50	40.4	40.5	40.1	39.3	ug/L	EPA 8260B	3/23/09	99.0	97.0	2.14	70-130	25
1,2-Dichloroethane	67817-05	<0.50	40.2	40.2	42.7	41.1	ug/L	EPA 8260B	3/23/09	106	102	4.06	70-130	25
Chlorobenzene	67817-05	<0.50	39.7	39.8	40.0	40.0	ug/L	EPA 8260B	3/23/09	101	101	0.229	70-130	25

Report Number : 67804

Date : 04/30/2012

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP011N**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,1-Dichloroethane	67803-01	<0.50	40.6	40.6	41.1	40.2	ug/L	EPA 8260B	3/20/09	101	99.1	2.13	70-130	25
1,2-Dichloroethane	67803-01	<0.50	40.3	40.3	39.2	38.5	ug/L	EPA 8260B	3/20/09	97.2	95.4	1.88	70-130	25
Chlorobenzene	67803-01	<0.50	39.8	39.8	41.0	39.9	ug/L	EPA 8260B	3/20/09	103	100	2.67	70-130	25
1,1-Dichloroethane	67799-01	<0.50	40.6	40.6	39.5	40.7	ug/L	EPA 8260B	3/20/09	97.1	100	3.20	70-130	25
1,2-Dichloroethane	67799-01	<0.50	40.3	40.3	40.8	40.8	ug/L	EPA 8260B	3/20/09	101	101	0.118	70-130	25
Chlorobenzene	67799-01	<0.50	39.8	39.8	39.5	40.0	ug/L	EPA 8260B	3/20/09	99.2	100	1.25	70-130	25

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service**

Project Number : **GP011N**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	39.3	ug/L	EPA 8260B	3/20/09	99.0	70-130
Methyl-t-butyl ether	40.7	ug/L	EPA 8260B	3/20/09	105	70-130
Toluene	40.1	ug/L	EPA 8260B	3/20/09	101	70-130
1,1-Dichloroethane	40.6	ug/L	EPA 8260B	3/20/09	98.9	70-130
1,2-Dichloroethane	40.3	ug/L	EPA 8260B	3/20/09	109	70-130
Chlorobenzene	39.8	ug/L	EPA 8260B	3/20/09	100	70-130
Benzene	39.3	ug/L	EPA 8260B	3/23/09	102	70-130
Methyl-t-butyl ether	40.7	ug/L	EPA 8260B	3/23/09	81.7	70-130
Toluene	40.1	ug/L	EPA 8260B	3/23/09	101	70-130
1,1-Dichloroethane	40.6	ug/L	EPA 8260B	3/23/09	97.9	70-130
1,2-Dichloroethane	40.3	ug/L	EPA 8260B	3/23/09	108	70-130
Chlorobenzene	39.8	ug/L	EPA 8260B	3/23/09	101	70-130
Benzene	40.1	ug/L	EPA 8260B	3/20/09	101	70-130
Methyl-t-butyl ether	40.8	ug/L	EPA 8260B	3/20/09	98.0	70-130
Toluene	40.1	ug/L	EPA 8260B	3/20/09	98.5	70-130
1,1-Dichloroethane	40.1	ug/L	EPA 8260B	3/20/09	106	70-130
1,2-Dichloroethane	40.1	ug/L	EPA 8260B	3/20/09	96.4	70-130
Chlorobenzene	40.1	ug/L	EPA 8260B	3/20/09	102	70-130
Benzene	40.0	ug/L	EPA 8260B	3/20/09	98.5	70-130

Report Number : 67804

Date : 04/30/2012

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service**

Project Number : **GP011N**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Methyl-t-butyl ether	40.7	ug/L	EPA 8260B	3/20/09	108	70-130
Toluene	40.0	ug/L	EPA 8260B	3/20/09	101	70-130
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	3/20/09	101	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	3/20/09	108	70-130
Chlorobenzene	40.0	ug/L	EPA 8260B	3/20/09	98.7	70-130



2795 2nd Street, Suite 300  
 Davis, CA 95618  
 Lab: 530.297.4800  
 Fax: 530.297.4802

SRG # / Lab No. 67804

Page \_\_\_\_\_ of \_\_\_\_\_

Project Contact (Hardcopy or PDF To):

Aron Wilder

California EDF Report?  Yes  No

Company Address: 229 Twinstary Ave,  
 Clarkdale, GA, 30143, GA

Sampling Company Log Code: CW60

Phone Number: 510-307-9443

Global ID:

Fax Number: 510-332-3823

EDF Deliverable To (Email Address):

g.fisco@clearwatergroup.com

Project #: EP011N

P.O. #:

Project Name:

Former live Oak bench

Sampler Print Name:

Eric V. Austin

Sampler Signature:

Eric V. Austin

Project Address:

1651 Capitola Rd,  
 Santa Cruz, CA

Sampling

Container

Preservative

Matrix

Sample Designation

Date

Time

None

Water

40 ml VOA

Sleeve

Poly

Glass

Tedlar

HCl

HNO<sub>3</sub>

Air

Sample Designation	Date	Time	40 ml VOA	Sleeve	Poly	Glass	Tedlar	HCl	HNO <sub>3</sub>	None	Water	Soil	Air	MTBE @ 0.5 ppb (EPA 8260B)	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (MTBE, DIBE, ETBE, TAME, TBA) (EPA 8260B)	7 Oxygenates (5 oxy + EtOH, MeOH) (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	CAM 17 Metals (EPA 200.7 / 6010)	5 Waste Oil Metals (Cd, Cr, Ni, Pb, Zn) (EPA 200.7 / 6010)	Mercury (EPA 245.1 / 7470 / 7471)	Total Lead (EPA 200.7 / 6010)	W.E.T. Lead (STLC)	TAT			
MW-1	3/18/09	1300	3					X			X			X	X	X															X		
MW-3		1315																															
MW-4		1345																															
MW-5		1400																															
MW-6		1415																															
MW-7		1430																															
MW-8		1500																															
MW-8-LF		1615																															

Chain-of-Custody Record and Analysis Request

PLEASE CIRCLE METHOD	Analysis Request	TAT
<input type="checkbox"/> 12 hr		<input type="checkbox"/> 12 hr
<input type="checkbox"/> 24 hr		<input type="checkbox"/> 24 hr
<input type="checkbox"/> 48 hr		<input type="checkbox"/> 48 hr
<input type="checkbox"/> 72 hr		<input type="checkbox"/> 72 hr
<input checked="" type="checkbox"/> 1 wk		<input checked="" type="checkbox"/> 1 wk

Remarks:

Temp °C: 21.4 Initials: AE Date: 032009 Time: 1250 Therm. ID # IF-5 Coolant Present:  Yes / No

Relinquished by: Eric V. Austin Date: 3/18/09 Time: 1300

Received by: K.A.F Date: 032009 Time: 1008

Relinquished by: Eric V. Austin Date: 032009 Time: 1008

Received by: K.A.F Date: 032009 Time: 1008



## Laboratory Results

Forrest Cook  
A+ Environmental Solutions, LLC  
6898 Soquel Avenue  
Santa Cruz, CA 95062

Subject : 7 Water Samples  
Project Name : Former Live Oak Service  
Project Number : GP011M

Dear Mr. Cook,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Troy Turpen



Subject : 7 Water Samples  
Project Name : Former Live Oak Service  
Project Number : GP011M

## Case Narrative

Matrix Spike/Matrix Spike Duplicate results associated with samples MW-4 and MW-8 for the analyte Benzene were affected by the analyte concentrations already present in the un-spiked sample.

A version of this report was previously issued on 10/28/2008. This revised version replaces that report.

The Method Reporting Limit for Bromodichloromethane has been increased due to the presence of an interfering compound for sample MW-8.

The Method Reporting Limit for Styrene has been increased due to the presence of an interfering compound for sample MW-3.

Analytical testing associated with these samples was conducted under laboratory quality guidelines in place at the time.

The result for P+M Xylene and 1,2,4-Trimethylbenzene for sample MW-3 are flagged with a 'J', indicating it is an estimate. The concentration exceeded the calibration range for the instrument. The analysis request was made after the sample had expired.

Sample : MW-1

Project Name : **Former Live Oak Service**

Project Number : **GP011M**

Lab Number : 65516-01

Matrix : Water

Sample Date :10/22/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	10/27/08 14:33
TPH as Gasoline	< 50	50	ug/L	10/27/08 14:33
Dichlorodifluoromethane	< 0.50	0.50	ug/L	10/27/08 14:33
Chloromethane	< 0.50	0.50	ug/L	10/27/08 14:33
Vinyl Chloride	< 0.50	0.50	ug/L	10/27/08 14:33
Bromomethane	< 20	20	ug/L	10/27/08 14:33
Chloroethane	< 0.50	0.50	ug/L	10/27/08 14:33
Trichlorofluoromethane	< 0.50	0.50	ug/L	10/27/08 14:33
1,1-Dichloroethene	< 0.50	0.50	ug/L	10/27/08 14:33
Methylene Chloride	< 5.0	5.0	ug/L	10/27/08 14:33
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	10/27/08 14:33
1,1-Dichloroethane	< 0.50	0.50	ug/L	10/27/08 14:33
2,2-Dichloropropane	< 0.50	0.50	ug/L	10/27/08 14:33
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	10/27/08 14:33
Chloroform	< 0.50	0.50	ug/L	10/27/08 14:33
Bromochloromethane	< 0.50	0.50	ug/L	10/27/08 14:33
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	10/27/08 14:33
1,1-Dichloropropene	< 0.50	0.50	ug/L	10/27/08 14:33
1,2-Dichloroethane	< 0.50	0.50	ug/L	10/27/08 14:33
Carbon Tetrachloride	< 0.50	0.50	ug/L	10/27/08 14:33
Benzene	< 0.50	0.50	ug/L	10/27/08 14:33
Trichloroethene	< 0.50	0.50	ug/L	10/27/08 14:33
1,2-Dichloropropane	< 0.50	0.50	ug/L	10/27/08 14:33
Bromodichloromethane	< 0.50	0.50	ug/L	10/27/08 14:33
Dibromomethane	< 0.50	0.50	ug/L	10/27/08 14:33
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	10/27/08 14:33
Toluene	< 0.50	0.50	ug/L	10/27/08 14:33
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	10/27/08 14:33
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	10/27/08 14:33
1,3-Dichloropropane	< 0.50	0.50	ug/L	10/27/08 14:33
Tetrachloroethene	< 0.50	0.50	ug/L	10/27/08 14:33
Dibromochloromethane	< 0.50	0.50	ug/L	10/27/08 14:33
1,2-Dibromoethane	< 0.50	0.50	ug/L	10/27/08 14:33

Sample : MW-1

Project Name : **Former Live Oak Service**

Project Number : **GP011M**

Lab Number : 65516-01

Matrix : Water

Sample Date :10/22/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	10/27/08 14:33
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	10/27/08 14:33
Ethylbenzene	< 0.50	0.50	ug/L	10/27/08 14:33
P,M-Xylene	< 1.0	1.0	ug/L	10/27/08 14:33
O-Xylene	< 0.50	0.50	ug/L	10/27/08 14:33
Styrene	< 0.50	0.50	ug/L	10/27/08 14:33
Isopropyl benzene	< 0.50	0.50	ug/L	10/27/08 14:33
Bromoform	< 0.50	0.50	ug/L	10/27/08 14:33
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	10/27/08 14:33
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	10/27/08 14:33
n-Propylbenzene	< 0.50	0.50	ug/L	10/27/08 14:33
Bromobenzene	< 0.50	0.50	ug/L	10/27/08 14:33
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	10/27/08 14:33
2+4-Chlorotoluene	< 1.0	1.0	ug/L	10/27/08 14:33
tert-Butylbenzene	< 0.50	0.50	ug/L	10/27/08 14:33
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	10/27/08 14:33
sec-Butylbenzene	< 0.50	0.50	ug/L	10/27/08 14:33
p-Isopropyltoluene	< 0.50	0.50	ug/L	10/27/08 14:33
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	10/27/08 14:33
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	10/27/08 14:33
n-Butylbenzene	< 0.50	0.50	ug/L	10/27/08 14:33
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	10/27/08 14:33
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	10/27/08 14:33
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	10/27/08 14:33
Hexachlorobutadiene	< 0.50	0.50	ug/L	10/27/08 14:33
Naphthalene	< 0.50	0.50	ug/L	10/27/08 14:33
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	10/27/08 14:33
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	10/27/08 14:33
4-Bromofluorobenzene (Surr)	109		% Recovery	10/27/08 14:33
Toluene - d8 (Surr)	102		% Recovery	10/27/08 14:33



Sample : MW-3

Project Name : Former Live Oak Service

Project Number : GP011M

Lab Number : 65516-02

Matrix : Water

Sample Date :10/22/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	10/25/08 12:13
<b>TPH as Gasoline</b>	<b>12000</b>	250	ug/L	10/27/08 16:18
Dichlorodifluoromethane	< 0.50	0.50	ug/L	10/25/08 12:13
Chloromethane	< 0.50	0.50	ug/L	10/25/08 12:13
Vinyl Chloride	< 0.50	0.50	ug/L	10/25/08 12:13
Bromomethane	< 20	20	ug/L	10/25/08 12:13
Chloroethane	< 0.50	0.50	ug/L	10/25/08 12:13
Trichlorofluoromethane	< 0.50	0.50	ug/L	10/25/08 12:13
1,1-Dichloroethene	< 0.50	0.50	ug/L	10/25/08 12:13
Methylene Chloride	< 5.0	5.0	ug/L	10/25/08 12:13
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	10/25/08 12:13
1,1-Dichloroethane	< 0.50	0.50	ug/L	10/25/08 12:13
2,2-Dichloropropane	< 0.50	0.50	ug/L	10/25/08 12:13
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	10/25/08 12:13
Chloroform	< 0.50	0.50	ug/L	10/25/08 12:13
Bromochloromethane	< 0.50	0.50	ug/L	10/25/08 12:13
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	10/25/08 12:13
1,1-Dichloropropene	< 0.50	0.50	ug/L	10/25/08 12:13
1,2-Dichloroethane	< 0.50	0.50	ug/L	10/25/08 12:13
Carbon Tetrachloride	< 0.50	0.50	ug/L	10/25/08 12:13
Benzene	< 0.50	0.50	ug/L	10/25/08 12:13
Trichloroethene	< 0.50	0.50	ug/L	10/25/08 12:13
1,2-Dichloropropane	< 0.50	0.50	ug/L	10/25/08 12:13
Bromodichloromethane	< 0.50	0.50	ug/L	10/25/08 12:13
Dibromomethane	< 0.50	0.50	ug/L	10/25/08 12:13
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	10/25/08 12:13
Toluene	< 0.50	0.50	ug/L	10/25/08 12:13
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	10/25/08 12:13
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	10/25/08 12:13
1,3-Dichloropropane	< 0.50	0.50	ug/L	10/25/08 12:13
Tetrachloroethene	< 0.50	0.50	ug/L	10/25/08 12:13
Dibromochloromethane	< 0.50	0.50	ug/L	10/25/08 12:13
1,2-Dibromoethane	< 0.50	0.50	ug/L	10/25/08 12:13

Sample : MW-3

Project Name : Former Live Oak Service

Project Number : GP011M

Lab Number : 65516-02

Matrix : Water

Sample Date :10/22/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	10/25/08 12:13
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	10/25/08 12:13
<b>Ethylbenzene</b>	<b>600</b>	2.5	ug/L	10/27/08 16:18
<b>P,M-Xylene</b>	<b>2100 J</b>	5.0	ug/L	10/27/08 16:18
<b>O-Xylene</b>	<b>270</b>	0.50	ug/L	10/25/08 12:13
Styrene	< 10	10	ug/L	10/25/08 12:13
<b>Isopropyl benzene</b>	<b>60</b>	0.50	ug/L	10/25/08 12:13
Bromoform	< 0.50	0.50	ug/L	10/25/08 12:13
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	10/25/08 12:13
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	10/25/08 12:13
<b>n-Propylbenzene</b>	<b>160</b>	0.50	ug/L	10/25/08 12:13
Bromobenzene	< 0.50	0.50	ug/L	10/25/08 12:13
<b>1,3,5-Trimethylbenzene</b>	<b>310</b>	2.5	ug/L	10/27/08 16:18
2+4-Chlorotoluene	< 1.0	1.0	ug/L	10/25/08 12:13
tert-Butylbenzene	< 0.50	0.50	ug/L	10/25/08 12:13
<b>1,2,4-Trimethylbenzene</b>	<b>1300 J</b>	2.5	ug/L	10/27/08 16:18
<b>sec-Butylbenzene</b>	<b>9.8</b>	0.50	ug/L	10/25/08 12:13
<b>p-Isopropyltoluene</b>	<b>6.4</b>	0.50	ug/L	10/25/08 12:13
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	10/25/08 12:13
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	10/25/08 12:13
<b>n-Butylbenzene</b>	<b>16</b>	0.50	ug/L	10/25/08 12:13
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	10/25/08 12:13
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	10/25/08 12:13
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	10/25/08 12:13
Hexachlorobutadiene	< 0.50	0.50	ug/L	10/25/08 12:13
<b>Naphthalene</b>	<b>320</b>	2.5	ug/L	10/27/08 16:18
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	10/25/08 12:13
1,2-Dichloroethane-d4 (Surr)	94.8		% Recovery	10/25/08 12:13
4-Bromofluorobenzene (Surr)	98.3		% Recovery	10/25/08 12:13
Toluene - d8 (Surr)	97.8		% Recovery	10/25/08 12:13

Sample : MW-4

Project Name : Former Live Oak Service

Project Number : GP011M

Lab Number : 65516-03

Matrix : Water

Sample Date :10/22/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.90	0.90	ug/L	10/27/08 23:48
<b>TPH as Gasoline</b>	<b>12000</b>	300	ug/L	10/28/08 15:00
Dichlorodifluoromethane	< 3.0	3.0	ug/L	10/28/08 15:00
Chloromethane	< 3.0	3.0	ug/L	10/28/08 15:00
Vinyl Chloride	< 3.0	3.0	ug/L	10/28/08 15:00
Bromomethane	< 20	20	ug/L	10/28/08 15:00
Chloroethane	< 3.0	3.0	ug/L	10/28/08 15:00
Trichlorofluoromethane	< 3.0	3.0	ug/L	10/28/08 15:00
1,1-Dichloroethene	< 3.0	3.0	ug/L	10/28/08 15:00
Methylene Chloride	< 5.0	5.0	ug/L	10/28/08 15:00
trans-1,2-Dichloroethene	< 3.0	3.0	ug/L	10/28/08 15:00
1,1-Dichloroethane	< 3.0	3.0	ug/L	10/28/08 15:00
2,2-Dichloropropane	< 3.0	3.0	ug/L	10/28/08 15:00
cis-1,2-Dichloroethene	< 3.0	3.0	ug/L	10/28/08 15:00
Chloroform	< 3.0	3.0	ug/L	10/28/08 15:00
Bromochloromethane	< 3.0	3.0	ug/L	10/28/08 15:00
1,1,1-Trichloroethane	< 3.0	3.0	ug/L	10/28/08 15:00
1,1-Dichloropropene	< 3.0	3.0	ug/L	10/28/08 15:00
1,2-Dichloroethane	< 3.0	3.0	ug/L	10/28/08 15:00
Carbon Tetrachloride	< 3.0	3.0	ug/L	10/28/08 15:00
Benzene	< 0.90	0.90	ug/L	10/27/08 23:48
Trichloroethene	< 3.0	3.0	ug/L	10/28/08 15:00
1,2-Dichloropropane	< 3.0	3.0	ug/L	10/28/08 15:00
Bromodichloromethane	< 3.0	3.0	ug/L	10/28/08 15:00
Dibromomethane	< 3.0	3.0	ug/L	10/28/08 15:00
cis-1,3-Dichloropropene	< 3.0	3.0	ug/L	10/28/08 15:00
<b>Toluene</b>	<b>9.6</b>	0.90	ug/L	10/27/08 23:48
trans-1,3-Dichloropropene	< 3.0	3.0	ug/L	10/28/08 15:00
1,1,2-Trichloroethane	< 3.0	3.0	ug/L	10/28/08 15:00
1,3-Dichloropropane	< 3.0	3.0	ug/L	10/28/08 15:00
Tetrachloroethene	< 3.0	3.0	ug/L	10/28/08 15:00
Dibromochloromethane	< 3.0	3.0	ug/L	10/28/08 15:00
1,2-Dibromoethane	< 3.0	3.0	ug/L	10/28/08 15:00

Sample : MW-4

Project Name : Former Live Oak Service

Project Number : GP011M

Lab Number : 65516-03

Matrix : Water

Sample Date :10/22/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 3.0	3.0	ug/L	10/28/08 15:00
1,1,1,2-Tetrachloroethane	< 3.0	3.0	ug/L	10/28/08 15:00
<b>Ethylbenzene</b>	<b>1000</b>	3.0	ug/L	10/28/08 15:00
<b>P,M-Xylene</b>	<b>1400</b>	6.0	ug/L	10/28/08 15:00
<b>O-Xylene</b>	<b>3.9</b>	3.0	ug/L	10/28/08 15:00
Styrene	< 3.0	3.0	ug/L	10/28/08 15:00
<b>Isopropyl benzene</b>	<b>66</b>	3.0	ug/L	10/28/08 15:00
Bromoform	< 3.0	3.0	ug/L	10/28/08 15:00
1,1,2,2-Tetrachloroethane	< 3.0	3.0	ug/L	10/28/08 15:00
1,2,3-Trichloropropane	< 3.0	3.0	ug/L	10/28/08 15:00
<b>n-Propylbenzene</b>	<b>170</b>	3.0	ug/L	10/28/08 15:00
Bromobenzene	< 3.0	3.0	ug/L	10/28/08 15:00
<b>1,3,5-Trimethylbenzene</b>	<b>120</b>	3.0	ug/L	10/28/08 15:00
2+4-Chlorotoluene	< 6.0	6.0	ug/L	10/28/08 15:00
tert-Butylbenzene	< 3.0	3.0	ug/L	10/28/08 15:00
<b>1,2,4-Trimethylbenzene</b>	<b>540</b>	3.0	ug/L	10/28/08 15:00
<b>sec-Butylbenzene</b>	<b>10</b>	3.0	ug/L	10/28/08 15:00
<b>p-Isopropyltoluene</b>	<b>6.5</b>	3.0	ug/L	10/28/08 15:00
1,3-Dichlorobenzene	< 3.0	3.0	ug/L	10/28/08 15:00
1,4-Dichlorobenzene	< 3.0	3.0	ug/L	10/28/08 15:00
<b>n-Butylbenzene</b>	<b>19</b>	3.0	ug/L	10/28/08 15:00
1,2-Dichlorobenzene	< 3.0	3.0	ug/L	10/28/08 15:00
1,2-Dibromo-3-chloropropane	< 3.0	3.0	ug/L	10/28/08 15:00
1,2,4-Trichlorobenzene	< 3.0	3.0	ug/L	10/28/08 15:00
Hexachlorobutadiene	< 3.0	3.0	ug/L	10/28/08 15:00
<b>Naphthalene</b>	<b>360</b>	3.0	ug/L	10/28/08 15:00
1,2,3-Trichlorobenzene	< 3.0	3.0	ug/L	10/28/08 15:00
1,2-Dichloroethane-d4 (Surr)	97.8		% Recovery	10/28/08 15:00
4-Bromofluorobenzene (Surr)	101		% Recovery	10/28/08 15:00
Toluene - d8 (Surr)	99.8		% Recovery	10/28/08 15:00

Sample : MW-7

Project Name : Former Live Oak Service

Project Number : GP011M

Lab Number : 65516-04

Matrix : Water

Sample Date :10/22/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	10/27/08 15:08
<b>TPH as Gasoline</b>	<b>77</b>	50	ug/L	10/27/08 15:08
Dichlorodifluoromethane	< 0.50	0.50	ug/L	10/27/08 15:08
Chloromethane	< 0.50	0.50	ug/L	10/27/08 15:08
Vinyl Chloride	< 0.50	0.50	ug/L	10/27/08 15:08
Bromomethane	< 20	20	ug/L	10/27/08 15:08
Chloroethane	< 0.50	0.50	ug/L	10/27/08 15:08
Trichlorofluoromethane	< 0.50	0.50	ug/L	10/27/08 15:08
1,1-Dichloroethene	< 0.50	0.50	ug/L	10/27/08 15:08
Methylene Chloride	< 5.0	5.0	ug/L	10/27/08 15:08
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	10/27/08 15:08
1,1-Dichloroethane	< 0.50	0.50	ug/L	10/27/08 15:08
2,2-Dichloropropane	< 0.50	0.50	ug/L	10/27/08 15:08
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	10/27/08 15:08
Chloroform	< 0.50	0.50	ug/L	10/27/08 15:08
Bromochloromethane	< 0.50	0.50	ug/L	10/27/08 15:08
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	10/27/08 15:08
1,1-Dichloropropene	< 0.50	0.50	ug/L	10/27/08 15:08
1,2-Dichloroethane	< 0.50	0.50	ug/L	10/27/08 15:08
Carbon Tetrachloride	< 0.50	0.50	ug/L	10/27/08 15:08
Benzene	< 0.50	0.50	ug/L	10/27/08 15:08
Trichloroethene	< 0.50	0.50	ug/L	10/27/08 15:08
1,2-Dichloropropane	< 0.50	0.50	ug/L	10/27/08 15:08
Bromodichloromethane	< 0.50	0.50	ug/L	10/27/08 15:08
Dibromomethane	< 0.50	0.50	ug/L	10/27/08 15:08
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	10/27/08 15:08
Toluene	< 0.50	0.50	ug/L	10/27/08 15:08
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	10/27/08 15:08
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	10/27/08 15:08
1,3-Dichloropropane	< 0.50	0.50	ug/L	10/27/08 15:08
<b>Tetrachloroethene</b>	<b>0.62</b>	0.50	ug/L	10/27/08 15:08
Dibromochloromethane	< 0.50	0.50	ug/L	10/27/08 15:08
1,2-Dibromoethane	< 0.50	0.50	ug/L	10/27/08 15:08





Sample : MW-7

Project Name : Former Live Oak Service

Project Number : GP011M

Lab Number : 65516-04

Matrix : Water

Sample Date :10/22/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	10/27/08 15:08
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	10/27/08 15:08
<b>Ethylbenzene</b>	<b>1.1</b>	0.50	ug/L	10/27/08 15:08
P,M-Xylene	< 1.0	1.0	ug/L	10/27/08 15:08
O-Xylene	< 0.50	0.50	ug/L	10/27/08 15:08
Styrene	< 0.50	0.50	ug/L	10/27/08 15:08
Isopropyl benzene	< 0.50	0.50	ug/L	10/27/08 15:08
Bromoform	< 0.50	0.50	ug/L	10/27/08 15:08
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	10/27/08 15:08
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	10/27/08 15:08
n-Propylbenzene	< 0.50	0.50	ug/L	10/27/08 15:08
Bromobenzene	< 0.50	0.50	ug/L	10/27/08 15:08
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	10/27/08 15:08
2+4-Chlorotoluene	< 1.0	1.0	ug/L	10/27/08 15:08
tert-Butylbenzene	< 0.50	0.50	ug/L	10/27/08 15:08
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	10/27/08 15:08
sec-Butylbenzene	< 0.50	0.50	ug/L	10/27/08 15:08
p-Isopropyltoluene	< 0.50	0.50	ug/L	10/27/08 15:08
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	10/27/08 15:08
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	10/27/08 15:08
n-Butylbenzene	< 0.50	0.50	ug/L	10/27/08 15:08
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	10/27/08 15:08
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	10/27/08 15:08
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	10/27/08 15:08
Hexachlorobutadiene	< 0.50	0.50	ug/L	10/27/08 15:08
Naphthalene	< 0.50	0.50	ug/L	10/27/08 15:08
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	10/27/08 15:08
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	10/27/08 15:08
4-Bromofluorobenzene (Surr)	110		% Recovery	10/27/08 15:08
Toluene - d8 (Surr)	101		% Recovery	10/27/08 15:08

Sample : **MW-8**

Project Name : **Former Live Oak Service**

Project Number : **GP011M**

Lab Number : 65516-05

Matrix : Water

Sample Date :10/22/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 1.5	1.5	ug/L	10/28/08 01:03
<b>TPH as Gasoline</b>	<b>6000</b>	150	ug/L	10/28/08 01:03
1,1-Dichloroethene	< 1.5	1.5	ug/L	10/28/08 01:03
trans-1,2-Dichloroethene	< 1.5	1.5	ug/L	10/28/08 01:03
1,1-Dichloroethane	< 1.5	1.5	ug/L	10/28/08 01:03
cis-1,2-Dichloroethene	< 1.5	1.5	ug/L	10/28/08 01:03
Chloroform	< 1.5	1.5	ug/L	10/28/08 01:03
Bromochloromethane	< 1.5	1.5	ug/L	10/28/08 01:03
1,1-Dichloropropene	< 1.5	1.5	ug/L	10/28/08 01:03
Benzene	< 1.5	1.5	ug/L	10/28/08 01:03
Trichloroethene	< 1.5	1.5	ug/L	10/28/08 01:03
1,2-Dichloropropane	< 1.5	1.5	ug/L	10/28/08 01:03
Bromodichloromethane	< 1.5	1.5	ug/L	10/28/08 01:03
Dibromomethane	< 1.5	1.5	ug/L	10/28/08 01:03
cis-1,3-Dichloropropene	< 1.5	1.5	ug/L	10/28/08 01:03
<b>Toluene</b>	<b>4.4</b>	1.5	ug/L	10/28/08 01:03
trans-1,3-Dichloropropene	< 1.5	1.5	ug/L	10/28/08 01:03
1,1,2-Trichloroethane	< 1.5	1.5	ug/L	10/28/08 01:03
1,3-Dichloropropane	< 1.5	1.5	ug/L	10/28/08 01:03
Tetrachloroethene	< 1.5	1.5	ug/L	10/28/08 01:03
Dibromochloromethane	< 1.5	1.5	ug/L	10/28/08 01:03
1,2-Dibromoethane	< 1.5	1.5	ug/L	10/28/08 01:03
Chlorobenzene	< 1.5	1.5	ug/L	10/28/08 01:03
1,1,1,2-Tetrachloroethane	< 1.5	1.5	ug/L	10/28/08 01:03
<b>Ethylbenzene</b>	<b>800</b>	1.5	ug/L	10/28/08 01:03
<b>P,M-Xylene</b>	<b>270</b>	2.5	ug/L	10/28/08 01:03
<b>O-Xylene</b>	<b>1.6</b>	1.5	ug/L	10/28/08 01:03
Styrene	< 1.5	1.5	ug/L	10/28/08 01:03
<b>Isopropyl benzene</b>	<b>60</b>	1.5	ug/L	10/28/08 01:03
Bromoform	< 1.5	1.5	ug/L	10/28/08 01:03
1,1,2,2-Tetrachloroethane	< 1.5	1.5	ug/L	10/28/08 01:03
1,2,3-Trichloropropane	< 1.5	1.5	ug/L	10/28/08 01:03
<b>n-Propylbenzene</b>	<b>150</b>	1.5	ug/L	10/28/08 01:03

Sample : **MW-8**

Project Name : **Former Live Oak Service**

Project Number : **GP011M**

Lab Number : 65516-05

Matrix : Water

Sample Date :10/22/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Bromobenzene	< 1.5	1.5	ug/L	10/28/08 01:03
<b>1,3,5-Trimethylbenzene</b>	<b>12</b>	1.5	ug/L	10/28/08 01:03
2+4-Chlorotoluene	< 2.5	2.5	ug/L	10/28/08 01:03
tert-Butylbenzene	< 1.5	1.5	ug/L	10/28/08 01:03
<b>1,2,4-Trimethylbenzene</b>	<b>93</b>	1.5	ug/L	10/28/08 01:03
<b>sec-Butylbenzene</b>	<b>15</b>	1.5	ug/L	10/28/08 01:03
<b>p-Isopropyltoluene</b>	<b>3.5</b>	1.5	ug/L	10/28/08 01:03
1,3-Dichlorobenzene	< 1.5	1.5	ug/L	10/28/08 01:03
1,4-Dichlorobenzene	< 1.5	1.5	ug/L	10/28/08 01:03
<b>n-Butylbenzene</b>	<b>18</b>	1.5	ug/L	10/28/08 01:03
1,2-Dichlorobenzene	< 1.5	1.5	ug/L	10/28/08 01:03
1,2,4-Trichlorobenzene	< 1.5	1.5	ug/L	10/28/08 01:03
Hexachlorobutadiene	< 1.5	1.5	ug/L	10/28/08 01:03
<b>Naphthalene</b>	<b>240</b>	1.5	ug/L	10/28/08 01:03
1,2,3-Trichlorobenzene	< 1.5	1.5	ug/L	10/28/08 01:03
1,2-Dichloroethane-d4 (Surr)	91.4		% Recovery	10/28/08 01:03
4-Bromofluorobenzene (Surr)	103		% Recovery	10/28/08 01:03
Toluene - d8 (Surr)	95.6		% Recovery	10/28/08 01:03

Sample : MW-6

Project Name : **Former Live Oak Service**

Project Number : **GP011M**

Lab Number : 65516-06

Matrix : Water

Sample Date :10/22/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	10/27/08 15:44
TPH as Gasoline	< 50	50	ug/L	10/27/08 15:44
Dichlorodifluoromethane	< 0.50	0.50	ug/L	10/27/08 15:44
Chloromethane	< 0.50	0.50	ug/L	10/27/08 15:44
Vinyl Chloride	< 0.50	0.50	ug/L	10/27/08 15:44
Bromomethane	< 20	20	ug/L	10/27/08 15:44
Chloroethane	< 0.50	0.50	ug/L	10/27/08 15:44
Trichlorofluoromethane	< 0.50	0.50	ug/L	10/27/08 15:44
1,1-Dichloroethene	< 0.50	0.50	ug/L	10/27/08 15:44
Methylene Chloride	< 5.0	5.0	ug/L	10/27/08 15:44
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	10/27/08 15:44
1,1-Dichloroethane	< 0.50	0.50	ug/L	10/27/08 15:44
2,2-Dichloropropane	< 0.50	0.50	ug/L	10/27/08 15:44
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	10/27/08 15:44
Chloroform	< 0.50	0.50	ug/L	10/27/08 15:44
Bromochloromethane	< 0.50	0.50	ug/L	10/27/08 15:44
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	10/27/08 15:44
1,1-Dichloropropene	< 0.50	0.50	ug/L	10/27/08 15:44
1,2-Dichloroethane	< 0.50	0.50	ug/L	10/27/08 15:44
Carbon Tetrachloride	< 0.50	0.50	ug/L	10/27/08 15:44
Benzene	< 0.50	0.50	ug/L	10/27/08 15:44
Trichloroethene	< 0.50	0.50	ug/L	10/27/08 15:44
1,2-Dichloropropane	< 0.50	0.50	ug/L	10/27/08 15:44
Bromodichloromethane	< 0.50	0.50	ug/L	10/27/08 15:44
Dibromomethane	< 0.50	0.50	ug/L	10/27/08 15:44
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	10/27/08 15:44
Toluene	< 0.50	0.50	ug/L	10/27/08 15:44
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	10/27/08 15:44
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	10/27/08 15:44
1,3-Dichloropropane	< 0.50	0.50	ug/L	10/27/08 15:44
Tetrachloroethene	< 0.50	0.50	ug/L	10/27/08 15:44
Dibromochloromethane	< 0.50	0.50	ug/L	10/27/08 15:44
1,2-Dibromoethane	< 0.50	0.50	ug/L	10/27/08 15:44



Report Number : 65516

Date : 04/30/2012

Sample : MW-6

Project Name : Former Live Oak Service

Project Number : GP011M

Lab Number : 65516-06

Matrix : Water

Sample Date :10/22/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	10/27/08 15:44
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	10/27/08 15:44
Ethylbenzene	< 0.50	0.50	ug/L	10/27/08 15:44
P,M-Xylene	< 1.0	1.0	ug/L	10/27/08 15:44
O-Xylene	< 0.50	0.50	ug/L	10/27/08 15:44
Styrene	< 0.50	0.50	ug/L	10/27/08 15:44
Isopropyl benzene	< 0.50	0.50	ug/L	10/27/08 15:44
Bromoform	< 0.50	0.50	ug/L	10/27/08 15:44
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	10/27/08 15:44
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	10/27/08 15:44
n-Propylbenzene	< 0.50	0.50	ug/L	10/27/08 15:44
Bromobenzene	< 0.50	0.50	ug/L	10/27/08 15:44
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	10/27/08 15:44
2+4-Chlorotoluene	< 1.0	1.0	ug/L	10/27/08 15:44
tert-Butylbenzene	< 0.50	0.50	ug/L	10/27/08 15:44
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	10/27/08 15:44
sec-Butylbenzene	< 0.50	0.50	ug/L	10/27/08 15:44
p-Isopropyltoluene	< 0.50	0.50	ug/L	10/27/08 15:44
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	10/27/08 15:44
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	10/27/08 15:44
n-Butylbenzene	< 0.50	0.50	ug/L	10/27/08 15:44
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	10/27/08 15:44
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	10/27/08 15:44
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	10/27/08 15:44
Hexachlorobutadiene	< 0.50	0.50	ug/L	10/27/08 15:44
Naphthalene	< 0.50	0.50	ug/L	10/27/08 15:44
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	10/27/08 15:44
1,2-Dichloroethane-d4 (Surr)	99.3		% Recovery	10/27/08 15:44
4-Bromofluorobenzene (Surr)	109		% Recovery	10/27/08 15:44
Toluene - d8 (Surr)	101		% Recovery	10/27/08 15:44



Sample : MW-5

Project Name : Former Live Oak Service

Project Number : GP011M

Lab Number : 65516-07

Matrix : Water

Sample Date :10/22/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	10/27/08 16:19
<b>TPH as Gasoline</b>	<b>62</b>	50	ug/L	10/27/08 16:19
(Note: Primarily compounds not found in typical Gasoline)				
Dichlorodifluoromethane	< 0.50	0.50	ug/L	10/27/08 16:19
Chloromethane	< 0.50	0.50	ug/L	10/27/08 16:19
Vinyl Chloride	< 0.50	0.50	ug/L	10/27/08 16:19
Bromomethane	< 20	20	ug/L	10/27/08 16:19
Chloroethane	< 0.50	0.50	ug/L	10/27/08 16:19
Trichlorofluoromethane	< 0.50	0.50	ug/L	10/27/08 16:19
1,1-Dichloroethene	< 0.50	0.50	ug/L	10/27/08 16:19
Methylene Chloride	< 5.0	5.0	ug/L	10/27/08 16:19
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	10/27/08 16:19
1,1-Dichloroethane	< 0.50	0.50	ug/L	10/27/08 16:19
2,2-Dichloropropane	< 0.50	0.50	ug/L	10/27/08 16:19
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	10/27/08 16:19
Chloroform	< 0.50	0.50	ug/L	10/27/08 16:19
Bromochloromethane	< 0.50	0.50	ug/L	10/27/08 16:19
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	10/27/08 16:19
1,1-Dichloropropene	< 0.50	0.50	ug/L	10/27/08 16:19
1,2-Dichloroethane	< 0.50	0.50	ug/L	10/27/08 16:19
Carbon Tetrachloride	< 0.50	0.50	ug/L	10/27/08 16:19
Benzene	< 0.50	0.50	ug/L	10/27/08 16:19
Trichloroethene	< 0.50	0.50	ug/L	10/27/08 16:19
1,2-Dichloropropane	< 0.50	0.50	ug/L	10/27/08 16:19
Bromodichloromethane	< 0.50	0.50	ug/L	10/27/08 16:19
Dibromomethane	< 0.50	0.50	ug/L	10/27/08 16:19
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	10/27/08 16:19
Toluene	< 0.50	0.50	ug/L	10/27/08 16:19
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	10/27/08 16:19
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	10/27/08 16:19
1,3-Dichloropropane	< 0.50	0.50	ug/L	10/27/08 16:19
<b>Tetrachloroethene</b>	<b>37</b>	0.50	ug/L	10/27/08 16:19
Dibromochloromethane	< 0.50	0.50	ug/L	10/27/08 16:19



Sample : MW-5

Project Name : Former Live Oak Service

Project Number : GP011M

Lab Number : 65516-07

Matrix : Water

Sample Date :10/22/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
1,2-Dibromoethane	< 0.50	0.50	ug/L	10/27/08 16:19
Chlorobenzene	< 0.50	0.50	ug/L	10/27/08 16:19
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	10/27/08 16:19
Ethylbenzene	< 0.50	0.50	ug/L	10/27/08 16:19
P,M-Xylene	< 1.0	1.0	ug/L	10/27/08 16:19
O-Xylene	< 0.50	0.50	ug/L	10/27/08 16:19
Styrene	< 0.50	0.50	ug/L	10/27/08 16:19
Isopropyl benzene	< 0.50	0.50	ug/L	10/27/08 16:19
Bromoform	< 0.50	0.50	ug/L	10/27/08 16:19
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	10/27/08 16:19
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	10/27/08 16:19
n-Propylbenzene	< 0.50	0.50	ug/L	10/27/08 16:19
Bromobenzene	< 0.50	0.50	ug/L	10/27/08 16:19
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	10/27/08 16:19
2+4-Chlorotoluene	< 1.0	1.0	ug/L	10/27/08 16:19
tert-Butylbenzene	< 0.50	0.50	ug/L	10/27/08 16:19
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	10/27/08 16:19
sec-Butylbenzene	< 0.50	0.50	ug/L	10/27/08 16:19
p-Isopropyltoluene	< 0.50	0.50	ug/L	10/27/08 16:19
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	10/27/08 16:19
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	10/27/08 16:19
n-Butylbenzene	< 0.50	0.50	ug/L	10/27/08 16:19
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	10/27/08 16:19
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	10/27/08 16:19
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	10/27/08 16:19
Hexachlorobutadiene	< 0.50	0.50	ug/L	10/27/08 16:19
Naphthalene	< 0.50	0.50	ug/L	10/27/08 16:19
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	10/27/08 16:19
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	10/27/08 16:19
4-Bromofluorobenzene (Surr)	109		% Recovery	10/27/08 16:19
Toluene - d8 (Surr)	101		% Recovery	10/27/08 16:19

Report Number : 65516  
 Date : 04/30/2012

**QC Report : Method Blank Data**  
**Project Name : Former Live Oak Service**  
**Project Number : GP011M**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	Styrene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	Bromoform	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
Bromomethane	< 20	20	ug/L	EPA 8260B	10/25/2008	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	10/25/2008
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	10/25/2008	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	1,2-Dichloroethane-d4 (Surr)	97.9		%	EPA 8260B	10/25/2008
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	10/25/2008
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008	Toluene - d8 (Surr)	99.2		%	EPA 8260B	10/25/2008
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008						
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008						
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008						
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008						
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008						
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008						
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008						
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008						
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008						
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008						
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008						
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008						
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	10/25/2008						



Report Number : 65516  
 Date : 04/30/2012

**QC Report : Method Blank Data**  
**Project Name : Former Live Oak Service**  
**Project Number : GP011M**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	10/27/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/27/2008	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,2-Dichloroethane-d4 (Surr)	97.0	%		EPA 8260B	10/27/2008
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	4-Bromofluorobenzene (Surr)	99.1	%		EPA 8260B	10/27/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	Toluene - d8 (Surr)	98.3	%		EPA 8260B	10/27/2008
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/27/2008
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	10/27/2008
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	10/27/2008						
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
Styrene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						

Report Number : 65516

Date : 04/30/2012

QC Report : Method Blank Data  
Project Name : Former Live Oak Service  
Project Number : GP011M

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/28/2008	Styrene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	Bromoform	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
Bromomethane	< 20	20	ug/L	EPA 8260B	10/28/2008	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	10/28/2008	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	10/28/2008
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	1,2-Dichloroethane-d4 (Surr)	97.8	%	%	EPA 8260B	10/28/2008
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	4-Bromofluorobenzene (Surr)	98.1	%	%	EPA 8260B	10/28/2008
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008	Toluene - d8 (Surr)	100	%	%	EPA 8260B	10/28/2008
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008						
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008						
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008						
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008						
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008						
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008						
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008						
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008						
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	10/28/2008						
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	10/28/2008						

Report Number : 65516  
 Date : 04/30/2012

**QC Report : Method Blank Data**  
**Project Name : Former Live Oak Service**  
**Project Number : GP011M**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/27/2008	P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	10/27/2008
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	Styrene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Bromomethane	< 20	20	ug/L	EPA 8260B	10/27/2008	Bromoform	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	10/27/2008	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	10/27/2008
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
1,1-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	1,2-Dichloroethane-d4 (Surr)	101	%		EPA 8260B	10/27/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	4-Bromofluorobenzene (Surr)	110	%		EPA 8260B	10/27/2008
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008	Toluene - d8 (Surr)	101	%		EPA 8260B	10/27/2008
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	10/27/2008						

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP011M**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	65516-02	<0.50	40.0	40.0	36.0	35.8	ug/L	EPA 8260B	10/25/08	89.9	89.4	0.652	70-130	25
Methyl-t-butyl ether	65516-02	<0.50	39.5	39.5	35.4	35.7	ug/L	EPA 8260B	10/25/08	89.6	90.5	1.02	70-130	25
Toluene	65516-02	<0.50	39.5	39.5	35.6	35.5	ug/L	EPA 8260B	10/25/08	90.2	89.9	0.263	70-130	25
<b>Benzene</b>	65520-08	590	39.8	39.7	567	557	ug/L	EPA 8260B	10/27/08	<b>0.00</b>	<b>0.00</b>	0.00	70-130	25
Methyl-t-butyl ether	65520-08	<0.50	39.3	39.2	35.0	33.7	ug/L	EPA 8260B	10/27/08	89.2	86.1	3.53	70-130	25
Toluene	65520-08	21	39.2	39.1	53.2	51.7	ug/L	EPA 8260B	10/27/08	81.3	77.7	4.57	70-130	25
Toluene	65520-18	<0.50	39.1	39.5	37.5	37.3	ug/L	EPA 8260B	10/27/08	95.7	94.6	1.18	70-130	25
Toluene	65520-05	42	39.4	39.1	77.1	77.9	ug/L	EPA 8260B	10/28/08	88.4	90.8	2.65	70-130	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP011M**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	65522-02	1.1	40.1	40.1	40.0	39.5	ug/L	EPA 8260B	10/27/08	96.8	95.6	1.22	70-130	25
Methyl-t-butyl ether	65522-02	<0.50	39.6	39.6	39.2	39.1	ug/L	EPA 8260B	10/27/08	99.1	98.8	0.309	70-130	25
Toluene	65522-02	<0.50	39.5	39.5	39.2	38.7	ug/L	EPA 8260B	10/27/08	99.0	97.8	1.20	70-130	25
1,1-Dichloroethane	65516-02	<0.50	39.6	39.6	34.3	34.2	ug/L	EPA 8260B	10/25/08	86.6	86.3	0.309	70-130	25
1,2-Dichloroethane	65516-02	<0.50	39.2	39.2	33.6	33.2	ug/L	EPA 8260B	10/25/08	85.9	84.8	1.37	70-130	25
Chlorobenzene	65516-02	<0.50	40.1	40.1	38.5	38.5	ug/L	EPA 8260B	10/25/08	95.9	96.0	0.0894	70-130	25
1,1-Dichloroethane	65520-08	<0.50	39.4	39.3	32.7	31.6	ug/L	EPA 8260B	10/27/08	83.0	80.3	3.33	70-130	25
1,2-Dichloroethane	65520-08	<0.50	38.9	38.8	33.0	31.5	ug/L	EPA 8260B	10/27/08	84.9	81.1	4.54	70-130	25
Chlorobenzene	65520-08	<0.50	39.9	39.8	36.5	35.6	ug/L	EPA 8260B	10/27/08	91.6	89.4	2.52	70-130	25

Report Number : 65516

Date : 04/30/2012

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP011M**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,1-Dichloroethane	65520-05	<0.50	39.5	39.3	34.8	34.9	ug/L	EPA 8260B	10/28/08	88.1	88.7	0.644	70-130	25
1,2-Dichloroethane	65520-05	<0.50	39.1	38.8	35.6	36.6	ug/L	EPA 8260B	10/28/08	91.1	94.1	3.23	70-130	25
Chlorobenzene	65520-05	<0.50	40.0	39.8	40.4	41.0	ug/L	EPA 8260B	10/28/08	101	103	2.18	70-130	25
1,1-Dichloroethane	65522-02	<0.50	39.7	39.7	37.1	36.6	ug/L	EPA 8260B	10/27/08	93.5	92.2	1.49	70-130	25
1,2-Dichloroethane	65522-02	2.4	39.2	39.2	40.7	40.1	ug/L	EPA 8260B	10/27/08	97.8	96.2	1.61	70-130	25
Chlorobenzene	65522-02	<0.50	40.2	40.2	42.0	41.5	ug/L	EPA 8260B	10/27/08	104	103	1.27	70-130	25

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service**

Project Number : **GP011M**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.1	ug/L	EPA 8260B	10/25/08	91.7	70-130
Methyl-t-butyl ether	39.6	ug/L	EPA 8260B	10/25/08	93.8	70-130
Toluene	39.5	ug/L	EPA 8260B	10/25/08	91.8	70-130
1,1-Dichloroethane	39.7	ug/L	EPA 8260B	10/25/08	88.7	70-130
1,2-Dichloroethane	39.2	ug/L	EPA 8260B	10/25/08	89.0	70-130
Chlorobenzene	40.2	ug/L	EPA 8260B	10/25/08	95.4	70-130
Benzene	40.1	ug/L	EPA 8260B	10/27/08	89.0	70-130
Methyl-t-butyl ether	39.6	ug/L	EPA 8260B	10/27/08	91.8	70-130
Toluene	39.5	ug/L	EPA 8260B	10/27/08	88.2	70-130
1,1-Dichloroethane	39.7	ug/L	EPA 8260B	10/27/08	86.1	70-130
1,2-Dichloroethane	39.2	ug/L	EPA 8260B	10/27/08	87.3	70-130
Chlorobenzene	40.2	ug/L	EPA 8260B	10/27/08	91.6	70-130
Toluene	39.5	ug/L	EPA 8260B	10/27/08	93.2	70-130
Toluene	39.5	ug/L	EPA 8260B	10/28/08	101	70-130
1,1-Dichloroethane	39.7	ug/L	EPA 8260B	10/28/08	86.4	70-130
1,2-Dichloroethane	39.2	ug/L	EPA 8260B	10/28/08	95.6	70-130
Chlorobenzene	40.2	ug/L	EPA 8260B	10/28/08	98.3	70-130

**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service**

Project Number : **GP011M**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	10/27/08	96.7	70-130
Methyl-t-butyl ether	39.6	ug/L	EPA 8260B	10/27/08	101	70-130
Toluene	40.0	ug/L	EPA 8260B	10/27/08	98.4	70-130
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	10/27/08	94.8	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	10/27/08	95.7	70-130
Chlorobenzene	40.0	ug/L	EPA 8260B	10/27/08	102	70-130





2795 2nd Street, Suite 300  
Davis, CA 95618  
Lab: 530.297.4800  
Fax: 530.297.4802

SRG # / Lab No. 65516

Page 1 of 1

Project Contact (Hardcopy or PDF To):

*Arcen G. Velasco*  
Company / Address: *244 Townsend Ave*  
*Clearwater Group Pt. Rich, CA.*  
Phone Number: *510-307-9945*

California EDF Report?  Yes  No

Sampling Company Log Code: CW60

Global ID:

EDF Deliverable To (Email Address):

*510-307-2823*  
*higo@clearwatergroup.com*

Project #: GP011M

P.O. #:

Project Name:

*Former Live Oak Service*

Sampler Print Name:

*Eric V Austin*

Sampler Signature:

*Eric V Austin*

Sample Designation

*MW-1*  
*MW-3*  
*MW-4*  
*MW-7*  
*MW-8*  
*MW-6*  
*MW-5*

Sampling

*10/24/08 11:00*  
*10/24/08 11:45*  
*12:45*  
*13:45*  
*14:45*  
*15:30*  
*16:15*

Date

Time

40 ml VOA

Sleeve

Poly

Glass

Tedlar

HCl

HNO<sub>3</sub>

None

Preservative

Water

Soil

Air

Matrix

Chain-of-Custody Record and Analysis Request

Analysis Request

PLEASE CIRCLE METHOD

- MTBE @ 0.5 ppb (EPA 8260B)
- BTEX (EPA 8260B)
- TPH Gas (EPA 8260B)
- 5 Oxygenates (MTBE, DIBE, ETBE, TAME, TBA) (EPA 8260B)
- 7 Oxygenates (5 oxy + EIOH, MeOH) (EPA 8260B)
- Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)
- Volatile Halocarbons (EPA 8260B)
- Volatile Organics Full List (EPA 8260B)
- Volatile Organics (EPA 524.2 Drinking Water)
- TPH as Diesel (EPA 8015M)
- TPH as Motor Oil (EPA 8015M)
- CAM 17 Metals (EPA 200.7 / 6010)
- 5 Waste Oil Metals (Cd, Cr, Ni, Pb, Zn) (EPA 200.7 / 6010)
- Mercury (EPA 245.1 / 7470 / 7471)
- Total Lead (EPA 200.7 / 6010)
- W.E.T. Lead (STLC)

TAT

- 12 hr
- 24 hr
- 48hr
- 72hr
- 1 wk

For Lab Use Only

01  
02  
03  
04  
05  
06  
07

Remarks:

Time Received by:

Date

Time

Received by:

*Eric V. Austin*

Time Received by:

Date

Time

Received by:

*10/24/08*

Relinquished by:

Date

Time

Received by Laboratory:

*10/11/08*  
*Ally Gentry K&A Analytical*

Temp °C

Initials

Date

Sample Receipt

Therm. ID #

Coolant Present

2.4  
MW  
10/24/08  
1308  
JRC

*10/11/08*  
*Ally Gentry K&A Analytical*

Date

Time

Received by:

*10/24/08*

## Laboratory Results

Forrest Cook  
A+ Environmental Solutions, LLC  
6898 Soquel Avenue  
Santa Cruz, CA 95062

Subject : 4 Water Samples  
Project Name : Former Live Oak Service  
Project Number : GP011M

Dear Mr. Cook,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC and TNI 2009 standards. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Troy Turpen

Subject : 4 Water Samples  
Project Name : Former Live Oak Service  
Project Number : GP011M

## Case Narrative

A version of this report was previously issued on 05/01/08. This revised version replaces that report.

Analytical testing associated with these samples was conducted under laboratory quality guidelines in place at the time.

Sample : MW-3

Project Name : Former Live Oak Service

Project Number : GP011M

Lab Number : 62385-01

Matrix : Water

Sample Date :04/24/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	04/28/08 12:09
<b>TPH as Gasoline</b>	<b>240</b>	50	ug/L	04/28/08 12:09
Dichlorodifluoromethane	< 0.50	0.50	ug/L	04/28/08 12:09
Trichlorofluoromethane	< 0.50	0.50	ug/L	04/28/08 12:09
1,1-Dichloroethene	< 0.50	0.50	ug/L	04/28/08 12:09
Methylene Chloride	< 5.0	5.0	ug/L	04/28/08 12:09
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	04/28/08 12:09
1,1-Dichloroethane	< 0.50	0.50	ug/L	04/28/08 12:09
2,2-Dichloropropane	< 0.50	0.50	ug/L	04/28/08 12:09
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	04/28/08 12:09
Chloroform	< 0.50	0.50	ug/L	04/28/08 12:09
Bromochloromethane	< 0.50	0.50	ug/L	04/28/08 12:09
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	04/28/08 12:09
1,1-Dichloropropene	< 0.50	0.50	ug/L	04/28/08 12:09
1,2-Dichloroethane	< 0.50	0.50	ug/L	04/28/08 12:09
Carbon Tetrachloride	< 0.50	0.50	ug/L	04/28/08 12:09
Benzene	< 0.50	0.50	ug/L	04/28/08 12:09
Trichloroethene	< 0.50	0.50	ug/L	04/28/08 12:09
1,2-Dichloropropane	< 0.50	0.50	ug/L	04/28/08 12:09
Bromodichloromethane	< 0.50	0.50	ug/L	04/28/08 12:09
Dibromomethane	< 0.50	0.50	ug/L	04/28/08 12:09
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	04/28/08 12:09
Toluene	< 0.50	0.50	ug/L	04/28/08 12:09
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	04/28/08 12:09
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	04/28/08 12:09
1,3-Dichloropropane	< 0.50	0.50	ug/L	04/28/08 12:09
<b>Tetrachloroethene</b>	<b>0.64</b>	0.50	ug/L	04/28/08 12:09
Dibromochloromethane	< 0.50	0.50	ug/L	04/28/08 12:09
1,2-Dibromoethane	< 0.50	0.50	ug/L	04/28/08 12:09
Chlorobenzene	< 0.50	0.50	ug/L	04/28/08 12:09
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	04/28/08 12:09
<b>Ethylbenzene</b>	<b>17</b>	0.50	ug/L	04/28/08 12:09
<b>P,M-Xylene</b>	<b>37</b>	1.0	ug/L	04/28/08 12:09

Sample : **MW-3**

Project Name : **Former Live Oak Service**

Project Number : **GP011M**

Lab Number : 62385-01

Matrix : Water

Sample Date :04/24/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
<b>O-Xylene</b>	<b>14</b>	0.50	ug/L	04/28/08 12:09
Styrene	< 0.50	0.50	ug/L	04/28/08 12:09
<b>Isopropyl benzene</b>	<b>1.5</b>	0.50	ug/L	04/28/08 12:09
Bromoform	< 0.50	0.50	ug/L	04/28/08 12:09
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	04/28/08 12:09
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	04/28/08 12:09
<b>n-Propylbenzene</b>	<b>3.9</b>	0.50	ug/L	04/28/08 12:09
Bromobenzene	< 0.50	0.50	ug/L	04/28/08 12:09
<b>1,3,5-Trimethylbenzene</b>	<b>1.1</b>	0.50	ug/L	04/28/08 12:09
2+4-Chlorotoluene	< 1.0	1.0	ug/L	04/28/08 12:09
tert-Butylbenzene	< 0.50	0.50	ug/L	04/28/08 12:09
<b>1,2,4-Trimethylbenzene</b>	<b>0.54</b>	0.50	ug/L	04/28/08 12:09
sec-Butylbenzene	< 0.50	0.50	ug/L	04/28/08 12:09
p-Isopropyltoluene	< 0.50	0.50	ug/L	04/28/08 12:09
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	04/28/08 12:09
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	04/28/08 12:09
n-Butylbenzene	< 0.50	0.50	ug/L	04/28/08 12:09
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	04/28/08 12:09
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	04/28/08 12:09
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	04/28/08 12:09
Hexachlorobutadiene	< 0.50	0.50	ug/L	04/28/08 12:09
Naphthalene	< 0.50	0.50	ug/L	04/28/08 12:09
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	04/28/08 12:09
1,2-Dichloroethane-d4 (Surr)	107		% Recovery	04/28/08 12:09
4-Bromofluorobenzene (Surr)	111		% Recovery	04/28/08 12:09
Toluene - d8 (Surr)	101		% Recovery	04/28/08 12:09

Sample : MW-4

Project Name : Former Live Oak Service

Project Number : GP011M

Lab Number : 62385-02

Matrix : Water

Sample Date :04/24/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.90	0.90	ug/L	04/28/08 15:19
<b>TPH as Gasoline</b>	<b>2500</b>	90	ug/L	04/28/08 15:19
Dichlorodifluoromethane	< 0.90	0.90	ug/L	04/28/08 15:19
Chloromethane	< 0.90	0.90	ug/L	04/28/08 15:19
Vinyl Chloride	< 0.90	0.90	ug/L	04/28/08 15:19
Bromomethane	< 20	20	ug/L	04/28/08 15:19
Chloroethane	< 0.90	0.90	ug/L	04/28/08 15:19
Trichlorofluoromethane	< 0.90	0.90	ug/L	04/28/08 15:19
1,1-Dichloroethene	< 0.90	0.90	ug/L	04/28/08 15:19
Methylene Chloride	< 5.0	5.0	ug/L	04/28/08 15:19
trans-1,2-Dichloroethene	< 0.90	0.90	ug/L	04/28/08 15:19
1,1-Dichloroethane	< 0.90	0.90	ug/L	04/28/08 15:19
2,2-Dichloropropane	< 0.90	0.90	ug/L	04/28/08 15:19
cis-1,2-Dichloroethene	< 0.90	0.90	ug/L	04/28/08 15:19
Chloroform	< 0.90	0.90	ug/L	04/28/08 15:19
Bromochloromethane	< 0.90	0.90	ug/L	04/28/08 15:19
1,1,1-Trichloroethane	< 0.90	0.90	ug/L	04/28/08 15:19
1,1-Dichloropropene	< 0.90	0.90	ug/L	04/28/08 15:19
1,2-Dichloroethane	< 0.90	0.90	ug/L	04/28/08 15:19
Carbon Tetrachloride	< 0.90	0.90	ug/L	04/28/08 15:19
Benzene	< 0.90	0.90	ug/L	04/28/08 15:19
Trichloroethene	< 0.90	0.90	ug/L	04/28/08 15:19
1,2-Dichloropropane	< 0.90	0.90	ug/L	04/28/08 15:19
Bromodichloromethane	< 0.90	0.90	ug/L	04/28/08 15:19
Dibromomethane	< 0.90	0.90	ug/L	04/28/08 15:19
cis-1,3-Dichloropropene	< 0.90	0.90	ug/L	04/28/08 15:19
<b>Toluene</b>	<b>2.0</b>	0.90	ug/L	04/28/08 15:19
trans-1,3-Dichloropropene	< 0.90	0.90	ug/L	04/28/08 15:19
1,1,2-Trichloroethane	< 0.90	0.90	ug/L	04/28/08 15:19
1,3-Dichloropropane	< 0.90	0.90	ug/L	04/28/08 15:19
Tetrachloroethene	< 0.90	0.90	ug/L	04/28/08 15:19
Dibromochloromethane	< 0.90	0.90	ug/L	04/28/08 15:19
1,2-Dibromoethane	< 0.90	0.90	ug/L	04/28/08 15:19

Sample : MW-4

Project Name : Former Live Oak Service

Project Number : GP011M

Lab Number : 62385-02

Matrix : Water

Sample Date :04/24/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.90	0.90	ug/L	04/28/08 15:19
1,1,1,2-Tetrachloroethane	< 0.90	0.90	ug/L	04/28/08 15:19
<b>Ethylbenzene</b>	<b>120</b>	0.90	ug/L	04/28/08 15:19
<b>P,M-Xylene</b>	<b>340</b>	2.0	ug/L	04/28/08 15:19
<b>O-Xylene</b>	<b>1.5</b>	0.90	ug/L	04/28/08 15:19
Styrene	< 0.90	0.90	ug/L	04/28/08 15:19
<b>Isopropyl benzene</b>	<b>7.0</b>	0.90	ug/L	04/28/08 15:19
Bromoform	< 0.90	0.90	ug/L	04/28/08 15:19
1,1,2,2-Tetrachloroethane	< 0.90	0.90	ug/L	04/28/08 15:19
1,2,3-Trichloropropane	< 0.90	0.90	ug/L	04/28/08 15:19
<b>n-Propylbenzene</b>	<b>12</b>	0.90	ug/L	04/28/08 15:19
Bromobenzene	< 0.90	0.90	ug/L	04/28/08 15:19
<b>1,3,5-Trimethylbenzene</b>	<b>39</b>	0.90	ug/L	04/28/08 15:19
2+4-Chlorotoluene	< 2.0	2.0	ug/L	04/28/08 15:19
tert-Butylbenzene	< 0.90	0.90	ug/L	04/28/08 15:19
<b>1,2,4-Trimethylbenzene</b>	<b>130</b>	0.90	ug/L	04/28/08 15:19
<b>sec-Butylbenzene</b>	<b>1.3</b>	0.90	ug/L	04/28/08 15:19
<b>p-Isopropyltoluene</b>	<b>1.1</b>	0.90	ug/L	04/28/08 15:19
1,3-Dichlorobenzene	< 0.90	0.90	ug/L	04/28/08 15:19
1,4-Dichlorobenzene	< 0.90	0.90	ug/L	04/28/08 15:19
<b>n-Butylbenzene</b>	<b>2.1</b>	0.90	ug/L	04/28/08 15:19
1,2-Dichlorobenzene	< 0.90	0.90	ug/L	04/28/08 15:19
1,2-Dibromo-3-chloropropane	< 0.90	0.90	ug/L	04/28/08 15:19
1,2,4-Trichlorobenzene	< 0.90	0.90	ug/L	04/28/08 15:19
Hexachlorobutadiene	< 0.90	0.90	ug/L	04/28/08 15:19
<b>Naphthalene</b>	<b>120</b>	0.90	ug/L	04/28/08 15:19
1,2,3-Trichlorobenzene	< 0.90	0.90	ug/L	04/28/08 15:19
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	04/28/08 15:19
4-Bromofluorobenzene (Surr)	97.1		% Recovery	04/28/08 15:19
Toluene - d8 (Surr)	101		% Recovery	04/28/08 15:19

Sample : MW-7

Project Name : Former Live Oak Service

Project Number : GP011M

Lab Number : 62385-03

Matrix : Water

Sample Date :04/24/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	04/28/08 10:18
TPH as Gasoline	< 50	50	ug/L	04/28/08 10:18
Dichlorodifluoromethane	< 0.50	0.50	ug/L	04/28/08 10:18
Chloromethane	< 0.50	0.50	ug/L	04/28/08 10:18
Vinyl Chloride	< 0.50	0.50	ug/L	04/28/08 10:18
Bromomethane	< 20	20	ug/L	04/28/08 10:18
Chloroethane	< 0.50	0.50	ug/L	04/28/08 10:18
Trichlorofluoromethane	< 0.50	0.50	ug/L	04/28/08 10:18
1,1-Dichloroethene	< 0.50	0.50	ug/L	04/28/08 10:18
Methylene Chloride	< 5.0	5.0	ug/L	04/28/08 10:18
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	04/28/08 10:18
1,1-Dichloroethane	< 0.50	0.50	ug/L	04/28/08 10:18
2,2-Dichloropropane	< 0.50	0.50	ug/L	04/28/08 10:18
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	04/28/08 10:18
Chloroform	< 0.50	0.50	ug/L	04/28/08 10:18
Bromochloromethane	< 0.50	0.50	ug/L	04/28/08 10:18
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	04/28/08 10:18
1,1-Dichloropropene	< 0.50	0.50	ug/L	04/28/08 10:18
1,2-Dichloroethane	< 0.50	0.50	ug/L	04/28/08 10:18
Carbon Tetrachloride	< 0.50	0.50	ug/L	04/28/08 10:18
Benzene	< 0.50	0.50	ug/L	04/28/08 10:18
Trichloroethene	< 0.50	0.50	ug/L	04/28/08 10:18
1,2-Dichloropropane	< 0.50	0.50	ug/L	04/28/08 10:18
Bromodichloromethane	< 0.50	0.50	ug/L	04/28/08 10:18
Dibromomethane	< 0.50	0.50	ug/L	04/28/08 10:18
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	04/28/08 10:18
Toluene	< 0.50	0.50	ug/L	04/28/08 10:18
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	04/28/08 10:18
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	04/28/08 10:18
1,3-Dichloropropane	< 0.50	0.50	ug/L	04/28/08 10:18
<b>Tetrachloroethene</b>	<b>1.0</b>	0.50	ug/L	04/28/08 10:18
Dibromochloromethane	< 0.50	0.50	ug/L	04/28/08 10:18
1,2-Dibromoethane	< 0.50	0.50	ug/L	04/28/08 10:18



Sample : MW-7

Project Name : Former Live Oak Service

Project Number : GP011M

Lab Number : 62385-03

Matrix : Water

Sample Date :04/24/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Chlorobenzene	< 0.50	0.50	ug/L	04/28/08 10:18
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	04/28/08 10:18
Ethylbenzene	< 0.50	0.50	ug/L	04/28/08 10:18
P,M-Xylene	< 1.0	1.0	ug/L	04/28/08 10:18
O-Xylene	< 0.50	0.50	ug/L	04/28/08 10:18
Styrene	< 0.50	0.50	ug/L	04/28/08 10:18
Isopropyl benzene	< 0.50	0.50	ug/L	04/28/08 10:18
Bromoform	< 0.50	0.50	ug/L	04/28/08 10:18
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	04/28/08 10:18
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	04/28/08 10:18
n-Propylbenzene	< 0.50	0.50	ug/L	04/28/08 10:18
Bromobenzene	< 0.50	0.50	ug/L	04/28/08 10:18
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	04/28/08 10:18
2+4-Chlorotoluene	< 1.0	1.0	ug/L	04/28/08 10:18
tert-Butylbenzene	< 0.50	0.50	ug/L	04/28/08 10:18
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	04/28/08 10:18
sec-Butylbenzene	< 0.50	0.50	ug/L	04/28/08 10:18
p-Isopropyltoluene	< 0.50	0.50	ug/L	04/28/08 10:18
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	04/28/08 10:18
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	04/28/08 10:18
n-Butylbenzene	< 0.50	0.50	ug/L	04/28/08 10:18
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	04/28/08 10:18
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	04/28/08 10:18
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	04/28/08 10:18
Hexachlorobutadiene	< 0.50	0.50	ug/L	04/28/08 10:18
Naphthalene	< 0.50	0.50	ug/L	04/28/08 10:18
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	04/28/08 10:18
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	04/28/08 10:18
4-Bromofluorobenzene (Surr)	104		% Recovery	04/28/08 10:18
Toluene - d8 (Surr)	97.0		% Recovery	04/28/08 10:18

Sample : **MW-8**

Project Name : **Former Live Oak Service**

Project Number : **GP011M**

Lab Number : 62385-04

Matrix : Water

Sample Date :04/24/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 1.5	1.5	ug/L	04/28/08 15:21
<b>TPH as Gasoline</b>	<b>4600</b>	150	ug/L	04/28/08 15:21
Dichlorodifluoromethane	< 1.5	1.5	ug/L	04/28/08 15:21
Trichlorofluoromethane	< 1.5	1.5	ug/L	04/28/08 15:21
1,1-Dichloroethene	< 1.5	1.5	ug/L	04/28/08 15:21
Methylene Chloride	< 5.0	5.0	ug/L	04/28/08 15:21
trans-1,2-Dichloroethene	< 1.5	1.5	ug/L	04/28/08 15:21
1,1-Dichloroethane	< 1.5	1.5	ug/L	04/28/08 15:21
2,2-Dichloropropane	< 1.5	1.5	ug/L	04/28/08 15:21
cis-1,2-Dichloroethene	< 1.5	1.5	ug/L	04/28/08 15:21
Chloroform	< 1.5	1.5	ug/L	04/28/08 15:21
Bromochloromethane	< 1.5	1.5	ug/L	04/28/08 15:21
1,1,1-Trichloroethane	< 1.5	1.5	ug/L	04/28/08 15:21
1,1-Dichloropropene	< 1.5	1.5	ug/L	04/28/08 15:21
1,2-Dichloroethane	< 1.5	1.5	ug/L	04/28/08 15:21
Carbon Tetrachloride	< 1.5	1.5	ug/L	04/28/08 15:21
Benzene	< 1.5	1.5	ug/L	04/28/08 15:21
Trichloroethene	< 1.5	1.5	ug/L	04/28/08 15:21
1,2-Dichloropropane	< 1.5	1.5	ug/L	04/28/08 15:21
Bromodichloromethane	< 1.5	1.5	ug/L	04/28/08 15:21
Dibromomethane	< 1.5	1.5	ug/L	04/28/08 15:21
cis-1,3-Dichloropropene	< 1.5	1.5	ug/L	04/28/08 15:21
<b>Toluene</b>	<b>3.7</b>	1.5	ug/L	04/28/08 15:21
trans-1,3-Dichloropropene	< 1.5	1.5	ug/L	04/28/08 15:21
1,1,2-Trichloroethane	< 1.5	1.5	ug/L	04/28/08 15:21
1,3-Dichloropropane	< 1.5	1.5	ug/L	04/28/08 15:21
Tetrachloroethene	< 1.5	1.5	ug/L	04/28/08 15:21
Dibromochloromethane	< 1.5	1.5	ug/L	04/28/08 15:21
1,2-Dibromoethane	< 1.5	1.5	ug/L	04/28/08 15:21
Chlorobenzene	< 1.5	1.5	ug/L	04/28/08 15:21
1,1,1,2-Tetrachloroethane	< 1.5	1.5	ug/L	04/28/08 15:21
<b>Ethylbenzene</b>	<b>590</b>	1.5	ug/L	04/28/08 15:21
<b>P,M-Xylene</b>	<b>240</b>	2.5	ug/L	04/28/08 15:21

Sample : MW-8

Project Name : Former Live Oak Service

Project Number : GP011M

Lab Number : 62385-04

Matrix : Water

Sample Date :04/24/2008

Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
O-Xylene	< 1.5	1.5	ug/L	04/28/08 15:21
Styrene	< 1.5	1.5	ug/L	04/28/08 15:21
<b>Isopropyl benzene</b>	<b>37</b>	1.5	ug/L	04/28/08 15:21
Bromoform	< 1.5	1.5	ug/L	04/28/08 15:21
1,1,2,2-Tetrachloroethane	< 1.5	1.5	ug/L	04/28/08 15:21
1,2,3-Trichloropropane	< 1.5	1.5	ug/L	04/28/08 15:21
<b>n-Propylbenzene</b>	<b>94</b>	1.5	ug/L	04/28/08 15:21
Bromobenzene	< 1.5	1.5	ug/L	04/28/08 15:21
<b>1,3,5-Trimethylbenzene</b>	<b>8.0</b>	1.5	ug/L	04/28/08 15:21
2+4-Chlorotoluene	< 2.5	2.5	ug/L	04/28/08 15:21
tert-Butylbenzene	< 1.5	1.5	ug/L	04/28/08 15:21
<b>1,2,4-Trimethylbenzene</b>	<b>140</b>	1.5	ug/L	04/28/08 15:21
<b>sec-Butylbenzene</b>	<b>7.9</b>	1.5	ug/L	04/28/08 15:21
<b>p-Isopropyltoluene</b>	<b>2.6</b>	1.5	ug/L	04/28/08 15:21
1,3-Dichlorobenzene	< 1.5	1.5	ug/L	04/28/08 15:21
1,4-Dichlorobenzene	< 1.5	1.5	ug/L	04/28/08 15:21
<b>n-Butylbenzene</b>	<b>11</b>	1.5	ug/L	04/28/08 15:21
1,2-Dichlorobenzene	< 1.5	1.5	ug/L	04/28/08 15:21
1,2-Dibromo-3-chloropropane	< 1.5	1.5	ug/L	04/28/08 15:21
1,2,4-Trichlorobenzene	< 1.5	1.5	ug/L	04/28/08 15:21
Hexachlorobutadiene	< 1.5	1.5	ug/L	04/28/08 15:21
<b>Naphthalene</b>	<b>180</b>	1.5	ug/L	04/28/08 15:21
1,2,3-Trichlorobenzene	< 1.5	1.5	ug/L	04/28/08 15:21
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	04/28/08 15:21
4-Bromofluorobenzene (Surr)	108		% Recovery	04/28/08 15:21
Toluene - d8 (Surr)	103		% Recovery	04/28/08 15:21

Report Number : 62385  
 Date : 04/30/2012

**QC Report : Method Blank Data**  
**Project Name : Former Live Oak Service**  
**Project Number : GP011M**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	04/28/2008	Bromoform	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	04/28/2008	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	04/28/2008
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,1-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,2-Dichloroethane-d4 (Surr)	110		%	EPA 8260B	04/28/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	4-Bromofluorobenzene (Surr)	110		%	EPA 8260B	04/28/2008
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	Toluene - d8 (Surr)	102		%	EPA 8260B	04/28/2008
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008						
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008						
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008						
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008						
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008						
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008						
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008						
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008						
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	04/28/2008						
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008						
Styrene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008						

Report Number : 62385

Date : 04/30/2012

QC Report : Method Blank Data  
Project Name : Former Live Oak Service  
Project Number : GP011M

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	04/28/2008
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	04/28/2008
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	04/28/2008
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Styrene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	04/28/2008
tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Bromomethane	< 20	20	ug/L	EPA 8260B	04/28/2008
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008

Report Number : 62385  
Date : 04/30/2012

**QC Report : Method Blank Data**  
**Project Name : Former Live Oak Service**  
**Project Number : GP011M**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	04/28/2008	Bromoform	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	04/28/2008	Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	04/28/2008
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Benzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
Toluene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	Bromomethane	< 20	20	ug/L	EPA 8260B	04/28/2008
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	1,2-Dichloroethane-d4 (Surr)	100	%	%	EPA 8260B	04/28/2008
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	4-Bromofluorobenzene (Surr)	98.8	%	%	EPA 8260B	04/28/2008
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008	Toluene - d8 (Surr)	101	%	%	EPA 8260B	04/28/2008
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008						
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008						
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008						
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008						
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	04/28/2008						
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008						
Styrene	< 0.50	0.50	ug/L	EPA 8260B	04/28/2008						

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP011M**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	62349-08	<0.50	40.2	40.2	41.0	39.2	ug/L	EPA 8260B	4/28/08	102	97.7	4.38	70-130	25
Methyl-t-butyl ether	62349-08	<0.50	40.5	40.5	39.4	38.2	ug/L	EPA 8260B	4/28/08	97.2	94.3	3.00	70-130	25
Toluene	62349-08	<0.50	40.0	40.0	41.5	40.4	ug/L	EPA 8260B	4/28/08	104	101	2.85	70-130	25
Benzene	62385-03	<0.50	40.2	40.2	41.1	41.1	ug/L	EPA 8260B	4/28/08	102	102	0.0488	70-130	25
Methyl-t-butyl ether	62385-03	<0.50	40.5	40.5	35.7	36.2	ug/L	EPA 8260B	4/28/08	88.1	89.4	1.45	70-130	25
Toluene	62385-03	<0.50	40.0	40.0	39.1	39.2	ug/L	EPA 8260B	4/28/08	97.7	98.0	0.309	70-130	25
Benzene	62341-01	<0.50	40.2	40.2	41.2	40.3	ug/L	EPA 8260B	4/28/08	103	100	2.38	70-130	25
Methyl-t-butyl ether	62341-01	<0.50	40.5	40.5	42.5	41.8	ug/L	EPA 8260B	4/28/08	105	103	1.64	70-130	25
Toluene	62341-01	<0.50	40.0	40.0	43.4	41.9	ug/L	EPA 8260B	4/28/08	108	105	3.37	70-130	25

**QC Report : Matrix Spike/ Matrix Spike Duplicate**

Project Name : **Former Live Oak Service**

Project Number : **GP011M**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,1-Dichloroethane	62349-08	<0.50	40.2	40.2	44.3	40.8	ug/L	EPA 8260B	4/28/08	110	102	8.24	70-130	25
1,2-Dichloroethane	62349-08	<0.50	40.0	40.0	51.4	50.0	ug/L	EPA 8260B	4/28/08	128	125	2.76	70-130	25
Chlorobenzene	62349-08	<0.50	40.1	40.1	42.8	41.7	ug/L	EPA 8260B	4/28/08	107	104	2.73	70-130	25
1,1-Dichloroethane	62385-03	<0.50	40.2	40.2	41.3	41.8	ug/L	EPA 8260B	4/28/08	103	104	1.28	70-130	25
1,2-Dichloroethane	62385-03	<0.50	40.0	40.0	36.8	37.0	ug/L	EPA 8260B	4/28/08	91.9	92.5	0.690	70-130	25
Chlorobenzene	62385-03	<0.50	40.1	40.1	42.2	42.1	ug/L	EPA 8260B	4/28/08	105	105	0.0422	70-130	25
1,1-Dichloroethane	62341-01	<0.50	40.2	40.2	43.5	41.9	ug/L	EPA 8260B	4/28/08	108	104	3.74	70-130	25
1,2-Dichloroethane	62341-01	<0.50	40.0	40.0	47.4	45.7	ug/L	EPA 8260B	4/28/08	118	114	3.62	70-130	25
Chlorobenzene	62341-01	<0.50	40.1	40.1	41.5	40.3	ug/L	EPA 8260B	4/28/08	103	100	3.00	70-130	25



**QC Report : Laboratory Control Sample (LCS)**

Project Name : **Former Live Oak Service**

Project Number : **GP011M**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	4/28/08	102	70-130
Methyl-t-butyl ether	40.5	ug/L	EPA 8260B	4/28/08	97.6	70-130
Toluene	40.0	ug/L	EPA 8260B	4/28/08	107	70-130
1,1-Dichloroethane	40.0	ug/L	EPA 8260B	4/28/08	103	70-130
1,2-Dichloroethane	40.0	ug/L	EPA 8260B	4/28/08	128	70-130
Chlorobenzene	40.0	ug/L	EPA 8260B	4/28/08	106	70-130
Benzene	40.1	ug/L	EPA 8260B	4/28/08	104	70-130
Methyl-t-butyl ether	40.6	ug/L	EPA 8260B	4/28/08	95.8	70-130
Toluene	40.1	ug/L	EPA 8260B	4/28/08	99.3	70-130
1,1-Dichloroethane	40.1	ug/L	EPA 8260B	4/28/08	103	70-130
1,2-Dichloroethane	40.1	ug/L	EPA 8260B	4/28/08	91.3	70-130
Chlorobenzene	40.1	ug/L	EPA 8260B	4/28/08	103	70-130
Benzene	39.8	ug/L	EPA 8260B	4/28/08	105	70-130
Methyl-t-butyl ether	40.3	ug/L	EPA 8260B	4/28/08	107	70-130
Toluene	39.8	ug/L	EPA 8260B	4/28/08	106	70-130
1,1-Dichloroethane	39.8	ug/L	EPA 8260B	4/28/08	107	70-130
1,2-Dichloroethane	39.8	ug/L	EPA 8260B	4/28/08	117	70-130
Chlorobenzene	39.8	ug/L	EPA 8260B	4/28/08	102	70-130



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62385

SRG # / Lab No.

Page 1 of 1

Project Contact (Hardcopy or PDF To):

*Eric K. Levin*

Company Address: 2277 Technology Ave,  
Charmelle Group St. Richmond, CA.

Phone #: 510-307-9943  
Fax #: 510-232-2823  
P.O. #:

Project #: GP011M

Project Name:

Former Live Oak Service

Project Address:

1671 Capitola Rd.  
San Juan Cruz, CA.

California EDF Report?  Yes  No

Sampling Company Log Code:

*CW60*

Global ID:

EDF Deliverable To (Email Address):

*Eric K. Levin@clearwatergroup.com*

Sampler Signature:

*Eric K. Levin*

Chain-of-Custody Record and Analysis Request

Analysis Request

Sample Designation	Date	Time	Container				Preservative			Matrix			TAT		
			40 ml VOA	Sleeve	Poly	Glass	Tedlar	HCl	HNO <sub>3</sub>	None	Water	Soil		Air	
MW-3	4-24-08	11:30	3					X						X	1WK
MW-4		11:45													
MW-5		12:00													
MW-8		12:15													

MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb  
3 3 3  
BTEX (EPA 8260B)  
3 3 3  
TPH Gas (EPA 8260B)  
5 Oxygenates (EPA 8260B)  
7 Oxygenates (EPA 8260B)  
Lead Scav.(1,2 DCA & 1,2 EDB-EPA 8260B)  
Volatile Halocarbons (EPA 8260B)  
Volatile Organics Full List (EPA 8260B)  
Volatile Organics (EPA 524,2 Drinking Water)  
TPH as Diesel (EPA 8015M)  
TPH as Motor Oil (EPA 8015M)  
Total Lead (EPA 6010)  
W.E.T. Lead (STLC)

Relinquished by:

*Eric V. Austin*

Date

4/24/08 17:30

Time Received by:

*[Signature]*

Relinquished by:

Date

Time

Received by:

*[Signature]*

Relinquished by:

*[Signature]*

Date

04/25/08

Time Received by Laboratory:

1417 *[Signature]* Kiff Analytical

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
3.8	LOR	04/25/08	1839	TR-1	Yes



1671 Capitola Road, Santa Cruz, California 95062

**APPENDIX D**

**SUMMARY OF HISTORICAL SOIL ANALYTICAL DATA TABLES**

**Table 3**  
**Cumulative Soil Sample Analytical Results**  
Former Live Oak Service Station  
1671 Capitola Road  
Santa Cruz, California  
Clearwater Group Project No. GP011

Sample Type	Well Number/ Sample Number <sup>P</sup>	Sample Location		Sample Depth (feet)	Sample Date	TPH-g (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Total Xylenes (mg/kg)	Oil and grease (mg/kg)	TPH-d (mg/kg)	MTBE (mg/kg)	TRPH (mg/kg)
Proposed Environmental Screening Levels (ESLs) <sup>D, E</sup>						83	0.044	2.9	3.3	2.3	NE	83	0.023	NE
UST Removal Samples (*1)		Regulator Notation	Site Map Notation											
	1	1A	North end of Tank 1	10/12.5 <sup>L</sup>	02/23/1990	250	1.4	7.3	4.9	27	--	--	--	--
	2	1B	South end of Tank 1	10/12.5 <sup>L</sup>	02/23/1990	30	0.32	0.55	<0.4	2	--	--	--	--
	3	2A	North end of Tank 2	10/12.5 <sup>L</sup>	02/23/1990	4.2	<0.1	<0.1	<0.2	<0.6	--	--	--	--
	4	2B	South end of Tank 2	10/12.5 <sup>L</sup>	02/23/1990	68	0.14	0.32	0.4	2	--	--	--	--
	5	3A	North end of Tank 3	10/12.5 <sup>L</sup>	02/23/1990	16	0.31	1.9	0.62	3.4	--	--	--	--
	6	3B	South end of Tank 3	10/12.5 <sup>L</sup>	02/23/1990	64	0.35	1.6	1.2	15	--	--	--	--
	7	4A	North end of Tank 4	10/12.5 <sup>L</sup>	02/23/1990	250	<0.1	1.2	3.9	8.7	--	--	--	--
	8	4B	South end of Tank 4	10/12.5 <sup>L</sup>	02/23/1990	3,600	8.2	100	60	320	--	--	--	--
	9	6A	Tank 6 Waste Oil	8/9 <sup>L</sup>	02/23/1990	37	<0.3	<0.4	1	3	480	130	--	--
	10	5A	North end of Tank 5	10/14 <sup>L</sup>	02/23/1990	<0.6	<0.1	<0.1	<0.2	<0.5	--	--	--	--
	11	5B	South end of Tank 5	10/14 <sup>L</sup>	02/23/1990	<0.6	<0.1	<0.1	<0.2	<0.5	--	--	--	--
		Composite of 1,2,3,4	UST Excavation		Composite	02/23/1990	2.2	<0.1	<0.1	<0.2	<0.5	--	--	--
	Composite of 5,6,7	UST Excavation		Composite	02/23/1990	430	0.93	0.79	5.2	44	--	--	--	--

**Table 3**  
**Cumulative Soil Sample Analytical Results**  
Former Live Oak Service Station  
1671 Capitola Road  
Santa Cruz, California  
Clearwater Group Project No. GP011

Sample Type	Well Number/ Sample Number <sup>P</sup>	Sample Location	Sample Depth (feet)	Sample Date	TPH-g (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Total Xylenes (mg/kg)	Oil and grease (mg/kg)	TPH-d (mg/kg)	MTBE (mg/kg)	TRPH (mg/kg)
<b>Proposed Environmental Screening Levels (ESLs)<sup>D, E</sup></b>					<b>83</b>	<b>0.044</b>	<b>2.9</b>	<b>3.3</b>	<b>2.3</b>	<b>NE</b>	<b>83</b>	<b>0.023</b>	<b>NE</b>
<b>UST Excavation Preliminary Samples (*2)</b>	UH-1-9.5' [UH-1]	East wall of UST excavation	6.5 <sup>M</sup>	09/26/1990	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	[UH-2] <sup>R</sup>	East wall of UST excavation	9.5	09/26/1990	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	UH-3-11.1' [UH-3]	Northeast corner of UST excavation	11	09/26/1990	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	<del>UH-4-3.1'</del> [UH-4]	Northeast corner of UST excavation, former waste oil tank area	3	09/26/1990	<5.0	<0.05	<0.05	<0.05	<0.05	--	<10.0	--	--
	UH-5 <sup>G</sup>	**	**	**	**	**	**	**	**	**	**	**	**
<b>UST Excavation Confirmation Samples (*2)</b>	UH-6 <sup>S</sup>	Center floor of UST excavation	19	10/04/1990	20	<b>0.11</b>	0.49	0.17	0.97	--	--	--	--
	UH-7 <sup>S</sup>	Northeast floor of UST excavation	19	10/04/1990	<b>1,200</b>	<0.5 <sup>J</sup>	<b>10</b>	<b>15</b>	<b>80</b>	--	--	--	--
	UH-8 <sup>S</sup>	Southeast floor of UST excavation	19	10/04/1990	<b>460</b>	<0.5 <sup>J</sup>	<b>5.8</b>	<b>5.1</b>	<b>27</b>	--	--	--	--
	UH-9 <sup>S</sup>	Northwest floor of UST excavation	19	10/04/1990	<b>99</b>	<0.25 <sup>K</sup>	<b>3.2</b>	1.9	<b>10</b>	--	--	--	--
	UH-10 <sup>S</sup>	Southwest floor of UST excavation	19	10/04/1990	<b>180</b>	<0.5 <sup>J</sup>	1.5	1.4	<b>6.6</b>	--	--	--	--
	UH-11 <sup>S</sup>	Mid South wall of UST excavation	17	10/04/1990	5.9	<0.05	0.15	0.07	0.36	--	--	--	--
	UH-12 <sup>S</sup>	Mid West wall of UST excavation	17	10/04/1990	28	0.06	0.63	0.41	<b>2.3</b>	--	--	--	--
	UH-13 <sup>S</sup>	Mid East wall of UST excavation	16.5	10/04/1990	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--

**Table 3**  
**Cumulative Soil Sample Analytical Results**  
Former Live Oak Service Station  
1671 Capitola Road  
Santa Cruz, California  
Clearwater Group Project No. GP011

Sample Type	Well Number/ Sample Number <sup>P</sup>	Sample Location	Sample Depth (feet)	Sample Date	TPH-g (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Total Xylenes (mg/kg)	Oil and grease (mg/kg)	TPH-d (mg/kg)	MTBE (mg/kg)	TRPH (mg/kg)
<b>Proposed Environmental Screening Levels (ESLs)<sup>D, E</sup></b>					<b>83</b>	<b>0.044</b>	<b>2.9</b>	<b>3.3</b>	<b>2.3</b>	<b>NE</b>	<b>83</b>	<b>0.023</b>	<b>NE</b>
<b>Soil Investigation (*3)</b>	1 <sup>G</sup>	Converted to VW-2	**	04/05/1991	**	**	**	**	**	**	**	**	**
	2 <sup>G</sup>	**	**	04/05/1991	**	**	**	**	**	**	**	**	**
	3 <sup>G</sup>	**	**	04/05/1991	**	**	**	**	**	**	**	**	**
	4 <sup>G</sup>	Converted to VW-1	**	04/05/1991	**	**	**	**	**	**	**	**	**
	5 <sup>G</sup>	**	**	04/05/1991	**	**	**	**	**	**	**	**	**
	6 <sup>G</sup>	**	**	04/05/1991	**	**	**	**	**	**	**	**	**
	7 <sup>G</sup>	**	**	04/05/1991	**	**	**	**	**	**	**	**	**
<b>Dispenser Excavation Samples (*3)</b>	#1 [#1 Soil]	Center of northwest dispenser island	1.5 to 2	04/21/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	#2 [#2 Soil]	Southeast of northwest dispenser island	1.5 to 2	04/21/1994	190	<0.25	4.2	2.8	21	--	--	--	--
	#3 [#3 Soil]	Southeast of southwest dispenser island	1.5 to 2	04/21/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	#4 [#4 Soil]	Center of southwest dispenser island	1.5 to 2	04/21/1994	120	2.2	9.4	2.4	15	--	--	--	--
	SB-1	Center of southwest dispenser island	4-4.5	05/03/1994	<b>220</b>	<b>3.8</b>	<b>18</b>	<b>4.1</b>	<b>26</b>	--	--	--	--
<b>Soil Stockpile Sampling (*4)</b>	T1	Soil Stockpile	3	04/04/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	T2	Soil Stockpile	2	04/04/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	T3	Soil Stockpile	1.5	04/04/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	T4	Soil Stockpile	3	04/04/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	T5	Soil Stockpile	2	04/04/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	T6	Soil Stockpile	3	04/04/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	COMP-T	Soil Stockpile	Composite	04/04/1994	--	--	--	--	--	--	--	--	29

**Table 3**  
**Cumulative Soil Sample Analytical Results**  
Former Live Oak Service Station  
1671 Capitola Road  
Santa Cruz, California  
Clearwater Group Project No. GP011

Sample Type	Well Number/ Sample Number <sup>P</sup>	Sample Location	Sample Depth (feet)	Sample Date	TPH-g (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Total Xylenes (mg/kg)	Oil and grease (mg/kg)	TPH-d (mg/kg)	MTBE (mg/kg)	TRPH (mg/kg)
<b>Proposed Environmental Screening Levels (ESLs)<sup>D, E</sup></b>					<b>83</b>	<b>0.044</b>	<b>2.9</b>	<b>3.3</b>	<b>2.3</b>	<b>NE</b>	<b>83</b>	<b>0.023</b>	<b>NE</b>
<b>Pump Island Excavation Samples (*4)</b>	PI-1	Pump Island Excavation	**1	06/15/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	PI-2	Pump Island Excavation	**1	06/15/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	PI-3	Pump Island Excavation	**1	06/15/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	PI-4	Pump Island Excavation	**1	06/15/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	PI-5	Pump Island Excavation	**1	06/15/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	PI-6	Pump Island Excavation	**1	06/15/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	PI-7	Pump Island Excavation	**1	06/15/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	PI-8	Pump Island Excavation	**1	06/15/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	PI-9	Pump Island Excavation	**1	06/15/1994	<5.0	<0.05	<0.05	<0.05	0.05	--	--	--	--
	PI-10	Pump Island Excavation	**1	06/15/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	PI-11	Pump Island Excavation	**1	06/15/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	PI-12	Pump Island Excavation	**1	06/15/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
	PI-13	Pump Island Excavation	**1	06/15/1994	<5.0	<0.05	<0.05	<0.05	<0.05	--	--	--	--
<b>Stockpile Samples (*5)</b>	A 1-4	Stockpile		10/19/1994	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--
	B 1-4	Stockpile		10/19/1994	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--
	C 1-4	Stockpile		10/19/1994	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--
	D 1-4	Stockpile		10/19/1994	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--
	E 1-4	Stockpile		10/19/1994	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--
	F 1-4	Stockpile		10/19/1994	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--
	G 1-4	Stockpile		10/19/1994	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--
	H 1-4	Stockpile		10/19/1994	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--

**Table 3**  
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Former Live Oak Service Station  
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Sample Type	Well Number/ Sample Number <sup>P</sup>	Sample Location	Sample Depth (feet)	Sample Date	TPH-g (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Total Xylenes (mg/kg)	Oil and grease (mg/kg)	TPH-d (mg/kg)	MTBE (mg/kg)	TRPH (mg/kg)	
<b>Proposed Environmental Screening Levels (ESLs)<sup>D, E</sup></b>					<b>83</b>	<b>0.044</b>	<b>2.9</b>	<b>3.3</b>	<b>2.3</b>	<b>NE</b>	<b>83</b>	<b>0.023</b>	<b>NE</b>	
<b>Monitoring Wells (*5)</b>	MW-1	NE corner of site	9.5	03/28/1995	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	
			14.5	03/28/1995	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	
			19	03/28/1995	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	
			24	03/28/1995	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--
	MW-2	SE corner of site	9.5	03/28/1995	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--
			14.5	03/28/1995	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--
			19	03/28/1995	17 <sup>B</sup>	<0.005	0.017	0.15	1.3	--	--	--	--	
			24.5	03/28/1995	11 <sup>B</sup>	<0.005	0.011	0.081	0.41	--	--	--	--	
	MW-3	S of dispenser excavation	4.5	03/29/1995	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--
			9.5	03/29/1995	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--
			14.5	03/29/1995	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--
			19.5	03/29/1995	9.7 <sup>B,C</sup>	<0.005	0.033	0.029	0.040	--	--	--	--	
			24	03/29/1995	2.1 <sup>B</sup>	<0.005	<0.005	0.005	0.021	--	--	--	--	



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Sample Type	Well Number/ Sample Number <sup>P</sup>	Sample Location	Sample Depth (feet)	Sample Date	TPH-g (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Total Xylenes (mg/kg)	Oil and grease (mg/kg)	TPH-d (mg/kg)	MTBE (mg/kg)	TRPH (mg/kg)	
<b>Proposed Environmental Screening Levels (ESLs)<sup>D, E</sup></b>					<b>83</b>	<b>0.044</b>	<b>2.9</b>	<b>3.3</b>	<b>2.3</b>	<b>NE</b>	<b>83</b>	<b>0.023</b>	<b>NE</b>	
<b>Soil Borings (*5)</b>	B-1	Between UST and dispenser excavation	4.5	03/28/1995	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	
			9	03/28/1995	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	
			14.5	03/28/1995	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	--	--	--	--
			19.5	03/28/1995	45 <sup>B, C</sup>	0.008	0.071	0.26	1.2	--	--	--	--	
			24.5	03/28/1995	<b>580<sup>B</sup></b>	<0.2	<b>4.7</b>	<b>12</b>	<b>62</b>	--	--	--	--	
	B-2	South of UST excavation	9.5	03/29/1995	<1.0 <sup>B</sup>	<0.005	<0.005	<0.005	0.013	--	--	--	--	
			14.5	03/29/1995	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	
			19	03/29/1995	7.6 <sup>B</sup>	<0.005	0.008	0.027	0.38	--	--	--	--	
			24	03/29/1995	<b>130<sup>B</sup></b>	<0.01	0.093	1.1	<b>3.9</b>	--	--	--	--	
	B-3	Southeast corner of UST excavation	9.5	03/29/1995	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	
			14.5	03/29/1995	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	--	--	
			19.5	03/29/1995	4.2 <sup>B</sup>	<0.005	0.036	0.069	0.018	--	--	--	--	
			24.5	03/29/1995	<b>200<sup>B</sup></b>	<0.005	0.11	1.5	<b>4.3</b>	--	--	--	--	
	B-4	Northeast corner of UST excavation	19	03/29/1995	3.7 <sup>B</sup>	0.005	<0.005	0.037	0.092	--	--	--	--	
			24.5	03/29/1995	1.3 <sup>B</sup>	<0.005	<0.005	0.008	0.040	--	--	--	--	

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Sample Type	Well Number/ Sample Number <sup>P</sup>	Sample Location	Sample Depth (feet)	Sample Date	TPH-g (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Total Xylenes (mg/kg)	Oil and grease (mg/kg)	TPH-d (mg/kg)	MTBE (mg/kg)	TRPH (mg/kg)
<b>Proposed Environmental Screening Levels (ESLs)<sup>D, E</sup></b>					<b>83</b>	<b>0.044</b>	<b>2.9</b>	<b>3.3</b>	<b>2.3</b>	<b>NE</b>	<b>83</b>	<b>0.023</b>	<b>NE</b>
<b>Monitoring Wells (*6)</b>	MW-4 <sup>H</sup>	Northeast corner of Live Oak Supermarket	29.5	01/17/1996	16	0.012	0.053	0.50	<b>2.4</b>	--	--	--	--
			34	01/17/1996	7.0	ND	0.15	1.06	<b>5.0</b>	--	--	--	--
	MW-5 (Drum)	West of Live Oak Supermarket	Composite	12/17/1997	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	<0.05	--
	MW-6 @ 24.5'	Northwest corner of Live Oak School Track	24.5	12/17/1997	<1.0	<0.005	<0.005	<0.005	<0.005	--	--	<0.05	--
	MW-7 @ 24.5'	South of Live Oak Supermarket	24.5	12/17/1997	1.3 <sup>F</sup>	0.007	0.012	0.092	0.042	--	--	<0.05	--
	Drum-1-2	MW-8 Installation	Composite	06/22/2006	2.1 <sup>B</sup>	<0.005	0.013	0.065	0.19	--	--	<0.05	--
<b>Monitoring Wells (*7)</b>	MW-4E <sup>A</sup> (27'-28')	Northeast corner of Live Oak Supermarket	27-28	08/12/2010	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--
	MW-4E (31'-32')		31-32	08/12/2010	<b>780</b>	<0.090	<0.090	<b>4.1</b>	<b>3.1</b>	--	--	--	--
	MW4E-36		36	01/20/2011	17	<0.0050	<0.0050	0.0072	0.013	--	11 <sup>N</sup>	<0.0050	--
	MW4E-38.5		38.5	01/20/2011	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	--	<1.0	<0.0050	--
	Soil Disposal	MW-4E Destruction Soil Drums	Composite	01/20/2011	21	<0.0050	<0.0050	0.099	0.16	--	<b>120<sup>O</sup></b>	<0.0050	--

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Sample Type	Well Number/ Sample Number <sup>P</sup>	Sample Location	Sample Depth (feet)	Sample Date	TPH-g (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Total Xylenes (mg/kg)	Oil and grease (mg/kg)	TPH-d (mg/kg)	MTBE (mg/kg)	TRPH (mg/kg)
<b>Proposed Environmental Screening Levels (ESLs)</b> <sup>D, E</sup>					<b>83</b>	<b>0.044</b>	<b>2.9</b>	<b>3.3</b>	<b>2.3</b>	<b>NE</b>	<b>83</b>	<b>0.023</b>	<b>NE</b>

**Notes:**

TPH-g Total petroleum hydrocarbons as gasoline by EPA Method 8015 (modified)

Benzene by EPA Method 8020

Toluene by EPA Method 8020

Ethylbenzene by EPA Method 8020

Total Xylenes by EPA Method 8020

Oil and Grease by Standard Method 503E, Hydrocarbons

TRPH Total Recoverable Petroleum Hydrocarbons

MTBE Methyl tertiary butyl ether by EPA Method 8260B after January 2011; Before January 2011, MTBE analyzed by EPA Method 5030

NE Not Established

mg/kg milligrams per kilogram

<0.50 Constituents below indicated laboratory reporting limit.

**Bold** Analyte detected at concentration exceeding the ESL.

UST Underground storage tank

-- Not measured/Not analyzed

\* Data for this sample are missing from the laboratory report.

\*\* No sample data present on record.

**SB-1** Overexcavation removed soil from this sample location after sample collection.

ESL Environmental Screening Limit

ND None detected at or above method detection limits.

Footnote A MW-4 was overdrilled, and MW-4E extraction well was installed in same location on August 12, 2010.

Footnote B Note on analytical report: Heavier gasoline range compounds are significant (aged gasoline?).

Footnote C Note on analytical report: Gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?

Footnote D ESLs based on San Francisco RWQCB "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (Interim Final - May 2008)" located at [www.waterboards.ca.gov/sanfranciscobay/water\\_issues/available\\_documents/ESL\\_May\\_2008.pdf](http://www.waterboards.ca.gov/sanfranciscobay/water_issues/available_documents/ESL_May_2008.pdf)

Footnote E ESLs are for soil up to and greater than 3 meters below ground surface, where groundwater is a potential drinking water source, commercial/industrial land use.

Footnote F Note on analytical report: Unmodified or weakly modified gasoline is significant.

Footnote G A request has been made to the County staff and the original consultant for the analytical report.

Footnote H These data were taken from a table within a report titled *Groundwater Monitoring Well Installation*, dated January 1996, by Terratech, Inc.. The original analytical report is not available.

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Former Live Oak Service Station  
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Sample Type	Well Number/ Sample Number <sup>P</sup>	Sample Location	Sample Depth (feet)	Sample Date	TPH-g (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Total Xylenes (mg/kg)	Oil and grease (mg/kg)	TPH-d (mg/kg)	MTBE (mg/kg)	TRPH (mg/kg)
<b>Proposed Environmental Screening Levels (ESLs)<sup>D, E</sup></b>					<b>83</b>	<b>0.044</b>	<b>2.9</b>	<b>3.3</b>	<b>2.3</b>	<b>NE</b>	<b>83</b>	<b>0.023</b>	<b>NE</b>

- Footnote I Sample depth requested. A request has been made to the County staff and the original consultant for the analytical report. According to a report titled *Report of Fuel Leak Investigation*, dated May 1995, by Terratech, Inc., these samples were collected between 2.5 feet to 11 feet bgs.
- Footnote J Note on analytical report: Practical Quantitation Limit increased to 0.5 due to interfering higher boiling analytes.
- Footnote K Note on analytical report: Practical Quantitation Limit increased to 0.25 due to interfering higher boiling analytes.
- Footnote L Sample depths are taken from February 23, 1990 regulator field notes (deeper values) and B&B Associated Services notes.
- Footnote M Depth from regulator field notes. Lab Sample ID references this depth at 9.5 feet.
- Footnote N Note on analytical report: Hydrocarbons are lower-boiling than typical Diesel Fuel.
- Footnote O Note on analytical report: Some hydrocarbons lower-boiling, some higher-boiling than Diesel.
- Footnote P When sample name differs on Chain-of-Custody (COC) record and Analytical Report, the COC name is given in brackets.
- Footnote R No original analytical report is available for this sample; non-detect is noted in the text of the report, *Remediation Assessment Notes*, dated 10/4/1990, by Enexco.
- Footnote S In the original analytical report, the concentrations are reported in parts per million.
- Footnote T Text from 10/4/1990 describes sample UH-4 to be below the waste oil tank location. However, the depth is shown as 3 feet, which could not be correct if the diameter of the tank is 3 feet and the tank was buried.

Consultant Collecting Samples/Lab:

- \*1 = West Coast Tank Testing/B&B Associated Services/Trace Analysis Laboratory, Inc.
- \*2 = Enexco/Analytical & Environmental Laboratory, Inc.
- \*3 = Remediation Testing and Design/Analytical & Environmental Laboratory, Inc.
- \*4 = Romar Technologies Inc./Analytical & Environmental Laboratory, Inc.
- \*5 = Terratech Inc./McC Campbell Analytical
- \*6 = Toxichem Management Systems, Inc./McC Campbell Analytical
- \*7 = Clearwater Group/Kiff Analytical LLC

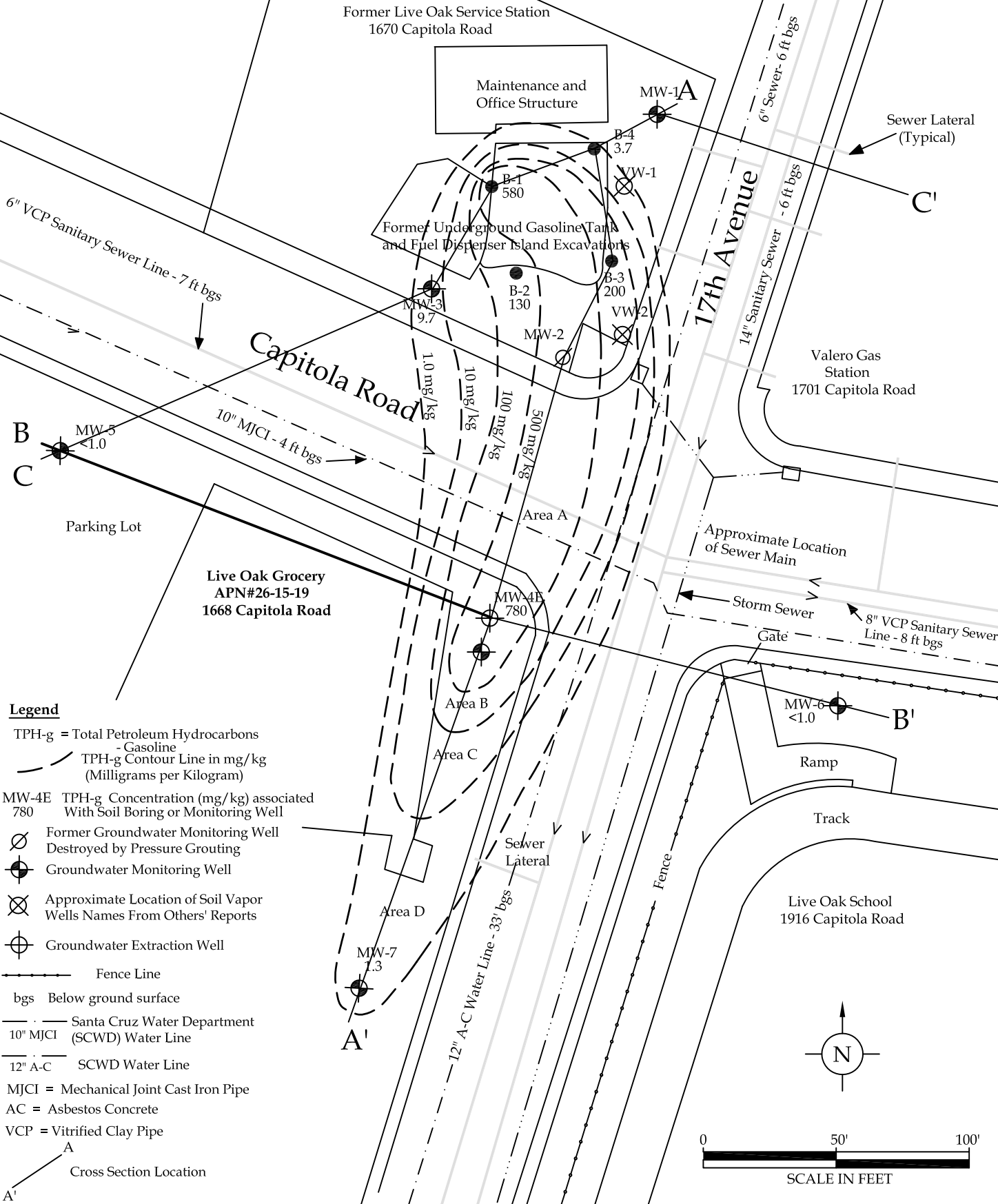


1671 Capitola Road, Santa Cruz, California 95062

## **APPENDIX E**

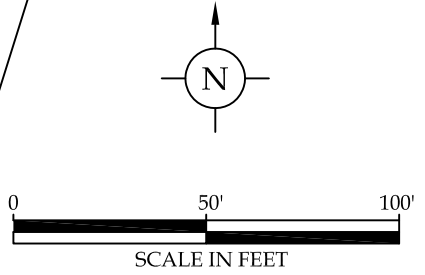
### **CROSS SECTIONS**

**Areas For Mass Calculations**  
 Area A - 500 mg/kg Contour - 4,750 ft<sup>2</sup>  
 Area B - 100 mg/kg Contour - 6,000 ft<sup>2</sup>  
 Area C - 10 mg/kg Contour - 6,575 ft<sup>2</sup>  
 Area D - 1 mg/kg Contour - 10,975 ft<sup>2</sup>



**Legend**

- TPH-g = Total Petroleum Hydrocarbons - Gasoline
- TPH-g Contour Line in mg/kg (Milligrams per Kilogram)
- MW-4E TPH-g Concentration (mg/kg) associated With Soil Boring or Monitoring Well
- ⊗ Former Groundwater Monitoring Well Destroyed by Pressure Grouting
- ⊙ Groundwater Monitoring Well
- ⊗ Approximate Location of Soil Vapor Wells Names From Others' Reports
- ⊕ Groundwater Extraction Well
- Fence Line
- bgs Below ground surface
- Santa Cruz Water Department (SCWD) Water Line
- 10" MJCI (SCWD) Water Line
- 12" A-C SCWD Water Line
- MJCI = Mechanical Joint Cast Iron Pipe
- AC = Asbestos Concrete
- VCP = Vitrified Clay Pipe
- A/A' Cross Section Location



**Sorbed-Phase Hydrocarbon Distribution in Soil and Cross Section Location and TPH-g Contour Map**

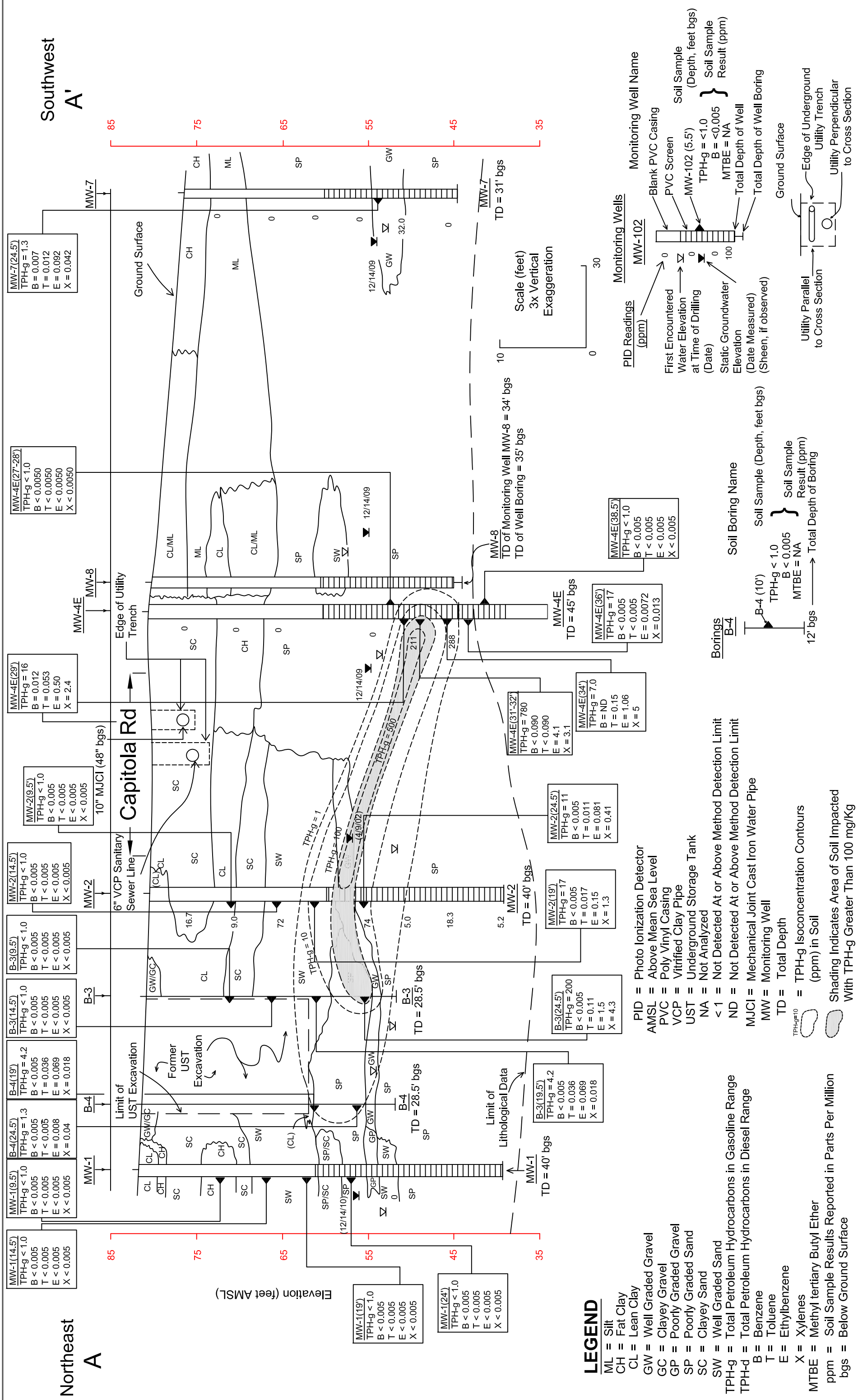
Former Live Oak Service Station  
 1671 Capitola Road  
 Santa Cruz, CA

**CLEARWATER GROUP**

Project No. <b>GP011</b>	Figure Date <b>6/11</b>	Figure <b>9</b>
-----------------------------	----------------------------	--------------------

Southwest  
A'

Northeast  
A



**LEGEND**

- ML = Silt
- CH = Fat Clay
- CL = Lean Clay
- GW = Well Graded Gravel
- GC = Clayey Gravel
- GP = Poorly Graded Gravel
- SP = Poorly Graded Sand
- SC = Clayey Sand
- SW = Well Graded Sand
- TPH-g = Total Petroleum Hydrocarbons in Gasoline Range
- TPH-d = Total Petroleum Hydrocarbons in Diesel Range
- B = Benzene
- T = Toluene
- E = Ethylbenzene
- X = Xylenes
- MTBE = Methyl tertiary Butyl Ether
- ppm = Soil Sample Results Reported in Parts Per Million
- bgs = Below Ground Surface

- PID = Photo Ionization Detector
- AMSLS = Above Mean Sea Level
- PVC = Poly Vinyl Casing
- VCP = Vitrified Clay Pipe
- UST = Underground Storage Tank
- NA = Not Analyzed
- < 1 = Not Detected At or Above Method Detection Limit
- ND = Not Detected At or Above Method Detection Limit
- MJCI = Mechanical Joint Cast Iron Water Pipe
- MW = Monitoring Well
- TD = Total Depth
- TPH-g=10 = TPH-g Isoconcentration Contours (ppm) in Soil
- Shading Indicates Area of Soil Impacted With TPH-g Greater Than 100 mg/Kg

- B-4 (10') TPH-g < 1.0
- B < 0.005
- T < 0.005
- E < 0.005
- X < 0.005
- MTBE = NA
- Total Depth of Boring

- MW-4E(29)
- TPH-g = 16
- B = 0.012
- T = 0.053
- E = 0.50
- X = 2.4
- 10" MJCI (48" bgs)

- MW-4E(27-28')
- TPH-g < 1.0
- B < 0.0050
- T < 0.0050
- E < 0.0050
- X < 0.0050

- MW-7(24.5')
- TPH-g = 1.3
- B = 0.007
- T = 0.012
- E = 0.092
- X = 0.042

**Note:**

MW-4 converted from 2" Well to 4" Well on 8/12/2010, and depth extended to 45' bgs on 1/20/2011 with blank casing from 40' to 45' bgs. Well now referenced as MW-4E.

**Cross Section A-A' Looking Southeast**

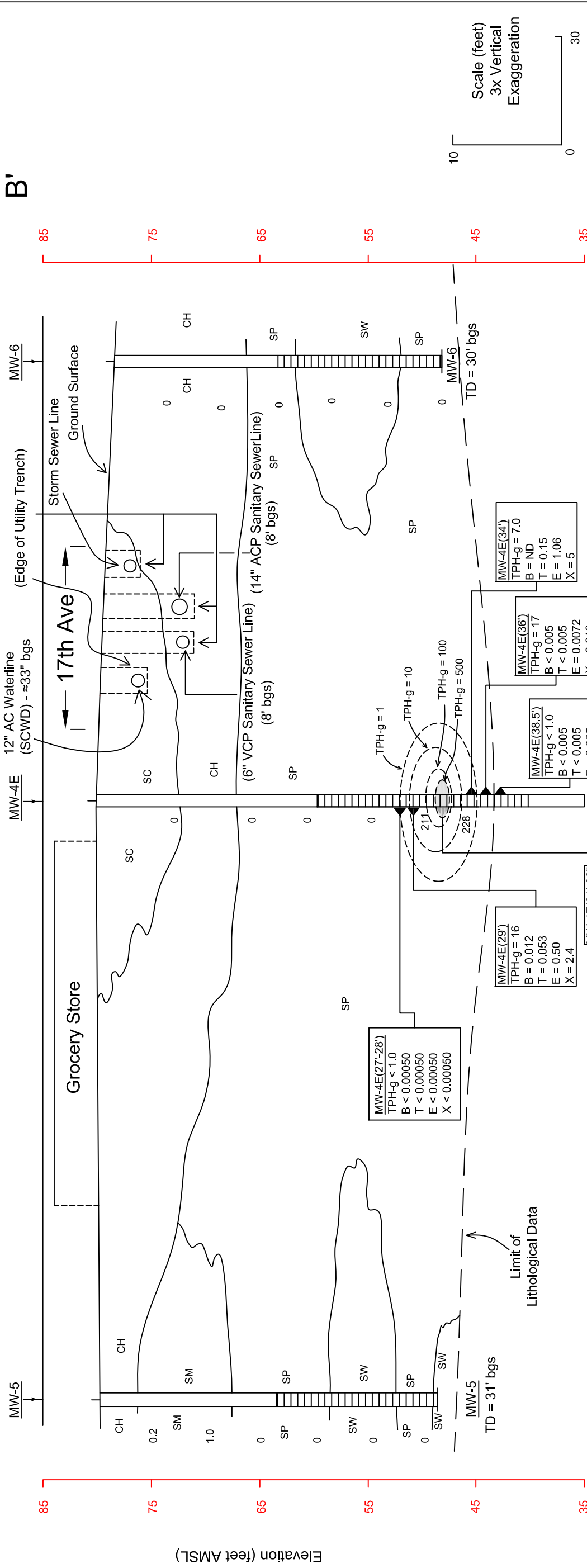
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Project No. GP011	Figure Date 6/11	Figure 10
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B

B'



**LEGEND**

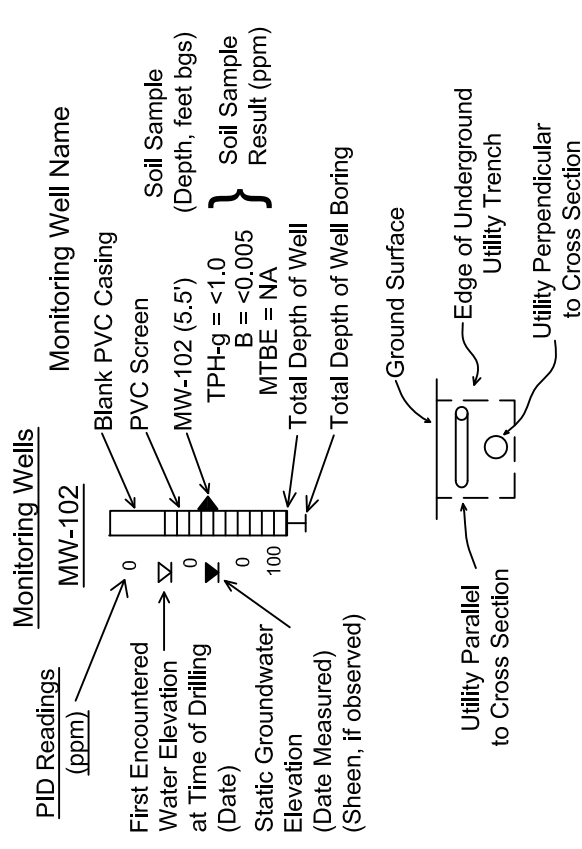
- ML = Silt
- CH = Fat Clay
- CL = Lean Clay
- GW = Well Graded Gravel
- GC = Clayey Gravel
- GP = Poorly Graded Gravel
- SP = Poorly Graded Sand
- SC = Clayey Sand
- SW = Well Graded Sand
- TPH-g = Total Petroleum Hydrocarbons in Gasoline Range
- TPH-d = Total Petroleum Hydrocarbons in Diesel Range
- B = Benzene
- T = Toluene
- E = Ethylbenzene
- X = Xylenes
- MTBE = Methyl tertiary Butyl Ether
- ppm = Soil Sample Results Reported in Parts Per Million

- MW = Monitoring Well
- bgs = Below Ground Surface
- TD = Total Depth
- PID = Photo Ionization Detector
- AMSL = Above Mean Sea Level
- PVC = Poly Vinyl Casing
- AC = Asbestos Concrete Pipe
- VCP = Vitrified Clay Pipe
- UST = Underground Storage Tank
- NA = Not Analyzed
- < 1 = Not Detected At or Above Method Detection Limit
- ND = Not Detected At or Above Method Detection Limit
- TPH-g<sup>10</sup> = TPH-g Isoconcentration Contours (ppm) in Soil
- Shading Indicates Area of Soil Impacted With TPH-g Greater Than 100 mg/Kg

**Note:**

MW-4 converted from 2" Well to 4" Well on 8/12/2010, and depth extended to 45' bgs on 1/20/2011 with blank casing from 40' to 45' bgs. Well now referenced as MW-4E.

- Borings**
- B-4 (10') Soil Sample (Depth, feet bgs)
- TPH-g = <1.0
- B = <0.005
- MTBE = NA
- 12' bgs → Total Depth of Boring



**NOTE:** Subsurface utilities beneath the 17th St. are approximate from reading available sources researched.

**Cross Section B-B' Looking Northeast**

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**CLEARWATER GROUP**

Project No.  
**GP011**

Figure Date  
**6/11**

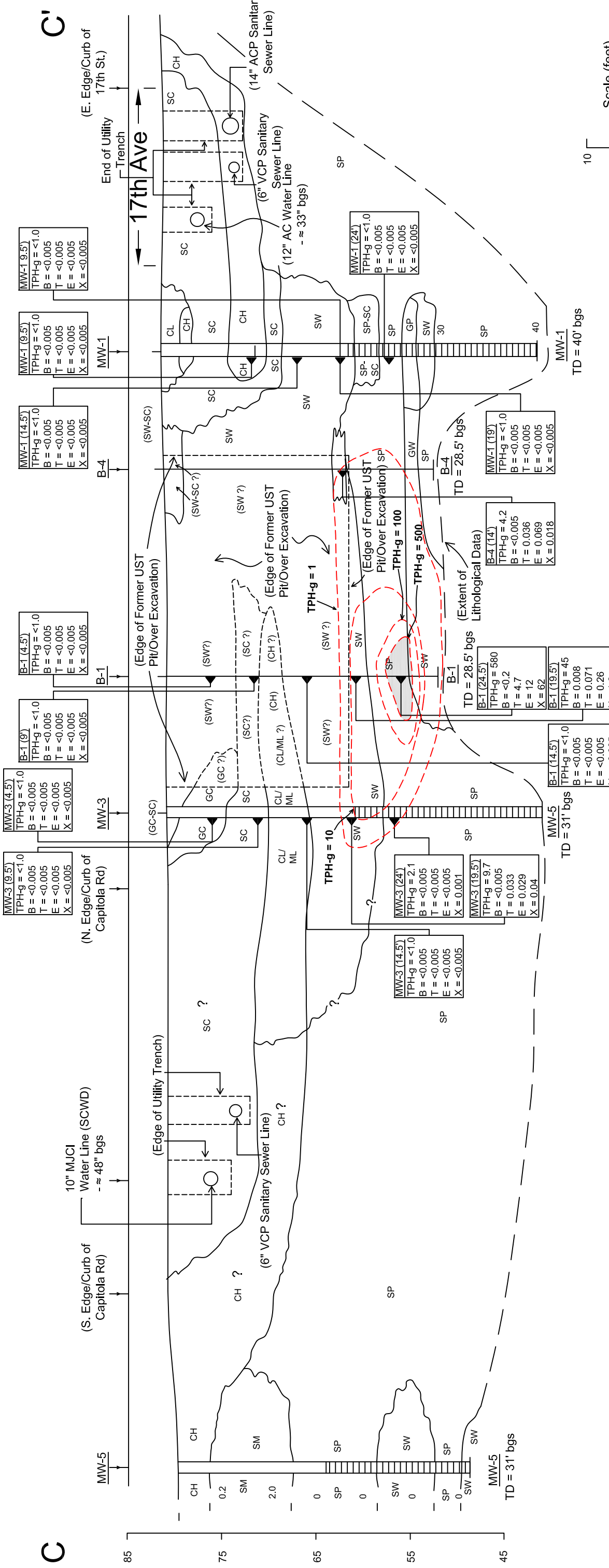
Figure  
**11**



C

C'

Elevation (feet AMSL)



**LEGEND**

- ML = Silt
- CH = Fat Clay
- CL = Lean Clay
- GW = Well Graded Gravel
- GC = Clayey Gravel
- GP = Poorly Graded Gravel
- SP = Poorly Graded Sand
- SC = Clayey Sand
- SW = Well Graded Sand
- TPH-g = Total Petroleum Hydrocarbons in Gasoline Range
- TPH-d = Total Petroleum Hydrocarbons in Diesel Range
- T = Benzene
- E = Toluene
- X = Ethylbenzene
- X = Xylenes
- MTBE = Methyl tertiary Butyl Ether

**Note:**

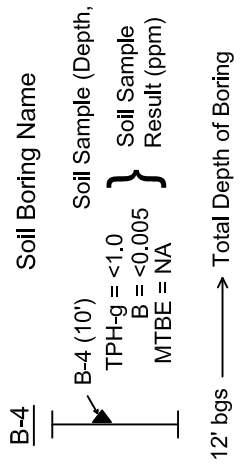
TPH-g=10

Shading Indicates Area of Soil Impacted With TPH-g Greater Than 100 mg/Kg

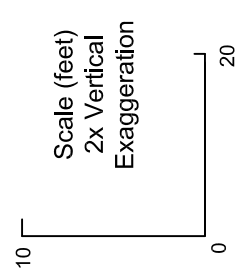
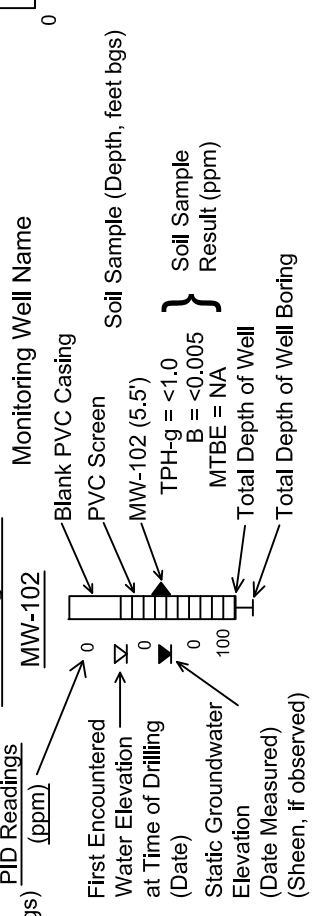
MW-4 converted from 2" Well to 4" Well on 8/12/2010, and depth extended to 45' bgs on 1/20/2011 with blank casing from 40' to 45' bgs. Well now referenced as MW-4E.

- MW = Monitoring Well
- AMSL = Above Mean Sea Level
- PVC = Poly Vinyl Casing
- VCP = Vitirified Clay Pipe
- AC = Asbestos Cement Pipe
- MJCI = Mechanical Joint Cast Iron Pipe
- UST = Underground Storage Tank
- NA = Not Analyzed
- < 1 = Not Detected At or Above Method Detection Limit
- ND = Not Detected At or Above Method Detection Limit
- bgs = Below Ground Surface
- TD = Total Depth
- PID = Photo Ionization Detector
- ppm = Soil Sample Results Reported in Parts Per Million
- TPH-g=10

**Borings**



**Monitoring Wells**



**NOTE:** Subsurface utilities beneath the Capitola Road and 17th Avenue are approximate from reading available sources researched.

**Cross Section C - C'**

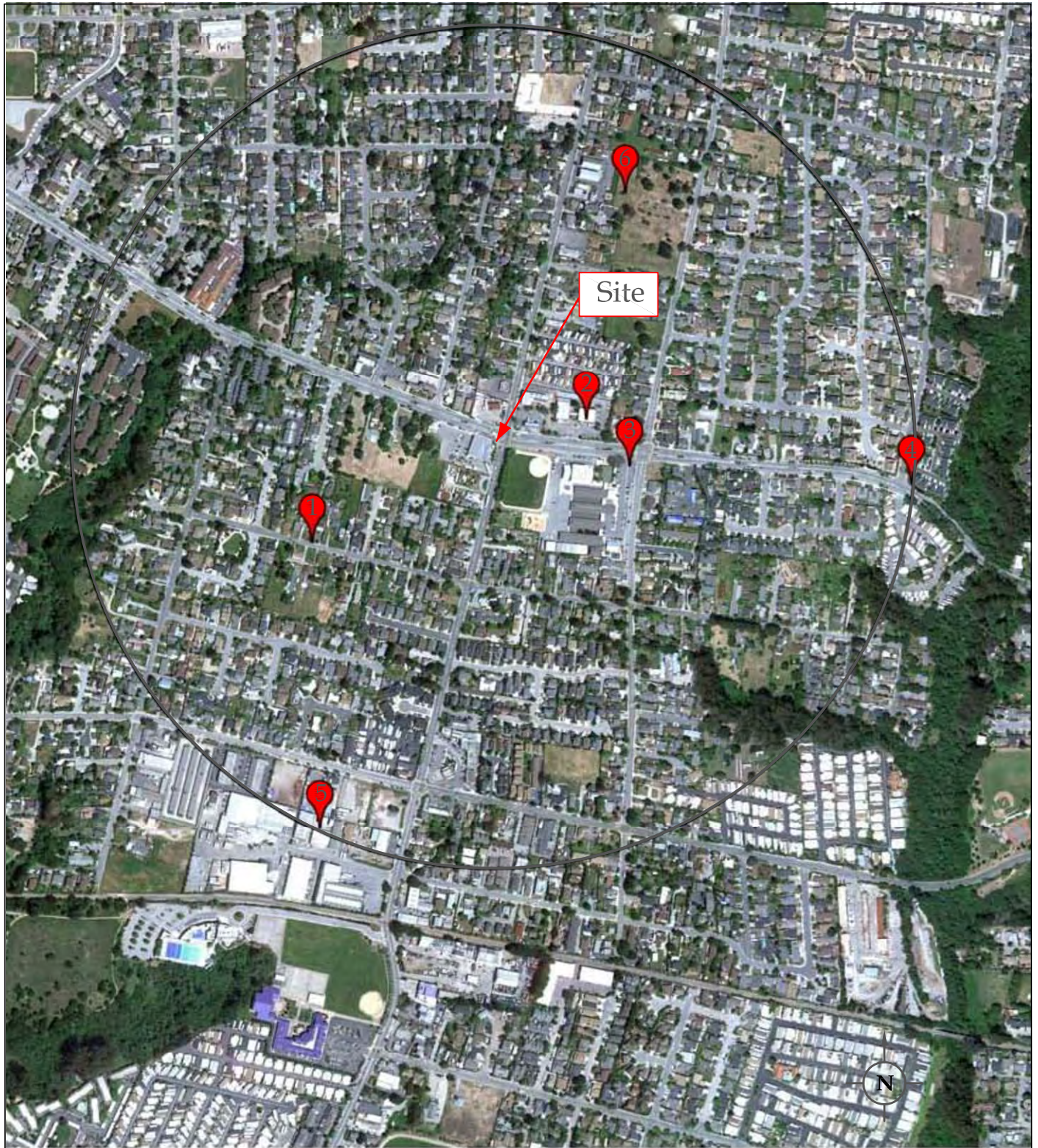
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<b>CLEARWATER GROUP</b>	Project No.	Figure Date	Figure
	GP011	06/11	12



1671 Capitola Road, Santa Cruz, California 95062

**APPENDIX F**  
**SENSITIVE RECEPTOR SURVEY**



- |  |  |
|--|--|
| 1.) Private Well at 1390 Harper Street               | 4.) Private Water Wells at 2545 Capitola Road  |
| 2.) Live Oak Senior Center at 1777 Capitola Road     | 5.) Private Water Well at 1045 17th Ave        |
| 3.) Live Oak Elementary School at 1916 Capitola Road | 6.) Private Water Well at 1965 Chanticleer Ave |

**2,000 Ft Radius Sensitive Receptor Survey Map**

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Project No.  
**GP011**

Figure Date  
**6/11**

Figure  
**5**