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September 30, 2004

Mr. Don Huang Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Subject:

Quarterly Groundwater Monitoring Report

Third Quarter 2004 1075 40th Street Oakland, California AEI Project No. 3119

Dear Mr. Huang:

Shujic Control of State of State of the Stat Enclosed is a copy of the quarterly groundwater report for the third quarter 2004 groundwater monitoring event. I am working up the data from the pilot test and will have the report done shortly.

Please call me at (925) 944-2899 x122, if you have any questions.

Sincerely,

AEI Consultants

Robert F. Flory, RG

September 30, 2004

GROUNDWATER MONITORING REPORT Third Quarter 2004 1075 40th Street Oakland, California

Project No. 8326

Prepared For

Mr. Monte Upshaw Fidelity Roof Company 1075 40th Street Oakland, CA 94608

Prepared By

AEI Consultants 2500 Camino Diablo Blvd., Suite 200 Walnut Creek, CA 94597 (925) 283-6000



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September 30, 2004

Mr. Monte Upshaw Fidelity Roof Company 1075 40th Street Oakland, CA 94608

Subject:

Quarterly Groundwater Monitoring Report

Third Ouarter 2004 1075 40th Street

Oakland, California Project No. 8326

Dear Mr. Upshaw:

AEI Consultants (AEI) has prepared this report on behalf of Fidelity Roof Company to document the ongoing groundwater investigation at the above referenced site (Figure 1: Site Location Map). The purpose of this activity was to monitor groundwater quality near the previously removed underground storage tanks (USTs). The work was performed in compliance with requirements of the Alameda County Health Care Services Agency (ACHCSA). This report presents the findings of the third quarter 2004 groundwater monitoring and sampling event conducted on September 30, 2004.

Site Description and Background

The site currently supports the operation of Fidelity Roof Company and is located in a mixed residential and commercial area of Oakland at 1075 40th Street.

On December 19, 1995, Tank Protect Engineering, Inc. removed one (1) 1,000-gallon diesel underground storage tank (UST) and one (1) 500-gallon gasoline UST from the southeast corner of the property. The removal of the tanks produced a single excavation. Analysis of the soil samples indicated that soil beneath the 1,000-gallon UST had been impacted by minor concentrations of total petroleum hydrocarbons as gasoline (TPH-g), TPH as diesel (TPH-d), benzene, toluene, ethylbenzene and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE).

On September 12, 1996, AEI advanced four soil borings near the former UST excavation. Analytical results from the subsurface investigation revealed significant levels of gasoline and diesel petroleum hydrocarbons present in soil and groundwater to the south and to the west of the open excavation. Due to the high concentrations of petroleum hydrocarbons within the groundwater, the ACHCSA required further investigation of the extent and magnitude of the groundwater contaminant plume.

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On October 25, 1996, AEI extended the excavation laterally 7 feet to the south and 12 feet to the west. Soil was removed to a depth of 9 feet below ground surface (bgs). The dispenser island and associated piping were also removed. Analyses of the soil samples collected from the excavation sidewalls indicated that up to 150 mg/kg of TPH-g, 16 mg/kg of benzene, and 300 mg/kg of TPH-d remained within the western sidewall of the excavation.

On March 6, 1997, AEI installed three groundwater monitoring wells. At the request of the ACHCSA, six additional soil borings were drilled south and west of the well locations on November 4, 1998. TPH-d was detected at a concentration of 2,400 μ g/L in groundwater to the south of the former excavation. No significant concentrations of petroleum hydrocarbons were detected from the other borings. Monitoring well MW-4 was installed on July 15, 1999, south of the former tank locations along Yerba Buena Avenue. Well construction details for the four (4) groundwater monitoring wells are summarized in Table 1.

On May 6, 2004, AEI installed one vapor extraction well (VES-1) and two (2) air sparge wells (AS1 and AS-1). Six (6) shallow vapor monitoring mini-wells (DP-I through DP-6) were installed on May 13, 2004. On May 19 through 20 AEI carried out a soil vapor extraction and air sparge pilot test. Currently the test data is undergoing analysis and a report summarizing the results of the pilot test is being prepared. Well construction details for the shallow vapor extraction well, the two (2) air sparge wells and the six (6) shallow vapor monitoring wells are summarized in Table 1.

Summary of Activities

AEI measured the depth to groundwater in the four wells (MW-1 to MW-4) on September 10, 2004. Well locations are shown on Figure 2. Prior to sampling, each well was checked for the presence of free product and the depth to water from the top of the well casings was measured with an electric water level indicator. Each well with no free product was then purged of at least 3 well volumes with a submersible pump. Temperature, pH, specific conductivity, dissolved oxygen (DO) and oxidation-reduction potential (ORP) were measured during the purging of the wells and turbidity was visually noted. Once water levels had recovered to at least 90% of their original level, a water sample was collected.

The groundwater samples were collected from each well using clean disposable bailers. The water samples were collected into 1-liter amber glass bottles and 40 ml glass volatile organic analysis (VOA) vials. The VOAs were capped so no headspace or air bubbles were present within the sample containers. Samples were delivered on ice under proper chain of custody protocol to McCampell Analytical, Inc. of Pacheco, California (Department of Health Services Certification #1644).

Four groundwater samples were submitted for chemical analysis for TPH-g, MTBE, benzene, toluene, ethylbenzene, and xylenes (BTEX) by method SW 8021B/8015Cm, TPH-d by method SW 8015C and fuel oxygenates by SW8260B.

Field Results

Well MW-3 contained 0.66 feet of free product. Groundwater elevations for the current monitoring episode ranged from 34.14 to 34.64 feet above mean sea level (msl). These groundwater elevations were an average of 0.88 lower than the previous monitoring event. Based on these water level measurements, the direction of the groundwater flow at the time of measurement was towards the northwest with a hydraulic gradient of 0.007 ft/ft. This flow direction and gradient are consistent with previous monitoring events.

Groundwater elevation data and groundwater sample analytical data are summarized in Tables 2 and 3. The groundwater elevation contours and the groundwater flow direction are shown on Figure 3. Refer to Appendix A for Groundwater Monitoring Well Field Sampling Forms, which include field measurements and observations made during the monitoring activities.

Groundwater Quality

For the first time, a measurable thickness (0.66) of free product or light non-aqueous phase liquids was present. MTBE was detected in wells MW-2 and MW-4 at 4,100 µg/l and 10 µg/l, respectively by the standard 8015/8021B analysis; however, no other 8015/8021B target analytes were detected in either of these wells above the reported detected limits. However, analysis for fuel oxygenates by EPA Method 8260 reported MTBE in well MW-1 at concentrations of 0.95.

Groundwater sample analytical data is presented in Table 3. Selected analytical data is presented on Figure 2. Laboratory results and chain of custody documents are included in Appendix B.

Summary

Significant hydrocarbons remain in the groundwater beneath the site, particularly west and north of the former excavation. Although seasonal concentration fluctuations have been observed, long-term concentration trends indicate no significant attenuation is occurring. AEI will continue quarterly monitoring, with the next episode scheduled for December 2004.

Report Limitations and Signatures

This report presents a summary of work completed by AEI Consultants including observations and descriptions of site conditions. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide required information, but it cannot be assumed that they are entirely representative of all areas not sampled. All conclusions and recommendations are based on these analyses, 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 and construction field that existed at the time and location of the work.

Sincerely,

AEI Consultants

Robert F. Flory, RG

Senior Project Geologist /

Peter McIntyre Program Manager

Figures

Figure 1 Site Location Map Figure 2 Sample Analytical Data Figure 3 Groundwater Gradient

Tables

Table 1	Well Construction Details
Table 2	Groundwater Elevation Data
Table 3	Groundwater Analytical Data
Table 4	Fuel Oxygenate Analytical Data

Appendices

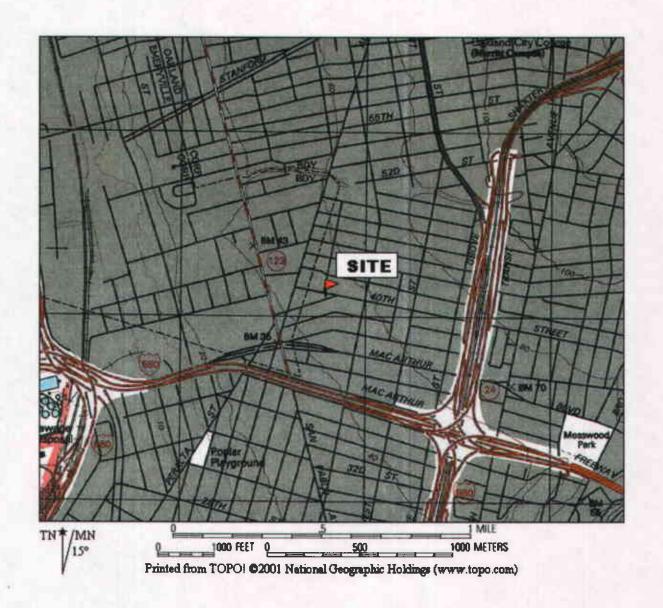
Appendix A Groundwater Monitoring Well Field Sampling Forms

Appendix B Laboratory Analyses with Chain of Custody Documentation

cc: Don Huang ACHCSA

1131 Harbor Bay Parkway, Suite 250

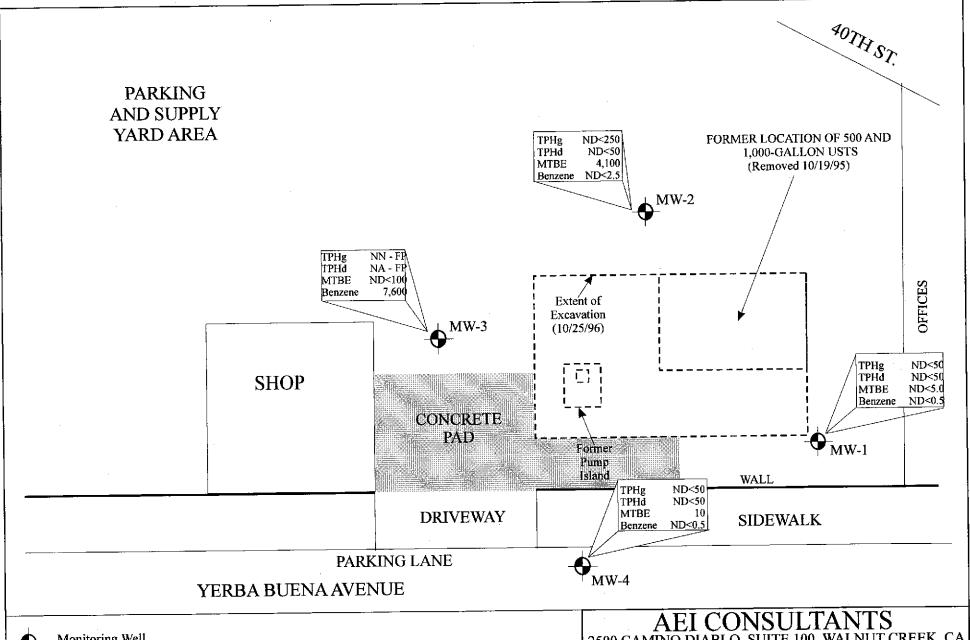
Alameda, CA 94502-6577



AEI CONSULTANTS SITE LOCATION MAP

1075 40th STREET OAKLAND, CALIFORNIA

FIGURE 1 PROJECT NO. 8326





Monitoring Well

Groundwater results are expressed in $\mu g/L$. TPHg = Total petroleum hydrocarbons as gasoline TPHd = Total petroleum hydrocarbons as diesel MTBE = Methyl tertiary butyl ether by 8260

Scale: 1" = 20

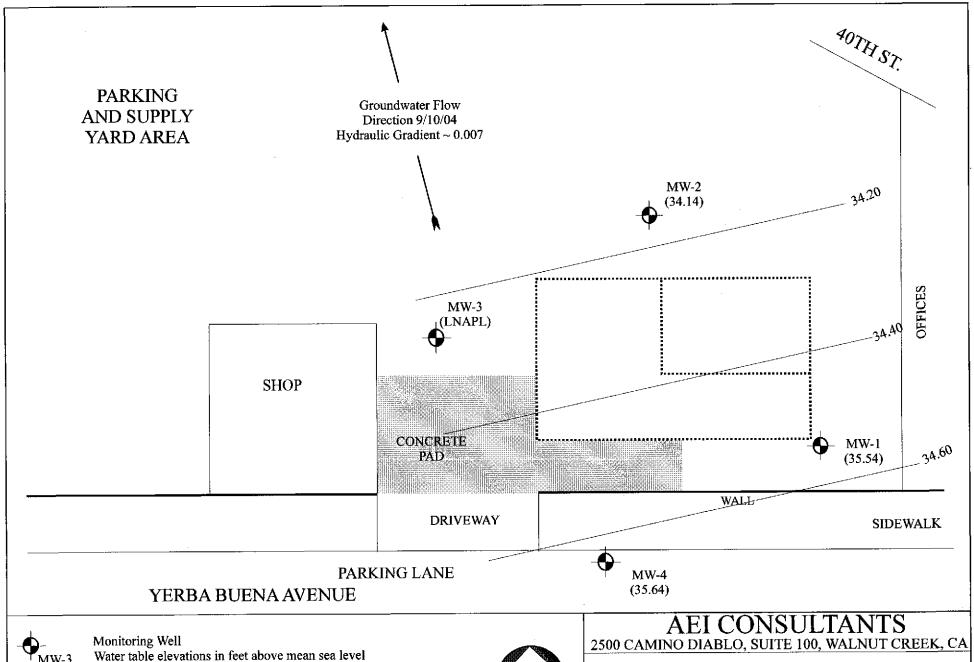


2500 CAMINO DIABLO, SUITE 100, WALNUT CREEK, CA

SAMPLE ANALYTICAL DATA - 09/10/04

1075 40TH AVENUE OAKLAND, CALIFORNIA

Figure 2 AEI Project: 8326



MW-3 (33.88)

Scale: 1" = 20'



GROUNDWATER GRADIENT

1075 40TH AVENUE OAKLAND, CALIFORNIA

Figure 3 AEI Project: 8326

Table 1: Well Construction Details, Fidelity Roof Company, 1075 40th Street, Oakland, California

Well ID	Date Drilled	Elevation	Water Depth 09/10/04	Boring Depth	Slotted Casing	Slot Size	Blank Casing	Sand Interval	Sand Size	Bentonite Interval	Grout Interval
		(ft msl)	(ft)	(ft)	(ft)	(in)	(ft)	(ft)		(ft)	(ft)
MW-1	03/06/97	45.41	9.95	21.0	6-21	0.020	0.5-6	5-21	#3	4-5	0.5-4
MW-2	03/19/97	44.94	10.84	21.0	6-21	0.020	0.5-6	5-21	#3	4-5	0.5-4
MW-3	03/19/97	44.32	11.54	21.0	6-21	0.020	0.5-6	5-21	#3	4-5	0.5-4
MW-4	08/05/99	43.48	8.84	20.0	5-21	0.020	0.55	4-20	#3	3-4	0.5-3
AS-1	05/06/04	45.2 est		30.0	25-30	0.010	0.75-25	22-30	2/12	19-22	1.0-19
AS-2	05/06/04	45.2 est.		30.0	25-30	0.010	0.75-25	22-30	2/12	19-22	1.0-19
VE-1	05/06/04	45.0 est.		10.0	5-10	0.010	0.75-10	4-10	2/12	3-4	1.0-3
DP-1	05/13/04	44.0 est.		16.0	5.5-15.5	# 40 mesh	5.5-0.5	4.5-15.5	#30	3.5-4.5	0.75-3.5
DP-2	05/13/04	44.6 est.		16.0	5.5-15.5	# 40 mesh	5.5-0.5	4.5-15.5	#30	3.5-4.5	0.75-3.5
DP-3	05/13/04	44.7 est.		16.0	5.5-15.5	# 40 mesh	5.5-0.5	4.5-15.5	#30	3.5-4.5	0.75-3.5
DP-4	05/13/04	44.8 est.		16.0	5.5-15.5	# 40 mesh	5.5-0.5	4.5-15.5	#30	3.5-4.5	0.75-3.5
DP-5	05/13/04	45.0 est.		16.0	5.5-15.5	# 40 mesh	5.5-0.5	4.5-15.5	#30	3.5-4.5	0.75-3.5
DP-6	05/13/04	44.3 est.		16.0	5.5-15.5	# 40 mesh	5.5-0.5	4.5-15.5	#30	3.5-4.5	0.75-3.5

Notes:

All well elevations are measured from the top of the casing and

ft msl = feet above mean sea level

Table 2: Groundwater Elevation Data, Fidelity Roofing, 1075 40th Street, Oakland, California

Well ID	Date	Elevation	Depth to Water	Groundwater Elevatio
		(ft msl)	(ft)	(ft msl)
MW-1	03/19/97	45.41	8.25	37.16
	06/20/97	45.41	9.10	36.31
	10/08/97	45.41	9,95	35.46
	01/16/98	45.41	7.57	37.84
	08/05/99	45.49	10.16	35.33
	11/18/99	45.49	8.52	36.97
	02/24/00	45.49	7.65	37.84
	05/24/00	45.49	8.47	37.02
	08/29/00	45.49	10.28	35.21
	01/12/01	45.49	8.50	36.99
	04/18/01	45.49	8.77	36.72
	07/27/01	45.49	10.50	34,99
	11/06/01	45.49	10.28	35.21
	02/13/02	45.49	8.47	37.02
	05/14/02	45.49	9.50	35.99
	08/15/02	45.49	10.39	35.10
	11/14/02	45.49	9.08	36.41
	02/12/03	45.49	8.36	37.13
	05/16/03	45.49	8.49	37.00
	08/29/03	45.49	9.91	35.58
	12/02/03	45.49	8.88	36.61
	03/08/04	45.49	7.66	37.83
	06/08/04	45.49	9.39	36.10
	09/10/04	45.49	9.95	35.54
MW-2	03/19/97	44.94	8.40	36.54
	06/20/97	44.94	8.85	36.09
	10/08/97	44.94	9.80	35.14
	01/16/98	44.94	5.28	39.66
	08/05/99	44.98	9.32	35.66
	11/18/99	44.98	10.20	34.78
	02/24/00	44.98	7.03	37.95
	05/24/00	44.98	8.01	36.97
	08/29/00	44.98	11.07	33.91
	01/12/01	44.98	8.60	36.38
	04/18/01	44.98	8.80	36.18
	07/27/01	44.98	11.10	33.88
	11/06/01	44.98	12.21	32.77
	02/13/02	44.98	7.98	37.00
	05/14/02	44.98	10.48	34.50
	08/15/02	44.98	10.64	34.34
	11/14/02	44.98	11.69	33.29
	02/12/03	44.98	9.07	35.91
	05/16/03	44.98	11.25	33.73
	08/29/03	44.98	12.19	32,79
	12/02/03	44.98	10.92	34.06
	03/08/04	44.98	8.41	36.57
	06/08/04	44.98	10.19	34.79
	09/10/04	44.98	10.84	34.14

Table 2: Groundwater Elevation Data, Fidelity Roofing, 1075 40th Street, Oakland, California

Well ID	Date	Elevation	Depth to Water	Groundwater Elevatio
		(ft msl)	(ft)	(ft msl)
MW-3	03/19/97	44.32	7.59	36.73
	10/08/97	44.32	9.98	34.34
	06/20/97	44.32	8.36	35.96
	01/16/98	44.32	9.18	35.14
	08/05/99	44.37	10.56	33.81
	11/18/99	44.37	10.92	33.45
	02/24/00	44.37	8.49	35.88
	05/24/00	44.37	8.42	35.95
	08/29/00	44.37	12.00	32.37
	01/12/01	44.37	10.50	33.87
	04/18/01	44.37	9.50	35.22
	07/27/01	44.37	11.61	32.76
	11/06/01	44.37	11.73	32.64
	02/13/02	44.37	9.36	35.01
	05/14/02	44.37	9.00	35.37
	08/15/02	44.37	11.72	32.65
	11/14/02	44,37	11.28	33.09
	02/12/03	44.37	10.17	34.20
	05/16/03	44.37	11.47	32.90
	08/29/03	44.37	11.92	32.45
	12/02/04	44.37	10.96	33.41
	03/08/04	44.37	10.49	33.88
	06/08/04	44.37	9.89	34.48
	09/10/04	44.37	11.54	32.83
MW-4	08/05/99	43.48	8.79	34.69
	11/18/99	43.48	8.11	35.37
	02/24/00	43.48	5.19	38.29
	05/24/00	43.48	7.23	36.25
	08/29/00	43.48	9.04	34.44
	01/12/01	43.48	6.40	37.08
	04/18/01	43.48 .	7.30	36.18
	07/27/01	43.48	9.16	34.32
	11/06/01	43.48	9.03	34.45
	02/13/02	43.48	6.60	36.88
	05/14/02	43.48	7.19	36.29
	08/15/02	43.48	8.97	34.51
	11/14/02	43.48	7.52	35.96
	02/12/03	43.48	6.37	37.11
	05/16/03	43.48	6.81	36.67
	08/29/03	43.48	8.56	34.92
	12/02/03	43.48	6.02	37.46
	03/08/04	43.48	5.75	37.73
	06/08/04	43.48	8.19	35.29
	09/10/04	43.48	8.84	34.64

Notes:

All well elevations are measured from the top of the casing and not from the ground surface ft msl = feet above mean sea level

Table 2: Groundwater Elevation Data, Fidelity Roofing, 1075 40th Street, Oakland, California

Well ID	Date	Elevation	Depth to Water	Groundwater Elevation
		(ft msl)	(ft)	(ft msl)

Episode Date		de Date Average Water Table Elevation (ft amsl)		Hydraulic Gradient Flow Direction (ft/ft)
1	03/19/97	36.81		
2	06/20/97	35.58	-1.23	
3	10/08/97	35,52	-0.06	
4	01/16/98	37.55	2.03	
5	08/05/99	34.87	-2.67	
6	11/18/99	35.14	0.27	
7	02/24/00	37.49	2.35	
8	05/24/00	36.55	-0.94	
9	08/29/00	33.98	-2.57	NW (0.09)
10	01/12/01	36.08	2.10	W (0.06)
11	04/18/01	36.08	0.00	W (0.02)
12	07/27/01	33.99	-2.09	W (0.02)
13	11/06/01	33.77	-0.22	NW (0.05)
14	02/13/02	36.48	2.71	NW (0.05)
15	05/14/02	35.54	-0.94	N (0.04)
16	08/15/02	34.15	-1.39	W (0.05)
17	11/14/02	34.69	0.54	N (0.08)
18	02/12/03	36.09	1.40	NW (0.03)
19	05/16/03	35.08	-1.01	NW (0.06)
20	08/29/03	33.94	-1.14	NW (0.04)
21	12/02/03	35.39	1.45	NW (0.05)
22	03/08/04	36.50	1.12	NW (0.04)
23	06/08/04	35.17	-1.34	NW (0.02)
24	09/10/04	34.29	-0.88	NW (0.007)

Table 3: Groundwater Analytical Data, Fidelity Roofing, 1075 40th Street, Oakland, California

Well ID	Date	Depth to Water	TPHg	TPHd	MTBE by 8021B	Benzene	Toluene	Ethyl- benzene	Xylenes
		(ft)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW - 1	03/19/97	8.25	ND<50	ND<50	23	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	06/23/97	9.10	1,300	420	14	150	2.1	12	19
	10/08/97	9.95	56	66	5.8	2.8	ND<0.5	ND<0.5	ND<0.5
	01/16/98	7.57	1,500	910	ND<33	95	0.72	69	8.4
	08/05/99	10.16	160	63	ND<15	1.6	ND<0.5	0.56	1.1
	11/18/99	8.52	79	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	02/24/00	7.65	300	160	ND<5.0	14	0.82	3.5	1.6
	05/24/00	8.47	1,300	480	ND<10	93	ND<0.5	17	1.6
	08/29/00	10.28	120	<0.5	ND<5.0	0.93	ND<0.5	ND<0.5	ND<0.5
	01/12/01	8.50	360	170	ND<5.0	16	ND<0.5	9.3	0.69
	04/18/01	8.77	1,100	410	2,800	63	ND<0.5	34	0.73
	07/27/01	10.50	130	66	ND<5.0	1.6	ND<0.5	ND<0.5	ND<0.5
	11/06/01	10.28	ND<50	<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	02/13/02	8.47	430	270	ND<5.0	17	0.51	11	0.64
	05/14/02	9.50	340	170	ND<5.0	21	ND<0.5	5.3	0.67
	08/15/02	10.39	96	53	ND<5.0	0.66	ND<0.5	ND<0.5	ND<0.5
	11/14/02	9.08	ND<50	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	02/12/03	8.36	710	120	ND<5.0	28	4.3	32	130
	05/16/03	8.49	1,100	340	ND<15	54	4,1	40	100
	08/29/03	9.91	1,200	280	ND<5.0	46	5.1	55	230
	12/02/03	8.88	ND<50	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.
	03/08/04	7.66	120	240 ^{1,2}	ND<5.0	2.9	ND<0.5	ND<0.5	0.71
	06/08/04	9.39	ND<50	78^2	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0
	09/10/04	9.95	ND<50	ND<50	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.
MW - 2	03/19/97	8.40	ND<50	ND<50	65	ND<0.5	ND<0.5	ND<0.5	ND<0.:
	06/23/97	8.85	ND<50	ND<50	70	3.4	ND<0.5	ND<0.5	ND<0
	10/08/97	9.80	ND<50	ND<50	90	ND<0.5	ND<0.5	ND<0.5	ND<0
	01/16/98	5.28	ND<50	ND<50	65	ND<0.5	ND<0.5	ND<0.5	ND<0
	08/05/99	9.32	ND<50	ND<50	600	ND<0.5	ND<0.5	ND<0.5	ND<0.
	11/18/99	10.20	ND<50	ND<50	370	ND<0.5	ND<0.5	ND<0.5	ND<0
	02/24/00	7.03	ND<50	ND<50	880	ND<0.5	ND<0.5	ND<0.5	ND<0
	05/24/00	8.01	ND<250	62	2,200	ND<0.5	ND<0.5	ND<0.5	ND<0
	08/29/00	11.07	ND<200	ND<50	1,900	ND<0.5	ND<0.5	ND<0.5	ND<0.
	01/12/01	8.60	470	70	2,000	8.7	3.1	16	73
	04/18/01	8.80	ND<50	ND<50	2,800	ND<0.5	ND<0.5	ND<0.5	ND<0.
	07/27/01	11.10	ND<100	ND<50	3,300	ND<0.5	ND<0.5	ND<0.5	ND<0.
	11/06/01	12.21	ND<100	ND<50	3,000	ND<0.5	ND<0.5	ND<0.5	ND<0.
	02/13/02	7.98	54	ND<50	3,200	ND<0.5	ND<0.5	ND<0.5	ND<0.
	05/14/02	10.48	ND<150	ND<50	3,800	4.8	<1.0	<1.0	<1.0
	08/15/02	10.44	ND<50	ND<50	2,900	ND<0.5	ND<0.5	ND<0.5	ND<0.
	11/14/02	11.69	ND<120	ND<50	3,800	ND<1.0	ND<1.0	ND<1.0	ND<1.
	02/12/03	9.07	1,100	120	3,200	57	7	55	210
	05/16/03	11.25	530	85	6,000	3 <i>7</i> 35	3.6	22	79
	08/29/03	12.19	2,400	1200	4,800	39	5.8	77	320
	12/02/03	12.19	2,400 ND<100	ND<50	3,300	39 ND<1.0	3.8 ND<1.0	ND<1.0	ND<1.
		8.41	ND<100 ND<250	ND<50 ND<50	4,600	ND<1.0 ND<2.5	ND<1.0 ND<2.5	ND<1.0 ND<2.5	ND<1.
	03/08/04	8.41 10.19	ND<230 ND<120			ND<2.3 ND<1.2	ND<2.3 ND<1.2	ND<2.3 ND<1.2	ND<2. ND<1.
	06/08/04	10.19	ND~120	ND<50	3,400	ND<1.2 ND<2.5	ND<1.2 ND<2.5	ND<1.2 ND<2.5	ND<1.

Table 3: Groundwater Analytical Data, Fidelity Roofing, 1075 40th Street, Oakland, California

Well ID	Date	Depth to Water	ТРНд	TPHd	MTBE by 8021B	Benzene	Toluene	Ethyl- benzene	Xylenes
		(ft)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW -3	03/19/97	7.59	26,000	5,000	230	3,000	530	340	2,300
	06/23/97	9.98	25,000	7,000	270	4,400	120	540	1,500
	10/08/97	8.36	17,000	5,100	ND<280	4,400	47	280	410
	01/16/98	9.18	29,000	7,300	ND<360	5,600	740	950	3,500
	08/05/99	10.56	31,000	5,100	ND<200	5,400	150	1100	2,300
	11/18/99	10.92	74,000	49,000	ND<1000	8,100	5,000	2,100	8,100
	02/24/00	8.49	110,000	6,300	ND<200	12,000	1,400	2,900	14,000
	05/24/00	8.42	87,000	26,000	ND<200	13,000	1,900	2,900	14,000
	08/29/00	12.00	49,000	9,400	ND<200	7,400	800	1,800	7,400
	01/12/01	10.50	69,000	21,000	ND<300	8,600	980	2,600	11,000
	04/18/01	9.50	75,000	13,000	ND<500	9,200	1,200	2,500	12,000
	07/27/01	11.61	75,000	85,000	ND<650	8,700	1,100	2,600	12,000
	11/06/01	11.73	89,000	86,000	ND<200	7,900	910	2,800	12,000
	02/13/02	9.36	85,000	13,000	ND<2000	8,500	830	2,600	11,000
	05/14/02	9.00	94,000	35,000	ND<1000	9,700	1,100	3,400	15,000
	08/15/02	11.72	37,000	9,700	ND<1200	5,200	430	1,800	5,900
	11/14/02	11.72	66,000	23,000	ND<1,200	8,300	860	3,000	11,000
	02/12/03	10.17	61,000	8,400	ND<500	6,800	500	2,400	9,800
	05/16/03	11.47	59,000	17,000	ND<500	6,200	320	2,000	6,500
	08/29/03	11.92	78,000	100,000	ND<1200	6,800	440	2,900	11,000
	12/02/03	11.32	68,000	46,000	ND<1000	7,600	450	2,900	10,000
	03/08/04	10.49	79,000	160,000	ND<250	7,700	570	300	13,000
	06/08/04	11.54	-	ee Product	ND<100*	7,600*	540*	3,500*	14,000*
MW-4	08/05/99	8.79	ND<50	ND<50	37	ND<0.5	ND<0.5	ND<0.5	ND<0.5
TAY AA	11/18/99	8.11	ND<50	ND<50	20	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	02/24/00	5.19	ND<50	ND<50	20	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	05/24/00	7.23	120	140	31	1.3	ND<0.5	ND<0.5	ND<0.5
	08/29/00	9.04	ND<50	ND<50	22	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	01/12/01	6.40	ND<50	ND<30 81	25	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	04/18/01	7.30	30	170	35	2.4	1.1	0.66	4.2
	07/27/01	9.16	87	110	26	1.8	ND<0.5	2	10
	11/06/01	9.10	200	59	21	4.5	1	5.2	24
	02/13/02	6.60	ND<50	91	15	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	05/14/02	7.19	260	140	26	12	2.7	11	49
	08/15/02	7.19 8.97	ND<50	ND<50	12	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	11/14/02	7.52	ND<50	ND<50	11	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	02/12/03	6.37	170	130	16	3.1	0.66	6.4	27
	05/16/03	6.81	ND<50	60	23	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	08/29/03	8.56	610	120	10	16	2.7	30	130
	12/02/03	6.02	ND<50	ND<50	7.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	03/08/04	5.75	ND<50	ND<50 ND<50	10	ND<0.5	ND<0.5	ND<0.5	ND<0.5
	05/08/04	3.73 8.19	ND<50 ND<50	ND<50 ND<50	11	ND<0.5	ND<0.5	ND<0.5	ND<0.5
									ND<0.5
	09/10/04	8.84	ND<50	ND<50	10	ND<0.5	ND<0.5	ND<0.5	N]

Notes:

ug/L= micrograms per liter

MTBE= Methyl Tertiary Butyl Ether

TPHg= Total Petroleum Hydrocarbons as gasoline

TPHd= Total Petroleum Hydrocarbons as diesel

- 1 gasoline range compounds are significant
- 2 diesel range compounds are significant; no recognizable pattern
- 3 unmodified or weakly modified diesel is significant
- 4 lighter than water immiscible sheen/product is present
- 5- oil range compounds are significant

^{* +} Analysis by 8260

Table 4: Fuel Oxygenate Analytical Data, Fidelity Roofing, 1075 40th Street, Oakland, California

Well ID	Date	TAME	ТВА	EDB	1,2-DCA	DIPE	ETBE benzene	MTBE
		(μg/L)	(μg/L)	(μg/L)	(µg/L)	(μg/L)	(μg/L)	(μg/L)
MW-1	06/08/04	ND<0.5	ND<5.0	ND<0.5	1,5	ND<0.5	ND<0.5	1.0
	09/10/04	ND<0.5	ND<5.0	ND<0.5	NA	ND<0.5	ND<0.5	1.0
MW-2	06/08/04	ND<100	ND<1000	ND<100	ND<100	ND<100	ND<100	4,300
	09/10/04	ND<50	ND<500	ND<50	ND<50	ND<50	ND<50	2,800
MW-3	06/08/04	ND<5.0	ND<50	ND<5.0	ND<5.0	ND<5.0	ND<5.0	99
11111 5	00,00,0	ND<100	ND<1000	ND<100	ND<100	ND<100	ND<100	ND<100
MW-4	06/08/04	ND<0.5	ND<5.0	ND<0.5	0.79	ND<0.5	ND<0.5	15
	09/10/04	ND<0.5	ND<5.0	ND<0.5	NA	ND<0.5	ND<0.5	8.2
Notes:	Notes:							
(µg/L)	micrograms p	er liter			1,2-DCA	1,2-Dichloroe	thane	
TAME	tert-Amyl met				DIPE	Diisopropyl e		
TBA	t-Butyl alcoho				ETBE	Ethyl tert-buty		
EDB	1,2-Dibrometl	nane			MTBE	Methyl Tertia	ry Butyl Ether	

Monitoring Well Number:

MW-1

Project Name:	Fidelity Roof Company	Date of Sampling: 9/10/2004
Job Number:	3119	Name of Sampler: Adrian Nieto
Project Address:	1075 40th Avenue, Oakland	

AND MITORIA	AC WELLEDA	TA MARINE WEST BEFORE SERVICE
Well Casing Diameter (2"/4"/6")		2
Wellhead Condition	ОК	·
Elevation of Top of Casing (feet above msl)		45.49
Depth of Well		21.00
Depth to Water (from top of casing)		9.95
Water Elevation (feet above msl)		35.54
Well Volumes Purged		3
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)		5.3
Actual Volume Purged (gallons)		6.0
Appearance of Purge Water		clears quickly
Free Product Present	? No	Thickness (ft):

ber of Sar	mples/Container S	Size		2 40mL VOA,	1 1L		
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	2	20.93	-9.99	901	.74	-190.3	
	4	20.57	-9.99	909	1.21	-171.8	
	6	20.30	-9.99	906	.74	-196.9	

Light grey and no hydrocarbon odor noted		

Monitoring Well Number:

MW-2

Project Name:	Fidelity Roof Company	Date of Sampling: 9/10/2004
Job Number:	3119	Name of Sampler: Adrian Nieto
Project Address:	1075 40th Avenue, Oakland	

MONITORIN	ISWELEDAJA ALAGERIA				
Well Casing Diameter (2"/4"/6")	2				
Wellhead Condition	OK ▼				
Elevation of Top of Casing (feet above msl)	44.98				
Depth of Well	21.00				
Depth to Water (from top of casing)	10.84				
Water Elevation (feet above msl)	34.14				
Well Volumes Purged	3				
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.9				
Actual Volume Purged (gallons)	6.0				
Appearance of Purge Water	clears quickly				
Free Product Present	? Thickness (ft):				

oer or samp	oles/Container S	oize -		2 40mL VOA,	I I L		
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments
to the second se	2	22.40	-9.99	1407	.83	-38.9	
	4	22.28	-9.99	1383	.73	-42.4	
	6	21.81	-9.99	1387	.64	-22.9	

Initially brwon and no hydrocarbon odor	· · · · · · · · · · · · · · · · · · ·

Monitoring Well Number:

MW-3

Project Name:	Fidelity Roof Company	Date of Sampling: 9/10/2004
Job Number:	3119	Name of Sampler: Adrian Nieto
Project Address:	1075 40th Avenue, Oakland	

Province Might Grant Gra	responsibility	TA EMPERON NO MEDITOR		
Well Casing Diameter (2"/4"/6")		2		
Wellhead Condition	ОК			
Elevation of Top of Casing (feet above msl)		44.37		
Depth of Well		21.00		
Depth to Water (from top of casing)		11.54		
Water Elevation (feet above msl)	32.83			
Well Volumes Purged	3			
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)		4.5		
Actual Volume Purged (gallons)		6.0		
Appearance of Purge Water		clear at 3 gallons		
Free Product Present	? yes	Thickness (ft):	0.66	

ber of Samp	oles/Container S	Size		2 40mL VOA,	1 1L		
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	2	21.72	9.99	1416	.66	-383.2	
	. 4	21.47	9.99	1018	.48	-420.9	
	6	·					

Initially	brown and strong hydrocarbon	odor. Quit purging at 5 gallons du	e to presence of free plroduct	

Monitoring Well Number:

MW-4

Project Name:	Fidelity Roof Company	Date of Sampling: 9/10/2004
Job Number:	3119	Name of Sampler: Adrian Nieto
Project Address:	1075 40th Avenue, Oakland	

MONTORIN	(e://www.energy	IA 《歌聲舞舞》 则 美數數	
Well Casing Diameter (2"/4"/6")		2	
Wellhead Condition	ок		₩
Elevation of Top of Casing (feet above msl)		43.48	
Depth of Well		20.00	
Depth to Water (from top of casing)		8.84	
Water Elevation (feet above msl)		34.64	
Well Volumes Purged		3	
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	,	5.4	
Actual Volume Purged (gallons)		6.0	
Appearance of Purge Water		slight clear	
Free Product Present	? No	Thickness (ft):	

per of San	nples/Container 8	Size		2 40mL VOA,	1 1L		
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
	2	22.56	-9.99	1025	4.20	-114.3	
	4	22.86	-9.99	1115	2.32	-63.5	
	6	22.10	-9.99	1160	.97	-48.1	

	 •		
Slightly clear and no hc odor			
John Charles and the the oder			
l control of the cont			
l e			



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #3119; Fidelity Roof	Date Sampled: 09/10/04
2500 Camino Diablo, Ste. #200		Date Received: 09/10/04
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Reported: 09/17/04
Wallet Clock, CA 34337	Client P.O.:	Date Completed: 09/17/04

WorkOrder: 0409143

September 17, 2004

Dear Robert:

Enclosed are:

- 1). the results of 3 analyzed samples from your #3119; Fidelity Roof project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill 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 please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager



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Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #3119; Fidelity Roof	Date Sampled: 09/10/04
2500 Camino Diablo, Ste. #200		Date Received: 09/10/04
771. (0. 1. 04.04507	Client Contact: Robert Flory	Date Extracted: 09/15/04-09/16/04
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed: 09/15/04-09/16/04

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

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
2010	CHERT ID	NEUIX	1111(g)					,	<u> </u>	
001B	MW-1	w	ND	· ND	ND	ND	. ND	ND	1	98.0
002B	MW-2	w	ND<250,j	4100	ND<2.5	ND<2.5	ND<2.5	ND<2.5	5	96.6
003B	MW-4	W	ND	10	ND	ND	ND	ND	1	98.0
	<u>.</u>									
		<u> </u>								
		**************************************							}	
										<u> </u>
			<u> </u>					,	-	
										<u> </u>
	Limit for DF =1; s not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	1	μд
			~ * * *		2.5	3.7.4	1 374	3 T 4		

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

NA

S

NA

NA

NA

NA

above the reporting limit

NA

1 mg/Kg

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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LSP*			wedsite: www.	inceampoent com E-man. manigente an	фочност	
All Environme	ental, Inc.	Client Project ID: #3	19; Fidelity Roof	Date Sampled: 09/10/04		
2500 Camino I	Diablo, Ste. #200			Date Received: 09/10/04		
117-1	CA 04507	Client Contact: Robert	Date Extracted: 09/10/04			
Walnut Creek,	CA 94397	Client P.O.:		Date Analyzed: 09/13/04	-09/16/0)4
		l Range (C10-C23) Ext				0.4001.43
Extraction method: S			al methods: SW8015C	W	ork Order:	
Lab ID	Client ID	Matrix	TPH(d)		DF	% SS
0409143-001A	MW-1	w	ND		1	109
0409143-002A	MW-2	w	ND		1	108
0409143-003A	MW-4	w .	ND		i	89.0
	Carlotte of the Carlotte of th					
					-	
						į
,						
					-	
	g Limit for DF =1;	W	50		<u></u> µ	g/L
	s not detected at or he reporting limit	S	NA		1	NA

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

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

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

_Angela Rydelius, Lab Manager



%SS:

Comments

McCampbell Analytical, Inc.

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All Environmental, Inc.	Client Project II): #3119; Fideli	ty Roof	Date	Sampled: 09/	10/04	
2500 Camino Diablo, Ste. #200				Date	Received: 09/	10/04	
Walnut Creek, CA 94597	Client Contact:	Robert Flory		Date	e Extracted: 09/	/11/04	
wathut Cicck, CA 94397	Client P.O.:			Date	e Analyzed: 09/	11/04	
Extraction Method: SW5030B		tile Organics by		C/M	[S*	Work Ord	er: 0409143
Lab ID	0409143-001C	0409143-002C	0409143-00	3C			
Client ID	MW-1	MW-2	MW-4				Limit for
Matrix	W	W	W			DF	`= 1
DF	1	100	1			S	W
Compound		Conce	entration			ug/kg	μg/L
tert-Amyl methyl ether (TAME)	ND	ND<50	ND	İ		NA	0.5
t-Butyl alcohol (TBA)	ND	ND<500	ND			NA	5.0
Diisopropyl ether (DIPE)	ND	ND<50	ND			NA	0.5
Ethyl tert-butyl ether (ETBE)	ND	ND<50	ND			NA	0.5
Methyl-t-butyl ether (MTBE)	0.95	2800	8.2			NA	0.5

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

97.9

Surrogate Recoveries (%)

96.9

97.5



^{*} 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/non-aqueous liquid samples in mg/L.

[#] surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0409143

EPA Method: SW80218	3/8015Cm E	extraction:	SW5030E	3	Batch	ID: 13062	S	piked Samp	le ID: 0409	135-013A
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)
Allalyte	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [£]	ND	60	97.5	104	6.04	100	101	1,12	70	130
MTBE	ND	10	95.1	99.8	4.81	96.5	98.2	1.75	70	130
Benzene	ND	10	103	110	7.39	102	106	3.85	70	130
Toluene	ND	10	98	107	8.98	101	101	0	70	130
Ethylbenzene	ND	10	100	107	6.86	102	104	2.04	70	130
Xylenes	ND	30	85.7	94.7	9.98	90	90.3	0.370	70	130
%SS:	98.5	10	106	110	3.57	106	107	1.19	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

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

[%] 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.

 $[\]Sigma$ TPH(btex) = sum of BTEX areas from the FID.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or 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.



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QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0409143

EPA Method: SW8015C	E	extraction:	SW35100	2	Batch	ID: 13063	s	piked Sampl	le ID: N/A	
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Allalyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	N/A	7500	N/A	N/A	N/A	110	109	1.39	70	130
%SS:	N/A	2500	N/A	N/A	N/A	118	116	1.34	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

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

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

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

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

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

QA/QC Officer ___

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0409143

EPA Method: SW8260B	E	xtraction:	SW5030E	3	Batch	ID: 13064	S	Spiked Sample ID: 0409143-001C				
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)		
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High		
tert-Amyl methyl ether (TAME)	ND	10	90.8	91.7	1.01	85.9	87.7	2.09	70	130		
t-Butyl alcohol (TBA)	ND	50	82.9	82.6	0,350	83.1	83	0.182	70	130		
Diisopropyl ether (DIPE)	ND	10	120	120	0	116	117	1.06	70	130		
Ethyl tert-butyl ether (ETBE)	ND	10	109	107	1.55	105	106	0.816	70	130		
Methyl-t-butyl ether (MTBE)	0.949	10	90.7	89.4	1.27	98.8	101	1.93	70	130		
%SS2:	97.9	10	102	102	0	103	103	0	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

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

QA/QC Officer

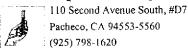
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

[%] 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.



CHAIN-OF-CUSTODY RECORD

Page 1 of !

5 days

WorkOrder: 0409143

ClientID: AEL

Report to:

Robert Flory

All Environmental, Inc.

2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597

TEL:

(925) 283-6000 (925) 283-6121

FAX: ProjectNo: #3119; Fidelity Roof

PO:

Bill to:

Diane

All Environmental, Inc.

2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597

Date Received: 9/10/04

Requested TAT:

Date Printed: 9/10/04

									 Rec	ueste	d Tes	ts (Se	e leg	end l	below)						
Sample ID	ClientSampID	Matrix	Collection Date	Hold		2	3	4	 5	6	7		3	9	10)	11		12	13	14	15
0409143-001	MW-1	Water	9/10/04		С	В	A		 			<u> </u>										
0409143-002	MW-2	Water	9/10/04		С	В	Α											_				_
0409143-003	MW-4	Water	9/10/04		С	В	Α					<u> </u>				L		<u>.i.</u>				

Test Legend:

1	5-OXYS_W
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2	G-MBTEX_W
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3	TPH(D)_W
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Prepared by: Rosa Venegas

Comments:

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

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Tele: (925) 944-2		14 /	F	ax: (925)	94	4-2	895						\neg	8015)/MTBE		30 E	8.1)	Ì				Q.		8/(1				i				
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Sampler Signatur	e: May	res	N Mes	202											12/80	ĺ	2 Gr	DC:3L		02 /		[O 8,			EPA 6			2/6	1						
	7	SAMP	LING		S.i.a		MA	TR	XĽ	-	M PRI	ET)	HOD RVE	D	Gas (602/8020	(8015)	Total Petroleum Oil &	Total Petroleum Hydrocarbons (418.1)		BTEX ONLY (EPA 602 / 8020)		EPA 608 / 8080 PCB's ONL	EPA 624/8240/8260		by EF			Lead (7240/7421/239.2/6010)							
				ers	ain											<u>~</u>	E	LU I	010	ΥÜ	080	080	7	270	A'S	etals	Slad	742							
SAMPLE ID (Field Point Name)	LOCATION			Containers	Type Containers	1.			47	- 1					BTEX & TPH as	TPH as Diesel	trok	long	EPA 601 / 8010	Z	EPA 608 / 8080	8/8	1	EPA 625 / 8270	PAH's / PNA's by	CAM-17 Metals	LUFT 5 Metals	240,		l					
(Light Louis Manie)		Date	Time	0	ě	Water	1		Sludge	E.		-	Õ	Other	8 8	f as	al Pe	al Pe	8	X	4 60	4 60	₹.	4 62	E,S	E	E	rd (7							
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110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #3119; Fidelity Roof	Date Sampled: 09/10/04
2500 Camino Diablo, Ste. #200		Date Received: 09/10/04
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Reported: 09/16/04
Walnut Glock, Ozi 54357	Client P.O.:	Date Completed: 09/16/04

WorkOrder: 0409145

September 16, 2004

Dear Robert:

Enclosed are:

- 1). the results of 1 analyzed sample from your #3119; Fidelity Roof project,
- 2). a QC report for the above sample
- 3). a copy of the chain of custody, and
- 4). a bill 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 please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

All Environmental, Inc.	Client Project ID: #3119; Fidelity Roof	Date Sampled: 09/10/04
2500 Camino Diablo, Ste. #200		Date Received: 09/10/04
	Client Contact: Robert Flory	Date Extracted: 09/13/04
Walnut Creek, CA 94597	Client P.O.;	Date Analyzed: 09/13/04

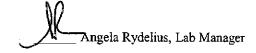
Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B		Ana	alytical Met	hod: SW8260B	Work	Order: 0	409145
Lab ID				0409145-001A			
Client ID				MW-3		•	
Matrix				Water			
Сотроила	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1000	200	5.0	Acrolein (Propenal)	ND<1000	200	5.0
Acrylonitrile	ND<400	200	2.0	tert-Amyl methyl ether (TAME)	ND<100	200	0.5
Benzene	7600	200	0.5	Bromobenzene	ND<100	200	0.5
Bromochloromethane	ND<100	200	0.5	Bromodichloromethane	ND<100	200	0.5
Bromoform	ND<100	200	0.5	Bromomethane	ND<100	200	0.5
2-Butanone (MEK)	ND<400	200	2.0	t-Butyl alcohol (TBA)	ND<1000	200	5.0
n-Butyl benzene	900	200	0.5	sec-Butyl benzene	ND<100	200	0.5
tert-Butyl benzene	ND<100	200	0.5	Carbon Disulfide	ND<100	200	0.5
Carbon Tetrachloride	ND<100	200	0.5	Chlorobenzene	ND<100	200	0.5
Chloroethane	ND<100	200	0.5	2-Chloroethyl Vinyl Ether	ND<200	200	1.0
Chloroform	ND<100	200	0.5	Chloromethane	ND<100	200	0.5
2-Chlorotoluene	ND<100	200	0.5	4-Chlorotoluene	ND<100	200	0.5
Dibromochloromethane	ND<100	200	0.5	1,2-Dibromo-3-chloropropane	ND<100	200	0.5
1,2-Dibromoethane (EDB)	ND<100	200	0.5	Dibromomethane	ND<100	200	0.5
1,2-Dichlorobenzene	ND<100	200	0.5	1,3-Dichlorobenzene	ND<100	200	0.5
1,4-Dichlorobenzene	ND<100	200	0.5	Dichlorodifluoromethane	ND<100	200	0.5
1,1-Dichloroethane	ND<100	200	0.5	1,2-Dichloroethane (1,2-DCA)	ND<100	200	0.5
1,1-Dichloroethene	ND<100	200	0.5	cis-1.2-Dichloroethene	ND<100	200	0.5
trans-1,2-Dichloroethene	ND<100	200	0.5	1,2-Dichloropropane	ND<100	200	0.5
1,3-Dichloropropane	ND<100	200	0.5	2,2-Dichloropropane	ND<100	200	0.5
1,1-Dichloropropene	ND<100	200	0.5	cis-1,3-Dichloropropene	ND<100	200	0.5
trans-1,3-Dichloropropene	ND<100	200	0.5	Diisopropyl ether (DIPE)	ND<100	200	0.5
Ethylbenzene	3500	200	0.5	Ethyl tert-butyl ether (ETBE)	ND<100	200	0.5
Freon 113	ND<2000	200	10	Hexachlorobutadiene	ND<100	200	0.5
Hexachloroethane	ND<100	200	0.5	2-Hexanone	ND<100	200	0.5
Isopropylbenzene	150	200	0.5	4-Isopropyl toluene	ND<100	200	0.5
Methyl-t-butyl ether (MTBE)	ND<100	200	0.5	Methylene chloride	ND<100	200	0.5
4-Methyl-2-pentanone (MIBK)	ND<100	200	0.5	Naphthalene	3000	200	0.5
Nitrobenzene	ND<2000	200	10	n-Propyl benzene	630	200	0.5
Styrene	ND<100	200	0.5	1,1,1,2-Tetrachloroethane	ND<100	200	0.5
1,1,2,2-Tetrachloroethane	ND<100	200	0.5	Tetrachloroethene	ND<100	200	0.5
Toluene	540	200	0.5	1.2.3-Trichlorobenzene	ND<100	200	0.5
1.2.4-Trichlorobenzene	ND<100	200	0.5	1,1,1-Trichloroethane	ND<100	200	0.5
1,1,2-Trichloroethane	ND<100	200	0.5	Trichloroethene	ND<100	200	0.5
Trichlorofluoromethane	ND<100	200	0.5	1,2,3-Trichloropropane	ND<100	200	0.5
I,2,4-Trimethylbenzene	6900	200	0.5	1,3,5-Trimethylbenzene	1700	200	0.5
Vinyl Chloride	ND<100	200	0.5	Xylenes	14,000	200	0.5
		Sur	rrogate R	ecoveries (%)			
%SS1:	10:		-	%SS2:	98.	1	

%SS3: 96.9

Comments:

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content.



^{*} 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 / non-aqueous liquid samples in mg/L.

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

[#] surrogate diluted out of range or surrogate coelutes with another peak.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

Matrix: W

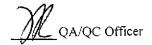
WorkOrder: 0409145

EPA Method: SW8260B	E	xtraction:	SW5030E	3	Batch	ID: 13064	S	piked Sampl	e ID: 04091	43-001C
Analyte	Sample	Spiked	MS*	M\$D*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	: Criteria (%)
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
tert-Amyl methyl ether (TAME)	ND	10	90.8	91.7	1.01	85.9	87.7	2.09	70	130
Benzene	ND	10	117	116	1.37	114	116	1.33	70	130
t-Butyl alcohol (TBA)	ND	50	82.9	82.6	0.350	83.1	83	0.182	70	130
Chlorobenzene	ND	10	98.7	99.4	0.641	97.6	97.7	0.128	70	130
1,2-Dibromoethane (EDB)	ND	10	103	101	1.92	101	101	0	70	130
1,2-Dichloroethane (1,2-DCA)	1.24	10	98.8	94.2	4.25	107	110	2.27	70	130
1.1-Dichloroethene	ND	01	105	98.7	6.16	109	109	0	70	130
Diisopropyl ether (DIPE)	ND	10	120	120	0	116	117	1.06	70	130
Ethyl tert-butyl ether (ETBE)	ND	10.	109	107	1.55	105	106	0.816	70	130
Methyl-t-butyl other (MTBE)	0.949	10	90.7	89.4	1.27	98.8	101	1.93	70	130
Toluene	ND	10	109	109	0	108	105	3.02	70	130
Trichloroethene	ND	10	87.2	82.9	5.07	88.6	87	1.83	70	130
%SS1:	#	10	100	97	2.61	101	102	1.64	70	130
%SS2:	97.9	10	102	102	o	103	103	0	70	130
%SS3:	117	10	109	113	3.18	108	111	2.65	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

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

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

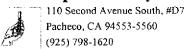


[%] Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

^{*} 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 langive content.



CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0409145

ClientID: AEL

Report to:

Robert Flory

All Environmental, Inc. 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597 TEL:

(925) 283-6000

FAX: (925) 283-6121 ProjectNo: #3119; Fidelity Roof

PO:

Bill to:

Requested TAT:

5 days

Diane

All Environmental, Inc.

2500 Camino Diablo, Ste. #200

Walnut Creek, CA 94597

Date Received:

Date Printed:

9/10/04

9/10/04

										Rec	ueste	d Test	s (S	ee leg	end k	elow)					
Sample ID	ClientSampID	Matrix	Collection Date		1	2	3	4	5		6	7	1	8 ¦	9	10	11	12	13	14 ′	5
0409145-001	MW-3	Water	9/10/04	T [-7]	Δ				1				- T	·		T				Ţ <u></u>]

Test Legend:

1 8260B_W	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Prepared by: Rosa Venegas

Comments:

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

Report To: Company: E-Mail: Tele: (97.5) WCodo: Fax: () Project Name: Project Name: Samples for Metals analysis: Project Name: Samples ID (Field Point Name) LOCATION Date Time Date Time Date: Time Time Date: Time Time Date: Time Time Date: Time Date: Time Date: Time Date: Time Date: Time Date: Time Date: Time Date: Time Date: Time Date: Time Date: Date: Time Date: Date: Date: Time Date: Date	Web	site: <u>www.mc</u>	10 2 ^{mt} AV PACHEC campbell.	VENUE SO CO, CA 94	OUTH, 553-55	, #D7 60 ain@r	nccar	որեւ	II.co	ın	522							AR	ου	JNI	T (IM	Ę	~	Ę, RUS) 311	Ę] HR		_ 48 I		72	<u>]</u> :	S-DAY
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Feb. (GED 9 19 7 - 6000 Pas: () Tele: (GED 9 19 7 - 6000 Pas: () Project Name:	077				/ · · · · · · · · · · · · · · · · · · ·	'`								_								1												
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