Environmental Health Services Environmental Protection 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

SUBJECT: Perjury Statement

RECEIVED

By Alameda County Environmental Health at 9:09 am, Mar 05, 2013

To Whom It May Concern:

I declare, under penalty of perjury, that the information and/or recommendations contained in the requested attached reports in your letter dated August 8, 2011 are true and correct to the best of my knowledge.

Signed:

TANE A.

ALLEN

October 30, 2012

San Francisco HQ

Performance Monitoring and Third Quarter 2012 Groundwater Monitoring Report

Chicago

Atlanta

Property Identification:

325 Martin Luther King Jr. Way Oakland, California

Dallas

Costa Mesa

AEI Project No. 277915 ACEH Site: RO0002930 Denver

Prepared for:

Jane Allen 2 Lone Tree Avenue Mill Valley, CA 94941 Los Angeles

Miami

New York

Phoenix

Portland

San Jose

Prepared by:

AEI Consultants 2500 Camino Diablo Walnut Creek, CA 94597 (925) 746-6000

National Presence

Regional Focus

Local Solutions

TABLE OF CONTENTS

1.0	INTRODUCTION	1
	SITE DESCRIPTION AND HISTORY	
2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 2.10 2.11		1 2 2 2 2 3 3 4 4 5
3.1 3.2	Summary of Groundwater Sampling Activities	6 6 6
4.0	SUMMARY	
5.0	RECOMMENDATIONS	7
7.0	REPORT LIMITATIONS AND SIGNATURES	7
	FIGURES	

FIGURE 1	SITE LOCATION MAP
FIGURE 2	Site Plan
FIGURE 3	DETAILED SITE PLAN
FIGURE 4	GROUNDWATER ANALYTICAL DATA
FIGURE 5	GROUNDWATER GRADIENT
FIGURE 6	TPH-G ISOCONCENTRATION MAP – 9/27/12
FIGURE 7	DO CONCENTRATION MAP - 9/21/12

TABLES

TABLE 1	Well Construction Details
TABLE 2	GROUNDWATER ELEVATION DATA
TABLE 3	Groundwater Analytical Data - TPH + MBTEX
TABLE 4	Groundwater Analytical Data – Fuel Additives
	APPENDICES
APPENDIX A	MONITORING WELL FIELD SAMPLING FORMS
Appendix B	Laboratory Analytical and Chain of Custody Documentation



Environmental & Engineering Services

Tel: 925.746.6000 Fax: 925.746.6099

1.0 INTRODUCTION

AEI Consultants (AEI) has prepared this report to document the performance of the hydrogen peroxide infusion program and the Third Quarter 2012 groundwater monitoring event at the above referenced site (Figure 1, Site Location Map). The infusion program and groundwater monitoring is being performed in accordance with the requirements of the Alameda County Environmental Health (ACEH).

2.0 SITE DESCRIPTION AND HISTORY

The subject property is located on the northwestern corner of the intersection of Martin Luther King Jr. Way and 4th Street in a mixed commercial and industrial area of Oakland. The property measures approximately 100 feet along Martin Luther King and approximately 150 feet along 4th Street with the property building covering essentially 100% of the site. The building is currently vacant, but was previously occupied by Pucci Enterprises as warehouse space and cold storage freezers.

A Phase I Environmental Site Assessment (ESA) of the property dated November 1, 1993 identified a 10,000-gallon former gasoline UST abandoned in place below the northeast corner of the building. The gasoline UST was used to provide fuel for the Pucci Enterprises truck fleet.

2.1 Tank Closure

On October 20, 1993, the tank was abandoned in place by pumping remaining sludge out of the tank, steam cleaning the tank, and filling the tank with concrete slurry. At the time of the UST closure, it was believed that the tank could not be removed because of its proximity to the footing of the 671 4th Street building. The available records contain no documentation of sampling around the tank at the time of the tank closure. After tank closure, the eastern portion of the building (325 Martin Luther King) was constructed.

2.2 2005 AEI Investigation

In May 2005, AEI performed a Phase II Subsurface Investigation. Soil borings SB-1 and SB-3 encountered refusal at a depth of 4 feet bgs, at the top of the concrete filled UST. Soil borings SB-2 and SB-4 were advanced into the groundwater. Total Petroleum Hydrocarbons as gasoline (TPH-g), as diesel (TPH-d), and benzene were reported in groundwater from boring SB-2 at concentrations up to 780 micrograms per liter (μ g/L), 420 μ g/L, and 53 μ g/L, respectively.

2.3 2005 Terra Firma Investigation

In September 2005, Terra Firma collected groundwater samples from four (4) soil borings (labeled 50901-1 to 50901-4). Analysis of the groundwater samples reported the highest concentrations of hydrocarbons in soil boring 50901-3 to the south of the UST, where TPH-g, TPH-d, and benzene were reported at concentrations of 20,000 μ g/L, 3600 μ g/L, and 990 μ g/L, respectively.

2.4 2006 Ceres Investigation

In June 2006, Ceres Associates (Ceres) advanced five soil borings (SB5 through SB9). The highest concentrations of hydrocarbons in the soil were reported in boring SB-7 (located southeast of the UST) where TPH-g, TPH-d, and benzene were reported in sample SB-7-10 at concentrations of 20,000 mg/kg, 3,300 mg/kg, 200 mg/kg, respectively. Analysis of groundwater samples from SB7 reported TPH-g, TPH-d, and benzene at concentrations of 110,000 μ g/l, 110,000 μ g/l, and 3,300 μ g/l, respectively. Concentrations of TPH-g in the other soil borings ranged from ND <50 μ g/l (SB5-GW) to 610 μ g/l (SB8-GW).

2.5 2006 LRM Consulting Workplan

LRM Consulting prepared release notification documentation and a workplan for the ACEH in August 2006. The workplan included additional file and data base research into possible additional source locations (dispenser, piping, offsite releases, etc) and installing three (3) 2-inch diameter monitoring wells a screened interval of 5 to 20 feet bgs.

2.6 2007 AEI Investigation

Following ACEH comments relating to the work plan and previous investigations, AEI was retained to prepare a comprehensive workplan. The *Site Characterization Workplan*, dated March 31, 2007, outlined the scope of work for installation of 12 additional soil borings and three groundwater monitoring wells to further characterize the release.

In May of 2007, AEI performed a soil and groundwater investigation which included the drilling of additional twelve (12) soil borings at the property. Significant concentrations of TPH-g, TPH-d, and benzene in the soil were reported only in monitoring well MW-3 (MW-3-10), located down gradient of abandoned UST, at concentrations of 1,500 mg/kg, 240 mg/kg, and 6.0 mg/kg, respectively. Low concentrations (<210 μ g/l) of TPH were reported down gradient of the abandoned UST in soil boring SB-10, SB-12, SB-13, SB-16, SB-17, SB-18, and SB-19.

Data from these investigations shows that the dissolved hydrocarbon plume is limited to the eastern most portion of 325 Martin Luther King Jr. Way, immediately down gradient of the abandoned in place UST. On August 10, 2007, AEI installed three (3) groundwater monitoring wells (MW-1 thru MW-3) down gradient of the abandoned in place UST. Significant concentrations of TPH-g, TPH-d and benzene were reported only in well MW-3 at concentrations of 24,000 μ g/l, 1,200 μ g/l, and 2,600 μ g/l, respectively.

Site maps showing the locations of soil borings advanced and monitoring wells installed by AEI and well construction details are contained in AEI's *Soil and Groundwater Investigation Report*, dated September 21, 2007.

2.7 Chemical Oxidation Pilot Test

A *Corrective Action Pilot Test Workplan*, dated April 7, 2008, was prepared for the ACEH. The workplan proposed five injection points around monitoring well MW-3 using a RegenOx[™] solution. The workplan was approved by the ACEH in a letter dated May 13, 2008. On July 17 and 18, 2008, 720 lbs. of RegenOx[™] was injected in five locations (IP-1 through IP-5) at spacing approximately five feet away from well MW-3.

Following the pilot test, groundwater samples collected from well MW-3 on August 4, 2008 reported an increase in TPH-g from pre-pilot concentration from 20,000 μ g/L to 110,000 μ g/L. Follow up sampling on August 20, 2008 reported TPH-g at a concentration of 120,000 μ g/L. This increase was the result of release of hydrocarbons adsorbed to clay, silt and sand grains in the smear zone (between 9 - 11 feet bgs).

This significant increase in TPH-g concentration indicated that the residual source area around the abandoned in place UST is significantly greater than had been anticipated and that several rounds of injection would be required to remediate the site. Based on the relative high cost of multiple direct push infusions using RegenOxTM, installation of permanent injection points and alternate remedial approaches were evaluated. AEI determined that H_2O_2 infusion through permanently installed wells was a lower cost approach to remediation. A *Hydrogen Peroxide Infusion Pilot Test Workplan*, dated August 12, 2009, was completed for the site and approved in a letter from the ACEH dated August 21, 2009.

2.8 Initial Hydrogen Peroxide Infusion

In December of 2009, a 2,400 gallon poly tank was placed on the site and manifolded to wells IW-1, IW-2 and IW-3. Between December 29, 2009, and January 29, 2010, 8,000 gallons of $0.5\%~H^2O^2$ was infused primarily into injection wells IW-2 and IW-3.

On February 8 and 24, 2010 following the infusion of 8,000 gallons of 0.5% H^2O^2 solution, wells MW-3, IW-2, and IW-3 were sampled to determine the effects of the H^2O^2 infusion. TPH-g in MW-3 decreased from 59,000 µg/L on October 30, 2009 to 16,000 µg/L on February 24, 2010. TPH-g in IW-2 decreased from 15,000 µg/L on October 30, 2009 to 3,500 µg/L on February 24, 2010. IW-3 decreased from 77,000 µg/L on November 23, 2009 to 36,000 µg/L on February 24, 2010.

Between March 16, 2010 and May 12, 2010, an additional 9,400 gallons of $0.5\%~H^2O^2$ were infused into wells IW-2 and IW-3. Between May 24, 2010 and June 29, 2010, 4,900 gallons of $1.25\%~H^2O^2$ were infused primarily into well IW-3.

Progress monitoring sampling was performed on May 24, July 19, and August 5, 2010. The results of the progress sampling through July 19, 2010 is summarized in Table 3 and in the *Hydrogen Peroxide Infusion Report* dated July 30, 2010. Results from the August 5, 2010

sampling event reported TPH-g in wells MW-3, and IW-1 at concentrations of 350 μ g/L and 4,300 μ g/L, respectively.

The third quarter 2010 monitoring event on September 9, 2010 reported TPH-g in wells MW-3, and IW-1 at concentrations of 1,200 μ g/L and 22,000 μ g/L, respectively.

Following the Third Quarter 2010 semi-annual monitoring event on September 9, 2010 hydrogen peroxide infusion into well IW-3 was resumed. Between September 21, 2010 and December 29, 2010 an additional 18,000 gallons of 0.5 % hydrogen peroxide was infused in well IW-3.

2.9 Post Infusion Monitoring

The regularly scheduled First Quarter 2011 semiannual monitoring event was performed on March 24, 2011. No TPH-g or BTEX was reported in wells MW-1, MW-2, IW-1, or IW-2 at or below standard laboratory reporting limits.

TPH-g was reported in wells MW-3 and IW-3 at concentrations of 140 μ g/L and 390 μ g/L respectively.

The second semiannual monitoring event was performed on August 9, 2011. No TPH-g or BTEX was reported in wells MW-1, MW-2, IW-1, or IW-2 at or below standard laboratory reporting limits.

TPH-g and benzene concentrations in well MW-3 increased from concentrations of 590 μ g/L and 38 μ g/L, respectively on August 9, 2011 to 4,900 μ g/L and 1,400 μ g/L, respectively on December 14, 2011. The concentration of TPH-d increased from 200 μ g/L to 1,000 μ g/L.

TPH-g concentration in well IW-3 increased from 9,600 μ g/L on August 9, 2011 to 36,000 μ g/L and on December 14, 2011. Benzene concentration in well IW-2 increased from 2,400 μ g/L on August 9, 2011 to 4,600 μ g/L and on December 14, 2011.

2.10 Installation of Infusion Wells IW-4 and IW-5

On November 29, 2011, AEI installed two addition infusion wells (IW-4 and IW-5) on the northeast side of the abandoned in place UST. The locations of the wells are shown on Figure 2. Well completion details are summarized on Table 1.

During the December 14, 2011 groundwater monitoring event TPH-g and benzene concentrations in IW-4 were reported at concentrations of 95,000 μ g/L and 13,000 μ g/L, respectively. TPH-g and benzene concentrations in IW-5 were reported at concentrations of 250 μ g/L and 11 μ g/L, respectively.

AEI recommended additional H^2O^2 infusion following the recent installation of additional up gradient infusion wells (IW-4, IW-5).

2.11 Second Hydrogen Peroxide Infusion

Infusion into well IW-4 was initiated on January 12, 2012. In January 2012, a 2400 gallon poly tank was placed on the site and manifolded directly to wells IW-3, IW-4, and IW-5. Between January 2012, and May 2012, approximately 12,000 gallons of $1\%\ H^2O^2$ was infused into the wells, primarily into injection well IW-4. After the first week of infusion, only Well IW-4 was directly manifolded to the tank and casings of wells IW-1, IW-2, IW-3, and IW-5 were filled with H^2O^2 during the weekly system checks. Average infusion is estimated to have been 0.1 gallon per minute.

3.0 THIRD QUARTER 2012 GROUNDWATER MONITORING EVENT

3.1 Summary of Groundwater Sampling Activities

On July 27, August 27, and October 24, 2012 groundwater monitoring wells MW-3, IW-3 and IW-4 were gauged and sampled, as part of performance monitoring of the hydrogen peroxide infusion program.

On September 21, 2012, a full monitoring event was performed which included all groundwater monitoring wells (MW-1 though MW-3 and infusion wells IW-1 through IW-5) at the site.

For each event, prior to purging and sampling the wells, the well caps were removed from each well. After allowing a minimum of 15 minutes for the water level in each well to reach equilibrium with atmospheric pressure, the depth to water in each well was measured with an electronic meter to a precision of \pm 0.01 feet. Each well was then purged with a peristaltic pump with the bottom of the drop tube placed at approximately 10 feet bgs under a low flow protocol. Each well was purged until the groundwater parameters of temperature, pH, conductivity, dissolved oxygen (DO), oxygen reduction potential (ORP) and visual clarity stabilized.

Dissolved oxygen (DO) in wells MW-3 through IW-5 was reported at concentrations ranging from 4.97 mg/L (MW-3) to 6.37 mg/L (MW-5). DO concentrations in down gradient wells MW-1 and MW-2 were reported at concentrations of 1.64 mg/L and 2.97 mg/L, respectively. Historical DO measurements in IW-1, the most up gradient well on the site indicate that the DO in groundwater entering the site has a concentration that ranges from 1.0 to 2.0 mg/L.

Each water sample was collected into hydrochloric acid (HCI) preserved one liter amber bottle and three (3) 40-milliliter (ml) volatile organic analysis vials (VOAs) using the peristaltic pump. All samples were labeled with at minimum, project number, sample number, time, date, and sampler's name.

The samples were entered on a chain-of-custody form and placed on water ice in a pre-cooled ice chest pending same day transportation under chain of custody protocols to McCampbell Analytical, Inc. of Pittsburg, California (Department of Health Services Certification # 1644). The samples were analyzed for TPH-g and MBTEX using methods SW8021B/8015Bm, for TPH-d by method SW8015B, and for fuel oxygenates and lead scavengers by method SW8260B.

3.2 Analytical Results

3.2.1 July 27, 2012

Groundwater samples from the abbreviated July 27, 2012 event (wells MW-3, IW-3, and IW-4) were analyzed for TPH-g and MBTEX.

No TPH-g, TPH-d, MBTEX were reported in the groundwater samples from wells MW-3 or IW-3 at standard laboratory reporting limits.

TPH-g and MBTEX concentrations in well IW-4 decreased to 270 μ g/L, ND<5.0 μ g/L, 2.0 μ g/L, 4.3 μ g/L, 1.5 μ g/L, 3.4 μ g/L, respectively.

3.2.2 August 27, 2012

Groundwater samples from the abbreviated August 27, 2012 event (wells MW-3, IW-3, and IW-4) were analyzed for TPH-q and MBTEX.

TPH-g and MBTEX concentrations in well MW-3 decreased to 51 μ g/L, ND<5.0 μ g/L, 2.4 μ g/L, ND<0.5 μ g/L, ND<0.5 μ g/L, 4.9 μ g/L, respectively. TPH-d was reported at ND<50.

TPH-g and MBTEX concentrations in well IW-3 increased to 1,100 μ g/L, ND<45 μ g/L, 100 μ g/L, 160 μ g/L, 5.1 μ g/L, 150 μ g/L, respectively. TPH-d was reported at 130 μ g/L.

TPH-g and MBTEX concentrations in well IW-4 increased to 2,900 μ g/L, ND<50 μ g/L, 230 μ g/L, 520 μ g/L, 46 μ g/L, 260 μ g/L, respectively. TPH-d was reported at 280 μ g/L.

3.2.3 September 21, 2012

No TPH-g, MBTEX, fuel additives were reported in wells MW-1, MW-2, MW-3, IW-1, or IW-5 at standard laboratory reporting limits.

TPH and MBTEX concentrations in well IW-2 increased to concentrations of 91 μ g/L, ND<0.5 μ g/L, 0.89 μ g/L, ND<0.5 μ g/L, and 7.5 μ g/L.

TPH-g and MBTEX concentrations in well IW-3 increased to concentrations of 4,300 μ g/L ND<50 μ g/L, 460 μ g/L, 580 μ g/L, 32 μ g/L, 560 μ g/L, respectively.

TPH-g and MBTEX concentrations in well IW-4 increased to concentrations of 4,500 μ g/L ND<50 μ g/L, 350 μ g/L, 820 μ g/L, 64 μ g/L, and 370 μ g/L, respectively.

Analysis for TPH-d in water samples from wells MW-3 and wells IW-2 through IW-5 reported TPH-d at concentrations of ND<50 μ g/L, ND<50 μ g/L, 360 μ g/L, 150 μ g/L, and ND<50 μ g/L, respectively.

The analytical results from the September 21, 2012 monitoring event and previous sampling events are summarized in Table 2, Groundwater Elevation Data and Table 3, Groundwater Analytical Data. Groundwater Monitoring Well Field Sampling Forms, which include water quality data and other parameters collected during well purging are attached as Appendix A.

4.0 SUMMARY

TPH-g concentrations have rebounded in wells IW-4 and IW-3 to concentrations of 21,000 μ g/L and 4,400 μ g/L, respectively. The rebound in these wells suggests that residual soil contamination remains up gradient of the UST, likely just outside of the building underneath the northern sidewalk.

5.0 RECOMMENDATIONS

AEI believes that the bulk of the source material up gradient of the abandoned UST has been removed and requests that the site be considered for closure under the current low risk closure guidelines.

AEI will continue monthly sampling of wells MW-3, IW-3, and IW-4 until the hydrocarbon concentration in well IW-4 stabilizes. A progress report will be prepared following 2 more months of monitoring.

7.0 REPORT LIMITATIONS AND SIGNATURES

This report presents a summary of work completed by AEI, including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide requested information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses and observations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices in the environmental engineering and construction field that existed at the time and location of the work. If you have any questions regarding this report, we can be reached at (925) 746-6000.

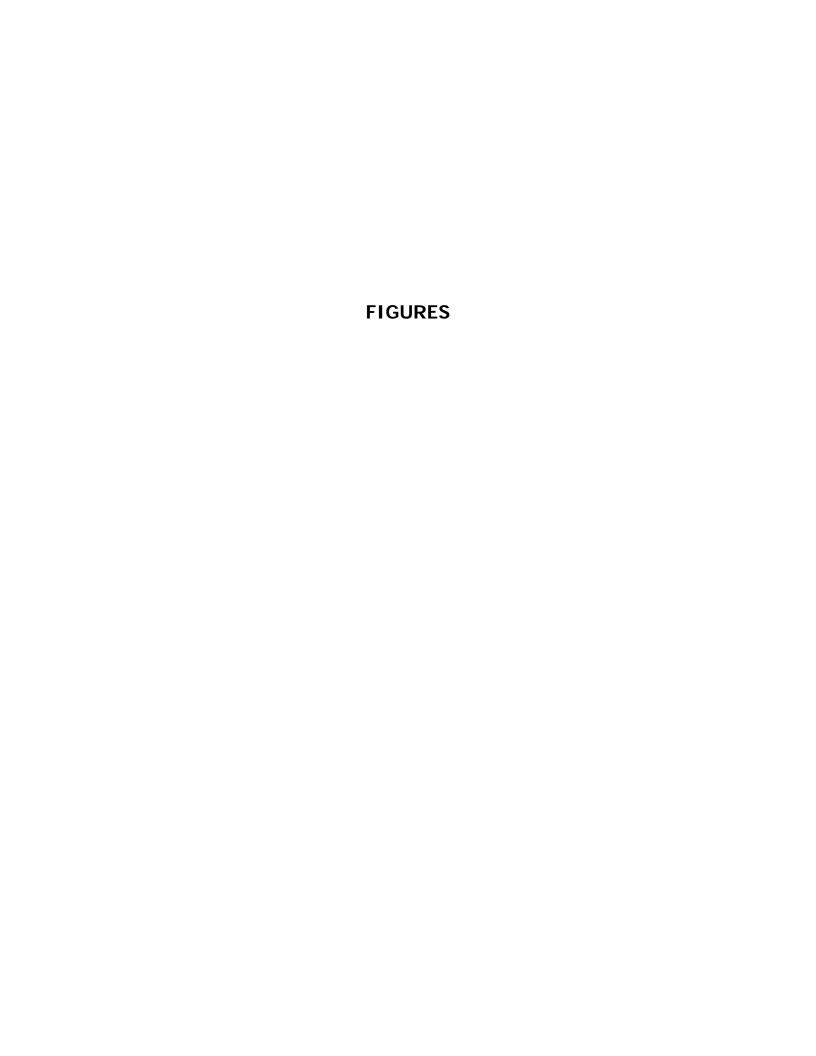
Sincerely,

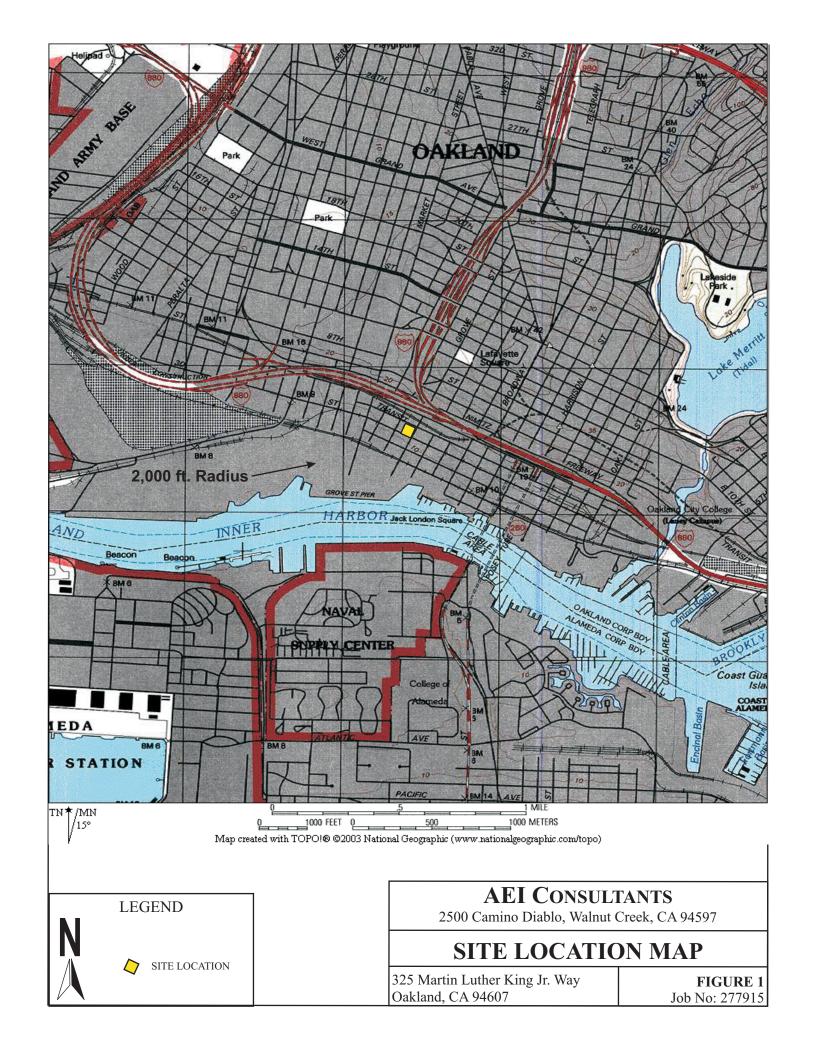
AEI Consultants

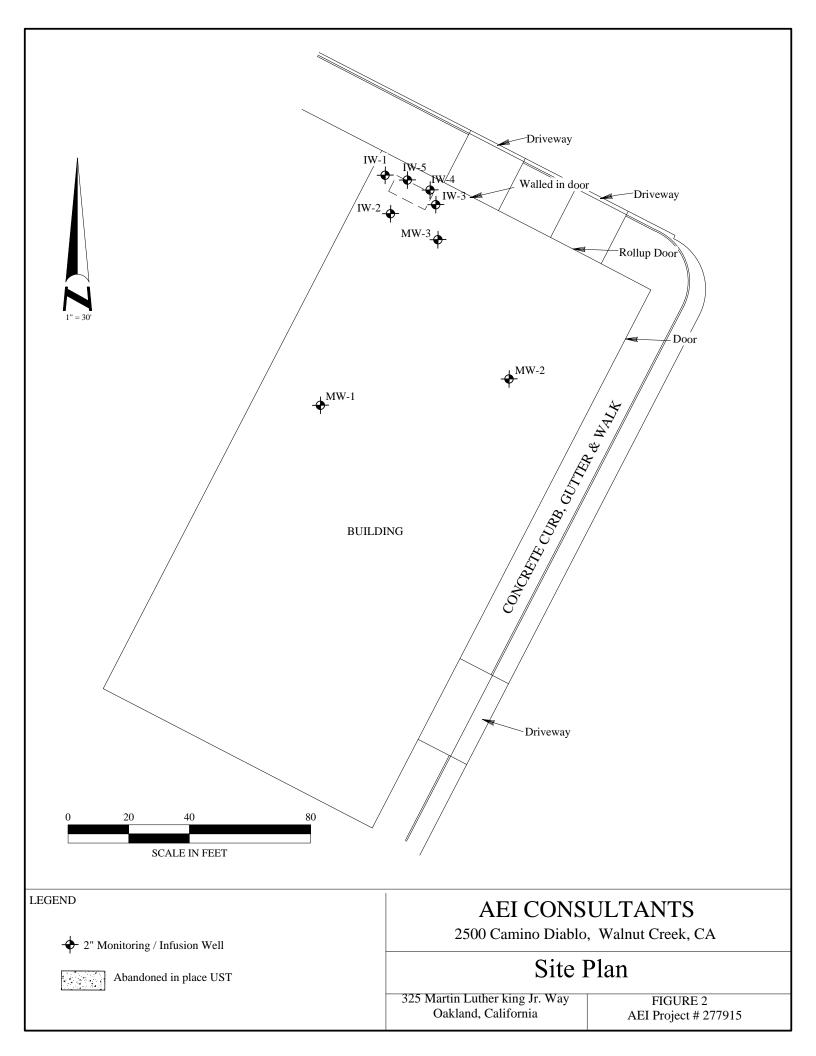
Adrian M. Angel, GIT

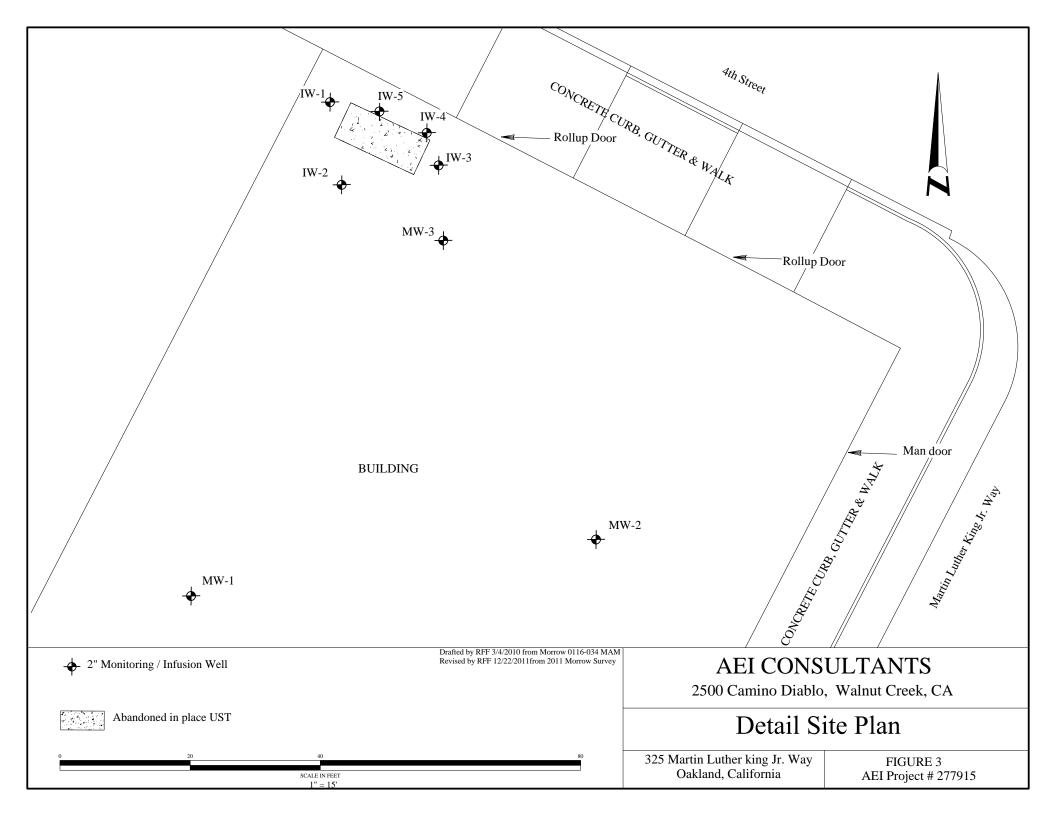
Project Geologist

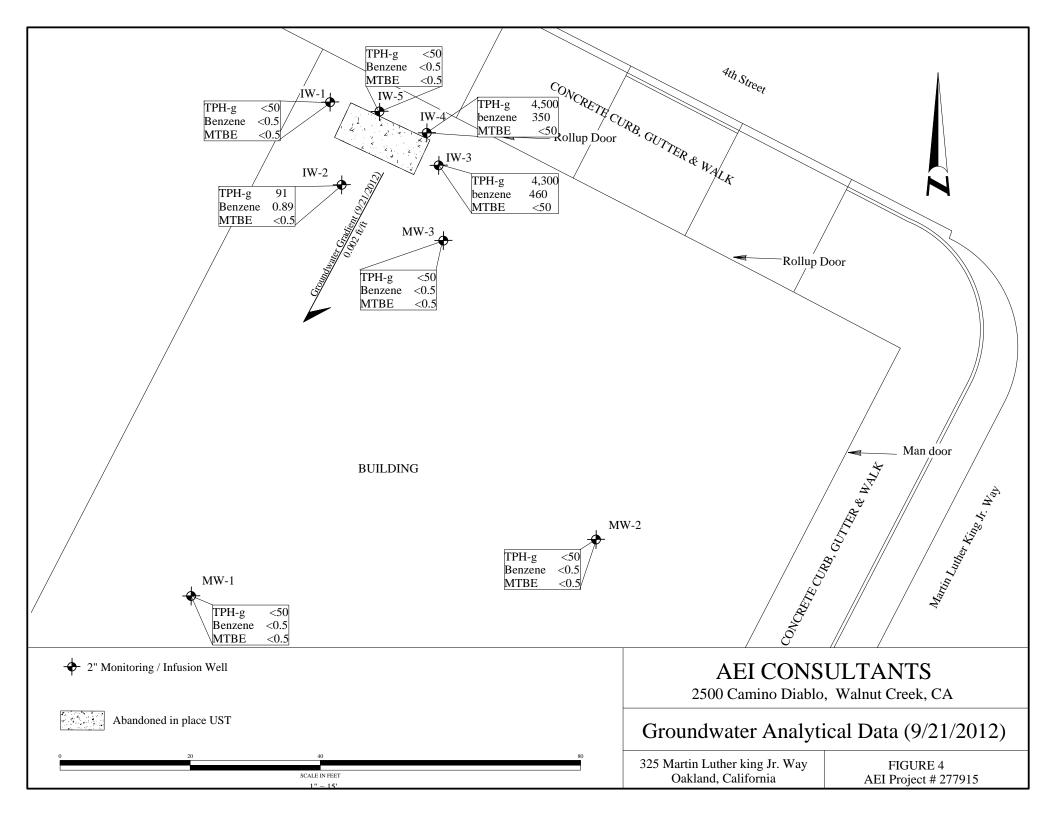
Robert F. Flory, PG Senior Geologist No. 5825

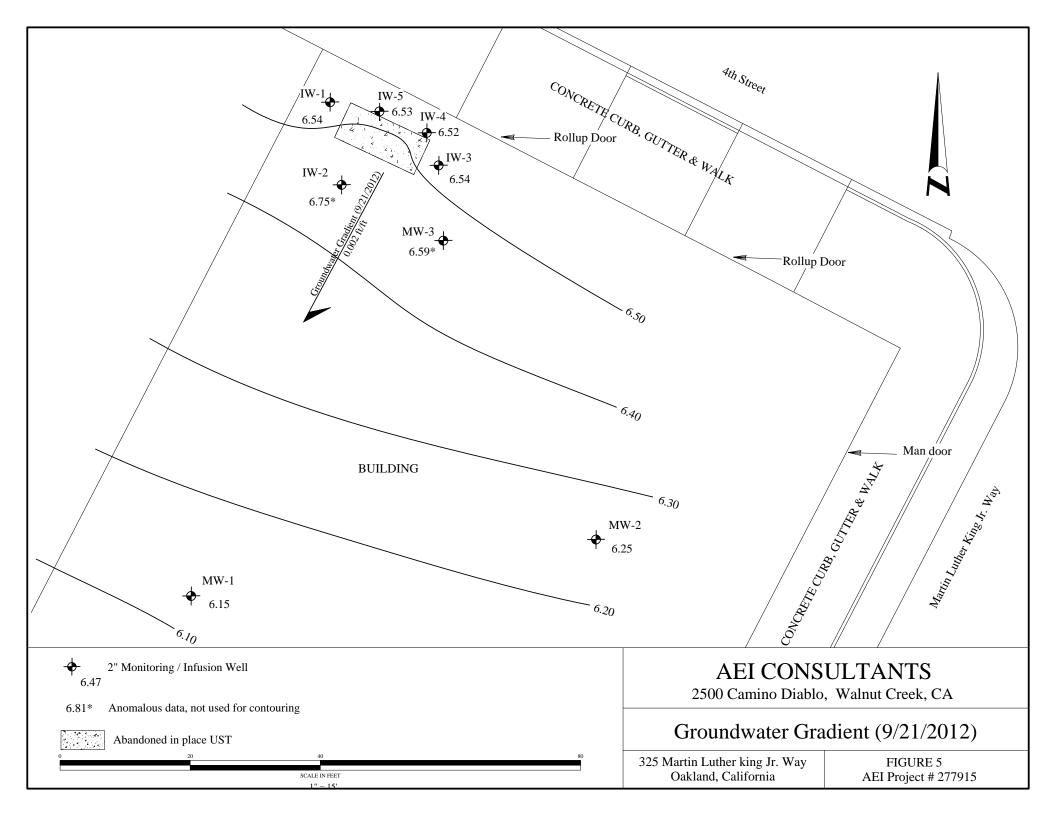


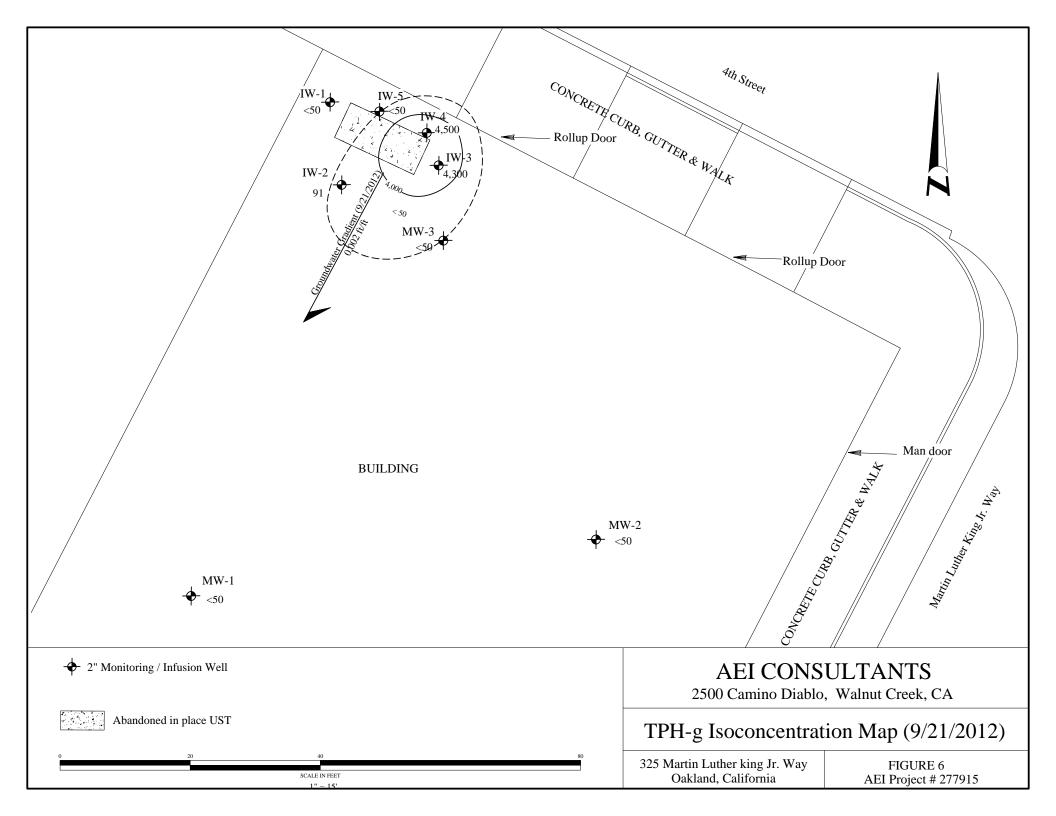


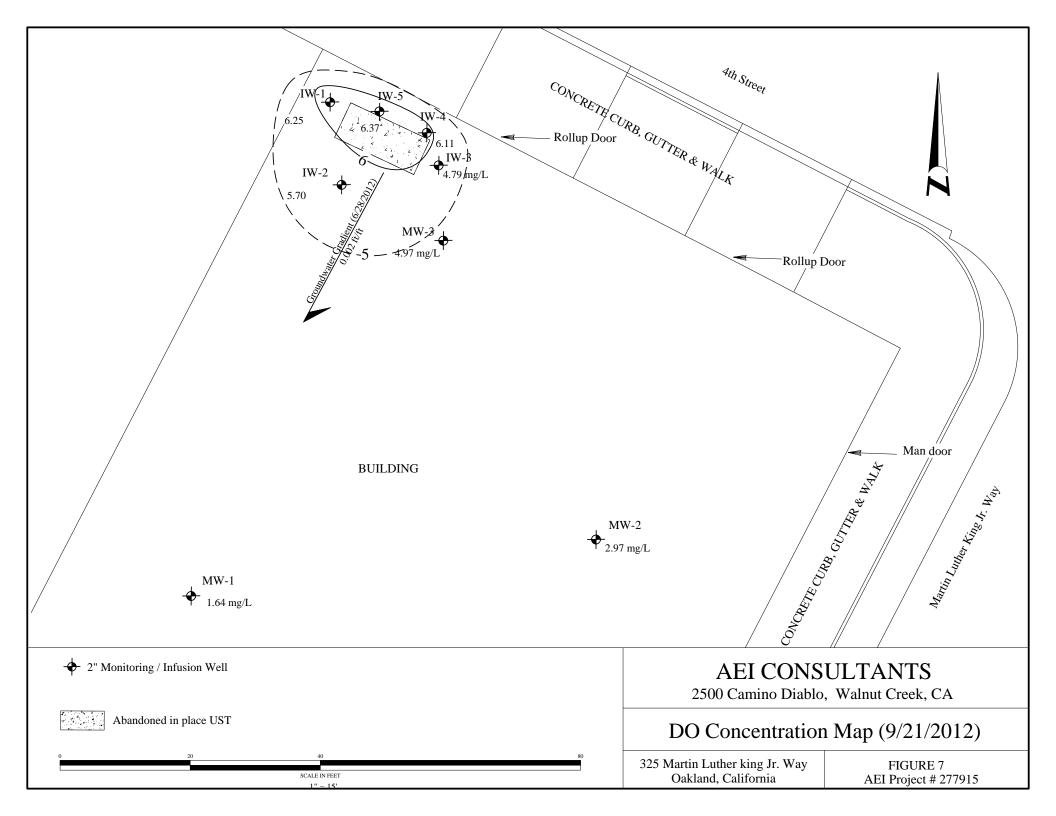












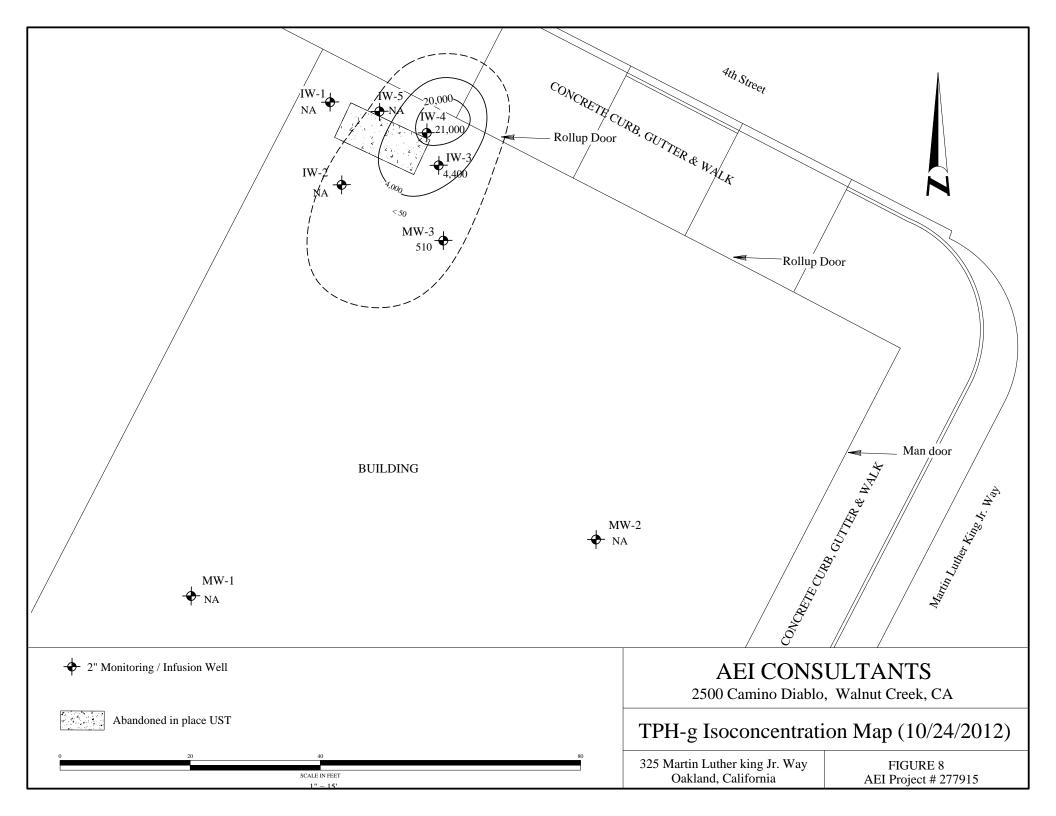




Table 1 - Well Construction Details
AEI Project # 277915

Well ID	Date	Top of	Well	Well	Slotted	Slot	Sand	Sand	Bentonite	Grout
	Installed	Casing	Вох	Depth	Casing	Size	Interval	Size	Interval	Interval
		Elevation	Elevation							
		(ft amsl)	(ft amsl)	(ft)	(ft)	(in)	(ft)		(ft)	(ft)
MW-1	08/10/07	14.87*	15.34	18	8 - 18	0.010	7 - 18	# 2/12	7 - 8	0.75 - 7
MW-2	08/10/07	15.27	15.52	17	7 - 17	0.010	6 - 17	# 2/12	6 - 7	0.75 - 6
MW-3	08/10/07	15.11*	15.57	18	8 - 18	0.010	7 - 18	# 2/12	7 - 8	0.75 - 7
IW-1	02/09/10	15.20**	15.61	15	5 - 15	0.010	4 - 15	2/12	3 - 4	0.5 - 3
IW-2	02/09/10	15.04**	15.63	15	5 - 15	0.010	4 - 15	2/12	3 - 4	0.5 - 3
IW-3	02/09/10	15.29**	15.60	15	5 - 15	0.010	4 - 15	2/12	3 - 4	0.5 - 3
IW-4	12/01/11	14.74	15.66	15	5 - 15	0.010	4 - 15	2/12	3 - 4	1 - 3
IW-5	12/01/11	14.54	15.64	15	5 - 15	0.010	4 - 15	2/12	3 - 4	0.5 - 3

Notes:

ft amsl = feet above mean sea level

14.87* = Casing elevation changes, 02/09/2010

15.29** = Casing elevation changes, 12/06/2012

Table 2 - Groundwater Elevation Data
AEI Project # 277915

Well ID (Screen Interval)	Date Collected	Well Elevation (ft amsl)	Depth to Water <i>(ft)</i>	Groundwater Elevation <i>(ft amsl)</i>	Elevation Change <i>(ft)</i>
MW-1	8/21/2007	14.92	8.38	6.54	
(8 - 18)	11/21/2007	14.92	8.37	6.55	0.01
(= -/	2/26/2008	14.92	7.98	6.94	0.39
	6/18/2008	14.92	8.41	6.51	-0.43
	9/19/2008	14.92	8.56	6.36	-0.15
	12/29/2008	14.92	8.66	6.26	-0.10
	3/17/2009	14.92	7.84	7.08	0.82
	6/15/2009	14.92	8.31	6.61	-0.47
	9/18/2009	14.92	8.59	6.33	-0.28
	3/16/2010*	14.87	7.80	7.07	
	9/9/2010	14.87	8.75	6.12	-0.95
	3/24/2011	14.87	7.66	7.21	1.09
	12/14/2011	14.87	8.85	6.02	-1.19
	6/28/2012	14.87	8.41	6.46	0.44
	9/21/2012	14.87	8.72	6.15	- 0.31
	// Z 1/ ZO1Z	14.07	0.72	0.10	-0.31
MW-2	8/21/2007	15.27	8.78	6.49	
(7 - 17)	11/21/2007	15.27	8.72	6.55	0.06
	2/26/2008	15.27	8.37	6.90	0.35
	6/18/2008	15.27	8.82	6.45	-0.45
	9/19/2008	15.27	8.92	6.35	-0.10
	12/29/2008	15.27	8.87	6.40	0.05
	3/17/2009	15.27	8.27	7.00	0.60
	6/15/2009	15.27	8.71	6.56	-0.44
	9/18/2009	15.27	8.98	6.29	-0.27
	3/16/2010	15.27	8.19	7.08	0.79
	9/9/2010	15.27	9.04	6.23	-0.85
	3/24/2011	15.27	7.89	7.38	1.15
	12/14/2011	15.27	9.17	6.10	-1.28
	6/28/2012	15.27	8.80	6.47	0.37
	9/21/2012	15.27	9.02	6.25	-0.22
MW-3	8/21/2007	15.26	8.59	6.67	
(8 - 18)	11/21/2007	15.26	8.55	6.71	0.04
(6 .6)	2/26/2008	15.26	8.11	7.15	0.44
	6/18/2008	15.26	8.62	6.64	-0.51
	8/4/2008	15.26	8.65	6.61	-0.03
	8/20/2008	15.26	8.68	6.58	-0.03
	9/19/2008	15.26	8.74	6.52	-0.06
	12/29/2008	15.26	8.67	6.59	0.07
	3/17/2009	15.26	7.96	7.30	0.71
	6/15/2009	15.26	8.47	6.79	-0.51
	9/18/2009	15.26	8.78	6.48	-0.31
	10/30/2009	15.26	8.62	6.64	-0.31 -0.15
	3/16/2010	15.20	7.57	7.54	-0.15
	7/19/2010	15.11	8.53	6.58	-0.96
	9/9/2010	15.11	8.73	6.38	
	3/24/2011	15.11	6.73 7.35	7.76	-0.20 1.20
			7.35 8.78	6.33	1.38
	12/14/2011 6/28/2012	15.11 15.20	8.78 8.41	6.33 6.79	-1.43 0.27
	0/20/2012	13.20	0.41	U. / 9	0.37

Table 2 - Groundwater Elevation Data AEI Project # 277915

Well ID (Screen Interval)	Date Collected	Well Elevation <i>(ft amsl)</i>	Depth to Water <i>(ft)</i>	Groundwater Elevation (ft amsl)	Elevation Change <i>(ft)</i>
IW-1	10/30/2009	15.23	8.53	6.70	
	3/16/2010	15.23	7.68	7.55	0.85
	9/9/2010	15.23	8.72	6.51	-1.04
	3/24/2011	15.23	7.36	7.87	1.36
	12/14/2011	15.20**	8.85	6.35	-1.49
	6/28/2012	15.20	8.41	6.79	0.44
	9/21/2012	15.20	8.66	6.54	-0.25
IW-2	10/30/2009	15.06	8.37	6.69	
	3/16/2010	15.06	7.57	7.49	0.80
	7/19/2010	15.06	8.29	6.77	-0.72
	9/9/2010	15.06	8.62	6.44	-0.33
	3/24/2011	15.06	7.26	7.80	1.36
	12/14/2011	15.04**	8.72	6.32	-1.46
	6/28/2012	15.29	8.45	6.84	0.27
	9/21/2012	15.29	8.54	6.75	-0.09
IW-3	10/30/2009	15.30	8.68	6.62	
	3/16/2010	15.30	7.82	7.48	0.86
	7/19/2010	15.30	8.51	6.79	-0.69
	9/9/2010	15.30	8.83	6.47	-0.32
	3/24/2011	15.30	7.44	7.86	1.39
	12/14/2011	15.29**	8.91	6.38	-1.47
	6/28/2012	15.29	8.45	6.84	0.46
	9/21/2012	15.29	8.75	6.54	-0.30
IW-4	12/14/2011	14.74	8.38	6.36	
	6/28/2012	14.74	7.92	6.82	0.46
	9/21/2012	14.74	8.22	6.52	-0.30
IW-5	12/14/2011	14.54	8.18	6.36	
	6/28/2012	14.54	7.72	6.82	0.46
	9/21/2012	14.54	8.01	6.53	-0.29

Notes

14.87* = Casing elevation changes, 02/09/10 15.29** = Casing elevation changes, 12/14/2011

Table 2A - Groundwater Elevation Data AEI Project # 277915

Event #	Date	Average Water Table Elevation (ft amsl)	Change from Previous Episode (ft)	Flow Direction (gradient) (ft/ft)
1	8/21/2007	6.57	NA 0.04	S (0.003)
2	11/21/2007	6.60	0.04	S (0.005)
3	2/26/2008	7.00	0.39	S (0.005)
4	6/18/2008	6.53	-0.46	SSE (0.004)
5	9/19/2008	6.41	-0.12	S (0.003)
6	12/29/2008	6.42	0.01	SSW (0.005)
7	3/17/2009	7.13	0.71	SW (0.006)
8	6/15/2009	6.65	-0.47	SW 0.004)
9	9/18/2009	6.37	-0.29	SW (0.006)
10**	3/16/2010	7.24		SW (0.006)
11	9/9/2010	6.36		SW (0.005)
12	3/24/2011	7.65	1.29	SW (0.009)
13	12/14/2011	6.28	-1.37	SW (0.009)
14	6/28/2012	6.73	0.45	SW (0.002)
15	9/21/2012	6.48	-0.24	SW (0.002)

ft amsl = feet above mean sea level

All water level depths are measured from the top of casing

** Average calculated for all wells with 2/9/10 re-survey elevations

*** Average calculated for all wells with 12/14/2011re-survey elevations

Table 3 - Groundwater Analytical Data AEI Project # 277915

Sample	Date	Depth to	TPHg	TPHd	MTBE	Benzene	Toluene	Ethyl	Xylenes	
ID		Water						benzene		
			Metho	d 8015		M M	ethod 8021	21B		
						μg/L				
MW-1	8/21/2007	8.38	< 50	< 50	15	< 0.5	< 0.5	< 0.5	< 0.5	
	11/21/2007	8.37	< 50	< 50	12	< 0.5	< 0.5	< 0.5	< 0.5	
	2/26/2008	7.98	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.5	
	6/18/2008	8.41	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.5	
	9/19/2008	8.56	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.5	
	12/29/2008	8.66	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.5	
	3/17/2009	7.84	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.5	
	6/15/2009	8.31	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.5	
	9/18/2009	8.59	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.5	
	3/16/2010	7.80	< 50	-	-	< 0.5	< 0.5	< 0.5	< 0.5	
	9/9/2010	7.75	< 50	-	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	
	3/24/2011	7.66	< 50	-	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	
	12/14/2011	8.85	< 50	-	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	
	6/28/2012	8.41	< 50	-	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	
	9/21/2012	8.72	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5	
MW-2	8/21/2007	8.78	< 50	< 50	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	
	11/21/2007	8.72	< 50	< 50	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	
	2/26/2008	8.37	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.5	
	6/18/2008	53.00	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.5	
	9/19/2008	8.92	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.5	
	12/29/2008	8.87	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.5	
	3/17/2009	8.27	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.5	
	6/15/2009	8.71	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.5	
	9/18/2009	8.98	< 50	< 50	-	< 0.5	< 0.5	< 0.5	< 0.5	
	3/16/2010	8.19	< 50	-	-	< 0.5	< 0.5	< 0.5	< 0.5	
	9/9/2010	9.04	< 50	-	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	
	3/24/2011	7.89	< 50	-	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	
	12/14/2011	9.17	< 50	-	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	
	6/28/2012	8.80	< 50	-	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	
	9/21/2012	9.02	<50	-	<5.0	<0.5	<0.5	<0.5	<0.5	
MW-3	8/21/2007	8.59	24,000	2,100	<180	2,600	3,500	450	2,400	
	11/21/2007	8.55	36,000	3,800	< 500	4,900	1,200	230	2,700	
	2/26/2008	8.11	31,000	5,400	-	4,200	1,900	590	2,200	
	6/18/2008	8.62	20,000	3,000	-	2,900	1,100	390	990	
	8/4/2008	8.65	110,000	27,000	-	5,900	9,000	76	8,100	
	8/20/2008	8.68	120,000	6,500	-	8,900	18,000	930	12,000	
	9/19/2008	8.74	64,000	4,500	-	6,200	9,200	660	6,600	
	12/29/2008	8.67	130,000	7,900	-	11,000	19,000	1,800	11,000	
	3/17/2009	7.96	83,000	8,000	-	7,400	10,000	1,100	8,500	
	6/15/2009	8.47	67,000	21,000	-	11,000	9,100	1,200	6,80	
	9/18/2009	8.78	58,000	16,000	-	11,000	7,000	1,400	4,700	
	10/30/2009	6.64	59,000	-	-	10,000	7,100	1,200	3,900	
	2/8/2010	7.74	13,000	-	< 50	840	1,500	120	1,700	
	2/24/2010	8.03	16,000	-	< 50	1,200	1,700	200	1,900	
	3/16/2010	7.75	34,000	-	<250	3,000	4,100	580	4,100	
	4/15/2010	-	-	-	-	-	-	-	-	
	5/24/2010	-	11,000	-	<250	910	1,600	120	2,400	

Table 3 - Groundwater Analytical Data AEI Project # 277915

Sample	Date	Depth to	TPHg	TPHd	MTBE	Benzene	Toluene	Ethyl	Xylenes
ID		Water						benzene	
			Metho	d 8015			ethod 8021		
						μg/L			
MW-3	7/19/2010	8.33	270	-	< 5.0	2.7	2.9	< 0.5	4.8
continued	8/5/2010	8.35	350	_	< 5.0	15	6.3	4	46
	9/9/2010	8.67	1,200	360	-	57	8.3	18	160
	12/29/2010	-	130	-	< 5.0	0.79	1.2	< 0.5	3.1
	2/7/2011	-	< 50	-	< 5.0	2.3	1.0	< 0.5	6.4
	3/24/2011	7.35	140	< 50	< 5.0	4.9	6.7	0.6	19
	8/9/2011	-	590	200	< 5.0	38	2.3	< 0.5	60
	12/14/2011	8.78	4,900	1,000	<120	1,400	28	54	250
	6/28/2012	8.30	< 50	-	< 5.0	< 0.5	< 0.5	< 0.5	0.86
	7/27/2012	8.48	< 50	< 50	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5
	8/27/2012	8.59	51	< 50	< 5.0	2.4	< 0.5	< 0.5	4.9
	9/21/2012	8.61	<50	<50	<5.0	< 0.5	<0.5	<0.5	< 0.5
	10/24/2012	-	510	-	32	100	3.2	3.7	10
IW-1	10/30/2009	8.53	< 50	-	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5
	3/16/2010	7.68	< 50	< 50	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5
	9/9/2010	8.73	< 50	-	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5
	3/24/2011	7.36	< 50	-	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5
	12/14/2011	8.85	< 50	-	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5
	6/28/2012	8.41	< 50	-	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5
	9/21/2012	8.66	<50	-	< 5.0	<0.5	<0.5	<0.5	<0.5
IW-2	10/30/2009	8.37	15,000	-	-	1,100	2,100	630	2,400
	2/8/2010	7.70	630	-	< 5.0	4.4	17	3.7	78
	2/24/2010	-	3,500	-	< 50	22	220	57	590
	3/16/2010	7.57	20,000	-	<100	320	2,100	450	4,000
	4/15/2010	-	-	-	-	-	-	-	-
	5/24/2010	-	190	-	< 5.0	0.82	6.9	1.0	20
	7/19/2010	8.29	600	-	< 5.0	5.8	43	5.3	110
	8/5/2010	8.39	340	-	< 5.0	1.8	14	2.7	74
	9/9/2010	8.62	5,100	660	-	59	330	57.0	1,100
	12/29/2010	-	< 50	-	< 5.0	< 0.5	< 0.5	< 0.5	0.62
	2/7/2011	-	< 50	< 50	< 5.0	< 0.5	< 0.5	< 0.5	0.98
	3/24/2011	7.26 -	<50	<50 -	< 5.0	<0.5 40	<0.5 2.5	< 0.5	< 0.5
	8/9/2011 12/14/2011	- 8.72	1,700 2,900	- 710	<10 <50	40 110	2.5 5.9	1.9 29	270 430
	6/28/2012	8.28	<50	-	<5.0	< 0.5	< 0.5	< 0.5	< 0.5
	9/21/2012	8.54	91	<50	< 5.0	0.89	<0.5	<0.5	7.5
IW-3	10/30/2009	8.68	61,000	_	<1,000	10,000	14,000	1,400	9,800
111 0	11/5/2009	8.60	64,000	_	<150	4,000	7,500	1,100	1,100
	11/23/2009	-	77,000	_	<250	6,700	11,000	430	11,000
	2/8/2010	7.74	18,000	_	<50	790	910	38	2,600
	2/24/2010	-	36,000	_	<250	2,400	4,300	320	460
	3/16/2010	7.82	44,000	_	< 500	3,200	6,000	650	5,400
	4/15/2010	-	-	-	-	-	-	-	-
	5/24/2010	-	4,300	-	<60	170	430	19	680
	7/19/2010	8.51	4,100	-	< 50	190	450	28	440
	8/5/2010	8.56	5,400	-	< 50	360	780	62	730
	9/9/2010	8.83	22,000	3,230	-	1,800	3,900	310	3,300
			•	•		•	•		-

Table 3 - Groundwater Analytical Data AEI Project # 277915

Sample ID	Date	Depth to Water	TPHg	TPHd	MTBE	Benzene	Toluene	Ethyl benzene	Xylenes	
			Metho	d 8015	Method 8021B					
				<u></u>		μg/L	0111001 002			
IW-3	12/29/2010		<50		<5.0	<0.5	<0.5	<0.5	<0.5	
continued	2/7/2010	-	2,700	- 870	< 5.0 < 50	< 0.5 180	330	<0.5 18	360	
continuea	3/24/2011	- 7.44	390	290	< 5.0	3.7	330 7.4	2.4	53	
	8/9/2011	-	9,600	800	<250	2400	940	150	1,300	
	12/14/2011	8.91	36,000	4,200	<450	4,600	2,700	300	4,000	
	3/27/2012	-	390	-	< 5.0	8.8	11	1.3	58	
	6/28/2012	8.45	91	-	< 5.0	1.1	1.6	< 0.5	3.7	
	7/27/2012	8.6	< 50	< 50	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	
	8/27/2012	8.72	1,100	130	< 45	100	160	5.1	150	
	9/21/2012	8.75	4,300	360	<50	460	580	32	560	
	10/24/2012	-	4,400	-	51	540	880	26	730	
IW-4	12/14/2011	8.38	95,000	5,600	<1,000	13,000	13,000	1,200	7,400	
	3/27/2012	-	1,700	-	< 5.0	64	150	29	160	
	6/28/2012	7.92	1,400	-	< 5.0	49	190	29	140	
	7/27/2012	8.03	270	< 50	< 5.0	2.0	4.3	1.5	3.4	
	8/27/2012	8.16	2,900	280	< 50	230	520	46	260	
	9/21/2012	8.22	4,500	150	<50	350	820	64	370	
	10/24/2012	-	21,000	-	ND<250	2,000	4,000	350	2,100	
IW-5	12/14/2011	8.18	250	190	< 5.0	11	0.56	< 0.5	8.0	
	6/28/2012	7.72	<50	-	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	
	9/21/2012	8.01	<50	<50	<5.0	<0.5	<0.5	<0.5	<0.5	
	W) Gross Conta		2,500	2,500	1,800	2,000	400	300	5,300	
GW ESL (NE	W) Aquatic Hab	itat	210	210	1,800	46	130	43	100	

Notes:

TPHg = total petroleum hydrocarbons as gasoline (C6-C12)

TPHd = total petroleum hydrocarbons as diesel (C10-C23)

Benzene, toluene, ethylbenzene, and xylenes using EPA Method 8021B

MTBE = methyl-tertiary butyl ether

mg/L= micrograms per liter

ND<50 = non detect at respective reporting limit

Table 4 - Groundwater Analytical Data - Fuel Additives
AEI Project # 277915

Sample	Date	TAME	TBA	EDB	1,2-DCA	DIPE	ETBE	MTBE
ID		1711712	107		mg/L	<u> </u>	2.02	
					ilig/ L			
MW-1	08/21/07	< 0.5	< 5.0	< 0.5	5.2	< 0.5	< 0.5	18
	11/21/07	-	-	-	-	-	-	-
	02/26/08	-	_	< 0.5	6.9	-	-	16
	06/18/08	-	_	< 0.5	5.4	-	-	15
	09/19/08	-	_	< 0.5	6.8	-	-	4.2
	12/29/08	-	-	< 0.5	6.8	-	-	0.62
	03/17/09	-	-	< 0.5	4.6	-	-	11
	06/15/09	-	-	< 0.5	5.8	-	-	8.1
	09/18/09	-	-	< 0.5	5.2	-	-	0.7
	03/24/11	< 0.5	< 2.0	< 0.5	9.3	< 0.5	< 0.5	1.9
	06/28/12	< 0.5	< 2.0	< 0.5	7.0	< 0.5	< 0.5	0.73
	09/21/12	< 0.5	<2.0	< 0.5	13	< 0.5	< 0.5	1.2
MW-2	08/21/07	< 0.5	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	11/21/07	-	-	-	-	-	-	-
	02/26/08	-	-	< 0.5	< 0.5	-	-	< 0.5
	06/18/08	-	-	< 0.5	< 0.5	-	-	< 0.5
	09/19/08	-	-	< 0.5	< 0.5	-	-	< 0.5
	12/29/08	-	-	< 0.5	< 0.5	-	-	< 0.5
	03/17/09	-	-	< 0.5	< 0.5	-	-	< 0.5
	06/15/09	-	-	< 0.5	< 0.5	-	-	< 0.5
	09/18/09	-	-	< 0.5	< 0.5	-	-	< 0.5
	03/24/11	< 0.5	<2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	06/28/12	< 0.5	<2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	09/21/12	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
MW-3	08/21/07	< 5.0	< 50	34	140	< 5.0	<5.0	< 5.0
	11/21/07	-	-	-	-	-	-	-
	02/26/08	-	_	31	220	_	_	<12
	06/18/08	-	_	21	190	-	-	< 5.0
	08/04/08	-	_	220	410	-	-	< 50
	08/20/08	-	_	330	410	-	-	< 50
	09/19/08	-	-	160	320	-	-	<17
	12/29/08	-	-	200	440	-	-	< 50
	03/17/09	-	-	98	370	-	-	<25
	06/15/09	-	-	87	490	-	-	< 50
	09/18/09	-	-	110	500	-	-	<17
	10/30/09	-	-	96	470	-	-	< 50
	02/08/10	-	-	42	42	-	-	< 50
	03/16/10	<25	430	110	130	<25	<25	<25
	03/24/11	< 0.5	10	2.2	0.61	< 5.0	< 5.0	< 5.0
	06/28/12	< 0.5	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	09/21/12	<0.5	<2.0	1.1	4.4	< 0.5	< 0.5	< 0.5

Table 4 - Groundwater Analytical Data - Fuel Additives
AEI Project # 277915

Sample	Date	TAME	TBA	EDB	1,2-DCA	DIPE	ETBE	MTBE
ID					mg/L			
IW-1	10/30/09	-	-	< 0.5	< 0.5	-	-	< 0.5
	03/16/10	< 0.5	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	03/24/11	< 0.5	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	06/28/12	< 0.5	< 2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	09/21/12	<0.5	<2.0	<0.5	<0.5	< 0.5	<0.5	< 0.5
IW-2	10/30/09	_	-	13	51	-	-	<10
	02/08/10	-	-	5.1	3.9	-	-	
	03/16/10	<10	70	20	15	<10	<10	<10
	03/24/11	< 0.5	5.2	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	06/28/12	< 0.5	2.5	1.3	< 0.5	< 0.5	< 0.5	< 0.5
	09/21/12	<0.5	8.0	0.71	8.0	<0.5	< 0.5	< 0.5
IW-3	10/30/09	_	-	220	480	_	_	<10
111 0	02/08/10	_	_	94	82	_	_	110
	03/16/10	<25	120	230	220	<25	<25	<25
	03/24/11	< 0.5	47	22	13	< 0.5	< 0.5	< 0.5
	03/27/12	< 0.5	13	8.2	4.5	< 0.5	< 0.5	< 0.5
	06/28/12	< 0.5	4.2	2.4	1.5	< 0.5	< 0.5	< 0.5
	09/21/12	<2.5	25	52	51	<2.5	<2.5	<2.5
IW-4	03/27/12	<0.5	9.7	8.4	4.0	< 0.5	< 0.5	<0.5
1 00 - 4	06/28/12	< 0.5	4.7	2.3	0.62	< 0.5	< 0.5	< 0.5
	09/21/12	<1.2	4.7 19	48	30	<1.2	<1.2	<1.2
	09/21/12	< 1.2	17	40	30	< 1.2	< 1.2	< 1.2
IW-5	06/28/12	< 0.5	2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	09/21/12	< 0.5	<2.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
GW ESL (NDW	/) GC		54,000	50,000	50,000		_	1,800
GW ESL (NDW) AH		-	18,000	150	200	-	-	1,800
DW - Ceiling V		-	50,000	50,000	50,000	-	-	5
DW -VI		-	use soil gas	150	150	-	-	24,000
DW Toxicity		-	12	0.05	0.5	-	-	13

Notes: TAME - tert-amyl methyl ether

mg/L= micrograms per liter TBA - tert-butyl alcohol

ND<50 = non detect at respective reporting DIPE - diisopropyl ether

MTBE - methyl tertiary butyl ether

ETBE - ethyl tert-butyl ether

APPENDIX A

GROUNDWATER MONITORING WELL FIELD SAMPLING FORMS

AEI CONSULTANTS GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number: MW-3

Project Name:	ALLEN	Date of Sampling: 7-73-12
Job Number:	277925	Name of Sampler: J. Sigg
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORIN	IG WELL DATA		
Well Casing Diameter (2"/4"/6")	2"		
Wellhead Condition	OK T		
Elevation of Top of Casing (feet above msl)	15.26		
Depth of Well	18.00		
Depth to Water (from top of casing)	8.48		
Water Elevation (feet above msl)	15.26		
Well Volumes Purged	Micropurged with peristaltic pump		
Actual Volume Purged (liters)	5		
Appearance of Purge Water	Cieae		
Free Product Present?			

		G	ROUNDWA	ATER SAMPL	ES		
umber of Samp	les/Container	Size					
Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
0650		17.85	8.21	488	8.66	283.4	
	2	74.83	8.07	493	8.73	288.7	
	3	17.83	7.89	490	9.07	280.1	
	4	17.83	7.87	495	9.13	277.3	
0700	9	17.83	7.83	498	9.25	272.7	
					÷: 💥		

IDuraging (a) 100 ft has	
Purge line @ 10.0 ft b gs	

AEI CONSULTANTS GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number:

IW-3

Project Name:	ALLEN	Date of Sampling: 7-27-12
Job Number:	277925	Name of Sampler: J. Sigg
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORIN	G WELL D	ATA			
Well Casing Diameter (2"/4"/6")		2"			
Wellhead Condition	ОК				
Elevation of Top of Casing (feet above msl)	15.29				
Depth of Well	18.00				
Depth to Water (from top of casing)	8.60				
Water Elevation (feet above msl)	6.38				
Well Volumes Purged	Micropurged with peristaltic pump				
Actual Volume Purged (liters)		5			
Appearance of Purge Water	Clear				
Free Product Present?	No	Thickness (ft):			

Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
0750	1	17.82	7.98	521	18.65	283.4	
	7	17.84	8.01	532	18.73	261.7	
	3	17.84	8.0Z	538	18.82	255.4	
	4	17.84	8.01	541	8.87	250.3	
0 800	5	17.85	8.02	545	18.90	244.7	

Purge line @ 10.0 ft b gs	

<u>AEI CONSULTANTS</u> GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number:

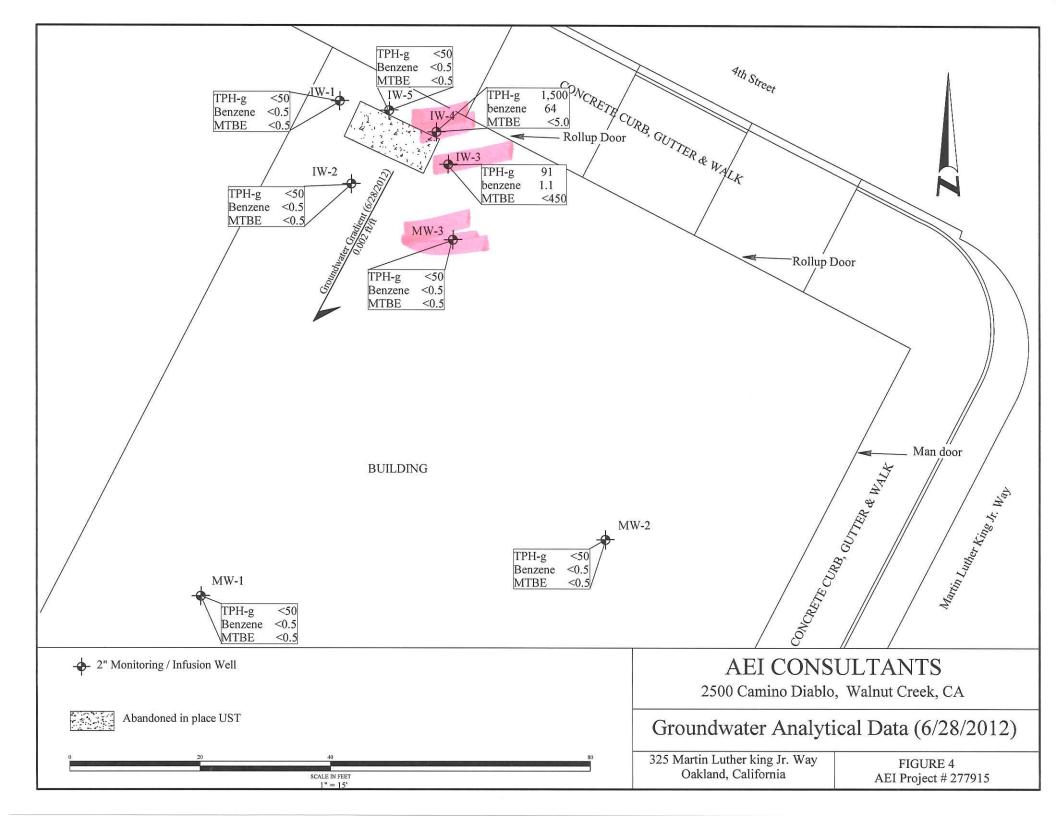
IW-4

Project Name:	ALLEN	Date of Sampling: 7-Z7-12
Job Number:	277925	Name of Sampler: J. Sigg
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORIN	IG WELL DATA				
Well Casing Diameter (2"/4"/6")	2"				
Wellhead Condition	ОК				
Elevation of Top of Casing (feet above msl)	14.74				
Depth of Well	15.00				
Depth to Water (from top of casing)	8.03				
Water Elevation (feet above msl)	6.36				
Well Volumes Purged	Micropurged with peristaltic pump				
Actual Volume Purged (liters)	5				
Appearance of Purge Water	Clear				
Free Product Present?	No Thickness (ft):				

nber of Sampl	- _Y	JIZE			T		
Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
0850	1	18.62	6.82	225	16.65	302.4	
	Ś	18.66	6.80	230	17.03	300.1	
	3	18.64	6.81	233	17.18	298.7	
	4	18.64	6.81	238	17.20	296.5	
0900	5	18.65	6.81	240	17.22	293.1	

	 	 	
I Durgo lino @ 10 0 ft has			
Purge line @ 10.0 ft b gs			
· · · · · · · · · · · · · · · · · · ·		 	



AEI CONSULTANTS GROUNDWATER MONITORING WELL FIELD SAMPLING FORM

Monitoring Well Number:

MW-3

Project Name:	ALLEN	Date of Sampling: 8/27/2012
Job Number:	277925	Name of Sampler: RFF
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITOR	RING WELL DATA				
Well Casing Diameter (2"/4"/6")	2"				
Wellhead Condition	OK				
Elevation of Top of Casing (feet above msl)	15.11				
Depth of Well	18.00				
Depth to Water (from top of casing)	8.59				
Water Elevation (feet above msl)	15.11				
Well Volumes Purged	Micropurged with peristaltic pump				
Actual Volume Purged (liters)	5.0				
Appearance of Purge Water	light yellow. Clear				
Free Product Prese					

Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
1025	1.0	19.04	8.14	590	6.27	52.3	Clear
	2.0	18.91	7.77	609	5.74	60.4	1)
	3.0	18.74	8.06	627	6.42	44.3	<i>t</i> (
	4.0	18.71	8.11	641	6.29	42.3	t (
1035	5.0	18.64	7.93	639	6.98	58.5	1(

		· · · · · · · · · · · · · · · · · · ·
	 	100
D C. 40 0 ft b		
PHIME INC IN THAT TO ME		
Purge line @ 10.0 ft b gs		

Monitoring Well Number:

IW-3

Project Name:	ALLEN	Date of Sampling: 27/2012
Job Number:	277925	Name of Sampler: RFF
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORIN	G WELL DATA								
Well Casing Diameter (2"/4"/6")		2"							
Wellhead Condition	ОК								
Elevation of Top of Casing (feet above msl)	15.29								
Depth of Well	18.00								
Depth to Water (from top of casing)	8.72								
Water Elevation (feet above msl)	15.29								
Well Volumes Purged	N	licropurged with peristaltic pump							
Actual Volume Purged (liters)	5.0								
Appearance of Purge Water		Clear							
Free Product Present?	No	Thickness (ft):							

Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comment
1055	1.0	18.97	6.56	243	7.22	132.2	Clem
	2.0	19.04	6.68	231	6.78	106.5	1 (
	3.0	19.08	6.71	Z30	6.11	96.1	l
	4.0	19.06	677	239	6.19	96.2	(1
1105	5.0	18.98	6.82	252	7.4	102.9	/1

Hydrocarbon odor			
Purge line @ 10.0 ft bgs			

Monitoring Well Number:

IW-4

Project Name:	ALLEN	Date of Sampling: 8/27/2012
Job Number:	277925	Name of Sampler: RFF
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORIN	G WELL DATA								
Well Casing Diameter (2"/4"/6")		2"							
Wellhead Condition	ОК								
Elevation of Top of Casing (feet above msl)	14.74								
Depth of Well		15.00							
Depth to Water (from top of casing)	8.16								
Water Elevation (feet above msl)	14.74								
Well Volumes Purged	Micropurged with peristaltic pump								
Actual Volume Purged (liters)		5.0							
Appearance of Purge Water		Clear							
Free Product Present?	No	Thickness (ft):							

Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
1125	1.0	19.44	6.80	185	4.38	119.2	Clear
	2.0	19.05	7.01	233	6.97	110.3	Ll
	3.0	19.00	7.06	229	8.00	114.5	1(
	4.0	19.02	6.92	220	7.90	148.1	11
135	5.0	19.07	7.00	218	7.76	114.1	- [[
						:	

Strong hydrocarbon odor	
Purge line @ 10.0 ft b gs	

McCAMPBELL ANALYTICAL INC. 1534 Willow Pass Road Pittsburg, CA 94565

CHAIN OF CUSTODY RECORD TURN AROUND TIME

Telephone: (92	5) 252-92	62]	Fax:	(925	5) 25	2-92	269											•	R	.USI	-[24	HR	49	3 HR	-	/2 HI	Đ	5 DAY
Dancot T. D. L. T.													E	DF R	equi	red	?		Ye	s	Ę,		lo	T				Repo				JDAI
Report To: Robert Flor Company: AEI Consult					o: Sa			_			- P						MA MONE, NO.	An	alys	is R	equ	iest		عباد روست					-	ner	ALPHANELA N	Comments
2500 Camino			P	<u>O#:</u>	JACK	783 .	57° V	VC	02	(5)	4 2	<u> </u>	_		Œ								Marie Agence	<u> </u>				***************************************	-			Comments
Walnut Cree		597		E-Ma	il: rfl	orva	maeic	OBEI	litent	E 001	~	····	-	g.	F/B&													m cs	260)			
Tel: (925) 746-6000	:				(925)				GIAIII	3.001		············	8015)	lean	E&I								8310	4.0		.		onai 200.	-4.			
Project #:277915				Proie	ct Na								- 80	get	5520	418.							707	ĺ				i Gil	19			
Project Location: 325 M	lartin Lu	ther	King Jr.	Way									8020	lica	ise (ons ((£)	020					7.82			<u>~</u>		Tota	6 1,	0-13		
Sampler Signature:	ZEMA	<u> </u>	ma		<u> </u>								(602	W/ Si	Greg	carb	10 [2/8	380				625	ļ		0010	9	um, Selv	E .	E >		
		AMP	LING	Y	ers		MA7	ri	X ·	PR)	ETH	IOD RVED	as Gas (602/8020 +	(510)	Sil &	Tydro	0 (80	≥A 60)8 / 80	080	8260		EP.			139.21	(E218	aduni Lead,	EDE.	BTE		
SAMPLE ID (Field Point Name)	TION Dat	te	Time	# Containers	Type Containers	Water	Soil	Alf	Other			HNO ₃	& TPH	TPH as Diesel (8015) w/ silica gel cleanup	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260 (8010 list)	BTEX ONL.Y (EPA 602 / 8020)	Pestivides EFA 608 / 8080	PCBs EPA 608 / 8080	VOCs EPA 624 / 8260	EPA 625 / 8270	PAH's / PMA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	Diss Hexachrome (E218.6)	Arsenie, Barlum, Cadmium, Total Chomium, Copper, total Iron, Lead, Selenium (E200.8)	5 Fuel Additives, EDB, and 1,2-DCA (8260)	TPH-g (TO-3) + MBTEX (TO-15)	2-propanol (TO-15)	
MW-3	8.2	7.12	1035	4		X		+-		X			X		+-						_		Jú.,		l		<u> </u>	40	ΨΩ.	<u> </u>	2	
IW-4			1135	4		X		 	+-			-	忟		-							_										
IW-3	-	1	1105	4		X			+	X		+	文		-	<u> </u>								_				ļ				
			1100		<u> </u>	X	+	+	\vdash	X		-	尸										_				······································					
			 		\vdash	Χ	+		-	X		+-	-	ļ	 								_	.								
			 -	 -	ļ	X	-	- -		X			╂—		-																	
				 	-	X		-	+-1	X	- 1		 		ļ																	
			<u> </u>	 -	 -	X		-	+			 	-																			
			<u> </u>		 					X			ļ										_		Ì							
				<u> </u>	<u> </u>			1			_	╧	_																		1	
				<u> </u>				_ _																								
								\perp				_																				
					<u> </u>															Ī	7		-+	7								
																					_	_		-	+						\dashv	
																					-	-+	-+		\dashv					+	\dashv	
Relinquished By:	Date	10	Times 1207	Rece	ived B	Year of	7	*****	***************************************			1	-		استحسا		* ****						MIX. 4									×
Relinq ished By:	Date		Time:	Rece	ived B		100				A service of the serv	-6	lo	CE/t°_ SOOD	CO	TOP	TIO	N				RE	0 1	>¥ ∀ .	ניתי ו)]N	!	O&G	N	IETA)	LS	OTHER
Relinquished By:	Date		Time:	Rece	ived By	y:		AWI					ľ	IEAD DECHI	SPA LOR	CE . INA	A.BS	ENT O IN	LA)	B	(ON PE	TA RSI	NE: EIRV	RS_ ED	IN 1	LAB_	·				

Monitoring Well Number: MW-1

		9.21-12
Project Name:	ALLEN	Date of Sampling: 3/27/2012
Job Number:	277925	Name of Sampler: RFF 35
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORIN	IG WELL DATA								
Well Casing Diameter (2"/4"/6")		2"							
Wellhead Condition	ок								
Elevation of Top of Casing (feet above msl)	14.87								
Depth of Well	18.00								
Depth to Water (from top of casing)	8.72								
Water Elevation (feet above msl)	14.87								
Well Volumes Purged	Micropurged with peristaltic pump								
Actual Volume Purged (liters)		5.0							
Appearance of Purge Water		Clear							
Free Product Present?	No	Thickness (ft):							

nber of Samp	oles/Container	Size					
Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
0805	1.0	18.53	5.56	1167	4.31	448.1	Cleon
	2.0	18.54	5.63	عاما ۱۱	3.04	434.6	1/
	3.0	18.57	5.56	116	2.59	428.7	٤١
	4.0	18.59	5.51	1165	1.92	422.9	1/
0815	5.0	18.61	S.47	1165	1.64	422.4	

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)	
\cdot	
urge line @ 10.0 ft b gs	

Monitoring Well Number:

MW-2

		9-21-12
Project Name:	ALLEN	Date of Sampling: 3/27/2012
Job Number:	277925	Name of Sampler: RFF 5
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORIN	G WELL DA	TA
Well Casing Diameter (2"/4"/6")		2"
Wellhead Condition	OK	
Elevation of Top of Casing (feet above msl)		15.27
Depth of Well		17.00
Depth to Water (from top of casing)		9.02
Water Elevation (feet above msl)		15.27
Well Volumes Purged		Micropurged with peristaltic pump
Actual Volume Purged (liters)		5.0
Appearance of Purge Water		Clear
Free Product Present?	No	Thickness (ft):

Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
0835	1.0	1878	5.54	1036	681	5 34.2	Clear
	2.0	18:79	5.42	1032	4.56	527.4	n/
	3.0	18.81	6,47	1029	3.81	527.7	Į١
	4.0	18.84	5.49	1026	3.30	529.2	£7
0845	5.0	18.87	5.48	1025	2.97	530 -7	11

Purge line @ 10.0 ft b gs

Monitoring Well Number: MW-3

		9/2/12
Project Name:	ALLEN	Date of Sampling: 3/27/201 2
Job Number:	277925	Name of Sampler: RFF
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORING	G WELL DA	TA		
Well Casing Diameter (2"/4"/6")		2"		
Wellhead Condition	ОК	▼		
Elevation of Top of Casing (feet above msl)	15.11			
Depth of Well	18.00			
Depth to Water (from top of casing)				
Water Elevation (feet above msl)		15.11		
Well Volumes Purged	Micropurged with peristaltic pump			
		8.61		
Actual Volume Purged (liters)		5.0		
Appearance of Purge Water		light yellow		
Free Product Present?	No	Thickness (ft):		

iber of Samp	les/Container Volume					<u> </u>	
Time	Removed (liters)	Temperature (deg C)	pН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
0905	1.0	18.70	5.47	680	5.68	537.2	clear
	2.0	18.70	5.50	P84	5.27	525.3	<i>1</i> 1
	3.0	18.71	5.51	676	5, 17	519.4	1 /
	4.0	8.73	ら・53	664	5.08	513.7	p (
0915	5.0	18.75	5.55	666	4.97	508.2	1/

Purge line @ 10.0 ft b gs	

Monitoring Well Number: IW-1

		9-21-12
Project Name:	ALLEN	Date of Sampling: 3/27/2012*
Job Number:	277925	Name of Sampler: RFF
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORIN	G WELL I	DATA	
Well Casing Diameter (2"/4"/6")		2"	
Wellhead Condition	ОК	▼	
Elevation of Top of Casing (feet above msl)		15.20	
Depth of Well		18.00	
Depth to Water (from top of casing)	-	8.66	
Water Elevation (feet above msl)		15.20	
Well Volumes Purged	ed Micropurged with peristaltic pump		
Actual Volume Purged (liters)		5.0	
Appearance of Purge Water		Clear	
Free Product Present?	No	Thickness (ft):	

Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
0935	1.0	18.62	5.63	712	5.58	539.2	Clear
	2.0	18.63	5.61	726	607	527.7	1.7
	3.0	18-64	5.62	727	6.19	524,5	<i>l (</i>
. Militaria.	4.0	8.66	5.60	726	6.23	<i>5</i> 23.3	1(
0945	5.0	18.68	5.61	726	6.25	524.7	((

Purge line @ 10.0 ft b gs	
	

Monitoring Well Number:

IW-2

		9.21-12
Project Name:	ALLEN	Date of Sampling: 3/27/2012
Job Number:	277925	Name of Sampler: RFF-J5
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORIN	ATA			
Well Casing Diameter (2"/4"/6")		2"		
Wellhead Condition	ок	▼		
Elevation of Top of Casing (feet above msl)	ANALYSIS ANALYSI ANALY	15.04		
Depth of Well		18.00		
Depth to Water (from top of casing)		854		
Water Elevation (feet above msl)		15.04		
Well Volumes Purged	Micropurged with peristaltic pump			
Actual Volume Purged (liters)		5.0		
Appearance of Purge Water		Clear		
Free Product Present?	No	Thickness (ft):		

Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
1005	1.0	18.50	5.66	5.23	6.14	6364	Chear
	2.0	18:53	5.65	6-6-7	6.67	612.0	4
	3.0	18.55	5.62	508	5.96	604.4	(1
	4.0	18.58	560	513	5.84	599.2	e l
1015	5.0	18.60	56	507	5.70	596.0	Ll

Purge line @ 10.0 ft bgs	

Monitoring Well Number:

IW-3

		9-01-11
Project Name:	ALLEN	Date of Sampling: 3/27/2012
Job Number:	277925	Name of Sampler: RFFー J . S -
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORING	G WELL D	ATA
Well Casing Diameter (2"/4"/6")	2"	
Wellhead Condition	ОК	▼
Elevation of Top of Casing (feet above msl)		15.29
Depth of Well		18.00
Depth to Water (from top of casing)		8:75
Water Elevation (feet above msl)		15.29
Well Volumes Purged		Micropurged with peristaltic pump
Actual Volume Purged (liters)		5.0
Appearance of Purge Water		Clear
Free Product Present?	No	Thickness (ft):

Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
1035	1.0	18.83	5.67	349	4.78	575.0	clear
	2.0	18.86	472	297	4-72	571.8	11
	3.0	18.92	5.60	286	496	595.	73
	4.0	1896	5.61	280	4.92	604.6	Ll
1045	5.0	18.99	5.60	277	4.79	611.0	()
		411,000					

Hydrocarbon odor		
Purge line @ 10.0 ft bgs		

Monitoring Well Number:

IW-4

Project Name:	ALLEN	Date of Sampling: 3/27/2 012
Job Number:	277925	Name of Sampler: RFF
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORIN	TA	
Well Casing Diameter (2"/4"/6")		2"
Wellhead Condition	ОК	▼
Elevation of Top of Casing (feet above msl)		14.74
Depth of Well		15,00
Depth to Water (from top of casing)		8.22
Water Elevation (feet above msl)		14.74
Well Volumes Purged		Micropurged with peristaltic pump
Actual Volume Purged (liters)		5.0
Appearance of Purge Water		Clear
Free Product Present?	No	Thickness (ft):

Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
1105	1.0	19.01	5.40	253	6.29	760.1	Clear
	2.0	19.05	5.41	248	6.26	643.8	1 2
	3.0	19.07	5.37	242	6.29	607.1	ų
	4.0	19.08	5.39	236	6.22	972.3	e l
1115	5.0	19.11	5.40	231	6.11	587.6	L
						-	

Strong hydrocarbon odor		
Purge line @ 10.0 ft b gs		

Monitoring Well Number:

IW-5

9-21-12

Project Name:	ALLEN	Date of Sampling: 3/27/2012
Job Number:	277925	Name of Sampler: RFF-US
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORIN	G WELL DA	TA
Well Casing Diameter (2"/4"/6")		2"
Wellhead Condition	OK	▼
Elevation of Top of Casing (feet above msl)		14.54
Depth of Well		15.00
Depth to Water (from top of casing)		3.01
Water Elevation (feet above msl)		14.54
Well Volumes Purged		Micropurged with peristaltic pump
Actual Volume Purged (liters)		5.0
Appearance of Purge Water		Clear
Free Product Present?	No	Thickness (ft):

ber of Samp	les/Container	Size	······			· · · · · · · · · · · · · · · · · · ·	
Time	Volume Removed (liters)	Temperature (deg C)	pН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
1135	1.0	18.90	5.38	226	5.55	F.000	Clear
	2.0	18.89	5.42	226	6.20	597.7	1.
	3.0	18.90	5.40	227	6.30	597 · X	βĹ
	4.0	1891	5.41	Z26	6.35	597.5	• 1
1145	5.0	18,91	5.39	226	637	597.9	1 (
							1000

Purge line @ 10.0 ft b gs	

McCAMPBELL ANALYTICAL INC.

1534 Willow Pass Road Pittsburg, CA 94565

CHAIN OF CUSTODY RECORD TURN AROUND TIME

Telephone: (925) 252-9262 Fax: (925) 252-9269 5 DAY RUSH 24 HR 48 HR 72 HR (EDF Required? Yes 🔲 No Email PDF Report: WES Report To: Robert Flory Bill To: Same Analysis Request Other Comments Company: AEI Consultants PO#: WCO 85766 Total Petroleum Oil & Grease (5520 E&F/B&F) 2500 Camino Diablo 5 Fuel Additives, EDB, and 1,2-DCA (8260) Arsenic, Barium, Cadmium, Total Chromium, TPH as Diesel (8015) w/ silica gel cleanup Walnut Creek, CA 94597 Lead, Selenium (E200.8) E-Mail: rflory@aeiconsultants.com PAH's / PNA's by EPA 625 / 8270 / 8310 Tel: (925) 746-6000 Total Petroleum Hydrocarbons (418.1) Fax: (925) 946-6099 Project #:277915 Project Name: Allen TPH-g (TO-3) + MBTEX (TO-15) MBTEX & TPH as Gas (602/8020 + BTEX ONLY (EPA 602 / 8020) Project Location: 325 Martin Luther King Jr. Way HVOCs EPA 8260 (8010 list) Lead (7240/7421/239.2/6010) 20m Sampler Signature: Diss Hexachrome (E218.6) Pesticides EPA 608 / 8080 VOCs EPA 624 / 8260 PCBs EPA 608 / 8080 SAMPLING METHOD **MATRIX** Type Containers PRESERVED # Containers CAM-17 Metals EPA 625 / 8270 LUFT 5 Metals SAMPLE ID LOCATION (Field Point Name) Sludge Water Date Time HNO3 Other Other Soil HC Air Ice MW-19-21-12 0815 X $\mathbf{X} \mid \mathbf{X}$ X MW-2 X X X X MW-3 X $\overline{\mathbf{X}}$ $\mathbf{X} \mathbf{X}$ X IW-1 3 X \mathbf{X} X \mathbf{X} 1W-2 4 X X XX X IW-3 X 1045 Χ XX X IW-4 X X XX X TW-5 X XX $\mathbf{X} \mathbf{X}$ Reliziquished By: Date: Times VCL() Received By WW. 21-6 992 VOAS O&G METALS OTHER ICE/t° Religiquished By: Received By: PRESERVATION Date: Time: GOOD CONDITION APPROPRIATE HEAD SPACE ABSENT CONTAINERS Relinquished By: Date: Time: Received By: DECHLORINATED IN LAB PERSERVED IN LAB

APPENDIX B

LABORATORY ANALYSES WITH CHAIN OF CUSTODY DOCUMENTATION

Analytical Report

AEI Consultants	Client Project ID: #277915; Allen	Date Sampled: 07/27/12
2500 Camino Diablo, Ste. #200		Date Received: 07/27/12
2500 Camino Biacio, Stel. #200	Client Contact: Robert Flory	Date Reported: 08/01/12
Walnut Creek, CA 94597	Client P.O.: #WCO83684	Date Completed: 07/31/12

WorkOrder: 1207697

August 02, 2012

Dear Robert:

Enclosed within are:

- 1) The results of the 3 analyzed samples from your project: #277915; Allen,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager

McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

														_														1	0 /			_				
	McCAN	1534 V	L ANA Willow Pass burg, CA 9	s Road		LI	NC								TU	JR	N A	R	ου					OF	C	US	ST	OI)Y I	RE	CO	R	D			
Telepho	ne: (925) 25		ourgi ciri	1000	F	ax:	(92	25) 2	52-9	26	9								-1/1						RI	JSH		24 F	IR	48 I	IR	7	2 HF	5	DAY	7
														T	EDI	FR	equ	ire	d?	Ę	3	Yes	[N	0	En	nail	PDF	Rep	ort:	YE	ES			
Report To: Robe	rt Flory		I	Bill T	o: Sa	me								T						An	alys	sis I	Req	ues	t						0	ther		Cor	nmen	ts
Company: AEI C	Consultants		P	O#:	WCC	0083	368	4						Γ	1		£		Т	П	-	П												П		
	Camino Dia													4	9	d	/B&													inm,	(00.8) A (8260)	000				
	ut Creek, C	A 94597		WWW. CO. CO. CO. CO. CO. CO. CO. CO. CO. CO	il: rfl	_	_		sultar	nts.c	com	1		- 6	6	cani	E&F								8310					romi	200.					
Tel: (925) 746-60	000				(925)									100	100	5 5	250	20							10/					5	n (E			1		
Project #:277915	227.75	T 41			ct Nar	me:	Al	len			_			- 8	107	E .	e (5)	ns (4		20)					/ 82			_		Tota	ning	0-1		1		
Project Location:	325 Martin	Luther	King Jr.	Way						_		_		1 20	107/00	ll s	reas.	arbo	list	80	00				625			9010	(9:	H,	Sele an	E		1		
Sampler Signatur	e: 00	SAME	saga	Î	_	_				T	MI	ЕТН	IOD	1	98 (9	w (c	₹.	droc	801	602	/ 808	00	09		PA			9.7/6	218	imb.	cad,	E E		1		
		SAME	LING U		ners	ᆫ	MA	TR	IX				RVEI	0 8	2 80	100)	0 :	HÀ	260	EPA	809	/ 800	1/82		by E	ss	10.00	1/23	ne (E	S,	On, L	+ W	-15)			
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Air	Sludge	Officer	lce	HCI	HNO ₃	Marry & Tell as Control	TDH as Dissal (6015) w/ ellion and cleaning	I L II as Diesel	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260 (8010 list)	BTEX ONLY (EPA 602 / 8020)	Pesticides EPA 608 / 8080	PCBs EPA 608 / 8080	VOCs EPA 624 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	Diss Hexachrome (E218.6)	Arsenic, Barium, Cadmium, Total Chromium,	Copper, total Iron, Lead, Selenium (E2 5 Fuel Additives, EDB, and 1.2-DC	TPH-g (TO-3) + MBTEX (TO-15)	2-propanol (TO-15)			
MW-1				-	\vdash	\vdash			+	+	+	+		$^{+}$		+	+			+			+							\vdash			_	 		
MW-2					\vdash	\vdash			-	+	+	+	+	+	+	+	+	+	+	+	+	+	+							\vdash	+	+	+	\vdash		
MW-3		7.27.1	200	H	\vdash	X				+	X	X	+	+,	X y	X	+	+	+	+	+	+	+							\vdash		+	+	\vdash		
IW-1		1	0 100	-	\vdash					+		+		+			+	+					+							\vdash	+	+	+	\vdash		
IW-2		\vdash	-	\vdash	\vdash	\vdash		-	+	+	+	+	+	+	+	+	+	+	1	+	+	+	+							\vdash	+	+	+			
IW-3		\vdash	0800	4	\vdash	X		-	+	+	X .	X	+	1	X y	X	+	+	+	+	+	+	+	-						\vdash	+	+		-		
IW-4		6	0900		+	X		_	+	_	X	_	+	_	X y		+	+	+	+	+	+	+							\vdash	+	+	+	-		
IW-5		_	0100	-	\vdash					+			+	+	-	+		+	+		+	+	+							\vdash	+	+	+	-		
					\vdash				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+							-	+	+	+	-		
					\vdash				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	-							+		+	\vdash		
					\vdash	Н		-	+	+	+	+	+	+	+	+	+	+	+	-	+	+	+		-						+		+	-		
					\vdash				+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		\dashv	-	_			\vdash	+	-	+	\vdash		
	9			-	\vdash	\vdash	_	-	-	+	+	+	+	╀	+	+	+	+	+	+	+	+	+	-	-	-				\vdash	+	-	+	-		
					_	\vdash		-	-	+	+	+	+	╀	+	+	+	+	-	+	+	4	-		-					-	+	-	+	-		
D. II - 1 V 1 D. A			-			Ш					_			7																\perp						
Relimpuished By:	ONEC	TAT!	Time:	Rece	eived B	y:	1	() \	6	1	1)		IC	F/40)	,2	3-	2		/	/	/ E	DF	SED	VA	TIO	VQA	8	0&G	N	META	LS O	THER	
Relinquished By:	0	Date:	Time:	Rece	eived B	y.				4					GC	100) C(ONE	DITI E Al	ON		_	/	A		ROI	PRL	ATE							_	
Relinquished By:		Date:	Time:	Rece	eived B	y:								1					AT			LAE	_						IN L	B_		-				

McCampbell Analytical, Inc.

FAX: (925) 283-6121

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

Walnut Creek, CA 94597

(925) 283-6000

CHAIN-OF-CUSTODY RECORD

✓ Email

HardCopy

Page 1 of 1

☐ J-flag

☐ ThirdParty

WorkOrder: 1207697 ClientCode: AEL

☐ Excel

Bill to: Requested TAT: 5 days

Report to: Robert Flory Email: rflory@aeiconsultants.com Sara Guerin

✓ EDF

AEI Consultants AEI Consultants cc: 2500 Camino Diablo, Ste. #200

WriteOn

□WaterTrax

Date Received: 07/27/2012 PO: #WCO83684 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597 ProjectNo: #277915; Allen Date Printed: 07/27/2012

EQuIS

AccountsPayable@AEIConsultants.c

					Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1207697-001	MW-3	Water	7/27/2012 7:00		Α	Α	В									
1207697-002	IW-3	Water	7/27/2012 8:00		Α		В									
1207697-003	IW-4	Water	7/27/2012 9:00		Α		В									

Test Legend:

1 G-MBTEX_W	2 PREDF REPORT	3 TPH(D)WSG_W	4	5
6	7	8	9	10
11	12			

Prepared by: Melissa Valles

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

Comments:

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	AEI Consultants				Date and	d Time Received:	7/27/2012 11	1:52:57 AM
Project Name:	#277915; Allen				LogIn Re	eviewed by:		Melissa Valles
WorkOrder N°:	1207697	Matrix: Water			Carrier:	Client Drop-In		
		<u>Chai</u>	n of Cı	ustody (COC) Informatio	<u>on</u>		
Chain of custody	present?		Yes	✓	No 🗌			
Chain of custody	signed when relinquis	hed and received?	Yes	✓	No 🗌			
Chain of custody	agrees with sample la	abels?	Yes	✓	No 🗌			
Sample IDs note	d by Client on COC?		Yes	✓	No 🗌			
Date and Time of	f collection noted by C	lient on COC?	Yes	✓	No 🗌			
Sampler's name	noted on COC?		Yes	✓	No 🗌			
		<u> </u>	Sample	e Receipt Inf	<u>ormation</u>			
Custody seals int	tact on shipping contai	ner/cooler?	Yes		No 🗌		NA 🗸	
Shipping containe	er/cooler in good cond	ition?	Yes	✓	No 🗌			
Samples in prope	er containers/bottles?		Yes	✓	No 🗌			
Sample containe	rs intact?		Yes	✓	No 🗌			
Sufficient sample	volume for indicated	test?	Yes	✓	No 🗌			
		Sample Prese	ervatio	n and Hold	<u>Γime (HT) In</u>	<u>formation</u>		
All samples recei	ived within holding time	e?	Yes	✓	No 🗌			
Container/Temp	Blank temperature		Coole	er Temp: 1.	3°C		NA \square	
Water - VOA vial	s have zero headspac	e / no bubbles?	Yes	✓	No 🗆 N	lo VOA vials submit	tted	
Sample labels ch	necked for correct pres	ervation?	Yes	✓	No 🗌			
Metal - pH accep	table upon receipt (pH	l<2)?	Yes		No 🗌		NA 🗸	
Samples Receive	ed on Ice?		Yes	✓	No 🗌			
		(Ice Type	e: WE	ET ICE)				
* NOTE: If the "N	lo" box is checked, se	e comments below.						
=====						=====		======

AEI Consultants	Client Project ID: #277915; Allen	Date Sampled:	07/27/12
2500 Camino Diablo, Ste. #200		Date Received:	07/27/12
,	Client Contact: Robert Flory	Date Extracted:	07/30/12-07/31/12
Walnut Creek, CA 94597	Client P.O.: #WCO83684	Date Analyzed:	07/30/12-07/31/12

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extractio	n method: SW5030B			Analyt	ical methods:	SW8021B/8015	Bm		Wo	rk Order:	1207697
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	MW-3	W	ND	ND	ND	ND	ND	ND	1	86	
002A	IW-3	W	ND	ND	ND	ND	ND	ND	1	86	
003A	IW-4	W	270	ND	2.0	4.3	1.5	3.4	1	98	d1
Repo	rting Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5		μg/I	
ND m	neans not detected at or	C	1.0	0.05	0.005	0.005	0.005	0.005		/IZ	

above the reporting limit S 1.0 0.05 0.005 0.005 0.005 0.005 mg/Kg	ND means not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	μg/L
		S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

^{*} water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in μ g/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: d1) weakly modified or unmodified gasoline is significant

[#] cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

AEI Consultants	Client Project ID: #277915; Allen	Date Sampled: 07/27/12
2500 Camino Diablo, Ste. #200		Date Received: 07/27/12
,	Client Contact: Robert Flory	Date Extracted 07/27/12
Walnut Creek, CA 94597	Client P.O.: #WCO83684	Date Analyzed 07/27/12-07/28/12

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3		Analytica	Analytical methods: SW8015B					
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments		
1207697-001B	MW-3	W	ND	1	89			
1207697-002B	IW-3	W	ND	1	76			
1207697-003B	IW-4	W	ND	1	102			

Reporting Limit for DF =1; ND means not detected at or	W	50	μg/L
above the reporting limit	S	NA	NA

^{*} water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / SPLP / TCLP extracts are reported in µg/L.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract/matrix interference.

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 69523 WorkOrder: 1207697

EPA Method: SW8021B/8015Bm Extraction: SW5030B Spiked Sample ID: 1207737-001A											
Analyte	Sample	Sample Spiked MS MSD MS-M					Acc	eptance	Criteria (%)		
, i.i.a.i, c	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS		
TPH(btex) [£]	ND	60	105	107	1.45	106	70 - 130	20	70 - 130		
MTBE	ND	10	98.9	95	3.79	87.2	70 - 130 20 70 - 130				
Benzene	ND	10	98	94	4.17	91.3	70 - 130	20	70 - 130		
Toluene	ND	10	101	97.8	3.10	96.7	70 - 130	20	70 - 130		
Ethylbenzene	ND	10	103	100	2.74	96.1	70 - 130 20 70 - 130				
Xylenes	ND	30	106	103	2.18	98.3	70 - 130 20 70 - 130				
%SS:	85	10	91	90	1.31	90	70 - 130	20	70 - 130		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 69523 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1207697-001A	07/27/12 7:00 AM	07/30/12	07/30/12 8:28 PM	1207697-002A	07/27/12 8:00 AM	07/31/12	07/31/12 7:30 PM
1207697-003A	07/27/12 9:00 AM	07/31/12	07/31/12 8:33 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

QA/QC Officer

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 69420 WorkOrder: 1207697

EPA Method: SW8015B Extraction: S	Spiked Sample ID: N/A								
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criter		Criteria (%)
,	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	107	N/A	N/A	70 - 130
%SS:	N/A	625	N/A	N/A	N/A	102	N/A	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 69420 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1207697-001B	07/27/12 7:00 AM	07/27/12	07/28/12 9:33 AM	1207697-002B	07/27/12 8:00 AM	07/27/12	07/27/12 6:00 PM
1207697-003B	07/27/12 9:00 AM	07/27/12	07/27/12 7:06 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

Analytical Report

AEI Consultants	Client Project ID: #277915; Allen	Date Sampled: 08/27/12
2500 camino diablo, ste.#200		Date Received: 08/27/12
2500 cummo diasto,ste.ii 200	Client Contact: Robert Flory	Date Reported: 08/30/12
Walnut creek, CA 94597	Client P.O.: #WC083733	Date Completed: 08/29/12

WorkOrder: 1208645

August 31, 2012

Dear Robert:

Enclosed within are:

- 1) The results of the 3 analyzed samples from your project: #277915; Allen,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

McCAMPBELL ANALYTICAL INC.

CHAIN OF CUSTODY RECORD

1534 Willow Pass Road TURN AROUND TIME Pittsburg, CA 94565 5 DAY Fax: (925) 252-9269 RUSH 24 HR 48 HR 72 HR Telephone: (925) 252-9262 EDF Required? Yes Yes Email PDF Report: YES Report To: Robert Flory Bill To: Same Analysis Request Other Comments PO#: WC08337 WC083733 Company: AEI Consultants Total Petroleum Oil & Grease (5520 E&F/B&F) 5 Fuel Additives, EDB, and 1,2-DCA (8260) 2500 Camino Diablo TPH as Diesel (8015) w/ silica gel cleanup (E200.8) EPA 625 / 8270 / 8310 E-Mail: rflory@aeiconsultants.com Walnut Creek, CA 94597 8015) Tel: (925) 746-6000 Fax: (925) 946-6099 TPH-g (TO-3) + MBTEX (TO-15) Project #:277915 Project Name: Allen MBTEX & TPH as Gas (602/8020 + BTEX ONLY (EPA 602 / 8020) Project Location: 325 Martin Luther King Jr. Way HVOCs EPA 8260 (8010 tist) Lead (7240/7421/239.2/6010) Diss Hexachrome (E218.6) Pesticides EPA 608 / 8080 Sampler Signature: VOCs EPA 624 / 8260 PCBs EPA 608 / 8080 METHOD SAMPLING MATRIX Type Containers PRESERVED PAH's / PNA's by # Containers CAM-17 Metals EPA 625 / 8270 LUFT 5 Metals SAMPLE ID LOCATION (Field Point Name) Sludge Water Time Date Other Other HNO3 Soil HC Ice 8.27.141035 X XX XX X X XX X XX XX XX X X XX X XX Time Relinquished By: Date: Received By 201 METALS OTHER ma VOAS O&G PRESERVATION Relinguished By: Date: Time: Received By: APPROPRIATE HEAD SPACE ABSENT CONTAINERS DECHLORINATED IN LAB PERSERVED IN LAB Relinquished By: Date: Time: Received By:

McCampbell Analytical, Inc.

1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1208645 ClientCode: AEL

	☐ WaterTrax ☐ WriteOn	✓ EDF	Excel	EQuIS	Email	☐ HardCopy ☐ ThirdParty	/ J-flag
Report to:			Bil	I to:		Requested TAT:	5 days
Robert Flory	Email: rflory@aeicons	ultants.com		Sara Guerin			
AEI Consultants	cc:			AEI Consultai	nts		
2500 camino diablo,ste.#200	PO:			2500 Camino	Diablo, Ste. #200	Date Received:	08/27/2012
Walnut creek, CA 94597	ProjectNo: #277915; Allen			Walnut Creek	k, CA 94597	Date Printed:	08/27/2012
(925) 283-6000 FAX: (925) 283-6121				AccountsPaya	able@AEIConsult	ants.c	

					Requested Tests (See legend below)												
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2		3	4	5	6	7	8	9	10	11	12
1208645-001	MW-3	Water	8/27/2012 10:35		Α	Α		В									
1208645-002	IW-4	Water	8/27/2012 11:35		Α			В									
1208645-003	IW-3	Water	8/27/2012 11:05		Α			В									

Test Legend:

1 G-MBTEX_W	2 PREDF REPORT	3 TPH(D)WSG_W	4	5
6	7	8	9	10
11	12			

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).

Hazardous samples will be returned to client or disposed of at client expense.

Comments:

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	AEI Consultants				Date ar	na Time Receivea:	0/2//2012	12:25:30 PW
Project Name:	#277915; Allen				LogIn R	Reviewed by:		Maria Venegas
WorkOrder N°:	1208645	Matrix: Water			Carrier:	Client Drop-In		
		<u>Cha</u>	ain of Cı	ustody (C	OC) Informati	<u>on</u>		
Chain of custody	present?		Yes	✓	No 🗆			
Chain of custody	Yes	✓	No 🗌					
Chain of custody	agrees with sample	labels?	Yes	✓	No 🗆			
Sample IDs note	d by Client on COC?		Yes	✓	No 🗌			
Date and Time o	f collection noted by	Client on COC?	Yes	✓	No 🗌			
Sampler's name	noted on COC?		Yes	✓	No 🗌			
			Sample	e Receipt	Information			
Custody seals in	tact on shipping cont	ainer/cooler?	Yes		No 🗌		NA 🗸	
Shipping contain	er/cooler in good con	ndition?	Yes	✓	No 🗌			
Samples in prope	er containers/bottles?	?	Yes	✓	No 🗌			
Sample containe	rs intact?		Yes	✓	No 🗌			
Sufficient sample	e volume for indicated	d test?	Yes	•	No 🗌			
		Sample Pre	servatio	n and Ho	old Time (HT) li	nformation		
All samples recei	ived within holding tir	me?	Yes	✓	No 🗌			
Container/Temp	Blank temperature		Coole	er Temp:	5.2°C		NA \square	
Water - VOA vial	ls have zero headspa	ace / no bubbles?	Yes	✓	No 🗌 🛚 I	No VOA vials submi	tted	
Sample labels ch	necked for correct pre	eservation?	Yes	✓	No 🗌			
Metal - pH accep	otable upon receipt (p	H<2)?	Yes		No 🗆		NA 🗸	
Samples Receive	ed on Ice?		Yes	✓	No 🗆			
		(Ice Ty	pe: WE	TICE)			
* NOTE: If the "N	lo" box is checked, s	ee comments below.						

AEI Consultants	Client Project ID: #277915; Allen	Date Sampled:	08/27/12
2500 camino diablo,ste.#200		Date Received:	08/27/12
	Client Contact: Robert Flory	Date Extracted:	08/28/12
Walnut creek, CA 94597	Client P.O.: #WC083733	Date Analyzed:	08/28/12

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction	method: SW5030B		Analytical methods: SW8021B/8015Bm							Work Order: 1208645		
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments	
001A	MW-3	W	51	ND	2.4	ND	ND	4.9	1	93	d1	
002A	IW-4	W	2900	ND<50	230	520	46	260	10	103	d1	
003A	IW-3	W	1100	ND<45	100	160	5.1	150	2	99	d1	
									1	1		
Report	ing Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5		ид/І		

ND means not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	μg/L
above the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

^{*} water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in μ g/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: d1) weakly modified or unmodified gasoline is significant

[#] cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

AEI Consultants	Client Project ID: #277915; Allen	Date Sampled: 08/27/12
2500 camino diablo,ste.#200		Date Received: 08/27/12
, , , , , , , , , , , , , , , , , , ,	Client Contact: Robert Flory	Date Extracted 08/27/12
Walnut creek, CA 94597	Client P.O.: #WC083733	Date Analyzed 08/27/12-08/28/12

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3510C/3630C		Analytical	Analytical methods: SW8015B			
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)		% SS	Comments
1208645-001B	MW-3	W	ND	1	97	
1208645-002B	IW-4	W	280	1	103	e4
1208645-003B	IW-3	W	130	1	98	e4

Reporting Limit for DF =1; ND means not detected at or	W	50	μg/L
above the reporting limit	S	NA	NA

^{*} water samples are reported in μ g/L, wipe samples in μ g/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in μ g/L.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: e4) gasoline range compounds are significant.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract/matrix interference.

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 70192 WorkOrder: 1208645

EPA Method: SW8015B Extraction: SW3510C/3630C					Spiked Sample ID: N/A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		Criteria (%)
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	108	N/A	N/A	70 - 130
%SS:	N/A	625	N/A	N/A	N/A	100	N/A	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 70192 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1208645-001B	08/27/12 10:35 AM	08/27/12	08/28/12 9:59 PM	1208645-002B	08/27/12 11:35 AM	08/27/12	08/27/12 11:52 PM
1208645-003B	08/27/12 11:05 AM	08/27/12	08/27/12 10:45 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 70226 WorkOrder: 1208645

EPA Method: SW8021B/8015Bm Extraction: S	W5030B					;	Spiked Sam	ple ID:	1208629-004A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
Analyse	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex) [£]	ND	60	94.2	93.7	0.557	83.6	70 - 130	20	70 - 130
MTBE	ND	10	80.7	77	4.36	87	70 - 130	20	70 - 130
Benzene	ND	10	91.9	89.3	2.86	91.2	70 - 130	20	70 - 130
Toluene	ND	10	93.3	91.5	1.91	93.2	70 - 130	20	70 - 130
Ethylbenzene	ND	10	95.4	93.7	1.79	93.6	70 - 130	20	70 - 130
Xylenes	ND	30	98.6	97.7	0.882	95.9	70 - 130	20	70 - 130
%SS:	87	10	89	88	1.62	92	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 70226 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1208645-001A	08/27/12 10:35 AM	08/28/12	08/28/12 6:33 AM	1208645-002A	08/27/12 11:35 AM	08/28/12	08/28/12 7:02 AM
1208645-003A	08/27/12 11:05 AM	08/28/12	08/28/12 9:44 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

QA/QC Officer

Analytical Report

AEI Consultants Client Project ID: #277915; Allen		Date Sampled: 09/21/12
2500 Camino Diablo, Ste.#200		Date Received: 09/21/12
2500 Cammio Blacto, Ste. 11200	Client Contact: Robert Flory	Date Reported: 09/27/12
Walnut Creek, CA 94597	Client P.O.: #WC083767	Date Completed: 09/26/12

WorkOrder: 1209554

September 27, 2012

Dear Robert:

Enclosed within are:

- 1) The results of the 8 analyzed samples from your project: #277915; Allen,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

1209554

McCAMPBELL ANALYTICAL INC. CHAIN OF CUSTODY RECORD 1534 Willow Pass Road TURN AROUND TIME Pittsburg, CA 94565 Telephone: (925) 252-9262 5 DAY Fax: (925) 252-9269 RUSH 24 HR 48 HR 72 HR EDF Required? □ Yes Email PDF Report: YES Report To: Robert Flory Bill To: Same Analysis Request Other Comments PO#: WCO 83766 Company: AEI Consultants Total Petroleum Oil & Grease (5520 E&F/B&F) 5 Fuel Additives, EDB, and 1,2-DCA (8260) 2500 Camino Diablo TPH as Diesel (8015) w/ silica gel cleanup PAH's / PNA's by EPA 625 / 8270 / 8310 E-Mail: rflory@aciconsultants.com Walnut Creek, CA 94597 Total Petroleum Hydrocarbons (418.1) Fax: (925) 946-6099 Tel: (925) 746-6000 TPH-g (TO-3) + MBTEX (TO-15) Project #:277915 Project Name: Allen BTEX ONLY (EPA 602 / 8020) Project Location: 325 Martin Luther King Jr. Way Lead (7240/7421/239.2/6010) Diss Hexachrome (E218.6) Pesticides EPA 608 / 8080 900m 2003 Sampler Signature: VOCs EPA 624 / 8260 PCBs EPA 608 / 8080 METHOD SAMPLING MATRIX Type Containers PRESERVED Containers CAM-17 Metals EPA 625 / 8270 MBTEX & TPH LUFT 5 Metals SAMPLE ID LOCATION (Field Point Name) Sludge Water Date Time HNO3 Other HCI Soil Ice MW-1 9-21-12-0815 X XX X MW-2 0845 XX X MW-3 XX XX IW-1 X XX X 0945 IW-2 XX XX XX IW-3 1045 XX IW-4 XX XX IW-5 X XX 1145 XX VI350 Religenished By: Received By mu 2-6 921 VOAS O&G METALS OTHER PRESERVATION Relinquished By: Received By: Date: Time: GOOD CONDITION APPROPRIATE HEAD SPACE ABSENT CONTAINERS Relinquished By: DECHLORINATED IN LAB PERSERVED IN LAB Date: Time: Received By:

Page 2 of 14

McCampbell Analytical, Inc.

1534 Willow Pass Rd Pittsburg, CA 94565-1701

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkOr	der: 1209554	Client	Code: AEL		
	WaterTrax	x WriteOn	✓ EDF	Excel	EQuIS	✓ Email	HardCop	y ThirdParty	J-flag
Report to:				Bill	I to:		R	Requested TAT:	5 days
Robert Flory	Email:	rflory@aeiconsult	ants.com		Sara Guerin				
AEI Consultants	cc:				AEI Consultan	ts			
2500 Camino Diablo, Ste.#200	PO:	#WC083766			2500 Camino	Diablo, Ste. #20	$_{0}$ L	Date Received:	09/21/2012
Walnut Creek, CA 94597	ProjectNo:	#277915; Allen			Walnut Creek,	CA 94597	\boldsymbol{L}	Date Printed:	09/21/2012
(925) 283-6000 FAX: (925) 283-6121					AccountsPava	ble@AFIConsu	tants c		

					Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1209554-001	MW-1	Water	9/21/2012 8:15		В	Α	Α									
1209554-002	MW-2	Water	9/21/2012 8:45		В	Α										
1209554-003	MW-3	Water	9/21/2012 9:15		C	Α		В								
1209554-004	IW-1	Water	9/21/2012 9:45		В	Α										
1209554-005	IW-2	Water	9/21/2012 10:15		C	Α		В								
1209554-006	IW-3	Water	9/21/2012 10:45		С	Α		В								
1209554-007	IW-4	Water	9/21/2012 11:15		С	Α		В								
1209554-008	IW-5	Water	9/21/2012 11:45		С	Α		В								

Test Legend:

1 5-OXYS+PBSCV_W	2 G-MBTEX_W	3 PREDF REPORT	4 TPH(D)WSG_W	5
6	7	8	9	10
11	12			

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

Comments:

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	AEI Consultants				Date ar	na Time Receivea:	9/21/2012	1:15:50 PW
Project Name:	#277915; Allen				LogIn F	Reviewed by:		Maria Venegas
WorkOrder N°:	1209554	Matrix: Water			Carrier:	Client Drop-In		
		<u>Cha</u>	ain of Cı	ustody (C	OC) Informati	<u>on</u>		
Chain of custody	present?		Yes	✓	No 🗌			
Chain of custody	signed when relinquis	shed and received?	Yes	✓	No 🗌			
Chain of custody	agrees with sample la	abels?	Yes	✓	No 🗌			
Sample IDs note	d by Client on COC?		Yes	✓	No 🗌			
Date and Time o	f collection noted by C	Client on COC?	Yes	✓	No 🗌			
Sampler's name	noted on COC?		Yes	✓	No 🗌			
			Sample	e Receipt	Information			
Custody seals in	tact on shipping conta	ainer/cooler?	Yes		No 🗌		NA 🗸	
Shipping contain	er/cooler in good cond	dition?	Yes	✓	No 🗌			
Samples in prope	er containers/bottles?		Yes	✓	No 🗌			
Sample containe	ers intact?		Yes	✓	No 🗌			
Sufficient sample	e volume for indicated	test?	Yes	✓	No 🗌			
		Sample Pres	servatio	n and Ho	ld Time (HT) I	nformation		
All samples rece	ived within holding tim	ne?	Yes	✓	No 🗌			
Container/Temp	Blank temperature		Coole	er Temp:	3.2°C		NA 🗌	
Water - VOA vial	ls have zero headspac	ce / no bubbles?	Yes	✓	No 🗆	No VOA vials submi	tted	
Sample labels ch	necked for correct pres	servation?	Yes	✓	No 🗌			
Metal - pH accep	otable upon receipt (pl	H<2)?	Yes		No 🗌		NA 🗸	
Samples Receive	ed on Ice?		Yes	✓	No 🗌			
		(Ice Ty	pe: WE	TICE))			
* NOTE: If the "N	lo" box is checked, se	ee comments below.						
				:				======

AEI Consultants	Client Project ID: #277915; Allen	Date Sampled: 09/21/12
2500 Camino Diablo, Ste.#200		Date Received: 09/21/12
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Client Contact: Robert Flory	Date Extracted: 09/23/12-09/25/12
Walnut Creek, CA 94597	Client P.O.: #WC083767	Date Analyzed: 09/23/12-09/25/12

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1209554

Extraction Method: SW5030B	Ana	aiyticai Method: SW8260	JB		work Order:	1209554			
Lab ID	1209554-001B	1209554-002B	1209554-003C	1209554-004B					
Client ID	MW-1	MW-2	MW-3	IW-1	Reporting Limit for DF=1				
Matrix	Matrix W W W								
DF	1	1	1	1	S	W			
Compound		Conce	entration		ug/kg	μg/L			
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND	NA	0.5			
t-Butyl alcohol (TBA)	ND	ND	ND	ND	NA	2.0			
1,2-Dibromoethane (EDB)	ND	ND	1.1	ND	NA	0.5			
1,2-Dichloroethane (1,2-DCA)	13	ND	4.4	ND	NA	0.5			
Diisopropyl ether (DIPE)	ND	ND	ND	ND	NA	0.5			
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND	NA	0.5			
Methyl-t-butyl ether (MTBE)	1.2	ND	ND	ND	NA	0.5			
Surrogate Recoveries (%)									
%SS1:	112	103	103	107					
Comments					<u> </u>				
	/r '1/1 1 / 1'1		1 . / '1/	1' '1 1 1	11 TCL D 0 G	IDI D			

^{*} water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.



ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

[#] surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

AEI Consultants	Client Project ID: #277915; Allen	Date Sampled: 09/21/12
2500 Camino Diablo, Ste.#200		Date Received: 09/21/12
	Client Contact: Robert Flory	Date Extracted: 09/23/12-09/25/12
Walnut Creek, CA 94597	Client P.O.: #WC083767	Date Analyzed: 09/23/12-09/25/12

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1209554

Extraction Method: SW5030B	Alla	Work Order: 1209554							
Lab ID	1209554-005C	1209554-006C	1209554-007C	1209554-008C					
Client ID	IW-2	IW-3	IW-4	IW-5	Reporting Limit for DF =1				
Matrix	W	W	W	W					
DF	1	5	2.5	1	S	W			
Compound		Conce	entration		ug/kg	μg/L			
tert-Amyl methyl ether (TAME)	ND	ND<2.5	ND<1.2	ND	NA	0.5			
t-Butyl alcohol (TBA)	8.0	25	19	ND	NA	2.0			
1,2-Dibromoethane (EDB)	0.71	52	48	ND	NA	0.5			
1,2-Dichloroethane (1,2-DCA)	8.0	51	30	ND	NA	0.5			
Diisopropyl ether (DIPE)	ND	ND<2.5	ND<1.2	ND	NA	0.5			
Ethyl tert-butyl ether (ETBE)	ND	ND<2.5	ND<1.2	ND	NA	0.5			
Methyl-t-butyl ether (MTBE)	ND	ND<2.5	ND<1.2	ND	NA	0.5			
Surrogate Recoveries (%)									
%SS1:	106	103	113	104					
Comments									
	<u> </u>		<u> </u>	<u> </u>	I				

^{*} water and vapor samples are reported in $\mu g/L$, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in $\mu g/wipe$.



ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

[#] surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

AEI Consultants	Client Project ID: #277915; Allen		09/21/12
2500 Camino Diablo, Ste.#200		Date Received:	09/21/12
	Client Contact: Robert Flory	Date Extracted:	09/23/12-09/25/12
Walnut Creek, CA 94597	Client P.O.: #WC083767	Date Analyzed:	09/23/12-09/25/12

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction	Extraction method: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 1209554									1209554	
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	MW-1	W	ND	ND	ND	ND	ND	ND	1	89	
002A	MW-2	W	ND	ND	ND	ND	ND	ND	1	90	
003A	MW-3	W	ND	ND	ND	ND	ND	ND	1	89	
004A	IW-1	W	ND	ND	ND	ND	ND	ND	1	102	
005A	IW-2	W	91	ND	0.89	ND	ND	7.5	1	101	d1
006A	IW-3	W	4300	ND<50	460	580	32	560	10	99	d1
007A	IW-4	W	4500	ND<50	350	820	64	370	10	105	d1
008A	IW-5	W	ND	ND	ND	ND	ND	ND	1	103	
					-						
	orting Limit for DF =1; neans not detected at or	W	50	5.0	0.5	0.5	0.5	0.5		μg/I	:
	ove the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005		mg/K	Lg

^{*} water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: d1) weakly modified or unmodified gasoline is significant

[#] cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

AEI Consultants	Client Project ID: #277915; Allen	Date Sampled: 09/21/12
2500 Camino Diablo, Ste.#200		Date Received: 09/21/12
,	Client Contact: Robert Flory	Date Extracted 09/21/12
Walnut Creek, CA 94597	Client P.O.: #WC083767	Date Analyzed 09/23/12-09/25/12

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3	3510C/3630C	Analytica	l methods: SW8015B		Work Order:		
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments	
1209554-003B	MW-3	W	ND	1	94		
1209554-005B	IW-2	W	ND	1	89		
1209554-006B	IW-3	W	360	1	87	e4	
1209554-007B	IW-4	W	150	1	87	e4	
1209554-008B	IW-5	W	ND	1	88		

Reporting Limit for DF =1; ND means not detected at or	W	50	μg/L
above the reporting limit	S	NA	NA

^{*} water samples are reported in μ g/L, wipe samples in μ g/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in μ g/L.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: e4) gasoline range compounds are significant.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract/matrix interference.

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 70995 WorkOrder: 1209554

EPA Method: SW8260B Extraction:	SW5030B					;	Spiked Sam	ple ID:	1209554-001B
Analyte	Sample	Spiked	Spiked MS MSD MS-MSD LCS				Acceptance Criteria (%)		
,, to	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	10	110	113	2.59	114	70 - 130	20	70 - 130
Benzene	ND	10	106	103	2.53	108	70 - 130	20	70 - 130
t-Butyl alcohol (TBA)	ND	40	84.9	91.9	7.42	89.5	70 - 130	20	70 - 130
Chlorobenzene	ND	10	103	99.9	2.77	106	70 - 130	20	70 - 130
1,2-Dibromoethane (EDB)	ND	10	109	113	2.95	113	70 - 130	20	70 - 130
1,2-Dichloroethane (1,2-DCA)	13	10	88.3	94.2	2.71	103	70 - 130	20	70 - 130
Diisopropyl ether (DIPE)	ND	10	102	103	1.34	106	70 - 130	20	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	106	112	4.65	114	70 - 130	20	70 - 130
Methyl-t-butyl ether (MTBE)	1.2	10	105	111	5.33	112	70 - 130	20	70 - 130
Toluene	ND	10	109	105	4.00	111	70 - 130	20	70 - 130
Trichloroethene	ND	10	101	99.7	1.51	106	70 - 130	20	70 - 130
%SS1:	112	25	116	117	0.949	116	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 70995 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1209554-001B	09/21/12 8:15 AM	M 09/23/12	09/23/12 11:34 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QA/QC Officer

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 71026 WorkOrder: 1209554

EPA Method: SW8260B Extraction:	SW5030B					;	Spiked Sam	ple ID:	1209474-001A
Analyte	Sample	Spiked	Spiked MS MSD MS-MSD LCS				Acceptance Criteria (%)		
, maye	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	10	93	96.7	3.90	93.5	70 - 130	30	70 - 130
Benzene	ND	10	93.9	94.5	0.683	94.8	70 - 130	30	70 - 130
t-Butyl alcohol (TBA)	ND	40	84	76.8	8.88	79.6	70 - 130	30	70 - 130
Chlorobenzene	ND	10	94	94.7	0.747	91.1	70 - 130	30	70 - 130
1,2-Dibromoethane (EDB)	ND	10	107	107	0	99.2	70 - 130	30	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	84.5	82.8	1.95	84.8	70 - 130	30	70 - 130
Diisopropyl ether (DIPE)	ND	10	90.6	89.3	1.41	93.6	70 - 130	30	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	89.7	89	0.764	90.5	70 - 130	30	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	91.5	90.9	0.719	89.9	70 - 130	30	70 - 130
Toluene	ND	10	90.5	92.4	2.14	90.4	70 - 130	30	70 - 130
Trichloroethene	ND	10	94.5	97.1	2.71	92.9	70 - 130	30	70 - 130
%SS1:	102	25	104	105	0.660	105	70 - 130	30	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 71026 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1209554-002B	09/21/12 8:45 AM	09/24/12	09/24/12 9:18 PM	1209554-003C	09/21/12 9:15 AM	09/24/12	09/24/12 9:56 PM
1209554-004B	09/21/12 9:45 AM	09/24/12	09/24/12 10:35 PM	1209554-005C	09/21/12 10:15 AM	09/24/12	09/24/12 11:14 PM
1209554-006C	09/21/12 10:45 AM	09/24/12	09/24/12 11:52 PM	1209554-007C	09/21/12 11:15 AM	09/25/12	09/25/12 11:58 PM
1209554-008C	09/21/12 11:45 AM	09/25/12	09/25/12 1:10 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

SH QA/QC Officer

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 70992 WorkOrder: 1209554

EPA Method: SW8021B/8015Bm Extraction: S	W5030B					;	Spiked Sam	ple ID:	1209553-006A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
, a.a., c	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex) [£]	ND	60	107	113	5.44	109	70 - 130	20	70 - 130
MTBE	ND	10	98.8	102	3.00	98.8	70 - 130	20	70 - 130
Benzene	ND	10	101	102	0.860	97	70 - 130	20	70 - 130
Toluene	ND	10	102	104	2.27	98.3	70 - 130	20	70 - 130
Ethylbenzene	ND	10	104	107	2.89	100	70 - 130	20	70 - 130
Xylenes	ND	30	107	111	3.18	104	70 - 130	20	70 - 130
%SS:	87	10	93	91	2.50	90	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 70992 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1209554-001A	09/21/12 8:15 AM	09/23/12	09/23/12 6:46 AM	1209554-002A	09/21/12 8:45 AM	09/23/12	09/23/12 7:16 AM
1209554-003A	09/21/12 9:15 AM	09/23/12	09/23/12 8:15 AM	1209554-004A	09/21/12 9:45 AM	09/23/12	09/23/12 8:45 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

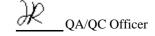
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 70993 WorkOrder: 1209554

EPA Method: SW8021B/8015Bm Extraction: S	W5030B					;	Spiked Sam	ple ID:	1209525-049B
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
, wall, to	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex) [£]	ND	60	102	104	1.82	102	70 - 130	20	70 - 130
MTBE	ND	10	90.2	90.6	0.377	88.2	70 - 130	20	70 - 130
Benzene	ND	10	103	98.7	4.14	99.1	70 - 130	20	70 - 130
Toluene	ND	10	103	98.6	4.23	100	70 - 130	20	70 - 130
Ethylbenzene	ND	10	102	99.5	2.81	99.5	70 - 130	20	70 - 130
Xylenes	ND	30	105	100	4.60	99.8	70 - 130	20	70 - 130
%SS:	102	10	108	103	4.20	104	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 70993 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1209554-008A	09/21/12 11:45 AM	1 09/23/12	09/23/12 5:21 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

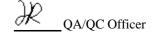
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 71039 WorkOrder: 1209554

EPA Method: SW8021B/8015Bm Extraction: S	W5030B					;	Spiked Sam	ple ID:	1209525-046B
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
Analyse	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex) [£]	ND	60	102	92.8	9.74	94.9	70 - 130	20	70 - 130
MTBE	ND	10	99.4	88.6	11.5	81.4	70 - 130	20	70 - 130
Benzene	ND	10	99.4	94.7	4.85	89	70 - 130	20	70 - 130
Toluene	ND	10	100	94.5	5.64	88.1	70 - 130	20	70 - 130
Ethylbenzene	ND	10	99.6	93.7	6.03	87	70 - 130	20	70 - 130
Xylenes	ND	30	100	93.6	6.91	87.8	70 - 130	20	70 - 130
%SS:	104	10	100	103	3.17	101	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 71039 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1209554-005A	09/21/12 10:15 AM	09/24/12	09/24/12 8:25 PM	1209554-006A	09/21/12 10:45 AM	09/25/12	09/25/12 7:15 PM
1209554-007A	09/21/12 11:15 AM	09/25/12	09/25/12 7:45 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

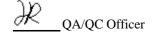
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 70893 WorkOrder: 1209554

EPA Method: SW8015B Extraction: SW3510C/3630C Spiked Sample ID:								N/A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria		Criteria (%)
,	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	106	N/A	N/A	70 - 130
%SS:	N/A	625	N/A	N/A	N/A	88	N/A	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 70893 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1209554-003B	09/21/12 9:15 AM	09/21/12	09/23/12 10:22 AM	1209554-005B	09/21/12 10:15 AM	09/21/12	09/24/12 11:44 PM
1209554-006B	09/21/12 10:45 AM	09/21/12	09/23/12 11:28 AM	1209554-007B	09/21/12 11:15 AM	09/21/12	09/25/12 11:17 PM
1209554-008B	09/21/12 11:45 AM	09/21/12	09/25/12 3:07 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer

DHS ELAP Certification 1644

Analytical Report

AEI Consultants	Client Project ID: #277915; Allen	Date Sampled:	10/24/12
2500 Camino Diablo, Ste.#200		Date Received:	10/24/12
2500 Camino Biacio, Ste. #200	Client Contact: Robert Flory	Date Reported:	10/29/12
Walnut Creek, CA 94597	Client P.O.: #WC083825	Date Completed:	10/26/12

WorkOrder: 1210797

October 30, 2012

Dear Robert:

Enclosed within are:

- 1) The results of the 3 analyzed samples from your project: #277915; Allen,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

McCAMPBELL ANALYTICAL INC. CHAIN OF CUSTODY RECORD 1534 Willow Pass Road TURN AROUND TIME Pittsburg, CA 94565 RUSH 24 HR 48 HR 72 HR 5 DAY Telephone: (925) 252-9262 Fax: (925) 252-9269 EDF Required? □ | Yes Email PDF Report: YES Report To: Robert Flory Bill To: Same Analysis Request Other Comments PO#: WCO083825 Company: AEI Consultants Total Petroleum Oil & Grease (5520 E&F/B&F) 5 Fuel Additives, EDB, and 1,2-DCA (8260) 2500 Camino Diablo TPH as Diesel (8015) w/ silica gel cleanup PAH's / PNA's by EPA 625 / 8270 / 8310 E-Mail: rflory@aeiconsultants.com Walnut Creek, CA 94597 Total Petroleum Hydrocarbons (418.1) Tel: (925) 746-6000 Fax: (925) 946-6099 TPH-g (TO-3) + MBTEX (TO-15) Project Name: Allen Project #:277915 BTEX ONLY (EPA 602 / 8020) Project Location: 325 Martin Luther King Jr. Way Sampler Signature: HVOCs EPA 8260 (8010 list) Lead (7240/7421/239.2/6010) Diss Hexachrome (E218.6) Pesticides EPA 608 / 8080 VOCs EPA 624 / 8260 MBTEX & TPH as Gas SAMPLING METHOD MATRIX Type Containers PRESERVED EPA 625 / 8270 CAM-17 Metals LUFT 5 Metals SAMPLE ID LOCATION Sludge (Field Point Name) Water Time Date HNO3 Other HCI Soil Ice MW-3 10-24-141,000 XX X LODA JOA X X X IW-3 XX 3 JOA X X IW-4 Relinquished By: Received By: Date: Timer 10-24-12 O&G METALS OTHER PRESERVATION Relinquished By: Date: Time: Received By: APPROPRIATE HEAD SPACE ABSENT CONTAINERS DECHLORINATED IN LAB PERSERVED IN LAB Relinquished By: Date: Time: Received By:

McCampbell Analytical, Inc.

1534 Willow Pass Rd Pittsburg, CA 94565-1701

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1210797 ClientCode: AEL

(1)		☐ WaterTrax	WriteOn	 EDF	ПЕ	Excel		EQuIS		Email		HardCop	v ${}^{\sqsubset}$	ThirdP	artv	☐ J-fla	a
				V ·			_		•					_	-		
Report to:		Farail	41am (@aaiaama)	iltanta asna		В	ill to:	Cuanin				R	equest	ed TAT:		5 d	ays
Robert Flory AEI Consultant 2500 Camino D Walnut Creek, (925) 283-6000	Diablo, Ste.#200	cc: PO: #	flory@aeiconsu #WC083825 #277915; Allen	ulants.com			AEI 0 2500 Walr	nut Cree	ants o Diablo ek, CA 9	o, Ste. #2 14597 AEICons		D		eceived rinted:		10/24/20 10/24/20	
									Red	quested T	ests (S	ee legen	nd belo	w)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1210797-001	MW-3		Water	10/24/2012 10:00		Α	Α										
1210797-002	IW-3		Water	10/24/2012 9:40		Α											
1210797-003	IW-4		Water	10/24/2012 9:25		Α											
Test Legend:		PREDF RE	PORT	3				4					5				
6	7			8				9					10				
11	12																
												Pre	epared	l by: N	1elissa	Valles	;

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).

Hazardous samples will be returned to client or disposed of at client expense.

Comments:

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Project Name:	Carrier: Client Drop-In	Client Name:	AEI Consultants				Date an	a Time Received:	10/24/201	2 11:09:08 AW
Chain of custody present? Yes ✓ No Chain of custody signed when relinquished and received? Yes ✓ No Chain of custody agrees with sample labels? Yes ✓ No Sample IDs noted by Client on COC? Yes ✓ No Date and Time of collection noted by Client on COC? Yes ✓ No Sampler's name noted on COC? Yes ✓ No Sample Receipt Information Custody seals intact on shipping container/cooler? Yes ✓ No Shipping container/cooler in good condition? Yes ✓ No Samples in proper containers/bottles? Yes ✓ No Sample containers intact? Yes ✓ No Sufficient sample volume for indicated test? Yes ✓ No Sample Preservation and Hold Time (HT) Information All samples received within holding time? Yes ✓ No Container/Temp Blank temperature Cooler Temp: 6.6°C Na Water - VOA vials have zero h	Chain of Custody (COC) Information	Project Name:	#277915; Allen				LogIn R	eviewed by:		Melissa Valles
Chain of custody present? Chain of custody signed when relinquished and received? Yes No Chain of custody agrees with sample labels? Yes No Chain of custody agrees with sample labels? Yes No Chain of custody agrees with sample labels? Yes No Chain of custody agrees with sample labels? Yes No Chain of custody agrees with sample labels? Yes No Chain of custody agrees with sample labels? Yes No Chain of custody agrees with sample labels? Yes No Chain of custody agrees with sample labels? No Chain of custody agrees with sample labels? No Chain of custody agrees with sample labels? Yes No Chain of custody agrees with sample labels? No Chain of custody agrees with sample labels? Yes No Chain of custody agrees with sample labels? No Chain of custody agrees with agrees with a condition of custody agrees with agrees with a custody agrees with a custo	Yes Ves No	WorkOrder N°:	1210797	Matrix: Water			Carrier:	Client Drop-In		
Chain of custody signed when relinquished and received? Yes	when relinquished and received? Yes			<u>Ch</u>	ain of Cı	ustody (COC) Information	<u>on</u>		
Chain of custody agrees with sample labels? Sample IDs noted by Client on COC? Yes No No No No No No No No No N	with sample labels? Yes No No No No No No No No No N	Chain of custody	present?		Yes	✓	No 🗌			
Sample IDs noted by Client on COC? Yes No Date and Time of collection noted by Client on COC? Yes No No Sampler's name noted on COC? Yes No No No NA Custody seals intact on shipping container/cooler? Shipping container/cooler in good condition? Yes No No NA Samples in proper containers/bottles? Yes No No No No No No No No No N	ent on COC? Yes No noted by Client on COC? Yes No No No No No No No No No N	Chain of custody	signed when relinqu	uished and received?	Yes	✓	No 🗌			
Date and Time of collection noted by Client on COC? Yes No No No Sampler's name noted on COC? Yes No No NA Sample Receipt Information Custody seals intact on shipping container/cooler? Yes No No NA Shipping container/cooler in good condition? Yes No No Samples in proper containers/bottles? Yes No Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes No No Sample Preservation and Hold Time (HT) Information All samples received within holding time? Yes No No No No No No No No No N	Sample Receipt Information Sample Receipt Information	Chain of custody	agrees with sample	e labels?	Yes	✓	No 🗆			
Sample Receipt Information Custody seals intact on shipping container/cooler? Yes No No NA Shipping container/cooler in good condition? Yes No No Samples in proper containers/bottles? Yes No Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes No Sample Preservation and Hold Time (HT) Information All samples received within holding time? Yes No No Sample Preservation and Hold Time (HT) Information All samples received within holding time? Yes No No No No VOA vials submitted Sample labels checked for correct preservation? Yes No No No No VOA vials submitted Sample labels checked for correct preservation? Yes No	Sample Receipt Information Sample Receipt Information Shipping container/cooler? Yes	Sample IDs noted	d by Client on COC?	?	Yes	✓	No 🗌			
Sample Receipt Information Custody seals intact on shipping container/cooler? Yes	Sample Receipt Information shipping container/cooler? Yes	Date and Time of	f collection noted by	Client on COC?	Yes	✓	No 🗌			
Custody seals intact on shipping container/cooler? Yes No No NA Shipping container/cooler in good condition? Yes No No Samples in proper containers/bottles? Yes No Sample containers intact? Yes No Sample containers intact? Yes No No Sample volume for indicated test? Yes No No Sample Preservation and Hold Time (HT) Information Sample Preservation and Hold Time (HT) Information All samples received within holding time? Yes No No No No VOA vials submitted No No No VOA vials submitted No Sample labels checked for correct preservation? Yes No	shipping container/cooler? Yes No No NA In ingood condition? Yes No	Sampler's name	noted on COC?		Yes	✓	No 🗌			
Shipping container/cooler in good condition? Samples in proper containers/bottles? Yes No Sample containers intact? Sufficient sample volume for indicated test? Sample Preservation and Hold Time (HT) Information Sample Preservation and Hold Time (HT) Information All samples received within holding time? Yes No Society Temp: 6.6°C NA Sample Preservation and Hold Time (HT) Information No Water - VOA vials have zero headspace / no bubbles? Yes No No No VOA vials submitted Sample labels checked for correct preservation? Metal - pH acceptable upon receipt (pH<2)? Yes No	rin good condition? Yes No No No Provided the string of the string				Sample	e Receip	ot Information			
Samples in proper containers/bottles? Yes No Sample containers intact? Yes No Sufficient sample volume for indicated test? Yes No Sample Preservation and Hold Time (HT) Information All samples received within holding time? Container/Temp Blank temperature Cooler Temp: 6.6°C NA Water - VOA vials have zero headspace / no bubbles? Yes No No No VOA vials submitted Sample labels checked for correct preservation? Metal - pH acceptable upon receipt (pH<2)? Yes No	iners/bottles? Yes V No Yes No For indicated test? Yes No Sample Preservation and Hold Time (HT) Information No Sample Preservation and Hold Time (HT) Information No Pemperature Cooler Temp: 6.6°C NA Service represervation? Yes No No No VOA vials submitted For correct preservation? Yes No No No VOA vials submitted For correct preservation? Yes No No No VOA vials submitted For correct preservation? Yes No No No VOA vials submitted For correct preservation? Yes No No No VOA vials submitted For correct preservation? Yes V No No No VOA vials submitted For correct preservation? Yes V No No No VOA vials submitted For correct preservation? Yes V No No No VOA vials submitted For correct preservation?	Custody seals int	tact on shipping con	tainer/cooler?	Yes		No 🗌		NA 🗹	
Sample containers intact? Yes V No Sufficient sample volume for indicated test? Sample Preservation and Hold Time (HT) Information Samples received within holding time? Yes No	Yes V No No Sample Preservation and Hold Time (HT) Information Sample Preservation and Hold Time (HT) Information hin holding time? Yes V No No No No VOA vials submitted No No Correct preservation? Yes No	Shipping containe	er/cooler in good cor	ndition?	Yes	✓	No 🗌			
Sufficient sample volume for indicated test? Sample Preservation and Hold Time (HT) Information All samples received within holding time? Yes No Container/Temp Blank temperature Cooler Temp: 6.6°C NA Water - VOA vials have zero headspace / no bubbles? Yes No No No VOA vials submitted Sample labels checked for correct preservation? Yes No No No NA Samples Received on Ice?	Sample Preservation and Hold Time (HT) Information hin holding time? Yes V No emperature Cooler Temp: 6.6°C NA zero headspace / no bubbles? Yes V No No No VOA vials submitted for correct preservation? Yes No	Samples in prope	er containers/bottles	?	Yes	✓	No 🗌			
Sample Preservation and Hold Time (HT) Information All samples received within holding time? Yes ✓ No □ Container/Temp Blank temperature Cooler Temp: 6.6°C NA □ Water - VOA vials have zero headspace / no bubbles? Yes ✓ No □ No VOA vials submitted □ Sample labels checked for correct preservation? Yes ✓ No □ Metal - pH acceptable upon receipt (pH<2)? Yes ✓ No □ No □ NA ✓ Samples Received on Ice?	Sample Preservation and Hold Time (HT) Information hin holding time? Yes ✓ No □ emperature Cooler Temp: 6.6°C NA □ zero headspace / no bubbles? Yes ✓ No □ No VOA vials submitted □ for correct preservation? Yes ✓ No □ pon receipt (pH<2)? Yes □ No □ (Ice Type: WET ICE)	Sample container	rs intact?		Yes	✓	No 🗌			
All samples received within holding time? Container/Temp Blank temperature Cooler Temp: 6.6°C NA Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted Sample labels checked for correct preservation? Yes No No No No No No No No No N	hin holding time? Yes No Cooler Temp: 6.6°C NA Zero headspace / no bubbles? Yes No No VOA vials submitted No	Sufficient sample	volume for indicate	ed test?	Yes	✓	No 🗌			
Container/Temp Blank temperature Cooler Temp: 6.6°C NA Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted Sample labels checked for correct preservation? Yes No	emperature Cooler Temp: 6.6°C NA ☐ zero headspace / no bubbles? Yes ✓ No ☐ No VOA vials submitted ☐ for correct preservation? Yes ✓ No ☐ pon receipt (pH<2)? Yes ☐ No ☐ (Ice Type: WET ICE)			Sample Pre	servatio	n and H	lold Time (HT) Ir	nformation		
Water - VOA vials have zero headspace / no bubbles? Yes ✓ No □ No VOA vials submitted □ Sample labels checked for correct preservation? Yes ✓ No □ Metal - pH acceptable upon receipt (pH<2)? Yes □ No □ NA ✓ Samples Received on Ice?	zero headspace / no bubbles? Yes No No No VOA vials submitted No on receipt (pH<2)? Yes Yes No No No No No No No No No N	All samples recei	ived within holding ti	ime?	Yes	✓	No 🗌			
Sample labels checked for correct preservation? Metal - pH acceptable upon receipt (pH<2)? Yes No No NA Samples Received on Ice? Yes No No No NA Samples Received on Ice?	For correct preservation? Yes V No	Container/Temp	Blank temperature		Coole	er Temp:	6.6°C		NA 🗌	
Metal - pH acceptable upon receipt (pH<2)? Yes No No NA ✓ Samples Received on Ice? Yes ✓ No N	e? Yes VETICE)	Water - VOA vial	s have zero headspa	ace / no bubbles?	Yes	✓	No 🗆 N	No VOA vials submi	tted	
Samples Received on Ice? Yes ✓ No □	e? Yes 🗹 No 🗆 (Ice Type: WET ICE)	Sample labels ch	necked for correct pr	eservation?	Yes	✓	No 🗌			
•	(Ice Type: WET ICE)	Metal - pH accep	otable upon receipt (p	pH<2)?	Yes		No 🗌		NA 🗹	
(Ice Type: WET ICE)		Samples Receive	ed on Ice?		Yes	✓	No 🗆			
	is checked, see comments below.			(Ice Ty	pe: WE	T ICE)			
* NOTE: If the "No" box is checked, see comments below.		* NOTE: If the "N	lo" box is checked, s	see comments below.						

AEI Consultants	Client Project ID: #277915; Allen	Date Sampled:	10/24/12
2500 Camino Diablo, Ste.#200		Date Received:	10/24/12
,	Client Contact: Robert Flory	Date Extracted:	10/24/12-10/26/12
Walnut Creek, CA 94597	Client P.O.: #WC083825	Date Analyzed:	10/24/12-10/26/12
,			

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction	n method: SW5030B			Analyti	ical methods:	SW8021B/8015	Bm		Wo	rk Order:	1210797
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	MW-3	W	510	32	100	3.2	3.7	10	2	99	d1
002A	IW-3	W	4400	51	540	880	26	730	10	105	d1
003A	IW-4	w	21,000	ND<250	2000	4000	350	2100	50	102	d1
Repor	ting Limit for DF =1;	W	50	5.0	0.5	0.5	0.5	0.5		μg/I	

above the reporting limit S 1.0 0.05 0.005 0.005 0.005 0.005 mg/Kg	ND means not detected at or	VV	30	5.0	0.5	0.5	0.5	0.5	μg/L
	above the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

^{*} water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in μ g/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: d1) weakly modified or unmodified gasoline is significant

[#] cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: BatchID: 71945 WorkOrder: 1210797

EPA Method:	PA Method: Extraction: SW5030B Spiked Sample ID: 1210704-002									
Analyte	Sai	ample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
, analyse				% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex) [£]	N	ND	60	107	113	5.38	105	70 - 130	20	80 - 120
MTBE	N	ND	10	90.7	92.1	1.56	86.5	70 - 130	20	80 - 120
Benzene	N	ND	10	103	104	1.59	102	70 - 130	20	80 - 120
Toluene	N	ND	10	102	104	1.51	105	70 - 130	20	80 - 120
Ethylbenzene	N	ND	10	104	106	1.50	104	70 - 130	20	80 - 120
Xylenes	N	ND	30	107	109	1.91	108	70 - 130	20	80 - 120
%SS:	Ģ	96	10	99	96	3.32	97	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 71945 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1210797-001A	10/24/12 10:00 AM	10/26/12	10/26/12 2:46 AM	1210797-002A	10/24/12 9:40 AM	10/24/12	10/24/12 10:57 PM
1210797-003A	10/24/12 9:25 AM	10/26/12	10/26/12 4:15 AM				

DHS ELAP Certification 1644

QA/QC Officer