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

10:39 am, Aug 19, 2011 Alameda County Environmental Health

SUBJECT: Perjury Statement

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: <u>Jone langer allen</u> JANE A. ALLEN

March 31, 2010

GROUNDWATER MONITORING REPORT First Quarter 2010

325 Martin Luther King Jr. Way Oakland, California

Project No. 277915

Prepared For

Jane and Kimball Allen 2 Lone Tree Avenue Mill Valley, CA 94941

Prepared By

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



ENVIRONMENTAL & ENGINEERING SERVICES

www.aeiconsultants.com

March 31, 2010

Jane and Kimball Allen 2 Lone Tree Avenue Mill Valley, California 94941

Subject: Quarterly Groundwater Monitoring Report First Quarter 2010 325 Martin Luther King Jr. Way Oakland, California AEI Project No. 270308

Dear Mr. and Mrs. Allen:

AEI Consultants (AEI) has prepared this report on behalf of Jane and Kimball Allen to document the ongoing groundwater investigation at the above referenced site (Figure 1, Site Location Map). The groundwater investigation is being performed in accordance with the requirements of the Alameda County Environmental Health (ACEH). The purpose of these activities is to monitor groundwater quality in the vicinity of the identified release of fuel products at the site. This report presents the findings of the third Quarter 2009 episode of groundwater monitoring and sampling conducted on March 16, 2010 at the site and includes progress monitoring of the H²O² infusion pilot test.

I Background

The subject property is located on the western 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 land area. The northwestern portion of the building along 4th Street has also had the address 671 4th Street. 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 fuel UST that currently exists below the north side of the building. The fuel UST was used to provide fuel for the Pucci Enterprises truck fleet.

On October 20, 1993, the tank decommissioned by steam cleaning the tank, pumping remaining sludge out of the tank, and filling the tank with concrete slurry. At the time of the UST closure, the eastern section of the building had not yet been built. The tank could not be removed because of its proximity to the footing of the 671 4^{th} Street

building. After tank closure, the eastern portion of the building (325 Martin Luther King) was constructed. Although records show that the UST was abandoned following proper procedures applicable at that time, no documentation was available of sampling around the tank prior to abandonment.

A number of site investigations were performed by several environmental consultants during 2005 and 2006.

In May 2005, AEI performed a Phase II Subsurface Investigation. Soil borings SB-1 and SB-3 encountered refusal at 4 feet bgs, possibly 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.

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

In June 2006, Ceres Associated performed another subsurface investigation. The project included the analyses of soil and groundwater from five soil borings (SB-5 thru SB-9). The highest concentrations of hydrocarbons were reported in boring SB-7, located southeast of the UST. Maximum concentrations of 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 SB-7 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.

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.

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 of drilling additional twelve (12) soil borings at the property. Low to moderate concentrations of petroleum hydrocarbons were detected in the soil adjacent to the abandoned UST and in groundwater. Contaminant distributions in groundwater indicate

that the release of hydrocarbons is limited to the 325 Martin Luther King Jr. Way unit. 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 petroleum hydrocarbons were reported in well MW-3, which is located immediately down gradient of abandoned UST. A site map and well construction details are contained in AEI's *Monitoring Well Installation Report*, dated September 21, 2008.

A *Corrective Action Pilot Test Workplan*, dated April 7, 2008, for a pilot-scale evaluation of in-situ chemical oxidation as a potential method of remediating the site was prepared fro the ACEH. The workplan proposed five injection points in the immediate area of source well MW-3, targeting the saturated zone as well as the lower vadose zone using the product RegenOxTM manufactured by Regenesis, Inc. The workplan was approved by the ACEH in a letter dated May 13, 2008. On July 17 and 18, 2008, 720 lbs of RegenOxTM 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 on August 4, 2008 from well MW-3 reported an increase in TPH-g from pre-pilot concentration of 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. At the time of the present monitoring event TPG-g in well MW-3 was reported at a concentration of 83,000 μ g/L. This increase is believed to be due to the release of hydrocarbons previously bound to clay and sand particles in the smear zone and below the top the groundwater.

The marked increase in dissolved hydrocarbons concentrations appears to be the result of hydrocarbons bonded to sediments in the capillary fringe saturated zone that were desorbed from the soil as a result of treatment with RegenOxTM. This data and review of past soil analytical indicate 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. Following evaluation of the pilot test data, AEI selected H₂O₂ infusion through permanently installed wells as 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.

II Summary of Activities since 3rd Quarter 2009 Monitoring Event.

On October 10, 2009, AEI installed three (3) 2-inch diameter injection/infusion wells, IW-1 located at the north end of the abandoned UST, IW-2 located on the west side of the abandoned UST, and IW-3 located at the south end of the abandoned UST.

On October 30, 2009, AEI performed an injection/infusion test using clear water to determine the rate of fluid acceptance. Fluid acceptance ranged from 1.0 (IW-2) to 5.0 (IW-3) gallons per minute at 5.0 psi and 0.5 to 3 gallons per minute at 0.0 psi.

On November 5, 2009, AEI performed fluid acceptance test using 2.0 %, 1.0 % and 0.5 % H^2O^2 solution. Significant back pressure due to bubble block occurred at concentrations of 1.0% and 2.0 % H^2O^2 solution. Fluid acceptance of 0.5% H^2O^2 ranged from 0.5 – 2.5 gallons per minute.

Between December 29, 2009, and January 29, 2009, 8,000 gallons of 0.5% H^2O^2 was infused in injection wells IW-1 through IW-3. Initial infusion total rate was 2 gallons per minute. The infusion rate decreased to approximately 0.125 gallons per minute as the infusion progressed and oxygen levels increased to above saturation and bubbles created back pressure which impeded the movement of H^2O^2 through the fine grained sand.

II Summary of Groundwater Sampling Activities

On October 30, 2009, following installation of wells IW-1 through IW-3 and prior to the infusion testing, infusion wells IW-1 through IW-3 and monitoring well MW-3 were sampled. The well caps were removed from well MW-3 and IW-1 through IW-3. The wells were allowed to equilibrate with the atmosphere for a minimum of 15 minutes. The depth from the top of the well casing to static groundwater was measured with an electric water level indicator to ± 0.01 ft. A peristaltic pump, with a drop tube set at a depth of 10 feet bgs, was used to purge all wells on site. During purging, groundwater parameters of temperature, pH, specific conductivity, dissolved oxygen (DO), and oxidation- reduction potential (ORP) were measured during purging. A visual evaluation of turbidity was made and noted. Groundwater measurements recorded in the field are reported on the field sampling forms included in Appendix A. The depth to water measurements from this and previous quarterly monitoring events are summarized on Tables 3 and 3a.

When groundwater parameters of the purged water stabilized, water samples were collected using the peristaltic pump. Samples for TPH-g, MBTEX, and fuel oxygenates were collected in hydrochloric acid (HCl) preserved 40-milliliter (ml) volatile organic analysis vials (VOAs). All samples were labeled with at minimum, project number, sample number, time, date, and sampler's name.

The samples were then entered on an appropriate chain-of-custody form and placed on water ice in a cooler 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; methyl tertiary-butyl ether (MTBE), benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA methods 8021B/8015Cm; TPH-d by EPA method 8015C; and MTBE, 1,2-Dibromoethane (EDB), and 1,2-dichloroethane (1,2-DCA) by EPA Method 8260B.

On November 5, 2009, prior to H^2O^2 infusion testing, well IW-3 was sampled following purging 3 liters of water with a peristaltic pump as described above. Well IW-3 was resampled on November 23, 2009. These samples were analyzed for TPH-g and MBTEX by EPA Method 8021B/8015Cm.

On February 8 and 23, 2010 following the infusion of 8,000 gallons of 0.5% H²O² solution wells MW-3, IW-2, and IW-3 were sampled as described above to determine the effects of the h2o2 infusion. These samples were analyzed for TPH-g and MBTEX by EPA Method 8021B/8015Cm.

On March 16, 2010, prior to initiating AEI conducted the regularly scheduled groundwater-monitoring event at the site. The well caps were removed from each well (MW-1 through MW-3 and IW-1 through IW-3). The wells were allowed to equilibrate with the atmosphere for a minimum of 15 minutes, then the wells were purge and sampled as described above.

Three (3) samples were analyzed for TPH-g; methyl tertiary-butyl ether (MTBE), benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA methods 8021B/8015Cm; TPH-d by EPA method 8015C; and 5 fuel oxygenates and lead scavengers by EPA Method 8260B.

III Field Results

Groundwater elevations for the First Quarter 2010 groundwater monitoring event ranged from 7.07 (MW-1) to 7.55 (IW-2) feet above mean sea level (amsl). Based on these measurements, groundwater flows in a southwesterly direction at a gradient of approximately 0.007 ft/ft. The flow direction and hydraulic gradient are consistent with previous monitoring events.

Groundwater elevation data, flow direction, and hydraulic gradient are summarized in Table 2: Groundwater Elevation Data. The water table elevations and the estimated groundwater flow direction are presented on Figures 3: Water Table Elevations. Please refer to Appendix A for the Groundwater Monitoring Well Field Sampling Forms, which include water quality data and other parameters collected during well purging.

IV Groundwater Quality

October 30, 2009

TPH-g and BTEX in MW-3 were essentially unchanged from the Third Quarter 2009 at concentrations of at 59,000 μ g/L, 10,000 μ g/L, 7,100 μ g/L, 1,200 μ g/L, and 3,900 μ g/L, respectively. EBD and 1,2-DCA were reported in well MW-3 at concentrations of 96 μ g/L and 470 μ g/L, respectively.

No hydrocarbons, MBTEX, EDB, or 1,2-DCA was reported in well IW-1 at standard laboratory reporting limits.

In well IW-2, TPH-g, and BTEX were reported at concentrations of 15,000 μ g/L, 1,100 μ g/L, 2,100 μ g/L, 630 μ g/L, and 2,400 μ g/L, respectively. EBD and 1,2-DCA were reported in well IW-2 at concentrations of 13 μ g/L and 51 μ g/L, respectively.

In well IW-3, TPH-g, and BTEX were reported at concentrations of 61,000 μ g/L, 10,000 μ g/L, 14,000 μ g/L, 1,400 μ g/L, and 9,800 μ g/L, respectively. EBD and 1,2-DCA were reported in well IW-3 at concentrations of 220 μ g/L and 480 μ g/L, respectively.

November 5 and 23, 2009

On November 5, 2009, TPH-g, and BTEX were reported in IW-3 at concentrations of 64,000 μ g/L, 4,000 μ g/L, 7,500 μ g/L, 1,100 μ g/L, and 7,400 μ g/L, respectively. On November 23, 2009, following the preliminary infusion tests, well IW-3 was sampled. TPH-g and BTEX concentration increased to 77,000 μ g/L. BTEX was reported at concentrations of 6,700 μ g/L, 11,000 μ g/L, 430 μ g/L, and 11,000 μ g/L, respectively.

February 8, 2010

On February 8, 2010, following infusion of 8,000 gallons of hydrogen peroxide, TPH-g and BTEX in MW-3 decreased significantly to concentrations to 13,000 μ g/L, 840 μ g/L, 1,500 μ g/L, 120 μ g/L, and 1,700 μ g/L, respectively. EBD and 1,2-DCA were reported in well MW-3 at concentrations of 42 μ g/L and 42 μ g/L, respectively.

In well IW-2 TPH-g and BTEX decreased significantly to concentrations to 630 μ g/L, 4.4 μ g/L, 17 μ g/L, 3.7 μ g/L, and 78 μ g/L, respectively. EBD and 1,2-DCA were reported in well IW-2 at concentrations of 5.1 μ g/L and 3.9 μ g/L, respectively.

In well IW-3 TPH-g and BTEX were reported at concentrations of 18,000 μ g/L, 790 μ g/L, 910 μ g/L, 38 μ g/L, and 2,600 μ g/L, respectively. EBD and 1,2-DCA were reported in well IW-3 at concentrations of 94 μ g/L and 82 μ g/L, respectively.

February 24, 2010

On February 24, 2010, TPH-g and BTEX in MW-3 rebounded to 16,000 μ g/L, 1,200 μ g/L, 1,700 μ g/L, 200 μ g/L, and 1,900 μ g/L, respectively. In well IW-2, TPH-g and BTEX rebounded to 3,500 μ g/L, 22 μ g/L, 220 μ g/L, 57 μ g/L, and 590 μ g/L, respectively.

In well IW-3, TPH-g and BTEX were reported at concentrations of 36,000 μ g/L, 2,400 μ g/L, 4,300 μ g/L, 320 μ g/L, and 460 μ g/L, respectively.

<u>March 16, 2010</u>

No TPH-g or BTEX was reported in wells MW-1, MW-2, or IW-1 at standard laboratory reporting limits

TPH-g in MW-3 rebounded to slightly over 50% of the pre-infusion level to a concentration of to 34,000 μ g/L. BTEX concentrations increased significantly, but remained well below pre-infusion levels, at 3,000 μ g/L, 4,100 μ g/L, 580 μ g/L, and 4,100 μ g/L, respectively. Xylenes increased to approximately the same as pre-infusion levels. EBD remained essentially constant at 110 μ g/L while 1,2-DCA decreased significantly to 130 μ g/L. TBA was reported at 430 μ g/L.

In well IW-2 TPH-g, and xylenes increased relative to pre-infusion levels to 20,000 μ g/L and 4,000 μ g/L, respectively. Toluene rebounded to its pre-infusion concentration, while benzene and xylenes rebounded to levels of 320 μ g/L, and 4,000 μ g/L, respectively. EBD and 1,2-DCA were reported in well IW-2 at concentrations of 20 μ g/L and 15 μ g/L, respectively. TBA was reported at 70 μ g/L.

In well IW-3, TPH-g and BTEX were reported at concentrations of 44,000 μ g/L, 3,200 μ g/L, 6,000 μ g/L, 650 μ g/L, and 5,400 μ g/L, respectively. EBD and 1,2-DCA were reported in well MW-3 at concentrations of 230 μ g/L and 220 μ g/L, respectively. TBA was reported at 120 μ g/L.

V Summary

This report documents the findings of the First Quarter 2010 groundwater monitoring event and infusion progress monitoring at the site. Overall hydrocarbon concentrations at the site have decreased following the first phase of hydrogen peroxide infusion, as shown on Figure 5: MW-5 Hydrocarbons vs. Time.

Preliminary infusion tests indicated that IW-2 has significantly less permeability that wells IW-1 and IW-3. As a consequence significantly less hydrogen peroxide was infused into IW-2. The increase in hydrocarbon concentrations in IW-2 appears to be similar to that seen in MW-3 following the initial injections in 2008, where the injection of chemical oxidants resulted in desorption of hydrocarbons from soil particles which resulted in significantly increased concentrations of dissolved hydrocarbons. It is expected that additional infusions will liberate additional adsorbed material into dissolved-phase, which will continue to be destroyed via hydrogen peroxide infusions.

VI Report Limitations

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. 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 the requested information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. 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 field, which existed at the time and location of the work.

If you have any questions regarding our investigation, please do not hesitate to contact either of the undersigned at (925) 746-6000.

Sincerely, AEI Consultants

Adrian M. Angel Project Geologist

Robert F. Flory, PG Senior Geologist



Figures

Figure 1: Site Location Map Figure 2: Site Plan Figure 3: Water Table Elevations (3/16/2010) Figure 4: Dissolved Phase Hydrocarbon Concentrations (3/16/2010) Figure 5: TPH-g Concentrations (3/16/2010) Figure 6: MW-3 Hydrocarbons vs Time

Tables

Table 1: Monitoring Well Construction Details
Table 2: Groundwater Elevation Data
Table 3: Groundwater Monitoring Sample Analytical Data
Table 4: Groundwater Monitoring Sample Analytical Data – Fuel Additives

Appendix A: Groundwater Monitoring Well Field Sampling Forms

Appendix B: Laboratory Analyses with Chain of Custody Documentation

Previous Documentation

AEI Consultants, Phase II Subsurface Investigation Report, May 18, 2005

AEI Consultants, Site Characterization Workplan, March 8, 2007

AEI Consultants, Soil and Groundwater Investigation Report, September 21, 2007

AEI Consultants, Corrective Action Pilot Test Workplan, April 7, 2008

AEI Consultants, Hydrogen Peroxide Infusion Pilot Test Workplan, August 12, 2009

Ceres Associates, Soil and Groundwater Investigation Report, June 8, 2006

Helley, E.J., et al, *Quaternary Geology of Alameda County and Surrounding Areas, California*, 1997

LRM Consulting, Inc., Notice of Unauthorized Release and Supplemental Investigation Workplan, August 29, 2006

Norfleet Consultants, Groundwater Study and Water Supply History of the East Bay Plain, Alameda and Contra Costa Counties, CA, June 19, 1998

Terra Firma, Findings of Environmental Subsurface Investigation, September 16, 2005

Touchstone Developments, Phase I Investigation, November 1, 1993

Distribution:

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Alameda County Environmental Health Services (ACEHS) (electronic) Attn: Mr. Jerry Wickham 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

GeoTracker (electronic)

FIGURES















Figure 6 - MW-3 Hydrocarbons vs Time

Date

TABLES



Table 1 - Monitoring Well Construction DetailsAEI Project # 277915

e Interval (ft)	Interval (ft)									
(ft)	(ft)									
(ft)	(ft)									
12 7 - 8	0.75 - 7									
12 6 - 7	0.75 - 6									
12 7 - 8	0.75 - 7									
12 3 - 4	.75 - 3									
10 2 4	75 2									
12 3-4	./5 - 3									
10 2 4	75 2									
12 3-4	./5 - 5									
t ansl – feet above mean sea level										
5.11* - resurveyed elevations										
5/ 5/ 5/	1/12 7 - 8 1/12 6 - 7 1/12 7 - 8 1/12 3 - 4 1/12 3 - 4 1/12 3 - 4 1/12 3 - 4 1/12 3 - 4									

Table 2 - Groundwater Elevation Data

AEI Project # 277915

Well ID (Screen Interval)	Date Collected	Well Elevation	Depth to Water	Groundwater Elevation	Elevation Change
(Sereen Interval)	Concetted	(ft amsl)	(ft)	(ft amsl)	(ft)
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	
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
MW-3	8/21/2007	15.26	8.59	6.67	
(8 - 18)	11/21/2007	15.26	8.55	6.71	0.04
	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	-0.15
	3/16/2010	15.11	7.57	7.54	
IW-1	10/30/2009	15.23	8.53	6.70	
	3/16/2010	15.23	7.68	7.55	0.85
IW-2	10/30/2009	15.06	8.37	6.69	
	3/16/2010	15.06	7.57	7.49	0.80
IW-3	10/30/2009	15.30	8.68	6.62	
	3/16/2010	15.30	7.82	7.48	0.86

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	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)

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

		Depth to	TPHg	TPHd	MTBE	Benzene	Toluene	Ethyl	Xylenes
Sample ID	Date	Water						benzene	
Sample ID	Date		Metho	d 8015		Ν	Iethod 8021	В	
							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	-	<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	-	<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

Table 3 - Groundwater Analytical DataAEI Project # 277915

		Depth to	TPHg	TPHd	MTBE	Benzene	Toluene	Ethyl	Xylenes	_
Sample ID	Date	Water						benzene		
Sample ID	Date		Metho	d 8015		N	<u>Aethod 8021</u>	В		
							µg/L			_
MW-3	3/17/2009	7.96	83,000	8,000	-	7,400	10,000	1,100	8,500	
continued	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	
IW-1	10/30/2009	8.53	<50	-	<5.0	< 0.5	< 0.5	< 0.5	< 0.5	
	3/16/2010	7.68	<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	57.0	590	
	3/16/2010	7.57	20,000	-	<100	320	2,100	450	4,000	
IW-3	10/30/2009	8.68	61,000	-	<1,000	10,000	14,000	1,400	9,800	
	11/5/2009	8.60	64,000	-	<150	4,000	7,500	1,100	7,400	after 20 gallons 0.16%
	11/23/2009	-	77,000	-	<250	6,700	11,000	430	11,000	30 gallons 0.5%
	2/8/2010	7.74	18,000	-	<50	790	910	38	2,600	After 8,000 0.5%
	2/24/2010	8.50	36,000	-	<250	2,400	4,300	320	4,600	
	3/16/2010	7.82	44,000	-	<500	3,200	6,000	650	5,400	

Table 3 - Groundwater Analytical DataAEI Project # 277915

Notes:

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

Benzene, toluene, ethylbenzene, and xylenes using EPA Method 8021B μ g/L= micrograms per liter

TPHd = total petroleum hydrocarbons as diesel (C10-C23) MTBE = methyl-tertiary butyl ether ND<50 = non detect at respective reporting limit

Sample	Date	TAME	TBA	EDB	1,2-DCA	DIPE	ETBE	MTBE
ID		μg/L	μg/L	µg/L	μg/L	μg/L	μg/L	μg/L
	8/21/2007	-05	-50	.05	50	-05	-05	10
IVI VV - 1	8/21/2007	<0.5	<3.0	<0.5	5.2	<0.5	<0.5	18
	2/26/2008	-	-	-	-	-	-	-
	2/20/2008	-	-	< 0.5	0.9 5 4	-	-	10
	0/10/2008	-	-	< 0.5	5.4	-	-	13
	9/19/2008	-	-	< 0.5	0.8	-	-	4.2
	3/17/2000	-	-	<0.5	0.8	-	-	0.02
	5/17/2009 6/15/2000	-	-	<0.5	4.0	-	-	8 1
	0/13/2009	-	-	<0.5	5.0	-	-	0.7
	9/18/2009	-	-	<0.5	5.2	-	-	0.7
MW-2	8/21/2007	< 0.5	<5.0	< 0.5	<0.5	< 0.5	< 0.5	< 0.5
	11/21/2007	-	-	-	-	-	-	-
	2/26/2008	-	-	< 0.5	< 0.5	-	-	< 0.5
	6/18/2008	-	-	< 0.5	< 0.5	-	-	< 0.5
	9/19/2008	-	-	< 0.5	< 0.5	-	-	< 0.5
	12/29/2008	-	-	< 0.5	< 0.5	-	-	< 0.5
	3/17/2009	-	-	< 0.5	< 0.5	-	-	< 0.5
	6/15/2009	-	-	< 0.5	< 0.5	-	-	< 0.5
	9/18/2009	-	-	< 0.5	< 0.5	-	-	< 0.5
MW-3	8/21/2007	<5.0	<50	34	140	<5.0	<5.0	<5.0
	11/21/2007	-	-	-	-	-	-	-
	2/26/2008	-	-	31	220	-	-	<12
	6/18/2008	-	-	21	190	-	-	<5.0
	8/4/2008	-	-	220	410	-	-	<50
	8/20/2008	-	-	330	410	-	-	<50
	9/19/2008	-	-	160	320	-	-	<17
	12/29/2008	-	-	200	440	-	-	<50
	3/17/2009	-	-	98	370	-	-	<25
	6/15/2009	-	-	87	490	-	-	<50
	9/18/2009	-	-	110	500	-	-	<17
	10/30/2009	-	-	96	470	-	-	<50
	2/8/2010	-	-	42	42	-	-	-
	3/16/2010	<25	430	110	130	<25	<25	<25
IW-1	10/30/2009	-	_	<0.5	<0.5	-	_	<0.5
	3/16/2010	<0.5	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5
IW-2	10/30/2009	-	-	13	51	-	-	<10
	2/8/2010	-	-	5.1	3.9	-	-	-
	3/16/2010	<10	70	20	15	<10	<10	<10
IW-3	10/30/2009	_	_	220	480	-	-	<10
	2/8/2010	-	-	94	82	-	-	-
	3/16/2010	<25	120	230	220	<25	<25	<25

Table 4 - Groundwater Analytical Data - Fuel AdditivesAEI Project # 277915

Notes:

 $\mu g/L=$ micrograms per liter

ND<50 = non detect at respective reporting limit MTBE - methyl tertiary butyl ether TAME - tert-amyl methyl ether

TBA - tert-butyl alcohol

DIPE - diisopropyl ether

ETBE - ethyl tert-butyl ether

APPENDIX A

MONITORING WELL FIELD SAMPLING FORMS



Monitoring Well Number: MW-1

Project Name:	ALLEN	Date of Sampling: 3/16/2010
Job Number:	270308	Name of Sampler: A. Nieto
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"				
Wellhead Condition	ОК				
Elevation of Top of Casing (feet above msl)	14.92				
Depth of Well	18.00				
Depth to Water (from top of casing)	7.80				
Water Elevation (feet above msl)	7.12				
Well Volumes Purged	Micropurged with peristaltic pump				
Actual Volume Purged (liters)	3.5				
Appearance of Purge Water	Clear				
Free Product Present?	No	Thickness (ft):			

GROUNDWATER SAMPLES

Number of Sample							
Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	0.5	16.05	6.04	10	6.13	-37.2	Clear
	1.0	16.32	5.73	914	3.11	-0.3	Clear
	1.5	16.33	5.69	915	2.54	-33.4	Clear
	2.0	16.33	5.63	915	2.32	-32.0	Clear
	2.5	16.32	5.62	915	2.19	-30.4	Clear
	3.0	16.31	5.59	915	2.09	-28.4	Clear
	3.5	16.30	5.59	915	1.94	-27.0	Clear

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Clear with no odors

Monitoring Well Number: MW-2

Project Name:	ALLEN	Date of Sampling: 3/16/2010
Job Number:	270308	Name of Sampler: A. Nieto
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"						
Wellhead Condition	ОК						
Elevation of Top of Casing (feet above msl)	15.27						
Depth of Well		17.00					
Depth to Water (from top of casing)		8.19					
Water Elevation (feet above msl)	7.08						
Well Volumes Purged	Micropurged with peristaltic pump						
Actual Volume Purged (liters)	3.0				3.0		
Appearance of Purge Water	Clear						
Free Product Present?	No	Thickness (ft):					

GROUNDWATER SAMPLES

Number of Sample							
Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	0.5	16.68	6.04	772	4.06	-23.5	Clear
	1.0	16.70	5.73	771	3.20	-24.7	Clear
	1.5	16.70	5.69	769	2.80	-24.7	Clear
	2.0	16.68	5.63	768	2.65	-24.3	Clear
	2.5	16.66	5.62	768	2.63	-23.2	Clear
	3.5	16.66	5.59	768	2.61	-22.4	Clear

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Clear with no odors

Monitoring Well Number: MW-3

Project Name:	ALLEN	Date of Sampling: 2/24/10.
Job Number:	270308	Name of Sampler: A. Nieto
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")		2"			
Wellhead Condition	ОК				
Elevation of Top of Casing (feet above msl)		15.26			
Depth of Well		18.00			
Depth to Water (from top of casing)		8.78			
Water Elevation (feet above msl)	6.48				
Well Volumes Purged	Micropurged with peristaltic pump				
Actual Volume Purged (liters)	4.0				
Appearance of Purge Water	light yellow				
Free Product Present?	nt? No Thickness (ft):				

GROUNDWATER SAMPLES

Number of Samples/Container Size							
Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	0.5	16.50	6.52	3,966	2.03	-142.8	Light yellow
	1.0	16.46	6.62	3,912	1.70	-153.8	Light yellow
	1.5	16.41	6.65	3,865	0.95	-157.9	Light yellow
	2.0	16.38	6.67	3,836	0.84	-160.8	Light yellow
	3.0	16.36	6.69	3,825	0.67	-160.9	Light yellow
	4.0	16.36	6.69	3,830	0.65	-169.0	Light yellow

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Light yellow with strong hydrocarbon odor

Monitoring Well Number: IW-1

Project Name:	ALLEN	Date of Sampling: 3/16/2010
Job Number:	270308	Name of Sampler: A. Nieto
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"				
Wellhead Condition	ОК				
Elevation of Top of Casing (feet above msl)	15.26				
Depth of Well	18.00				
Depth to Water (from top of casing)	7.68				
Water Elevation (feet above msl)		7.58			
Well Volumes Purged	Micropurged with peristaltic pump				
Astual Maluma Duran d (litera)		5.0			
Actual volume Purged (liters)		5.0			
Appearance of Purge Water	Clear				
Free Product Present?	P No Thickness (ft):				

GROUNDWATER SAMPLES

Number of Samples/Container Size							
Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	0.5	16.17	5.13	1,429	14.74	-39.0	Clear
	1.0	16.21	4.90	1,437	16.53	-35.8	Clear
	1.5	16.19	4.84	1,439	17.05	-33.5	Clear
	2.0	16.17	4.83	1,438	17.07	-32.2	Clear
	3.0	16.11	4.80	1,432	16.50	-29.0	Clear
	4.0	16.08	4.80	1,426	16.36	-27.5	Clear
	5.0	16.09	4.80	1,420	16.66	-25.1	Clear

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Clear, no odor

Monitoring Well Number: IW-2

Project Name:	ALLEN	Date of Sampling: 3/16/2010	
Job Number:	270308	Name of Sampler: A. Nieto	
Project Address:	325 Martin Luther King Jr Way, Oakland CA		

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"						
Wellhead Condition	ОК						
Elevation of Top of Casing (feet above msl)		15.26					
Depth of Well	18.00						
Depth to Water (from top of casing)		7.57					
Water Elevation (feet above msl)		7.69					
Well Volumes Purged	Micropurged with peristaltic pump						
Actual Volume Purged (liters)	4.0				4.0		
Appearance of Purge Water	Clear						
Free Product Present?	? No Thickness (ft):						

GROUNDWATER SAMPLES

Number of Samples/Container Size							
Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	0.5	16.39	5.20	1,069	2.30	-56.0	Clear
	1.0	16.42	5.36	1,075	0.91	-56.4	Clear
	1.5	16.38	5.42	1,073	0.68	-56.1	Clear
	2.0	16.37	5.40	1,077	0.67	-56.0	Clear
	3.0	16.37	5.39	1,072	0.64	-55.7	Clear
	4.0	16.34	5.43	1,070	0.63	-55.5	Clear

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Clear, with slight hydrocarbon odor Purge line @ 10.0 ft bgs

Monitoring Well Number: IW-3

Project Name:	ALLEN	Date of Sampling: 3/16/2010
Job Number:	270308	Name of Sampler: A. Nieto
Project Address:	325 Martin Luther King Jr Way, Oakland CA	

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")		2"			
Wellhead Condition	ОК				
Elevation of Top of Casing (feet above msl)		15.26			
Depth of Well		18.00			
Depth to Water (from top of casing)		7.82			
Water Elevation (feet above msl)	7.44				
Well Volumes Purged	Micropurged with peristaltic pump				
Actual Volume Purged (liters)	4.0				
Appearance of Purge Water	Clear				
Free Product Present?	nt? No Thickness (ft):				

GROUNDWATER SAMPLES

Number of Samples/Container Size							
Time	Volume Removed (liters)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	0.5	16.53	5.49	844	5.70	-104.2	Clear
	1.0	16.58	5.51	781	0.63	-90.6	Clear
	1.5	16.56	5.52	771	0.56	-88.4	Clear
	2.0	16.52	5.53	736	0.45	-78.1	Clear
	3.0	16.51	5.50	736	0.45	-76.3	Clear
	4.0	16.53	5.51	738	0.40	-74.7	Clear

COMMENTS (i.e., sample odor, well recharge time & percent, etc.)

Clear, strong hydrocarbon odor Purge line @ 10.0 ft b gs

APPENDIX B

LABORATORY ANALYTICAL AND CHAIN OF CUSTODY DOCUMENTATION



McCampbell Ar	nalytical, Inc.	1534 Will Web: www.mc Telepho	CA 94565-1701 aain@mccampbell.com 925-252-9269	
AEI Consultants	Client Project ID: #27790	1; Allen	Date Sampled:	10/30/09
2500 Camino Diablo, Ste. #200		Date Received:	10/30/09	
Walnut Creek CA 94597	Client Contact: Robert Flo	ory	Date Reported:	11/06/09
Wallat Creek, Cri 94597	Client P.O.: #WC082073		Date Completed:	11/06/09

WorkOrder: 0910938

November 06, 2009

Dear Robert:

Enclosed within are:

- 1) The results of the **4** analyzed samples from your project: **#277901; Allen,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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.

0910938

	McCampbell Analytical, Inc. 1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701 Telephone: (925) 252-9262 Fax: (925) 252-9269									1	UI	CHAIN OF CUSTODY REC RN AROUND TIME RUSH 24 HR 48 Tracker EDF PDF Excel											CORD 48 HR 72 Write On (D 2 HR (DW	HR 5 DAY								
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Walnut Creek, CA 94597 E-Mail: rflory@aeiconsultants.com											1 E		&F/			802					310									Meta	ls				
Tel: (925) 746-6000 Fax: (925) 746-6099												15)/1		20 E	8.1)	*	502					8									Anal	ysis:			
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	SAMPLE ID	LOCATION (Field Point Name)	Date	Time	# Containers	Type Containe	Water	Soil	Sludge	Other	Ice	HCI	Other Other	BTEX & TPH as G	TPH- multirange	Total Petroleum	Total Petroleum	HVOCs EPA 820	MTBE, EDB, 1,	Pesticides EPA 6	PCBs EPA 608 /	EPA 624 / 8260	EPA 625 / 8270	PAH's/PNA's t	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421								
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1534 Willow Pass Rd Pittsburg, CA 94565-1701

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262					Work()rder:	09109	38	Clien	tCode:	AEL				
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Report to:					I	Bill to:					Rec	quested	TAT:	5 (days
Robert Flory	Email:	rflory@aeico	nsultants.com			Dei	nise Mo	ockel							
AEI Consultants	cc:					AE	l Consu	ltants							
2500 Camino Diablo, Ste. #200	PO:	#WC082073				250	00 Cami	ino Diablo	o, Ste. #2	200	Dat	te Rece	ived:	10/30/	2009
Walnut Creek, CA 94597	ProjectNo:	#277901; Alle	en			Wa	Inut Cre	ek, CA 9	4597		Dat	te Print	ted:	10/30/	2009
(925) 283-6000 FAX (925) 283-6121						dm	ockel@	aeiconsu	ltants.co	m					
								Reques	sted Test	s (See l	egend k	pelow)		_	
Lab ID Client ID		Matrix	Collection Date	Hold	1	2	3	4	5 6	7	8	9	10	11	12

				-								
0910938-001	MW-3	Water	10/30/2009 10:35		В	А	А					
0910938-002	IW-1	Water	10/30/2009 10:00		В	А						
0910938-003	IW-2	Water	10/30/2009 9:45		В	А						
0910938-004	IW-3	Water	10/30/2009 10:15		В	А						

Test Legend:

1	8260VOC_W
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2	G-MBTEX_W	
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3	PREDF REPORT
8	

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Prepared by: Ana 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.



"When Ouality Counts"

Sample Receipt Checklist

Client Name: AEI Consultants			Date a	and Time Received:	10/30/2009 7:56:26 PM							
Project Name: #277901; Allen			Check	klist completed and re	eviewed by: Ana Venegas							
WorkOrder N°: 0910938 Matrix Water			Carrie	er: <u>Client Drop-In</u>								
Chain	of Cu	stody (COC)	Informa	ation								
Chain of custody present?	Yes	\checkmark	No 🗆									
Chain of custody signed when relinquished and received?	Yes	\checkmark	No 🗆									
Chain of custody agrees with sample labels?	Yes	\checkmark	No 🗌									
Sample IDs noted by Client on COC?	Yes	\checkmark	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 🗆		NA 🔽							
Shipping container/cooler in good condition?	Yes	\checkmark	No 🗆									
Samples in proper containers/bottles?	Yes	✓	No 🗆									
Sample containers intact?	Yes	\checkmark	No 🗆									
Sufficient sample volume for indicated test?	Yes		No 🗌									
Sample Prese	vatior	and Hold T	ime (HT	<u>) Information</u>								
All samples received within holding time?	Yes	\checkmark	No 🗌									
Container/Temp Blank temperature	Coole	r Temp: 10	4°C		NA 🗆							
Water - VOA vials have zero headspace / no bubbles?	Yes	\checkmark	No 🗆	No VOA vials submi	tted							
Sample labels checked for correct preservation?	Yes	✓	No 🗌									
Metal - pH acceptable upon receipt (pH<2)?	Yes		No 🗆		NA 🗹							
Samples Received on Ice?	Yes	✓	No 🗆									
(Ісе Тур	e: WE	TICE)										
* NOTE: If the "No" box is checked, see comments below.												

Client contacted:

Date contacted:

Contacted by:

Comments:

McCampbell An	alytical, In Counts"	<u>c.</u>	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269								
AEI Consultants	Client Pr	oject ID: #2779	01; Allen	Date Sampled:	10/30/09						
2500 Camino Diablo, Ste. #200				Date Received:	10/30/09						
	Client C	ontact: Robert l	Flory	Date Extracted:	: 11/02/09-11/03/09						
Walnut Creek, CA 94597	Client P.	O.: #WC082073	}	Date Analyzed	11/02/09-11/03/09						
	Volatile O	rganics by P&T	and GC/MS*								
Extraction Method: SW5030B	Anal	ytical Method: SW8	260B	1	Work Order:	0910938					
Lab ID	0910938-001B	0910938-002B	0910938-003B	0910938-004B							
Client ID	MW-3	IW-1	IW-2	IW-3	Reporting Limit for DF =1						
Matrix	W	W	W	W							
DF	100	1	20	20	S	W					
Compound		Con	centration		ug/kg	µg/L					
1,2-Dibromoethane (EDB)	96	ND	13	220	NA	0.5					
1,2-Dichloroethane (1,2-DCA)	470	ND	51	480	NA	0.5					
Methyl-t-butyl ether (MTBE)	ND<50	ND	ND<10	ND<10	NA	0.5					
	Surr	ogate Recoveri	es (%)								
%SS1:	97	96	94	96							
%SS2:	106	108	107	105							
%SS3:	107	104	103	110							
Comments	a3										
* water and vapor samples and all TCLP & product/oil/non-aqueous liquid samples in ND means not detected above the reportin	& SPLP extracts are mg/L. ng limit/method det	reported in µg/L, s rection limit; N/A	oil/sludge/solid samp means analyte not ap	pplicable to this anal	amples in µg. ysis.	/wipe,					

surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.

When Ouality Counts"						1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269									
AEI C	Consultants			Client I	Project ID: #	‡277901; All	en	Date Sample	ed: 10/30	/09					
2500 (Camino Diablo, Ste. #	200													
				Client	Contact: Ro	Dert Flory Date Extracted: 11/03/09-11/06/09									
Walnu	tt Creek, CA 94597			Client I	P.O.: #WC08	82073		Date Analyz	ed: 11/03	/09-11/	06/09				
Extracti	G	asoline Ra	ange (C6-C12)	Volatile Hy	drocarbons	as Gasoline	e with BTEX a	and MTBE*	k Wor	Ordor	0010029			
Lab ID	Client ID	Client ID Matrix TPH(g) MTBE Benzene Toluer							Xylenes	DF	% SS	Comments			
001A	MW-3	w	59	,000	ND<900	10,000	7100	1200	3900	50	99	d1			
002A	IW-1	W	1	ND	ND	ND	ND	ND	ND	1	100	b1			
003A	IW-2	w	15	,000	ND<100	1100	2100	630	2400	20	107	d1			
004A	IW-3	w	61	,000	ND<1000	10,000	14,000	1400	9800	200	107	d1			
<u> </u>															
Repor	rting Limit for $DF = 1$; eans not detected at or	W S	-	50 1.0	5.0 0.05	0.5 0.005	0.5	0.5	0.5		µg/I mg/K	L Kg			
aboy	ve the reporting limit										6	~			

* 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.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

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

Angela Rydelius, Lab Manager

b1) aqueous sample that contains greater than ~1 vol. % sediment

d1) weakly modified or unmodified gasoline is significant



McCampbell Analytical, Inc. "When Ouality Counts"

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water		(QC Matrix	k: Water			Batch	ID: 46864		WorkOrder: 0910938				
EPA Method SW8260B	Extrac	tion SW	5030B					5	Spiked Sar	nple ID	: 0910938-0)02B		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)					
Analyte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
tert-Amyl methyl ether (TAME)	ND	10	82.6	86.9	5.09	83.5	83.7	0.229	70 - 130	30	70 - 130	30		
Benzene	ND	10	102	103	1.02	100	99.1	1.10	70 - 130	30	70 - 130	30		
t-Butyl alcohol (TBA)	ND	50	75.9	83.7	9.75	74.7	76.5	2.41	70 - 130	30	70 - 130	30		
Chlorobenzene	ND	10	90.8	94	3.54	99.4	99.5	0.0727	70 - 130	30	70 - 130	30		
1,2-Dibromoethane (EDB)	ND	10	86	93.8	8.73	104	103	1.26	70 - 130	30	70 - 130	30		
1,2-Dichloroethane (1,2-DCA)	ND	10	88.2	99.6	11.7	90.9	89.3	1.77	70 - 130	30	70 - 130	30		
1,1-Dichloroethene	ND	10	120	122	2.27	109	107	2.33	70 - 130	30	70 - 130	30		
Diisopropyl ether (DIPE)	ND	10	102	105	3.21	98	98.2	0.164	70 - 130	30	70 - 130	30		
Ethyl tert-butyl ether (ETBE)	ND	10	93.6	98.7	5.36	92	91	1.17	70 - 130	30	70 - 130	30		
Methyl-t-butyl ether (MTBE)	ND	10	92.7	99.1	6.75	92.2	91.5	0.819	70 - 130	30	70 - 130	30		
Toluene	ND	10	96.1	99.1	3.14	106	107	0.143	70 - 130	30	70 - 130	30		
Trichloroethene	ND	10	114	115	1.10	119	117	1.51	70 - 130	30	70 - 130	30		
%SS1:	96	25	99	102	3.07	96	95	0.562	70 - 130	30	70 - 130	30		
%SS2:	108	25	103	103	0	103	104	0.309	70 - 130	30	70 - 130	30		
%SS3:	104	2.5	93	96	3.12	107	105	2.07	70 - 130	30	70 - 130	30		
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:					

BATCH 46864 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0910938-001B	10/30/09 10:35 AM	11/02/09	11/02/09 11:43 PM	0910938-002B	10/30/09 10:00 AM	11/03/09	11/03/09 12:27 AM
0910938-003B	10/30/09 9:45 AM	11/03/09	11/03/09 3:58 PM	0910938-004B	10/30/09 10:15 AM	11/03/09	11/03/09 4:42 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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with 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.

DHS ELAP Certification 1644





"When Ouality Counts"

QC SUMMARY REPORT FOR SW8021B/8015Bm

QC Matrix: Water W.O. Sample Matrix: Water BatchID: 46863 WorkOrder: 0910938 EPA Method SW8021B/8015Bm Extraction SW5030B Spiked Sample ID: 0911027-003A MSD MS-MSD LCS LCSD LCS-LCSD Sample Spiked MS Acceptance Criteria (%) Analyte % RPD MS / MSD RPD LCS/LCSD RPD µg/L µg/L % Rec. % Rec. % Rec. % Rec. % RPD TPH(btex) ND 113 116 2.33 0.856 70 - 130 70 - 130 60 116 115 20 20 MTBE 10 110 108 ND 106 3.83 110 1.63 70 - 130 2.0 70 - 130 20 Benzene ND 10 96.1 96.3 0.236 99.2 104 4.79 70 - 130 20 70 - 130 20 Toluene ND 10 93.3 93.6 0.317 87.9 92.9 5.56 70 - 130 20 70 - 130 20 Ethylbenzene ND 10 93.6 94.3 0.827 88.4 92.2 4.18 70 - 130 20 70 - 130 20 Xylenes ND 30 96 97 0.964 102 106 3.71 70 - 130 2.0 70 - 130 20 20 %SS: 100 10 97 97 0 97 99 2.83 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 46863 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0910938-001A	10/30/09 10:35 AM	11/03/09	11/03/09 1:41 AM	0910938-002A	10/30/09 10:00 AM	11/06/09	11/06/09 3:36 PM
0910938-003A	10/30/09 9:45 AM	11/03/09	11/03/09 3:38 AM	0910938-004A	10/30/09 10:15 AM	11/04/09	11/04/09 12:10 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.

£ 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.



McCampbell An "When Ouality	nalytical, Inc.	1534 Will Web: www.mc Telepho	ow Pass Road, Pittsburg, campbell.com E-mail: m one: 877-252-9262 Fax:	CA 94565-1701 ain@mccampbell.com 925-252-9269
AEI Consultants	Client Project ID: #27790	1; Allen	Date Sampled:	11/05/09
2500 Camino Diablo, Ste. #200			Date Received:	11/05/09
Walnut Creek, CA 94597	Client Contact: Robert Flo	ory	Date Reported:	11/10/09
Wallact Creek, Cri 91091	Client P.O.: #WC082086		Date Completed:	11/09/09

WorkOrder: 0911152

November 10, 2009

Dear Robert:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **#277901; Allen,**
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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.

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Telepho	ne: (925) 25	2-9262	10,011		F	ax:	(92	5) 2	52-9	926	69			⊢						SV.			5	RU	SH	2	4 H	R	48	3 HR	1	72 H	R 5	DAY
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Report To: Robe	rt Flory		E	ill To	: Sar	ne								⊢	_	_	_		Ana	lysi	s Re	que	st	-	-	-	_	\rightarrow	(Othe	r	C	mme	ents
Company: AEI (Consultants	PO	Fu	10	82	0	36				_					(H)																Fil	ter	6
2500	Camino Dia	blo												BE		7/B&			020)													M	mpies	s IOF
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Tel: (925) 746-60	000		<u> </u>	ax: (925)	74	6-60	199						8015		520	418.	list	a 600				1	è.								V.	e /	No
Project #: 277901	PO: WC	082086		rojec	t Nai	ne:	All	en					_	+		se (5	ns (-	asic	(epi					20			8							140
Project Location:	: 325 Marti	n Luther	King, Jr	. Wa	y, Oa	klai	ld			-				80211		ireas	arbo	10 P	only	80				620			601(
Sampler Signatu	re: M	r U	12	_	-	<u> </u>		-	-	-	ME	TH	OD	602/5	015	80	droc	- 80	CA	/ 80	80	Ö		<pre>K</pre>			9.2							
		SAME	LING	2	ners		MA	TR	IX	4	PRE	SER	VED	Gas	ge (8	m Oil	m Hy	\$260	1,2 D	A 608	8 / 80	0 0		s by	12	s	21/23							
SAMPLE ID	LOCATION (Field Point Name)	Date	Time	Containe	/pe Contai	ater	lic	ir	udge	ther	9 10	NO.	ther	EX & TPH a	H- multiran	otal Petroleu	otal Petroleu	VOCs EPA	TBE, EDB,	sticides EP/	CBs EPA 60	A 624 / 826	A 625 / 82	ANY / S'HA	AM-L/ Meta	JFT 5 Metal	ad (7240/74							
	12	11/5/04		#	F.	12	š	A	S	익	Plan	리브	= 0	BI	TT.	Ţ	T	H	N	Pe	×			A	3	5	3							
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1534 Willow Pass Rd Pitteburg CA 94565 1701

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkOr	rder: 091115	52 Client	Code: AEL		
	WaterTrax	WriteOn	EDF	Excel	Fax	🖌 Email	HardCopy	ThirdParty	J-flag
Report to:				Bi	II to:		Rec	quested TAT:	5 days
Robert Flory AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597 (925) 283-6000 FAX (925) 283-612	Email: cc: PO: ProjectNo: 21	rflory@aeiconsul #WC082086 #277901; Allen	ltants.com		Denise Moc AEI Consult 2500 Camir Walnut Cree dmockel@a	kel ants no Diablo, Ste. #2 ek, CA 94597 neiconsultants.cor	00 Dat Dat n	te Received: te Printed:	11/05/2009 11/05/2009
						Requested Test	s (See legend k	pelow)	

				Requested rests (dec regend below)											
Lab ID	Client ID	Matrix	Collection Date Hold	1	2	3	4	5	6	7	8	9	10	11	12
			· · · · · · · · · · · · · · · · · · ·		r	1	T	1	1	1	1				
0911152-001	IW-3	Water	11/5/2009 9:35	A	Α										

Test Legend:

1	G-MBTEX_W
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2	PREDF REPORT
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Prepared by: Samantha Arbuckle

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.



"When Ouality Counts"

Sample Receipt Checklist

Client Name:	AEI Consultants				Date an	nd Time Received:	11/5/2009	6:52:07 PM
Project Name:	#277901; Allen				Checkli	ist completed and re	eviewed by:	Samantha Arbuckle
WorkOrder N°:	0911152	Matrix <u>Water</u>			Carrier:	Client Drop-In		
		<u>Chain</u>	of Cu	stody (C	OC) Informat	ion		
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	\checkmark	No 🗌			
Sample IDs noted	by Client on COC?		Yes	✓	No 🗆			
Date and Time of	collection noted by Cli	ent on COC?	Yes	✓	No 🗆			
Sampler's name r	noted on COC?		Yes		No 🗆			
		<u>S</u>	ample	Receipt	Information			
Custody seals int	tact on shipping contai	iner/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	\checkmark	No 🗆			
Sufficient sample	volume for indicated	test?	Yes		No 🗌			
		Sample Prese	rvation	and Ho	ld Time (HT)	Information		
All samples recei	ved within holding time	e?	Yes		No 🗌			
Container/Temp E	Blank temperature		Coole	r Temp:	9.4°C		NA 🗆	
Water - VOA vial	ls have zero headspac	ce / no bubbles?	Yes	✓		No VOA vials submi	tted 🗆	
Sample labels ch	necked for correct pres	servation?	Yes	✓	No 🗌			
Metal - pH accept	table upon receipt (pH	<2)?	Yes		No 🗆		NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No 🗆			
		(Ісе Тур	e: WE	TICE))			
* NOTE: If the "N	lo" box is checked, se	e comments below.						

Client contacted:

Date contacted:

Contacted by:

Comments:

	McCampbe	ell An en Oualitv	alyti	ical, Ir	<u>nc.</u>	Web	1534 Willow P : www.mccampl Telephone: 8	ass Road, Pittsbur bell.com E-mail: 77-252-9262 Fa	g, CA 94565-17 main@mccamp x: 925-252-926	701 bell.com 9		
AEI C	Consultants			Client P	roject ID: #	277901; All	en	Date Sample	ed: 11/05	5/09		
2500	Camino Diablo, Ste. #2	00						Date Receiv	ed: 11/05	5/09		
				Client C	Contact: Ro	bert Flory		Date Extract	ed: 11/06	5/09		
Walnu	ut Creek, CA 94597			Client P	2.O.: #WC08	82086		Date Analyz	ed: 11/06	5/09		
Extraction	Ga on method: SW5030B	asoline l	Range ((C6-C12)	Volatile Hy Analyt	drocarbons	as Gasoline	e with BTEX a	and MTBE*	k Worl	k Order: (0911152
Lab ID	Client ID	Matrix	TP	PH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	IW-3	W	64	,000	ND<150	4000	7500	1100	7400	20	102	d1
Repo:	rting Limit for DF =1;	W		50	5.0	0.5	0.5	0.5	0.5		μg/L	,
abov	ve the reporting limit	S		1.0	0.05	0.005	0.005	0.005	0.005		mg/K	g

* 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.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

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

Angela Rydelius, Lab Manager

d1) weakly modified or unmodified gasoline is significant



"When Ouality Counts"

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water		(QC Matrix	k: Water			Batch	ID: 46925		Work	Order: 09111	52
EPA Method SW8021B/8015Bm	Extrac	ction SW	5030B					s	Spiked San	nple ID	: 0911141-0	05A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	e Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex ^f)	ND	60	116	117	1.67	113	120	6.26	70 - 130	20	70 - 130	20
MTBE	ND	10	110	114	3.64	114	113	1.15	70 - 130	20	70 - 130	20
Benzene	ND	10	101	105	3.53	104	97.2	6.63	70 - 130	20	70 - 130	20
Toluene	ND	10	90.4	93	2.86	101	95.1	6.13	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	90.7	93.9	3.48	99.6	95.1	4.64	70 - 130	20	70 - 130	20
Xylenes	ND	30	106	109	2.98	100	95.7	4.75	70 - 130	20	70 - 130	20
%SS:	103	10	97	97	0	100	94	6.26	70 - 130	20	70 - 130	20
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following o	exceptions:			

			BATCH 46925 SL	JMMARY			
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0911152-001A	11/05/09 9:35 AM	11/06/09	11/06/09 8:29 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.



McCampbell An "When Ouality"	nalytical, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269							
AEI Consultants	Client Project ID: Allen		Date Sampled:	11/23/09					
2500 Camino Diablo, Ste. #200			Date Received:	11/23/09					
Walnut Creek CA 94597	Client Contact: Robert Flo	ory	Date Reported:	11/30/09					
	Client P.O.: #WC082121		Date Completed:	11/30/09					

WorkOrder: 0911564

November 30, 2009

Dear Robert:

Enclosed within are:

- 1) The results of the **1** analyzed sample from your project: **Allen**,
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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.

				O°	11	13	50	e	1																								
W W Te	lcCAMP ebsite: <u>www.n</u> ephone: (87	BELL 1534 WI PITTSBU ccampbe 7) 252-92	ANA LLOW PA RG, CA 9 ILcom Er 62	LY ASS RO 4565-1 nail: n	FIC AD 701 nain@ Fax	AI	2, I	NC	.com 926	n i9					TUI Geo	RN Tra	AR	OU ou	CHL JNE EDF		N IM	OF E PE Ch	F C		ST SH Examp	Ol 24 xce		R	48 Wr	HR HR	On	D 72 H (D flag	R 5 DAY W)
Report To: Ket	bert	T-lor	1	Bill To): <u>(</u>	an	ne												A	nal	ysis	Re	que	st						T	Oth	er	Comments
Company: AC PO#WC082 Tele: COX 99 Project #: Project Location: Sampler Signatur	I Cons 121 4-2899 Mart	in litt	I I I I I I I I I I I I I I I I I I I	E-Ma Fax: (Projec	il: GON t Nai		(4- 1) 9 (MA	21 1 (1) 149	890 -Ei L		ч [ME	THO	DD	as (602 / 8021 + 8015) / MTBE		& Grease (1664 / 5520 E/B&F)	drocarbons (418.1)	()	LY (EPA 602 / 8021)	(CI Pesticides)	3's ONLY; Aroclors / Congeners	Pesticides)	veidic CI Herbicides)	60 (VOCs)	70 (SVOCs)	10 (PAHs / PNAs)	0.8 / 6020)	.7 / 200.8 / 6010 / 6020)	6010 / 6020)				Filter Samples for Metals analysis: Yes / No
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Container	Water	Soil	Air .	Sludge	Other	HCL	ONH	Other	BTEX & TPH as Ga	TPH as Diesel (8015	Total Petroleum Oil	Total Petroleum Hy	EPA 8260 (HVOCs	MTBE / BTEX ONI	EPA 505/ 608 / 8081	EPA 608 / 8082 PCB	EPA 507 / 8141 (NP	EPA 515.3 / 8151 (A	EPA 524.2 / 624 / 82	EPA 525.2 / 625 / 82	EPA 8270 SIM / 831	CAM 17 Metals (200	LUFT 5 Metals (200	Lead (200.7 / 200.8 /				
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Relinquished By:		Date:	Time:	Rece	ived B	14	11				2			JC GC	E/t° OOD	S.	DIT	ION			2					-		CO	MM	IENI	rs:	7	
Relinquished By:		Date:	Time:	Rece	ived B	iy:	~~	-		6				HI DI AI	EAD ECHI PPRO	SPA ORI PRI	CE A NAT ATE	ED I CON	NT_IN LA	AB_ NER	es_	~	_										
Relinquished By:		Date:	Time:	Rece	ived B	y:								PF	RESE	RVA	TIO	VON	0.48	08	¢G	ME pH<	TAI	LS	оті	HER							

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1534 Willow Pass Rd . . .

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				V	Work(Order:	09115	64	C	lientC	ode: AF	CL				
	WaterTrax	WriteOn	✓ EDF		Excel	Ľ	Fax		Email		HardC	Сору	Thir	rdParty	J	-flag
Report to:					I	Bill to:						Req	uested	TAT:	5	days
Robert Flory	Email:	rflory@aeicon	sultants.com			Dei	nise Mo	ockel								
AEI Consultants	CC:					AE	l Consu	ltants								
2500 Camino Diablo, Ste. #200	PO:	#WC082121				250	00 Cam	ino Dia	blo, Ste	e. #200)	Date	e Rece	ived:	11/23/	/2009
Walnut Creek, CA 94597	ProjectNo:	Allen				Wa	Inut Cre	eek, CA	94597			Date	e Prin	ted:	11/23	/2009
(925) 283-6000 FAX (925) 283-61	21					dm	ockel@	aeicon	sultant	s.com						
								Requ	uested	Tests ((See leg	end b	elow)			
Lah ID Oliant I		Matular	Callestian Date	Hald	4	•	2	4		~	-	•	•	40	4.4	40

Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
0911564-001	IW-3	Water	11/23/2009 13:35		А	Α										

Test Legend:

1	G-MBTEX_W
6	
11	

2	PREDF REPORT
7	
12	

3	
8	

4	
9	

5	
10	

Pre	pared	by:	Maria	V	enegas
-					

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.



"When Ouality Counts"

Sample Receipt Checklist

Client Name:	AEI Consultants						Date a	and Tii	me Received:	11/23/2009	5:00:05 PM
Project Name:	Allen						Check	dist co	ompleted and r	eviewed by:	Maria Venegas
WorkOrder N°:	0911564	Matrix	<u>Water</u>				Carrie	er:	Client Drop-In		
			Chain	of Cu	stody (C	:OC) In	forma	ation			
Chain of custody	present?			Yes		No					
Chain of custody	signed when relinquis	shed and	d received?	Yes	\checkmark	No					
Chain of custody	agrees with sample la	abels?		Yes		No					
Sample IDs noted	by Client on COC?			Yes	✓	No					
Date and Time of	collection noted by Cli	ent on C	OC?	Yes	✓	No					
Sampler's name r	noted on COC?			Yes	✓	No					
			<u>Sa</u>	ample	Receipt	Inform	nation	<u>1</u>			
Custody seals int	tact on shipping contai	iner/cool	er?	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	\checkmark	No					
Sufficient sample	e volume for indicated	test?		Yes		No					
		Sa	mple Preser	vatior	and Ho	old Tim	e (HT) Info	rmation		
All samples recei	ived within holding time	e?		Yes		No					
Container/Temp E	Blank temperature			Coole	r Temp:	3.6°C				NA 🗆	
Water - VOA vial	ls have zero headspac	ce / no b	ubbles?	Yes	✓	No		No V	OA vials subm	itted 🗌	
Sample labels ch	necked for correct pres	servation	1?	Yes	✓	No	> 🗌				
Metal - pH accep	table upon receipt (pH	<2)?		Yes		No				NA 🗹	
Samples Receive	ed on Ice?			Yes	✓	No					
			(Ice Type	e: WE	TICE)					
* NOTE: If the "N	lo" box is checked, se	e comm	ents below.								

Client contacted:

Date contacted:

Contacted by:

Comments:

	McCampbe	ell An en Oualitv	alyti	ical, Ir	<u>nc.</u>	Web	1534 Willow P : www.mccamp Telephone: 8	Pass Road, Pittsburg, CA 94565-1701 pbell.com E-mail: main@mccampbell.com 877-252-9262 Fax: 925-252-9269								
AEI C	Consultants			Client F	Project ID:	Allen		Date Sample	ed: 11/23	/09						
2500	Camino Diablo, Ste. #2	200						Date Receiv	ed: 11/23	/09						
	,			Client C	Contact: Ro	bert Flory		Date Extracted: 11/24/09								
Walnı	it Creek, CA 94597			Client P	2.O.: #WC0	82121		Date Analyz	xed: 11/24	-/09						
Extraction	Ga on method: SW5030B	asoline I	Range ((C6-C12)	Volatile Hy Analy	drocarbons	as Gasoline	e with BTEX a	and MTBE*	k Wor	k Order:	0911564				
Lab ID	Client ID	Matrix	TP	PH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments				
001A	IW-3	W	77	7,000	ND<250	6700	11,000	430	11,000	50	107	d1				
Repor	rting Limit for DF =1;	W		50	5.0	0.5	0.5	0.5	0.5		μg/I					
abov	ve the reporting limit	S		1.0	0.05	0.005	0.005	0.005	0.005		mg/K	g				

* 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.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

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

Angela Rydelius, Lab Manager

d1) weakly modified or unmodified gasoline is significant



McCampbell Analytical, Inc. "When Ouality Counts"

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water			QC Matrix	c: Water			Batch	ID: 47259	WorkC	kOrder: 0911564		
EPA Method SW8021B/8015Bm	Extra	ction SW	5030B					5	Spiked Sar	nple ID	: 0911582-0	010A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	e Criteria (%))
, indigite	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex ^f)	ND	60	111	114	2.91	93.1	112	18.2	70 - 130	20	70 - 130	20
MTBE	ND	10	123	121	1.93	120	119	0.459	70 - 130	20	70 - 130	20
Benzene	ND	10	112	114	1.63	113	112	0.757	70 - 130	20	70 - 130	20
Toluene	ND	10	99.7	101	1.22	100	99.6	0.418	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	98.3	100	1.84	99.1	99.2	0.0499	70 - 130	20	70 - 130	20
Xylenes	ND	30	112	114	2.05	113	112	0.395	70 - 130	20	70 - 130	20
%SS:	107	10	103	102	0.136	104	103	1.07	70 - 130	20	70 - 130	20
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

			BATCH 47259 SL	JMMARY			
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0911564-001A	11/23/09 1:35 PM	I 11/24/09	11/24/09 4:51 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.



McCampbell An "When Ouality	nalytical, Inc.	1534 Will Web: www.mc Telepho	ow Pass Road, Pittsburg, campbell.com E-mail: m one: 877-252-9262 Fax:	CA 94565-1701 ain@mccampbell.com 925-252-9269
AEI Consultants	Client Project ID: #27790	1; Allen	Date Sampled:	02/08/10
2500 Camino Diablo. Ste. #200			Date Received:	02/08/10
	Client Contact: Robert Flo	ory	Date Reported:	02/11/10
Walnut Creek, CA 94597	Client P.O.: #WC082231		Date Completed:	02/11/10

WorkOrder: 1002179

February 11, 2010

Dear Robert:

Enclosed within are:

- 1) The results of the **3** analyzed samples from your project: **#277901; Allen,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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.

1002179

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Telepho	ne: (925) 252	2-9262			F	ax:	(925)	252-	926	9		ŀ	C	Tu	ali	or Fl	DE		~ 1	DDE	5	7	5n	24		40	Veit	. 0.	(DW)	
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Company: AEI C	Comino Dial	blo										-		0.E.			6												Samp	les for
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Tel: (925) 746-60	00	174071	F	ax: (925)	746	-609)					15)/N	0 D C		Ê,	02 /				100	6							Analy	vsis:
Project #: 277901	PO:Vale	0.022	>/ P	rojec	t Nan	ne:	Allei	•					- 80	1557	700	ic lis	pa 6				0200	0750							Yes	/ No
Project Location:	325 Marti	n Luther	King, Jr	. Way	, Qal	klan	d						21B		- and	basi	ly (e					ŝ		(0)						
Sampler Signatur	e: ha	bit	13	1	a	4	-						2/80	(2)		8010	A on	8080		50		4 0'		2/60						
	,	SAMP	LING	8	Iere	I	MAT	RIX	P	ME	FHOI ERVI	D ED	Gas (60	c (80)		260 - 8	2 DC	608 / 8	/ 8080	VOC	-	oy Er	00	1/239.						
SAMPLE ID	LOCATION (Field Point Name)	Date	Time	# Container	Type Contain	Water	Soil	Sludge	Other	HCI	HNO ₃	Other	BTEX & TPH as (TPH- multirang	Total Potocom	HVOCs EPA 82	MTBE, EDB, I,	Pesticides EPA	PCBs EPA 608	EPA 624 / 8260	EPA 625 / 8270	CAN 17 M - 1	CAM-1 / Mctals	Lead (7240/742			0			
MW-3	MW-3	2/8/10	0935	3	NON	2			4	4		\uparrow	X																	
IW-2	IW-2	1410	0900	3	JONA	1			3	L			X																	
IW-3	IW-3	i	0920	3	JOA	×			7	4		-	x								+	-	-				-			
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	Report To: Rober Company: AEI C 2500 C Wahn Tel: (925) 746-60 Project #: 277901 Project Location: Sampler Signatur SAMPLE ID MW-3 IW-2 IW-3 IW-3 Relinquished By: Relinquished By:	Report To: Robert Flory Company: AEI Consultants 2500 Camino Dial Walnut Creek, C./ Tel: (925) 746-6000 Project #: 277901 PO: M/C Project #: 277901 PO: M/C Sampler Signature: LOCATION SAMPLE ID LOCATION MW-3 MW-3 IW-2 IW-2 IW-3 IW-3 MW-3 MW-3 MW-3 MW-3 IW-2 IW-2 IW-3 IW-3 Relinquished By: Mutual Mathematical Mathmatematical Mathematical Mathematical Mathemat	Report To: Robert Flory Company: AEI Consultants 2500 Camino Diablo Walnut Creek, CA 94597 Tel: (925) 746-6000 Project #: 277901 PO: V/COC222 Project Location: 325 Martin Luther Sampler Signature: SAMP SAMPLE ID LOCATION (Field Point Name) Date MW-3 MW-3 J/S/K IW-2 IW-2 IW-3 IW-3 IW-3 I Relinquished By: Date: Date: Relinquished By: Date: Date:	Report To: Robert Flory B Company: AEI Consultants 2500 Camino Diablo Walnut Creek, CA 94597 E Tel: (925) 746-6000 F Project #: 277901 PO: // COC 222 // P Project Location: 325 Martin Luther King, Jr Sampler Signature: SAMPLING SAMPLE ID LOCATION (Field Point Name) Date MW-3 MW-3 J/R/R 0939 IW-2 IW-2 0700 IW-3 IW-3 0930 IW-3 IW-3 0930 Relipquished By: Date: Time: Relinquished By: Date: Time: XRelinquished By: Date: Time:	Bill To Company: AEI Consultants 2500 Camino Diablo Walnut Creek, CA 94597 E-Mai Tel: (925) 746-6000 Fax: (Project #: 277901 PO://COP2225 / Projec Project Location: 325 Martin Luther King, Jr. Way Sampler Signature: SAMPLING SAMPLE ID LOCATION (Field Point Name) Date Time MW-3 J/8//0 0935 3 IW-2 IW-2 0700 3 IW-3 IW-2 0700 3 IW-3 IW-3 0920 3 IW-3 IW-3 IM Image: Ima	Report To: Robert Flory Bill To: Sar Company: AEI Consultants 2500 Camino Diablo Walnut Creek, CA 94597 E-Mail: rftd Tel: (925) 746-6000 Fax: (925) Project #: 277901 PO: W/COG 222 / Project Nar Project Location: 325 Martin Luther King, Jr. Way, Oa Sampler Signature: SAMPLING SAMPLE ID LOCATION (Field Point Name) SAMPLING MW-3 MW-3 MW-3 MW-3 IW-2 IW-2 IW-3 IW-2 IW-3 IW-3 IW-3 IM-3 IW-3 IM-3 IW-3 IM-3 IW-3 IM-3 IM-3 IM-3 IM-3 IM-3 IM-3 IM-3 IM-3 IM-3 IM-3 IM-3 <t< td=""><td>Bill To: Same Company: AEI Consultants 2500 Camino Diablo Walnut Creek, CA 94597 E-Mail: rflory@ Tel: (925) 746-6000 Fax: (925) 746 Project #: 277901 PO:W/COC225/ Project Name: Project Location: 325 Maptin Luther King, Jr. Way: Øaklan Sampler Signature: SAMPLING sumption SAMPLE ID LOCATION (Field Point Name) Date Time Sumption MW-3 MW-3 J/J/LO 0935/3 J/O/F J/J/L MW-3 IW-2 IW-2 O935/3 J/O/F IW-2 IW-2 IW-2 O920/3 J/J/A IW-3 IW-3 J/J/L O936/3 J/O/F Relinquished By: Date: Time: Received By: Attribut Additional Ad</td><td>Report To: Robert Flory Bill To: Same Company: AEI Consultants 2500 Camino Diablo Walnut Creek, CA 94597 E-Mail: rflory@aeicc Tel: (925) 746-6000 Fax: (925) 746-6099 Project #: 277901 PO: WC@2227 Project Name: Alleft Project Location: 325 Martin Luther King, Jr. Way: Oakland Sampler Signature: SAMPLING 99 MATI SAMPLE ID LOCATION (Field Point Name) Date Time 99 MATI MW-3 MW-3 2/8/10 0935 3 004 4 IW-2 IW-2 0700 3 004 4 1 IW-3 IW-3 0720 3 004 4 1</td><td>Report To: Robert Flory Bill To: Same Company: AEI Consultants 2500 Camino Diablo Walnut Creek, CA 94597 E-Mail: rflory@aeiconsu Tel: (925) 746-6000 Fax: (925) 746-6099 Project #: 277901 PO: // COC223 / Project Name: Alleft Project Location: 325 Martin Luther King, Jr. Way, Oakland Sampler Signature: SAMPLING SAMPLE ID LOCATION (Field Point Name) Time MW-3 MW-3 MW-3 MW-3 IW-2 0900 3 IW-2 0900 3 IW-3 0920 3 IW-3 IW-3 IW-3</td><td>Report To: Robert Flory Bill To: Same Company: AEI Consultants 2500 Camino Diablo Walnut Creek, CA 94597 E-Mail: rflory@aeiconsultan Tel: (925) 746-6000 Fax: (925) 746-6099 Project #: 277901 PO: W COC 222 / Project Name: Allent Project Location: 325 Martin Luther King, Jr. Way: Oakland Sampler Signature: MATRIX Value SAMPLING SAMPLE ID LOCATION (Field Point Name) MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 IW-2 0900 3 IW-3 0920 4 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1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkOr	der: 100217	9 Client	Code: AEL		
	WaterTrax	WriteOn	EDF	Excel	Fax	✓ Email	HardCopy	ThirdParty	J-flag
Report to:				Bil	I to:		Rec	quested TAT:	5 days
Robert Flory	Email:	rflory@aeiconsul	ltants.com		Denise Moc	kel			
AEI Consultants	CC:				AEI Consult	ants	-		
2500 Camino Diablo, Ste. #200	PO:	#WC082231			2500 Camin	o Diablo, Ste. #20	$D_0 Da$	te Received:	02/08/2010
Walnut Creek, CA 94597	ProjectNo:	#277901; Allen			Walnut Cree	ek, CA 94597	Da	te Printed:	02/08/2010
(925) 283-6000 FAX (925) 283-6121					dmockel@a	eiconsultants.com	า		
						Demuested Tests			

								Req	uested	Tests (See leg	gend be	elow)			
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1002179-001	MW-3	Water	2/8/2010 9:35		А	А										
1002179-002	IW-2	Water	2/8/2010 9:00		А											
1002179-003	IW-3	Water	2/8/2010 9:20		А											

Test Legend:

1	G-MBTEX_W
6	
11	

2	PREDF REPORT
7	
12	

3	
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9	

5	
10	

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.



"When Ouality Counts"

Sample Receipt Checklist

Client Name:	AEI Consultants			Date a	and Time Received:	2/8/2010 7	20:23 PM							
Project Name:	#277901; Allen			Check	klist completed and re	eviewed by:	Melissa Valles							
WorkOrder N°:	1002179 Matrix <u>Water</u>			Carrie	er: <u>Client Drop-In</u>									
	Chain	of Cu	stody (COC) Informa	ation									
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 r	noted on COC?	Yes		No 🗆										
	<u>Sa</u>	ample	Receipt Inf	ormatior	<u>1</u>									
Custody seals int	tact on shipping container/cooler?	Yes		No 🗆		NA 🔽								
Shipping containe	er/cooler in good condition?	Yes		No 🗆										
Samples in prope	er containers/bottles?	Yes		No 🗆										
Sample containe	rs intact?	Yes	\checkmark	No 🗆										
Sufficient sample	e volume for indicated test?	Yes		No 🗌										
	Sample Preser	vatior	and Hold	Гіте (НТ) Information									
All samples recei	ived within holding time?	Yes		No 🗌										
Container/Temp E	Blank temperature	Coole	r Temp: 5.4	4°C		NA 🗆								
Water - VOA vial	ls have zero headspace / no bubbles?	Yes		No 🗆	No VOA vials submi	itted								
Sample labels ch	necked for correct preservation?	Yes		No 🗌										
Metal - pH accep	table upon receipt (pH<2)?	Yes		No 🗆		NA 🗹								
Samples Receive	ed on Ice?	Yes	✓	No 🗆										
	(Ice Type: WET ICE)													
* NOTE: If the "N	lo" box is checked, see comments below.													
* NOTE: If the "N	No" box is checked, see comments below. 													

Client contacted:

Date contacted:

Contacted by:

Comments:

	McCampbo	ell Ana en Ouality Co	lyti	cal, Ir	<u>ıc.</u>	Web	1534 Willow P : www.mccamp Telephone: 8	ass Road, Pittsburg bell.com E-mail: 377-252-9262 Fa	g, CA 94565-17 main@mccamp x: 925-252-926	701 bell.com 9							
AEI C	Consultants			Client P	roject ID: #	‡277901; All	en	Date Sample	ed: 02/08	8/10							
2500	Camino Diablo, Ste. #2						Date Received: 02/08/10										
	_ · · _ · · , · · · · ,			Client C	Contact: Ro	obert Flory Date Extracted: 02/09/10-02/10/10											
Walnu	Walnut Creek, CA 94597Client P.O.: #WC							Date Analyz	ed: 02/09	/10-02/	10/10						
Extracti	G	asoline Ra	nge (C6-C12)	Volatile Hy	drocarbons	as Gasoline	e with BTEX a	and MTBE*	Wor	k Ordar:	1002179					
Lab ID	Client ID	Matrix	TP	H(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments					
001A	MW-3	W	13	,000	ND<50	840	1500	120	1700	10	104	d1					
002A	IW-2	W	6	530	ND	4.4	17	3.7	78	1	106	d1,d7					
003A	IW-3	w	18	,000	ND<50	790	910	38	2600	10	101	d1					
										<u> </u>							
Repo ND m	rting Limit for DF =1; eans not detected at or	W		50	5.0	0.5	0.5	0.5	0.5		μg/I						
abo	ve the reporting limit	S	1	1.0	0.05	0.005	0.005	0.005	0.005		mg/k	Kg					

* 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.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+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

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

DHS ELAP Certification 1644





"When Ouality Counts"

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 48563 WorkOrder 1002179 EPA Method SW8021B/8015Bm Extraction SW5030B Spiked Sample ID: 1002196-002A MSD MS-MSD LCS LCSD LCS-LCSD Spiked MS Sample Acceptance Criteria (%) Analyte % RPD MS / MSD LCS/LCSD RPD µg/L µg/L % Rec. % Rec. % Rec. % Rec. % RPD RPD TPH(btex) 1.21 3.97 70 - 130 70 - 130 ND 60 118 116 113 117 20 20 10 MTBE ND 114 115 0.918 115 114 0.978 70 - 130 2.0 70 - 130 20 Benzene ND 10 105 105 0 107 106 0.615 70 - 130 20 70 - 130 20 Toluene ND 10 93.9 93.7 0.226 95.5 93.6 1.96 70 - 130 20 70 - 13020 Ethylbenzene ND 10 93.5 94.5 1.07 95.4 92.6 3.01 70 - 130 20 70 - 130 20 Xylenes ND 30 106 108 1.17 109 106 2.72 70 - 130 2.0 70 - 130 20 20 %SS: 99 10 102 100 1.23 100 103 2.7070 - 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 48563 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1002179-001A	02/08/10 9:35 AM	02/09/10	02/09/10 5:17 PM	1002179-002A	02/08/10 9:00 AM	02/10/10	02/10/10 9:46 PM
1002179-003A	02/08/10 9:20 AM	02/09/10	02/09/10 6:23 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.



When Ouality	nalytical, Inc.	1534 Will Web: www.mc Telepho	low Pass Road, Pittsburg, campbell.com E-mail: m one: 877-252-9262 Fax:	CA 94565-1701 aain@mccampbell.com 925-252-9269
AEI Consultants	Client Project ID: #27790	1; Allen	Date Sampled:	02/08/10
2500 Camino Diablo. Ste. #200			Date Received:	02/08/10
	Client Contact: Robert Flo	ory	Date Reported:	02/11/10
Walnut Creek, CA 94597	Client P.O.: #WC082231		Date Completed:	02/18/10

WorkOrder: 1002179

February 23, 2010

Dear Robert:

Enclosed within are:

- 1) The results of the **3** analyzed samples from your project: **#277901; Allen,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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.

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1534 Willow Pass Rd CA 04565 1701

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262		WorkOrder: 100217 A ClientCo	ode: AEL
	WaterTrax WriteOn VEDF	Excel Fax Email]HardCopy []ThirdParty []J-flag
Report to:	Emaile flare@aaiaanaultanta.com	Bill to:	Requested TAT: 5 days
AEI Consultants	cc:	AEI Consultants	Date Received: 02/08/2010
2500 Camino Diablo, Ste. #200 Walput Creek, CA, 94597	PO: #WC082231 ProjectNo: #277901: Allen	2500 Camino Diablo, Ste. #200 Walput Creek, CA 94597	Date Add-On: 02/16/2010 Date Printed: 02/16/2010
(925) 283-6000 FAX (925) 944-2895		dmockel@aeiconsultants.com	Dutt 111111111. 02/10/2010
		Requested Tests (S	ee legend below)
Lab ID Client ID	Matrix Collection Date	old 1 2 3 4 5 6	7 8 9 10 11 12

1002179-001	MW-3	Water	2/8/2010 9:35	А						
1002179-002	IW-2	Water	2/8/2010 9:00	А						
1002179-003	IW-3	Water	2/8/2010 9:20	A						

Test Legend:

1	8260VOC_W
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Prepared by: Melissa Valles

Comments: 1,2-DCA & EDB 5-day added per RF 02/16/10

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.

	McCampbell Analyti	cal, Inc.	1534 Willow Web: www.mccam Telephone:	Pass Road, Pittsburg, CA 94565-1701 pbell.com E-mail: main@mccampbel 877-252-9262 Fax: 925-252-9269	l.com						
AEI Co	nsultants	Client Project II	D: #277901; Allen	Date Sampled: 02/08/10)						
2500 Ca	umino Diablo, Ste. #200			Date Received: 02/08/10)						
	,	Client Contact:	Robert Flory	Date Extracted: 02/18/10)-02/22	/10					
Walnut	Creek, CA 94597	Client P.O.: #W	/C082231	Date Analyzed: 02/18/10)-02/22/	/10					
Extraction	method: SW5030B	MS*	Work (Order: 10	002179						
Lab ID	Client ID	Matrix	1,2-Dibromoethane (EDB)	1,2-Dichloroethane (1,2-DCA)	DF	% SS	Comments				
001A	MW-3	W	42	42	10	117					
002A	IW-2	W	5.1	3.9	1	115					
003A	IW-3	W	94	82	10	121					
				1							
				1							
	Reporting Limit for DF =1; ND means not detected at or above	W	0.5	0.5 0.5 μg							
	the reporting limit	S	NA	NA							

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/nonaqueous liquid samples in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager



McCampbell Analytical, Inc. "When Ouality Counts"

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water			QC Matri	x: Water			Batch	ID: 48675		WorkOrder 1002179					
EPA Method SW8260B	Extra	ction SW	5030B				Spiked Sample ID: 1002353-001								
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	e Criteria (%))			
Analyte	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD			
tert-Amyl methyl ether (TAME)	ND	10	95.3	97.5	2.30	82.4	86.9	5.25	70 - 130	30	70 - 130	30			
Benzene	ND	10	111	109	1.75	101	102	0.624	70 - 130	30	70 - 130	30			
t-Butyl alcohol (TBA)	ND	50	94.3	100	6.12	72.2	80	10.2	70 - 130	30	70 - 130	30			
Chlorobenzene	ND	10	115	113	1.80	107	105	1.90	70 - 130	30	70 - 130	30			
1,2-Dibromoethane (EDB)	ND	10	113	113	0	99.4	102	2.83	70 - 130	30	70 - 130	30			
1,2-Dichloroethane (1,2-DCA)	ND	10	109	108	0.445	93.8	96.1	2.34	70 - 130	30	70 - 130	30			
1,1-Dichloroethene	ND	10	121	117	3.12	113	112	0.560	70 - 130	30	70 - 130	30			
Diisopropyl ether (DIPE)	ND	10	118	117	0.176	102	105	3.25	70 - 130	30	70 - 130	30			
Ethyl tert-butyl ether (ETBE)	ND	10	103	104	0.803	89.7	92.7	3.29	70 - 130	30	70 - 130	30			
Methyl-t-butyl ether (MTBE)	ND	10	109	109	0	90.9	94	3.35	70 - 130	30	70 - 130	30			
Toluene	ND	10	107	104	2.57	99.5	97.5	2.05	70 - 130	30	70 - 130	30			
Trichloroethene	ND	10	123	119	3.78	113	112	0.887	70 - 130	30	70 - 130	30			
%SS1:	108	25	110	108	1.02	106	105	0.174	70 - 130	30	70 - 130	30			
%SS2:	113	25	113	113	0	115	114	0.684	70 - 130	30	70 - 130	30			
%SS3:	86	2.5	89	90	0.645	93	91	2.27	70 - 130	30	70 - 130	30			
%SS3: %SS3: All target compounds in the Method NONE	86 Blank of this	2.5 extraction	89 batch we	90 re ND les	0.645 os than the	93 method R	91 L with th	2.27 e following	70 - 130 70 - 130 exceptions:	30	70 - 130				

BATCH 48675 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1002179-001A	02/08/10 9:35 AM	02/18/10	02/18/10 3:44 AM	1002179-002A	02/08/10 9:00 AM	02/22/10	02/22/10 7:54 PM
1002179-003A	02/08/10 9:20 AM	02/18/10	02/18/10 5:01 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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with 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.



DHS ELAP Certification 1644

McCampbell An "When Ouality	nalytical, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269								
AEI Consultants	Client Project ID: #27792	5; Allen	Date Sampled:	02/24/10						
2500 Camino Diablo. Ste. #200			Date Received:	02/24/10						
	Client Contact: Robert Flo	ory	Date Reported:	03/01/10						
Walnut Creek, CA 94597	Client P.O.:		Date Completed:	02/26/10						

WorkOrder: 1002602

March 01, 2010

Dear Robert:

Enclosed within are:

- 1) The results of the **3** analyzed samples from your project: **#277925; Allen,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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.

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Report To: Robe	rt Flory		E	Bill To	: Sa	me													An	aly	sis F	Requ	iest		-				Τ	C)the	r		Com	nents
Company: AEI C	Consultants															(F)																			
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Tel: (925) 746-60	DO WC091	260	P	ax: (925)	940-	-009	9					-	8015	el cl	520	418.							2					al Cl	m	<u>6</u>	2			
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	320	SAUT	LING	s	iner	Н				P	RESI	ERV	ED	IS Ga	(80	0 m	Hu	8260	EP	A 60	8/8	4/8	2	s by	S I	s	21/2	me (ű.	ron,	and	2	0-15		
SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containe	Type Conta	Water	Soil	Air	Other	Ice	HCI	HNO ₃	Other	BTEX & TPH 1	TPH as Diesel	Total Petroleur	Total Petroleur	HVOCs EPA 8	BTEX ONLY	Pesticides EP/	PCBs EPA 60	VOCs EPA 62	EPA 625 / 82/	PAH'S/PNA'	CAM-1 / Meta	LUFT 5 Metal	Lead (7240/74	Diss Hexachro	Arsenic, Bariu	Copper, total 1	MTBE, EDB,	1PH-g (10-3)	2-propanol (T0		
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1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262			Code: AEL						
	WaterTrax	WriteOn	EDF	Excel	Fax	✓ Email	HardCopy	ThirdParty	J-flag
Report to:				Bil	l to:		Rec	uested TAT:	5 days
Robert Flory	Email: r	flory@aeiconsu	ltants.com		Denise Moc	kel			
AEI Consultants	CC:				AEI Consult	ants			
2500 Camino Diablo, Ste. #200	PO:				2500 Camin	no Diablo, Ste. #20	0 Dat	te Received:	02/24/2010
Walnut Creek, CA 94597	ProjectNo: #	#277925; Allen			Walnut Cree	ek, CA 94597	Dat	te Printed:	02/24/2010
(925) 283-6000 FAX (925) 283-6121					dmockel@a	eiconsultants.com	l		
						Demueste d'Teste		a law)	

					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
1002602-001	MW-3	Water	2/24/2010 8:40		А											
1002602-002	IW-2	Water	2/24/2010 9:25		А											
1002602-003	IW-3	Water	2/24/2010 9:00		А											

Test Legend:

1	G-MBTEX_W	
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Prepared by: Samantha Arbuckle

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.



"When Ouality Counts"

Sample Receipt Checklist

Client Name:	AEI Consultants				Date a	nd Time Received:	2/24/2010	6:51:49 PM
Project Name:	#277925; Allen				Check	list completed and re	eviewed by:	Samantha Arbuckle
WorkOrder N°:	1002602	Matrix <u>Water</u>			Carrie	r: <u>Client Drop-In</u>		
		<u>Cha</u>	ain of Cu	stody (C	OC) Informa	tion		
Chain of custody	present?		Yes	\checkmark	No 🗆			
Chain of custody	signed when relinquis	shed and received	? Yes	\checkmark	No 🗆			
Chain of custody	agrees with sample la	abels?	Yes	✓	No 🗌			
Sample IDs noted	by Client on COC?		Yes	✓	No 🗆			
Date and Time of	collection noted by Cli	ent on COC?	Yes	✓	No 🗆			
Sampler's name r	noted on COC?		Yes	✓	No 🗆			
			<u>Sample</u>	Receipt	Information			
Custody seals int	tact on shipping contai	iner/cooler?	Yes		No 🗆		NA 🔽	
Shipping containe	er/cooler in good condi	ition?	Yes	\checkmark	No 🗆			
Samples in prope	er containers/bottles?		Yes	\checkmark	No 🗆			
Sample containe	rs intact?		Yes	\checkmark	No 🗆			
Sufficient sample	volume for indicated	test?	Yes	✓	No 🗌			
		Sample Pre	servatior	n and Ho	old Time (HT)	Information		
All samples recei	ved within holding time	e?	Yes	✓	No 🗌			
Container/Temp E	Blank temperature		Coole	r Temp:	2.9°C		NA 🗆	
Water - VOA vial	s have zero headspac	ce / no bubbles?	Yes	✓	No 🗆	No VOA vials subm	itted 🗌	
Sample labels ch	necked for correct pres	servation?	Yes	✓	No 🗌			
Metal - pH accept	table upon receipt (pH	<2)?	Yes		No 🗆		NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No 🗆			
		(Ice T	ype: WE	TICE)			
* NOTE: If the "N	lo" box is checked, se	e comments below	N.					

Client contacted:

Date contacted:

Contacted by:

Comments:

When Ouality Counts"				1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269									
AEI C	Consultants			Client P	roject ID: #	#277925; Allen Date Sampled: 02/24/10							
2500	Camino Diablo, Ste. #2	200						Date Receiv	ed: 02/24	/10			
				Client C	Contact: Ro	bert Flory		Date Extract	ed: 02/25	5/10			
Walnu	ut Creek, CA 94597			Client P	.0.:			Date Analyz	ed: 02/25	5/10			
D ()	G	asoline I	Range ((C6-C12)	Volatile Hy	drocarbons	as Gasoline	e with BTEX a	and MTBE*	k		1002 (02	
Lab ID	Client ID	Matrix	ТР	PH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments	
001A	MW-3	w	16	5,000	ND<50	1200	1700	200	1900	10	109	d1	
002A	IW-2	w	3	500	ND<50	22	220	57	590	10	100	d1	
003A	IW-3	w	36	5,000	ND<250	2400	4300	320	4600	20	114	d1	
										<u> </u>			
Repo ND m	rting Limit for DF =1; eans not detected at or	W		50	5.0	0.5	0.5	0.5	0.5		μg/L	-	
abo	ve the reporting limit	S		1.0	0.05	0.005	0.005	0.005	0.005		mg/K	g	

* 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.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

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

Angela Rydelius, Lab Manager

d1) weakly modified or unmodified gasoline is significant



"When Ouality Counts"

QC SUMMARY REPORT FOR SW8021B/8015Bm

QC Matrix: Water W.O. Sample Matrix: Water BatchID: 48894 WorkOrder 1002602 EPA Method SW8021B/8015Bm Extraction SW5030B Spiked Sample ID: 1002589-002A MSD MS-MSD LCS LCSD LCS-LCSD Sample Spiked MS Acceptance Criteria (%) Analyte % RPD MS / MSD RPD LCS/LCSD RPD µg/L µg/L % Rec. % Rec. % Rec. % Rec. % RPD TPH(btex) ND 93.5 92 1.54 99.9 3.02 70 - 130 70 - 130 60 97 20 20 MTBE 10 ND 108 101 6.75 112 114 2.03 70 - 130 2.0 70 - 130 20 Benzene ND 10 92.9 91.2 1.89 95.8 96.2 0.427 70 - 130 20 70 - 130 20 Toluene ND 10 90.6 89.2 1.56 93.9 94 0.108 70 - 130 20 70 - 13020 Ethylbenzene ND 10 90 88.7 1.54 93.4 94.1 0.774 70 - 130 20 70 - 130 20 Xylenes ND 30 90.6 89.3 1.49 94.5 94.7 0.205 70 - 130 2.0 70 - 130 20 20 %SS: 98 10 102 101 0.753 98 102 3.29 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 48894 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1002602-001A	02/24/10 8:40 AM	02/25/10	02/25/10 10:56 PM	1002602-002A	02/24/10 9:25 AM	02/25/10	02/25/10 11:27 PM
1002602-003A	02/24/10 9:00 AM	02/25/10	02/25/10 11:59 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.



McCampbell An "When Ouality"	nalytical, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269				
AEI Consultants	Client Project ID: #27791	5; Allen	Date Sampled:	03/16/10		
2500 Camino Diablo. Ste. #200			Date Received:	03/16/10		
	Client Contact: Robert Flo	ory	Date Reported:	03/23/10		
Walnut Creek, CA 94597	Client P.O.: #WC082304		Date Completed:	03/23/10		

WorkOrder: 1003477

March 23, 2010

Dear Robert:

Enclosed within are:

- 1) The results of the **6** analyzed samples from your project: **#277915; Allen,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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.
McCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701 \66 34 7 7 Website: www.mccampbell.com Telephone: (877) 252-9262 Fax: (925) 252-9269									TUI Geo	RN . Tra	AR	OU ou er H	CHA JND EDF		N (IM) A	OF E PD Ch	F C		ST SH Ex	OI 24 cel le is		R	48 Wr	CO HR ite	7 On J" fi) 2 HF (D) ag i	S DAY V)					
Report To: AE	1		E	Bill To	o: Sar	ne								_	_		_	A	nal	ysis	Rec	ues	t	_		_	_	_	(Othe	r	Comments
Company:	bert F	Flory											- ~		6					ers												Filter
	041 1	(''				1							TB		B&					ngen												Samples
m. (0-+ 7)	11 10/11)	1	E-Ma	il: 11	lurye	age	icon	250	1tan	150	eng	- 6		20 E					/ Co							50)					for Metals
Tele: (929 /	16-6000	/	ł	ax: ()70	16-	6	09.	1			- 108		4/55	8.1)		021)		clors		ides)			(8)	Rule	/ 60					analysis:
Project #:	AA (5	1 /	P	rojec	t Nar	ne:	M	19	1	1		_	+		(166-	(415		02/8	des)	Aroc	~	erbic			PNA	X 01	6010	6				Yes / No
Project Location:	Nyti	1 fet	he R	19	lld	* (19	KI	940	1			/ 80		ease	suoq.		9 V.	stici	LY;	cides	CLH	(S)	00	Hs/	(0)	0.8/	602				
Sampler Signatur	e: m	The s			1	1				M	TH	OD	(602		Gr	ocar		(EF	CIP	NO	estic	idic	O(VC	SV (SV	(PA	3 / 60	/20	010				
		SAMI	LING		lers	N	AT	RD	(PRE	SER	VED	Gas	015)	Oil &	Hyda)Cs)	NLN	081 (CB's	I dN	I (Ac	826	8270	8310	200.2	200.7	8/6				
SAMPLE ID	LOCATION/			ner	tair								Has	el (8)	um	eum	HVC	EXC	8/8	382 F	141	815	624	625	/WE	tals (bals (/ 200				
	Field Point	Date	Time	ntai	Col	-		e	1				L a	Dies	etrol	etrol	260 (BT	61 60	8/8	1/ 8	5.3/	4.2/	5.2/	270 S	7 Me	5 Met	00.7				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Manie	Date	Time	Ū.	be	ate	-	nds	the	83	38	P la	EX	H as	tal P	tal P	A 8.	TBE	A 50	A 60	A 50	A 51	A 52	A 52	A 8	I W	FT	ad (2				
				#	F	3	S.	S	Ō					4	To	To	EP	IW	EP	EP	EP	EP	EP	EP	EP	CA	FIG	Le				
MW-1		3/16/10	905	3	1096	X							5	Ċ																		
MW-2		1	920	1	1	X						3	15	1																		
MAN-3			930			Y							X	1																		
EW- I			1000	1		X		1				-	X																			
TW-9			950	+		V	-	-			-	-	1									-					-					
+ WC 7			CI.	1	11	1	-	-			-	-	15	-					_		-		_									
1 J. W. 5			140	V	V	3	-	-			-	-	X	-	-		_						-	_					-			
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Refinquished Av:/		Date:	Time	Rece	ivel B	V:						1	14	F/to	PS	8	2	b C							_		0	MM	ENT	S.		
the Uh	-	Andi	7. CO	M	21	Ň	1)	C	r	~	_		G	OOD	CON	DIT	ION	~	1								.0		10141	5.	4	
Relinguished By:		Date:	Time:	Rece	ived B	V:	,	-			-		H	EAD	SPAC	CE A	BSE	IN L	AR	T	A)										
		a de la de l											A	PPRO	OPRI	ATE	CON	NTAL	NEI	is_	- \	/										
Relinquished By:		Date:	Time:	Rece	ived B	y:					_		- P	RESE	RVE	D IN	LA	B_M	140													
						101 1											VO	DAS	0.	&G	ME	TAI	s	OTI	IER							
													P	RESE	RVA	TIO	N				pH<	2										

(7

(A



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

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 2	52-9262					Work	Order:	10034	477	Client	Code: A	EL				
		WaterTrax	WriteOn	EDF		Excel	[Fax	🖌 Er	nail	Hard	Copy	Thir	dParty	□ J-	flag
Report to:							Bill to:					Req	uested	TAT:	5 0	days
Robert FloryEmail:rflory@aeiconsultants.comAEI Consultantscc:2500 Camino Diablo, Ste. #200PO:Walnut Creek, CA 94597ProjectNo: Allen(925) 283-6000FAX(925) 283-6000FAX						Denise MockelAEI Consultants2500 Camino Diablo, Ste. #200Walnut Creek, CA 94597Mockel@aeiconsultants.com							ived: ed:	03/16/ 03/16/	2010 2010	
									Request	ed Tests	s (See le	gend b	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4 5	5 6	7	8	9	10	11	12
1003477-001	MW-1		Water	3/16/2010 9:05		А	Α									
1003477-002	MW-2		Water	3/16/2010 9:20		А										
1003477-003	MW-3		Water	3/16/2010 9:30		А										
1003477-004	IW-1		Water	3/16/2010 10:00		А										
1003477-005	IW-2		Water	3/16/2010 9:50		А										

3/16/2010 9:40

Water

Test Legend:

1003477-006

1	G-MBTEX_W
6	
11	

2	PREDF REPORT
7	
12	

IW-3

3		
8		

А

4	
9	

5	
10	

Prepared by: Samantha Arbuckle

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.



"When Ouality Counts"

Sample Receipt Checklist

Client Name:	AEI Consultants					Date a	and Tim	e Received:	3/16/2010	9:03:29 PM
Project Name:	Allen					Check	klist cor	npleted and r	eviewed by:	Samantha Arbuckle
WorkOrder N°:	1003477	Matrix	Water			Carrie	er: <u>C</u>	Client Drop-In		
			<u>Chain</u>	of Cu	stody (C	OC) Informa	<u>ation</u>			
Chain of custody	present?			Yes	\checkmark	No 🗆				
Chain of custody	signed when relinquis	shed and	received?	Yes	\checkmark	No 🗆				
Chain of custody	agrees with sample la	abels?		Yes	✓	No 🗌				
Sample IDs noted	by Client on COC?			Yes	\checkmark	No 🗆				
Date and Time of	collection noted by Cli	ent on CC	CC?	Yes	✓	No 🗆				
Sampler's name r	noted on COC?			Yes	\checkmark	No 🗆				
			<u>S</u>	ample	Receipt	Information	<u>n</u>			
Custody seals int	tact on shipping contai	iner/coole	ər?	Yes		No 🗆			NA 🔽	
Shipping containe	er/cooler in good cond	ition?		Yes	\checkmark	No 🗆				
Samples in prope	er containers/bottles?			Yes	✓	No 🗆				
Sample containe	rs intact?			Yes	\checkmark	No 🗆				
Sufficient sample	volume for indicated	test?		Yes	✓	No 🗌				
		<u>Sar</u>	nple Prese	vatior	n and Ho	old Time (HT	[) Infor	mation		
All samples recei	ved within holding time	ə?		Yes		No 🗌				
Container/Temp E	Blank temperature			Coole	r Temp:	8.2°C			NA 🗆	
Water - VOA vial	ls have zero headspac	ce / no bu	ubbles?	Yes	✓	No 🗆	No VC	DA vials subm	itted 🗆	
Sample labels ch	necked for correct pres	servation	?	Yes	✓	No 🗌				
Metal - pH accep	table upon receipt (pH	<2)?		Yes		No 🗆			NA 🗹	
Samples Receive	ed on Ice?			Yes	✓	No 🗆				
			(Ісе Тур	e: WE	TICE)				
* NOTE: If the "N	lo" box is checked, se	e comme	ents below.							

Client contacted:

Date contacted:

Contacted by:

Comments:

Ĵ	When Ouality Counts"						1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269									
AEI C	Consultants			Client P	roject ID: #	‡277915; All	en	Date Sample	ed: 03/16	5/10						
2500 0	Camino Diablo, Ste. #2	200						Date Received: 03/16/10								
	,			Client C	Contact: Ro	bert Flory		Date Extracted: 03/17/10-03/18/10								
Walnu	tt Creek, CA 94597			Client P	Image: matrix P.O.: #WC082304 Date Analyzed: 03/17/10-03/18/10											
Extractio	G	asoline l	Range ((C6-C12)	Volatile Hy	drocarbons	as Gasoline	e with BTEX a	and MTBE*	k Wor	k Ordon	1002477				
Lab ID	Client ID	Matrix	TP	PH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments				
001A	IA MW-1 W ND			ND	ND	ND	ND	ND	1	105						
002A	MW-2	w	I	ND	ND	ND	ND	ND	ND	1	104					
003A	003A MW-3 W 34,000 ND<250					3000	4100	580	4100	50	101	d1				
004A	IW-1	w	1	ND	ND	ND	ND	ND	ND	1	101					
005A	IW-2	w	20	,000	ND<100	320	2100	450	4000	20	100	d1				
006A	IW-3	w	44	,000	ND<500	3200	6000	650	5400	100	105	d1				
		<u> </u>			<u> </u>	 			 	1						
Report ND m	rting Limit for DF =1; eans not detected at or	W		50	5.0	0.5	0.5	0.5	0.5	μg/L						
abov	ve the reporting limit	3		1.0	0.05	0.005	0.005	0.005	0.005		mg/F	x g				

* 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.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

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

Angela Rydelius, Lab Manager

d1) weakly modified or unmodified gasoline is significant



"When Ouality Counts"

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water							BatchID: 49301 WorkOrder 10034						
EPA Method SW8021B/8015Bm	5Bm Extraction SW5030B Spiked Sample ID: 100347											002A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	SD Acceptance Criteria (%)				
, individ	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
TPH(btex ^f)	ND	60	110	111	0.763	95.7	97.7	1.99	70 - 130	20	70 - 130	20	
MTBE	ND	10	107	106	0.167	93	98.7	5.92	70 - 130	20	70 - 130	20	
Benzene	ND	10	96.1	94.2	1.92	97	95.3	1.70	70 - 130	20	70 - 130	20	
Toluene	ND	10	94.5	92.9	1.72	96.5	93.9	2.80	70 - 130	20	70 - 130	20	
Ethylbenzene	ND	10	95.5	93.9	1.66	95.3	95	0.334	70 - 130	20	70 - 130	20	
Xylenes	ND	30	98.6	96.9	1.72	98.2	98	0.214	70 - 130	20	70 - 130	20	
%SS:	104	10	97	96	0.846	100	98	1.85	70 - 130	20	70 - 130	20	
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:				

BATCH 49301 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1003477-001A	03/16/10 9:05 AM	03/18/10	03/18/10 2:53 AM	1003477-002A	03/16/10 9:20 AM	03/18/10	03/18/10 2:23 AM
1003477-003A	03/16/10 9:30 AM	03/17/10	03/17/10 4:36 PM	1003477-004A	03/16/10 10:00 AM	03/18/10	03/18/10 1:24 AM
1003477-005A	03/16/10 9:50 AM	03/17/10	03/17/10 5:09 PM	1003477-006A	03/16/10 9:40 AM	03/17/10	03/17/10 5:43 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.



McCampbell An "When Ouality"	nalytical, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269						
AEI Consultants	Client Project ID: #27791	5; Allen	Date Sampled:	03/16/10				
2500 Camino Diablo. Ste. #200			Date Received:	03/16/10				
	Client Contact: Robert Flo	ory	Date Reported:	03/23/10				
Walnut Creek, CA 94597	Client P.O.: #WC082304		Date Completed:	03/23/10				

WorkOrder: 1003477

March 23, 2010

Dear Robert:

Enclosed within are:

- 1) The results of the **4** analyzed samples from your project: **#277915; Allen,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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.

M W Te	IcCAMP ebsite: <u>www.m</u> lephone: (877	BELL 1534 WI PITTSBU ccampbe () 252-92	ANA LLOW PA RG, CA 94 Lcom En 62	LY SS RO 4565-1 nail: r	FIC AD 701 nain@ Fax	AL	, IN () (3 (5) 2	NC Za Sell.0 52-9	com 9269	7	7	-		T G	UR eoT	N A	ARO	C OU r E	CHA ND		N (IMI) I	OF E PD Ch	F eck		ST SH Ex	OI 24 ccel le is		R	48 Wr nt a	CO HR ite	RI 7 On J" fl) 2 HF (D) lag i	S DAY W) C s required
Report to: MCL Bill to: Same Company: E-Mail: if/ory@aciconsyltantscome Tele: (925) 746-6000 Fax: ()746-6099 Project Name: M//en Project Location: May tin Lether King Id, Oak land SAMPLING Z MATRIX							×9	(602/8021+8015)/MTBE		& Grease (1664 / 5520 E/B&F)	rocarbons (418.1)		Y (EPA 602 / 8021)	CI Pesticides)	s ONLY; Aroclors / Congeners	Pesticides)	idic CI Herbicides)	0 (VOCs)	0 (SVOCs)	0 (PAHs / PNAs)	8 / 6020) 10 X Rule	7 / 200.8 / 6010 / 6020)	5010 / 6020)	Proper the same.	ALL PS	r	Filter Samples for Metals analysis: Yes / No						
SAMPLE ID	LOCATION/ Field Point Name	Date	Time	# Containers	Type Containers	Water	Soil	All	Other	PRI	HCL	RVH [©] ONH	Other E	BTEX & TPH as Gas	TPH as Diesel (8015)	Total Petroleum Oil &	Total Petroleum Hyd	EPA 8260 (HVOCs)	MTBE / BTEX ONLY	EPA 505/ 608 / 8081 (EPA 608 / 8082 PCB'	EPA 507 / 8141 (NP1	EPA 515.3 / 8151 (Ac	EPA 524.2 / 624 / 826	EPA 525.2 / 625 / 827	EPA 8270 SIM / 8310	CAM 17 Metals (200.	LUFT 5 Metals (200.7	Lead (200.7 / 200.8 / 6	FIPI ONG	11.		
MW-1 MW-2 MW-3 EW-1 EW-2 tw-2 tw-3		3/16/10	905 920 930 1000 950 940	3	V 095	X X X X X X X X X X X X X X X X X X X								XXXXXX																A HAN			
Refinquished By: Refinquished By:		Date:	Time:)7 Sp Time:	Rece	ived B	y:		K						ICE GOO HEA DEC								A-)					со	OMM	ENT	S:		
Relinquished By:		Date:	Time:	Rece	Received By:					DECHLORINATED IN LAB (VV) APPROPRIATE CONTAINERS PRESERVED IN LAB (V) VOAS 0&G METALS OTHER PRESERVATION pH<2																							

1534 Willow Pass Rd

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 2	rg, CA 94565-1701 52-9262				V	VorkO	rder:	100347	7 A	С	lientC	ode: A	EL				
		WaterTrax	WriteO	n 🖌 EDF		Excel	[Fax		🖌 Email		Hard	Сору	Thir	dParty	J-	flag
Report to:							Bill to:						Req	uested	TAT:	5	days
Robert Flory AEI Consult 2500 Camir Walnut Cree (925) 283-60	y tants no Diablo, Ste. #200 ek, CA 94597 00 FAX (925) 283-6121	Email: rflor cc: PO: ProjectNo: Alle	y@aeicons n	ultants.com	Denise MockelDaAEI ConsultantsDa2500 Camino Diablo, Ste. #200DaWalnut Creek, CA 94597Dadmockel@aeiconsultants.comDa							Dat Dat Dat	e Rece e Add e Prin	eived: On: ted:	03/16 03/17 03/18	5/2010 7/2010 8/2010	
									Req	uested T	ests (See leg	end be	elow)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1003477-003	MW-3		Water	3/16/2010 9:30		А											
1003477-004	IW-1		Water	3/16/2010 10:00		А											
1003477-005	1\\\/-2		Water	3/16/2010 9.50		Δ				1							

А

Test Legend:

1003477-006

1	5-OXYS+PBSCV_W
6	
11	

2	
7	
12	

Water

3/16/2010 9:40

3 8



5		
10		

Prepared by: Samantha Arbuckle

Comments: Fuel Oxys+Pb Scavs added 3/17/10 Std TAT

IW-3

L

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.

McCampbell An	alyti _{Counts"}	<u>cal, In</u>	<u>c.</u>	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269									
AEI Consultants		Client Pr	oject ID: 🗧	#27791	5; Allen	Date Sampled:	03/16/10						
2500 Camino Diablo Ste #200						Date Received: 03/16/10							
2500 Camino Diabio, Stc. #200		Client Co	ontact: Ro	obert Fl	ory	Date Extracted: 03/20/10-03/22/10							
Walnut Creek, CA 94597		Client P.0	O.: #WC0	82304		Date Analyzed:	03/20/10-03/22/10						
Oxygenate	ed Vola	tile Orgar	nics + EDB	and 1	2-DCA by P&T	and GC/MS*							
Extraction Method: SW5030B	10024	Anal	ytical Method	1: SW826	0B	1002477-0064	Work Order:	1003477					
Lad ID	//-003A	1003477-	-004A	1003477-005A	1003477-006A								
Client ID	W-3	IW-	1	IW-2	IW-3	Reporting Limit for DF =1							
Matrix	W	W		W	W]							
DF	50	1		20	50	S	W						
Compound			Concentration ug/kg µ										
tert-Amyl methyl ether (TAME)	ert-Amyl methyl ether (TAME) NI				ND<10	ND<25	NA	0.5					
t-Butyl alcohol (TBA)	2	430	ND		70	120	NA	2.0					
1,2-Dibromoethane (EDB)	:	110	ND		20	230	NA	0.5					
1,2-Dichloroethane (1,2-DCA)	:	130	ND		15	220	NA	0.5					
Diisopropyl ether (DIPE)	NI	D<25	ND		ND<10	ND<25	NA	0.5					
Ethyl tert-butyl ether (ETBE)	NI	D<25	ND		ND<10	ND<25	NA	0.5					
Methyl-t-butyl ether (MTBE)	NI	D<25	ND		ND<10	ND<25	NA	0.5					
		Surr	ogate Rec	overies	s (%)								
%SS1:		120	126	5	115	120							
Comments													
* water and vapor samples are reported in extracts are reported in mg/L, wipe sample	μg/L, so es in μg/	oil/sludge/sc wipe.	olid samples	in mg/k	g, product/oil/non-a	queous liquid sample	es and all TC	LP & SPLP					

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

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



"When Ouality Counts"

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water			QC Matri	x: Water			Batch	ID: 49320		WorkOrder 10034 ked Sample ID: 1003517-0 Acceptance Criteria (%) S / MSD RPD LCS/LCSD) - 130 30 70 - 130					
EPA Method SW8260B	Extra	ction SW	5030B					ę	Spiked Sar	nple ID	: 1003517-0)16c			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)						
Analyte	µg/L	µg/L % Rec. % Rec. % RPD % Rec. % F		% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD						
tert-Amyl methyl ether (TAME)	ND	10	79	78.9	0.0984	80.4	78.8	2.02	70 - 130	30	70 - 130	30			
t-Butyl alcohol (TBA)	ND	50	89.3	89.9	0.668	83.7	82.7	1.17	70 - 130	30	70 - 130	30			
1,2-Dibromoethane (EDB)	ND	10	94.1	92.8	1.34	93.7	92.2	1.66	70 - 130	30	70 - 130	30			
1,2-Dichloroethane (1,2-DCA)	ND	10	92.4	93.4	1.05	94	91.9	2.28	70 - 130	30	70 - 130	30			
Diisopropyl ether (DIPE)	ND	10	104	104	0	106	104	1.39	70 - 130	30	70 - 130	30			
Ethyl tert-butyl ether (ETBE)	ND	10	82.4	82.6	0.194	83.9	81.4	2.95	70 - 130	30	70 - 130	30			
Methyl-t-butyl ether (MTBE)	ND	10	88.5	87.8	0.763	88.6	87.4	1.34	70 - 130	30	70 - 130	30			
%SS1:	95	25	97	99	2.53	100	98	1.88	70 - 130	30	70 - 130	30			
%SS2:	97	25	100	100	0	99	100	0.881	70 - 130	30	70 - 130	30			
%SS3:	91	2.5	91	88	3.31	89	90	1.69	70 - 130	30	70 - 130	30			
All target compounds in the Method NONE	Blank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:						

BATCH 49320 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1003477-003A	03/16/10 9:30 AM	03/22/10	03/22/10 2:10 PM	1003477-004A	03/16/10 10:00 AM	03/20/10	03/20/10 6:05 AM
1003477-005A	03/16/10 9:50 AM	03/22/10	03/22/10 2:53 PM	1003477-006A	03/16/10 9:40 AM	03/22/10	03/22/10 3:36 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.

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

