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January 16, 2003

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

Subject: Quarterly Groundwater Monitoring Report 1075 40th Street Oakland, California AEI Project No. 3119 Alameda County

JAN 2.2

Environmental Health

Alameda County

JAN 2 2 2003

Environmental Health

Dear Mr. Hwang:

Enclosed is a copy of the quarterly groundwater report for the seventeenth episode of sampling.

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Please call either Peter McIntyre at (925) 283-6000 if you have any questions.

Sincerely,

- States er.

Nathan Garfield Staff Geologist

Los Angeles (310) 798-4255 Corporate Headquarters San Francisco (800) 801-3224

Seattle (425) 401-8500 New York (212) 279-7770

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January 16, 2003

QUARTERLY GROUNDWATER MONITORING REPORT

1075 40TH Street Oakland, California

Project No. 3119

Prepared For

Fidelity Roof Company 1075 40th Street Oakland, CA 94608

Prepared By

All Environmental, Inc. 3210 Old Tunnel Road, Suite B Lafayette, CA 94549 (925) 283-6000



3210 Old Tunnel Road, Suite B, Lafayette, CA 94549-4157

Phone: (925) 283-6000 Fax: (925) 283-6121



January 16, 2003

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

RE: Quarterly Groundwater Monitoring and Sampling Report Seventeenth Episode 1075 40th Street Oakland, California Project No. 3119

Dear Mr. Upshaw:

On your behalf, AEI Consultants (AEI) has prepared this report to document the groundwater investigation at the above referenced site (Figure 1: Site Location Map). The purpose of this activity was to monitor groundwater quality in the vicinity of previous 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 seventeenth episode of groundwater monitoring and sampling.

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 in the vicinity of the former UST excavation¹. Analytical results from the subsurface investigation revealed significant levels of gasoline and diesel petroleum hydrocarbons present in soil to the south and to the west of the open excavation. The contamination was thought to extend beneath the existing pump island. 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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During the drilling investigation, AEI collected a four-point composite soil sample from the stockpile. Approval was granted by Ms. Hugo of the ACHCSA to reuse the stockpiled soil as backfill material.

On October 25, 1996, AEI extended the excavation laterally 7 feet to the south and 12 feet to the west². Soil was removed to a depth of 9 feet below ground surface (bgs). The dispenser island and associated piping were also removed. Groundwater was not encountered during the excavation activities. 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 wells³. At the request of the ACHCSA, six additional soil borings were drilled south and west of the well locations on November 4, 1998⁴. The locations of these borings were chosen to assess the lateral extent of impacted groundwater at the site. TPH-d was detected at 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.

Based on the results of these six soil borings, the ACHCSA requested the installation of a fourth groundwater monitoring well at the site, located south of the former tank locations along Yerba Buena Avenue. Monitoring well MW-4 was installed on July 15, 1999⁵. No detectable concentrations of petroleum hydrocarbons were found in the soil samples taken during installation.

The analytical results of prior groundwater sampling episodes are included in Table 2. This report describes the results of the seventeenth groundwater monitoring event that took place on November 14, 2002.

Summary of Activities

AEI measured the depth to groundwater in the four wells on November 14, 2002. Prior to sampling, the depth to water from the top of the well casings was measured with an electric water level indicator. The wells were purged and sampled using disposable plastic bailers. Temperature, pH, and specific conductivity were measured during the purging of the wells. AEI removed at least 3 well volumes from each well while purging. Once the temperature, pH, and specific conductivity stabilized, a water sample was collected. Well locations are shown in Figure 2.

Water was poured from the bailers into 1-liter amber glass bottles and 40 ml glass VOA vials and capped so neither headspace nor air bubbles were visible within the sample containers. Samples were shipped on ice under proper chain of custody protocol to McCampbell Analytical, Inc. of Pacheco, California (State Certification #1644).

Groundwater samples were submitted for chemical analysis for TPH-g (EPA Method 5030/8015), MTBE (EPA Method 8020/602), benzene, toluene, ethylbenzene, and xylenes (BTEX) (EPA Method 8020/602), and (TPH-d) (EPA Method 3510/8015).

Field Results

A strong hydrocarbon odor and heavy sheen were detected during the sampling of monitoring well MW-1. Groundwater levels for the current monitoring episode ranged from 33.09 to 36.41 feet above mean sea level (msl). These groundwater elevations were an average of 0.54 feet higher than the previous monitoring episode. The most recent calculated groundwater gradient was 0.075 foot per foot (ft/ft), and the direction of flow was towards the northwest. This represents an approximately 45-degree shift to the north in the direction of flow, and a slight increase in gradient. These fluctuations were consistent with previous sampling episodes.

Groundwater elevation data are summarized in Table 1. The groundwater elevation contours and the groundwater flow direction are shown on Figure 2. Refer to Appendix B for Groundwater Monitoring Well Field Sampling Forms.

Groundwater Quality

Significant concentrations of petroleum hydrocarbons remain in the groundwater. The highest concentrations of petroleum hydrocarbons were observed in MW-1 which TPH-g at 66,000 μ g/L and benzene at 8,300 μ g/L. This is a drastic increase since the previous sampling episode. Well MW-3, which has had the highest historical contaminant levels, was non detect for all parameters. MTBE was detected in well MW-2 at 3,800 μ g/L and in MW-4 at 11 μ g/L.

A summary of groundwater quality data is presented in Table 2. Laboratory results and chain of custody documents are included in Appendix B.

Conclusions

Groundwater analytical results from the current sampling episode indicated that elevated levels of petroleum hydrocarbons remained in the groundwater. The analytical results indicate that hydrocarbon concentrations have drastically increased in MW-1 while they have become non detect in well MW-3. Groundwater elevations were 0.54 feet higher than the previous sampling episode and groundwater flow direction was to the northwest.

A corrective action plan (CAP)¹³ discussing available remedial technologies available to this site was submitted to the ACHCSA for their review and has been approved. AEI anticipates beginning the approved scope of work once pre-approval for reimbursement has been approved by the California State UST Cleanup Fund. Quarterly groundwater monitoring and sampling of the wells will continue at the site and the next monitoring and sampling episode is scheduled for February 2003.

References

- 1. Phase II Soil and Groundwater Investigation Report, October 7, 1996, prepared by AEI.
- 2. Excavation and Disposal of Contaminated Soil Report, January 7, 1997, prepared by AEI.
- 3. Groundwater Monitoring Well Installation Report, dated May 30, 1997, prepared by AEI.
- 4. Phase II Subsurface Investigation Report, December 9, 1998, prepared by AEI.
- 5. Groundwater Monitoring Well and Sampling report, September 3, 1999, prepared by AEI.
- 6. Quarterly Groundwater Monitoring and Sampling Report (QGMSR), March 21, 2000, prepared by AEI.
- 7. QGMSR, July 28, 2000, prepared by AEI.
- 8. QGMSR, November 6, 2000, prepared by AEI.
- 9. QGMSR, January 29, 2001, prepared by AEI.
- 10. QGMSR, May 8, 2001, prepared by AEI.
- 11. QGMSR, August 14, 2001, prepared by AEI.
- 12. QGMSR, December 11, 2001, prepared by AEI.
- 13. Corrective Action Plan, July 31, 2001, prepared by AEI.
- 14. QGMSR, May 31, 2002, prepared by AEI.
- 15. QGMSR, June 4, 2002, prepared by AEI.
- 16. QGWMSR, September 9, 2002, prepared by AEI.

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

Nathan Garfield Staff Geologist

J. P. Derhake, PE Senior Author, Principal

Figures

Figure 1	Site Location Map
Figure 2	Groundwater Gradient Map
Figure 3	Dissolved Hydrocarbon Map

Tables

- Table 1Groundwater Elevation Data
- Table 2
 Groundwater Sample Analytical Data

Appendices

Appendix A	Groundwater Monitoring Well Field Sampling Forms
Appendix B	Laboratory Analyses With Chain of Custody Documentation

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





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Table 1					
Groundwater Elevation Data	1				

Well ID	Date	Elevation	Depth to Water	Groundwater
		(ft msl)	(ft)	ft msl)
MW-1	03/19/97	45.41	8 75	3716
	06/20/97	45.41	91	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	8.5	36.99
	04/18/01	45.49	8,77	36.72
	07/27/01	45.49	10.5	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
MW-2	03/19/97	44,94	8.4	36.54
	06/20/97	44,94	8,85	36.09
	10/08/97	44.94	9.8	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	10.2	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	8,6	36.38
	04/18/01	44.98	8.8	36.18
	07/27/01	44.98	U .1	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
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	32.37
	01/12/01	44.37	10.5	33.87
	04/18/01	44.37	9,5	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
	1714/04		11.20	55,05
MW-4	08/05/99	43.48	8.79 8 1 1	34,69
	11/10/77	43.48	510	19.37 19.70
	02/24/00	43,48	J.19 7 12	36.47
	03/24/00	43.48	1.23	34 44
	01/12/01	43.40	5.04	37.08
	04/18/01	43.48	72	3618
	07/27/01	43.48	9.16	34 32
	11/06/01	43 48	9.03	34.45
	02/13/07	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 49	7.52	35.96

Notes:

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

Well ID	Date	Consultant/	TPHg	MTBE	Benzene	Toluene	Ethyl-	Xylenes	TPHd
			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(eg/L)
MW - 1	03/19/97	AEI/MAI	<50	23	<0.5	<0.5	<0.5	<0.5	<50
	06/23/97	AEI/MAI	1.300	14	150	2.1	12	19	420
	10/08/97	AEI/MAI	56	5.8	2,8	<0.5	<0.5	<0.5	66
	01/16/98	AEI/MAI	1,500	<33	95	0.72	69	8.4	910
	08/05/99	AEI/MAI	160	<15	1.6	<0.5	0.56	1,1	63
	11/18/99	AEI/MAI	79	<5.0	<0.5	<0.5	<0.5	<0.5	<50
	02/24/00	AEI/MAI	300	<5.0]4	0.82	3,5	1.6	160
	05/24/00	AEI/MAI	1,300	ND <l0< td=""><td>93</td><td><0.5</td><td>17</td><td>1.6</td><td>480</td></l0<>	93	<0.5	17	1.6	480
	08/29/00	AEI/MAI	120	<5.0	0,93	<0.5	<0.5	<0.5	<0.5
	01/12/01	AEI/MAI	360	<5.0	16	<0.5	9.3	0,69	170
	04/18/01	AEI/MAI	1,100	2,800	63	<0.5	34	0.73	410
	07/27/01	AEI/MAI	130	<3.0	1.6	<0.5	<0.5	<0.5	66
	02/12/01	AEI/MAI	<50	<.0	<0.5	<0.5	<0.5	<0.5	<50
	05/14/02	ADJ/MAI	430	<3.0	17	0.51	11	0.64	270
	09/15/02	ACUMIAI	340	< 3.0	21	<0.5	3,3	0.67	170
	11/14/02	AEI/MAI	66,000	ND<1,200	8,300	860	3,000	<0.5 11,000	23,000
MW . 2	03/19/97	ATT/MAT	<50	65	<0.5	<i>c</i> 0.5	~0.5	r0 5	~50
	06/23/97	AEI/MAI	<50	20	34	<0.5	<0.5	<0.5	<50
	10/08/97	AEI/MAI	<50	90	<0.5	<0.5	<0.5	<0.5	<50
	01/16/98	AEI/MAI	<50	65	⊲0.5	⊲0.5	<0.5	<0.5	<50
	08/05/99	AEI/MAI	<50	600	<0.5	<0.5	<0.5	<0.5	<50
	11/18/99	AEI/MAI	<50	370	<0.5	<0.5	<0.5	<0.5	<50
	02/24/00	AEI/MAI	<50	880	<0.5	<0.5	<0.5	<0.5	<50
	05/24/00	AEI/MAI	ND<250	2,200	<0.5	<0.5	<0.5	<0,5	62
	08/29/00	AEI/MAI	ND<200	1,900	<0.5	<0.5	<0.5	<0.5	<50
	01/12/01	AEI/MAI	470	2,000	6.7	3.1	16	73	70
	04/18/01	AEI/MAI	<50	2,800	<0.5	<0.5	<0,5	<0.5	<50
	07/27/01	AEI/MAI	ND<100	3,300	<0.5	<0.5	<0.5	<0.5	<50
	11/06/01	AEI/MAI	ND<100	3,000	<0.5	<0.5	<0.5	<0.5	<50
	02/13/02	AEI/MAI	54	3,200	<0.5	<0.5	<0,5	<0.5	<50
	03/14/02	AEI/MAI	ND<150	3,800	4.8	ND<1.0	ND<1.0	ND<1.0	<50
	11/14/02	AEI/MAI AEI/MAI	<50 ND<120	2,900	<0.5 ND-<1	<0.5 ND<1	<0.5 ND<1	<0.5 ND<1	<50 50
MW -3	03/19/97	AEI/MAI	26,000	230	3,000	530	340	2,300	5,000
	06/23/97	AEI/MAI	25,000	270	4,400	120	540	1,500	7,000
	10/08/97	AEI/MAI	17,000	ND<280	4,400	47	280	410	5,100
	01/16/98	AEI/MAI	29,000	ND<360	5,600	740	950	3,500	7,300
	11/19/00	AEI/MAI	31,000	ND<200	5,400	150	1100	2,300	5,100
	02/14/00	AEUMAI	110,000	ND<1,000	8,100	5,000	2,100	8,100	490,000
	05/24/00	ACCIMENT	87,000	ND<200	12,000	1,400	2,900	14,000	6,300
	08/20/00	AEUMAL	49,000	ND<200	7.400	1,900	1,900	7 400	26,000
	01/12/01	AEI/MAI	69,000	ND<300	8,600	080	2,600	11,000	7,400
	04/18/01	AEI/MAI	75.000	ND<500	9,000	1 200	2,000	12,000	13,000
	07/27/01	AEI/MAI	75.000	ND<650	8 700	1 100	2,600	12,000	85,000
	11/06/01	AEL/MAI	89.000	ND<200	7 900	910	2,800	12,000	86,000
	02/13/02	AEI/MAI	85,000	ND<2000	8.500	830	2,600	11.000	13 000
	05/14/02	AEI/MAI	94,000	ND<1000	9,700	1,100	3,400	15,000	35.000
	08/15/02	AEI/MAI	37,000	ND<1200	5,200	430	L.800	5,900	9,700
	11/14/02	AEI/MAI	<50	<5.0	<0.5	<0.5	<0.5	<0.5	< 50
MW-4	08/05/99	AEI/MAI	<50	37	<0.5	<0.5	<0,5	<0.5	<50
	11/18/99	AEI/MAI	<50	20	<0.5	<0.5	<0,5	<0.5	<50
	02/24/00	AEI/MAI	<50	20	<0.5	<0.5	<0.5	<0.5	<50
	05/24/00	AEL/MAI	120	31	1.3	<0.5	<0.5	<0.5	140
	08/29/00	AEI/MAI	<50	22	<0.5	<0.5	<0.5	<0.5	<0.5
	01/12/01	AEI/MAI	<50	25	<0.5	⊲).5	<0.5	<0.5	81
	04/18/01	AEI/MAI	30	35	2.4	1.1	0,66	4.2	170
	07/27/01	AEI/MAI	87	26	1.8	⊲0.5	2	10	110
	11/06/01	AEI/MAI	200	21	4,5	1	5.2	24	59
	02/13/02	AEI/MAI	<50	15	<0,5	<0.5	<0.5	<0.5	91
	05/14/02	AEI/MAI	260	26	12	2.7	11	49	140
	08/15/02	AEI/MAI	<50	12	<0.5	<0.5	<0.5	<0.5	<50
	11/14/02	AEI/MAI	<50	11	<0.5	<0.5	<0.5	<0.5	<50

Table 2 Groundwater Sample Analytical Data

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Notes: ag/L micrograms per liter ND= Not detected MIBEs Methyl Tertisary Butyl Ether TPHg= Total Petroleum Hydrocarbons as gasoline TPHd= Total Petroleum Hydrocarbons as disaet AEI = AEI Consultants MAI = McCampbell Analytical Inc., Pachero, California

		Monitoring Well Number: M	<u>W-1</u>
Decise at Name			
Project Name:	Fidelity Root Company	Date of Sampling: 11/14/20)02
Job Number:	3119	Name of Sampler: N. Garfie	əld
Project Address:	1075 40th Street, Oakland		
		IELL DATA	
Well Casing Diameter (2	"/4"/6")	2	<u></u>
Wellhead Condition			-
Elevation of Top of Casi	ng (feet above msl)	45.49	
Depth of Well		21.00	—
Depth to Water (from top	o of casing)	9.08	
Water Elevation (feet ab	ove msi)	36.41	
Well Volumes Purged		3	
Gallons Purged: formul gal/ft), 4" (.65	a valid only for casing sizes of 2" (.16 gal/ft), and 6" (1.44 gal/ft)	5.7	

Time Vol Removed (gal) Temperature (deg C) pH Conductivity (μ sec/cm) DO (mg/L) ORP (meV) Comment Comment 1:20 1 19.5 6.48 1748 <t< th=""><th colspan="4">nber of Samples/Container Size</th><th>2 40mL VOA,</th><th>1 1L</th><th></th><th></th></t<>	nber of Samples/Container Size				2 40mL VOA,	1 1L		
1:20 1 19.5 6.48 1748 1:21 2 19.1 6.57 1665 dry 1:24 3.5 19.0 6.65 1698 dry	Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μ sec/cm)	DO (mg/L)	ORP (meV)	Comments
1:21 2 19.1 6.57 1665 dry 1:24 3.5 19.0 6.65 1698 dry	1:20	1	19.5	6.48	1748			· · · · · · · · · · · · · · · · · · ·
1:24 3.5 19.0 6.65 1698 dry	1:21	2	19.1	6.57	1665			dry
	1:24	3.5	19.0	6.65	1698			dry
1:29 6 19.9 6.61 1665	1:29	6	19.9	6.61	1665			

Yes

Free Product Present?

5.0

clear

Thickness (ft):

<0.1

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

Oily sheen, strong hydrocarbon odor

Actual Volume Purged (gallons)

Appearance of Purge Water

Monitoring Well Number: MW-2

Project Name:	Fidelity Roof Company	Date of Sampling: 11/14/2002
Job Number:	3119	Name of Sampler: N. Garfield
Project Address:	1075 40th Street, Oakland	

MONITORIN	NG WELLIDATA				
Well Casing Diameter (2"/4"/6")	2				
Wellhead Condition	ок				
Elevation of Top of Casing (feet above msl)	44.98				
Depth of Well	21.00				
Depth to Water (from top of casing)	11.69				
Water Elevation (feet above msl)	33.29				
Well Volumes Purged	3				
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)	5.0				
Appearance of Purge Water	clear				
Free Product Present?	? No Thickness (ff):				

Number of Sam	nles/Container S	Size	te dan Kanada da	240ml 1/04	1 11		
		_					· .
Time	(gal)	(deg C)	рН	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments
1:05	1	23.1	6.82	1450			·
1:06	3	21.9	6.61	1355			
1:07	5	21.7	6.70	1382			

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

no odor			
	 	 	·····
L		 	

Monitoring Well Number: MW-3

Project Name:	Fidelity Roof Company	Date of Sampling: 11/14/2002
Job Number:	3119	Name of Sampler: N. Garfield
Project Address:	1075 40th Street, Oakland	

MONITORIN	NG WELL DATA				
Well Casing Diameter (2"/4"/6")	2				
Wellhead Condition	Ток				
Elevation of Top of Casing (feet above msl)	44.37				
Depth of Well	21.00				
Depth to Water (from top of casing)	11.28				
Water Elevation (feet above msl)	33.09				
Well Volumes Purged	3				
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.7				
Actual Volume Purged (gallons)	4.5				
Appearance of Purge Water	clear				
Free Product Present?	? No Thickness (ft):				

Time Vol Removed (gal) Temperature (deg C) pH Conductivity (μ sec/cm) DO (mg/L) ORP (meV) Comment Comment 1:22 1 18.1 7.00 </th <th>nber of San</th> <th>nples/Container S</th> <th>Size</th> <th></th> <th colspan="8">2 40mL VOA, 1 1L</th>	nber of San	nples/Container S	Size		2 40mL VOA, 1 1L							
1:22 1 18.1 7.00 1:23 2.5 20.0 6.81 1:24 4.5 19.9 6.72	Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (µ sec/cm)	DO (mg/L)	ORP (meV)	Comments				
1:23 2.5 20.0 6.81	1:22	1	18.1	7.00				· · · · · · · · · · · · · · · · · · ·				
1:24 4.5 19.9 6.72	1:23	2.5	20.0	6.81								
	1:24	4.5	19.9	6.72								

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

		Monitoring Well Number: N	<u>IW-4</u>
Project Name:	Fidelity Roof Company	Date of Sampling: 11/14/2	002
Job Number:	3119	Name of Sampler: N. Garl	ield
Project Address:	1075 40th Street, Oakland		

MONITORIN	IG WELL D	DATA				
Well Casing Diameter (2"/4"/6")		2				
Wellhead Condition	ок					
Elevation of Top of Casing (feet above msl)		43.48	I,			
Depth of Well		20.00				
Depth to Water (from top of casing)		7.52				
Water Elevation (feet above msl)		35.96				
Well Volumes Purged	3					
Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	16 6.0					
Actual Volume Purged (gallons)		6.0				
Appearance of Purge Water	clear					
Free Product Present?	No No	Thickness (ft):				

		GF	ROUNDWA	TER SAMPLI	ES .	and the set				
Number of San	nples/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			
1:15	1	21.3	7.04	1150	··· · ··· · · ·		· · ·			
1:16	2.5	21.3	6.93	990						
1:17	4	22.0	6.71	1040						
1:18	6	22.1	6.70	1072						

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

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

All Environmental, Inc.	Client Project ID: #3119; Fidelity	Date Sampled: 11/14/02
3210 Old Tunnel Rd., Ste. B		Date Received: 11/14/02
Lafavette CA 94549-4157	Client Contact: Nathan Garfield	Date Reported: 11/20/02
Datajone, 011 9 19 19 1137	Client P.O.:	Date Completed: 11/20/02

WorkOrder: 0211263

November 20, 2002

Dear Nathan:

Enclosed are:

1). the results of 4 analyzed samples from your #3119; Fidelity 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.

Yours truly,

Angela Rydelius, Lab Manager

Ø	McCampl	bell Ana	lytical Inc.		110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone : 925-798-1620 Fax : 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com								
All Env	ironmental,	Inc.	Client	Project ID: #	3119; Fidelity	Y	Date Sampled:	11/14/02					
321 0 O	ld Tunnel Ro	l., Ste. B					Date Received:	11/14/02					
Lafayett	te, CA 94 54 9	-4157	Client	Contact: Nath	an Garfield		Date Extracted:	11/15/02-1	1/19/0)2			
			Client]	P.O.:			Date Analyzed:	11/15/02-1	1/19/0)2			
Extraction :	Gase nethod: SW5030	oline Ran B	ge (C6-C12)	Volatile Hyd	rocarbons as	Gasoline v	with BTEX and	MTBE*					
Lab ID	Client ID	Matrix	TPH(g)	Analytical n MTBE	nethods: SW8021 Benzene	B/8015Cm Toluene	Ethylhengene	Work C	order: 0	21126			
001A	MW-1	w	66,000,а	ND<1200	8300	860	Caryloenzene	Xylenes	DF	%			
002A	MW-2	w	ND<120,j	3800	ND<1	ND<1	3000	11,000	250				
003A	MW-3	w	ND	ND	ND			ND<1	2	11			
004A	MW-4	w	ND	11	ND	ND			1	10			
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porting Lim means not bove the rea	uit for DF =1; detected at or		50	5.0	0.5	0.5	0.5	0.5	1 1				
	boronts mutu	8	NA	NA	NA	NA	NA	NA	1 m				

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 (addard solvent / mineral spirit?); f) one to a few isolated non-target sample that contains greater than ~2 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.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McC	Campbell Analytic	cal Inc.		110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone : 925-798-1620 Fax : 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com							
All Environm	ental, Inc.	Client Pro	oject ID: #3119	; Fidelity	Date Sampled:	11/14/02					
3210 Old Tur	nnel Rd., Ste. B				Date Received:	11/14/02					
Lafavette, CA	94549-4157	Client Co	ntact: Nathan G	arfield	Date Extracted:	11/14/02					
	* 7	Client P.0	D.:		Date Analyzed:	11/15/02					
Extraction method:	Diese SW3510C	el Range (C	C10-C23) Extrac Analytical me	etable Hydrocarbon sthods: SW8015C	ns as Diesel*	Wo	rk Order:	0211263			
Lab ID	Client ID	Matrix		TPH(d)	<u> </u>		DF	% SS			
0211263-001B	MW-1	w		23,000,d			100	120			
0211263-002B	MW-2	w		ND			1	98.4			
0211263-003B	MW-3	w		ND			1	98.0			
0211263-004B	MW-4	w		ND			1	97.2			
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Reporting	g Limit for DF =1;	w		50			<u>.</u> μι	 g/L			
above th	s not detected at or he reporting limit	S		NA			N	IA			

* water and vapor samples are reported in µg/L, wipe samples in ug/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all TCLP / STLC / SPLP extracts 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 -2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent / mineral spirit.

DHS Certification No. 1644

Ledward Hamilton, Lab Director

QC SUMMARY REPORT FOR SW8021B/8015Cm

				Matrix:	W		WorkOrder: 0211263					
EPA Method:	SW8021B/8015Cm	Extraction:	SW5030B	BatchID: 4884				piked Samp	ie ID: N/A			
Compound	Sampl	e Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	: Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High		
TPH(gas)	N/A	60	N/A	N/A	N/A	110 .	110	0.445	80	120		
MTBE	N/A	10	N/A	N/A	N/A	94.6	92.9	1.88	80	120		
Benzene	N/A	10	N/A	N/A	N/A	96.7	95.2	1.58	80	120		
Toluene	N/A	10	N/A	N/A	N/A	92.1	93.7	1.65	80	120		
Ethylbenzene	N/A	10	N/A	N/A	N/A	97.6	97.2	0.381	80	120		
Xylenes	N/A	30	N/A	N/A	N/A	93.3	93.3	0	80	120		
%SS:	N/A	100	N/A	N/A	N/A	96.1	97.3	1.32	80	120		

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

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.

% 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.

QC SUMMARY REPORT FOR SW8021B/8015Cm

EPA Method: SW802	21B/8015Cm E	xtraction:	SW5030B	,	BatchID:	S	Spiked Sample ID: 0211272-009A				
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
Compound	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High	
TPH(gas)	ND	60	111	109	2.11	107	109	1.90	80	120	
MTBE	69.62	10	NR	NR	NR	108	105	3.26	80	120	
Benzene	ND	10	109	107	2.20	110	101	8.12	80	120	
Toluene	ND	10	105	102	2.77	105	96.2	8.92	80	120	
Ethylbenzene	ND	10	106	104	1.97	110	104	5.37	80	120	
Xylenes	1.03	30	103	99.9	3.17	103	100	3.28	80	120	
%SS:	103	100	103	106	2.99	104	100	4.06	80	120	

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

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.

% 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.

QC SUMMARY REPORT FOR SW8015C

84-4-5-- 3AT

		Matrix: W							WorkOrder: 0211263		
EPA Method: SW8015C	E	xtraction:	SW35100	SW3510C		4880	S	piked Samp	le ID: N/A		
Compound	Sample Spike		MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD Acceptance Criteria (
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High	
TPH(đ)	N/A	7500	N/A	N/A	N/A	92.1	90.9	1.32	70	130	
%SS:	N/A	100	N/A	N/A	N/A	96.2	94.5	1.78	70	130	
All target compounds in the Me	ethod Blank o	f this extra	ction batch	were ND l	ess than the r	nethod RL	, with the f	ollowing exc	eptions:		
NONE											

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

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.

% 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.

McCampbell Analytical Inc.

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0211263

Client:

All Environmen 3210 Old Tunn Lafayette, CA	tal, Inc. el Rd., Ste. B 94549-4157	TEI FA) Pro PO	.: (925) 283-6 K: (925) 283-6 jectNo: #3119; Fide :	5000 5121 elity					14-Nov-0	2
Sample ID	ClientSampID	Matrix	Collection Date	Hold	SW8015C	8021B/8015	Requested Te	ests		

0211263-001	MW-1	Water	11/14/02 2:00:00 AM	В	A	-		
0211263-002	MW-2	Water	11/14/02 1:45:00 AM	8	A		 	
0211263-003	MW-3	Water	11/14/02 1:55:00 AM	В	A			
0211263-004	MW-4	Water	11/14/02 1:50:00 AM	В	A			

Comments:

Date/Time	Date/Time
Relinquished by:	Received by:
Relinquished by:	Received by:
Relinquished by:	Received by:

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.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tediar B-Brass P-Plastic OT-Other

Report To: Matheway Bill To: Analysis Request Other Comment Company: Af 2 (Bill To: Analysis Request Other Comment 2210 Did Tornel Site B Company: Analysis Request Other Comment 2210 Did Tornel Site B Company: Analysis Request Other Comment Project II: 2/19 Project III: Site B Company: Analysis Request Other Comment Sampler Signature: Sampler Signature: Sampler Signature: Site B Company: Site B Comment Site B Site B Comment Site B Site B <th colspan="11">McCAMPBELL ANALYTICAL INC. 110 2nd AVENUE SOUTH, #D7 PACHECO, CA 94553-5560 Telephone: (925) 798-1620 Fax: (925) 798-1622</th> <th></th> <th colspan="6">CHAIN OI TURN AROUND TIME</th> <th>DF E</th> <th colspan="5">F CUSTODY R</th> <th>RE</th> <th colspan="3"></th> <th>) 2 HR</th> <th>S D</th> <th>(Y</th>	McCAMPBELL ANALYTICAL INC. 110 2 nd AVENUE SOUTH, #D7 PACHECO, CA 94553-5560 Telephone: (925) 798-1620 Fax: (925) 798-1622												CHAIN OI TURN AROUND TIME						DF E	F CUSTODY R					RE) 2 HR	S D	(Y				
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