



June 4, 2002

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

JUN 07 2002

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

Dear Mr. Hwang:

Enclosed is a copy of the quarterly groundwater monitoring report for the second quarter 2002 at the above mentioned property.

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

Sincerely,

Nathan Garfield
Project Manager

JUN 07 2002

June 4, 2002

**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

AEI



June 4, 2002

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

RE: Quarterly Groundwater Monitoring and Sampling Report
Second Quarter 2002
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 fifteenth 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. Excavated soil was stockpiled north of the excavation. Three discrete soil samples were collected from beneath the USTs. Analysis of the 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). A single soil sample collected from beneath the 500 gallon UST indicated that 100 mg/kg of TPH-g and 96 mg/kg of TPH-d were present.

On September 12, 1996, AEI advanced four soil borings in the vicinity of the former UST excavation (Ref. 1). Soil samples were collected from all of the borings and groundwater samples were collected from two of the borings. 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

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extend beneath the existing pump island. Groundwater analysis indicated maximum concentrations of 5,500 µg/L of TPH-g, 340 µg/L of benzene, and 2,100 µg/L of TPH-d. 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.

During the drilling investigation, AEI collected four soil samples from the stockpile. The samples were combined into one composite sample for analysis in the laboratory. Analysis of the samples indicated concentrations of 3.8 mg/kg of TPH-g, 28 mg/kg of TPH-d, and minor concentrations of BTEX. 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 west (Ref. 2). Soil was removed to a depth of 9 feet below ground surface (bgs). The contaminated soil was stockpiled on-site and profiled for disposal into a Class III Landfill. The dispenser island and associated piping were also removed. Groundwater was not encountered during the excavation activities. Four confirmation soil samples were collected from the excavation sidewalls. 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.

The excavated soil was profiled and accepted for disposal at the BFI Vasco Road Sanitary Landfill, in Livermore, California. In November 1996, approximately 235 tons of contaminated soil was loaded and transported to the landfill for disposal, under non-hazardous waste manifest.

On March 6, 1997, AEI installed three groundwater monitoring wells (Ref. 3). The wells were subsequently sampled in March 1997, June 1997, October 1997 and January 1998. The analytical data from January 1998 indicated that 29,000 µg/L of TPH-g, 5,600 µg/L of benzene and 7,300 µg/L of TPH-d were present in the groundwater.

At the request of the ACHCSA, six additional soil borings were drilled south and west of the well locations on November 4, 1998 (Ref. 4). 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 µg/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, 1999, and two soil samples at 10 and 14 feet bgs were analyzed from the boring (Ref. 5). No detectable concentrations of petroleum hydrocarbons were found in the soil samples.

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

Summary of Activities

AEI measured the depth to groundwater in the four wells on May 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 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 head space 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 hydrocarbon odor was noted during the sampling of monitoring well MW-2, and a stronger odor was observed during the sampling of monitoring well MW-3. Groundwater levels for the current monitoring episode ranged from 34.50 to 36.29 feet above mean sea level (MSL). These groundwater elevations were an average of 0.94 feet lower than the previous monitoring episode. The most recent calculated groundwater gradient was 0.036 foot per foot (ft/ft), and the direction of flow was towards the north. This represents an approximately 90-degree shift to the north in the direction of flow, and a slight decrease 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 still remain in the groundwater. Slight fluctuations in concentrations of TPH-g, TPH-d, MTBE and BTEX were observed in the four wells. Well MW-4, which was non-detect for TPH-g during the previous sampling episode, contained elevated concentrations of TPH-g of 26 ug/L, and concentrations of TPH-d elevated from 91 to 140 ug/L. Concentrations of TPH-g, TPH-d and BTEX remained highest in well MW-3 while concentrations of MTBE remained highest in well MW-2.

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. Groundwater elevations were lower (- 0.94 feet) than the previous sampling episode and groundwater flow direction was to the north. Groundwater flow direction has varied between northwest and westerly flow directions.

A corrective action plan (CAP) 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 given authorization. Quarterly groundwater monitoring and sampling of the wells will continue at the site and the next monitoring and sampling episode is scheduled for August 2002.

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, March 21, 2000, prepared by AEI.
7. Quarterly Groundwater Monitoring and Sampling Report, July 28, 2000, prepared by AEI.
8. Quarterly Groundwater Monitoring and Sampling Report, November 6, 2000, prepared by AEI.
9. Quarterly Groundwater Monitoring and Sampling Report, January 29, 2001, prepared by AEI.
10. Quarterly Groundwater Monitoring and Sampling Report, May 8, 2001, prepared by AEI.
11. Quarterly Groundwater Monitoring and Sampling Report, August 14, 2001, prepared by AEI.
12. Quarterly Groundwater Monitoring and Sampling Report, December 11, 2001, prepared by AEI.
13. Quarterly Groundwater Monitoring and Sampling Report, May 31, 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

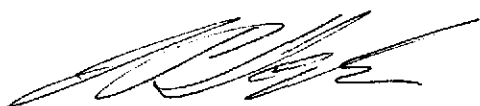
not sampled. All conclusions and recommendations are based on these analyses, observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

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 Well Location Map
- Figure 3 Groundwater Gradient Map

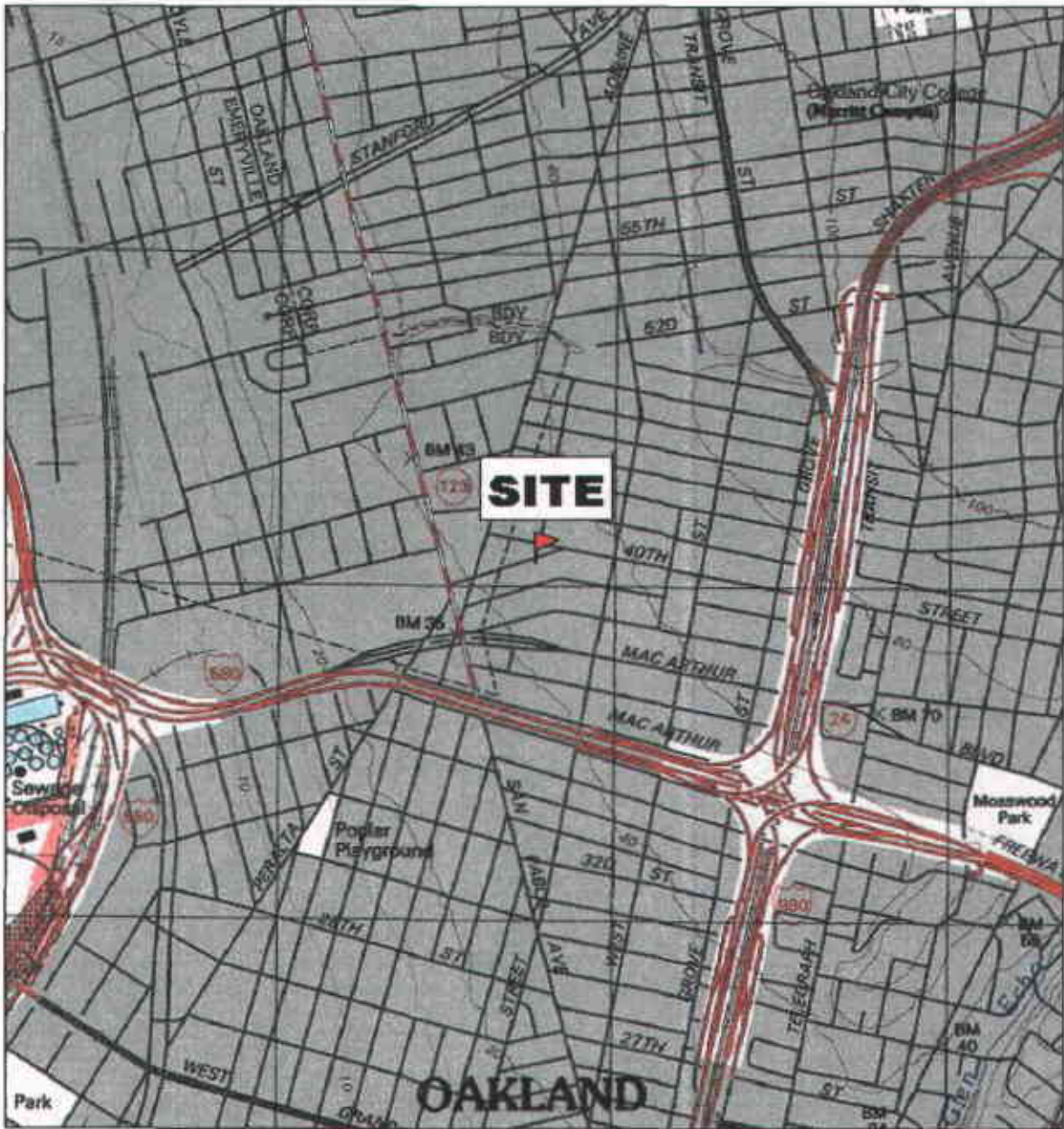
Tables

- Table 1 Groundwater 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

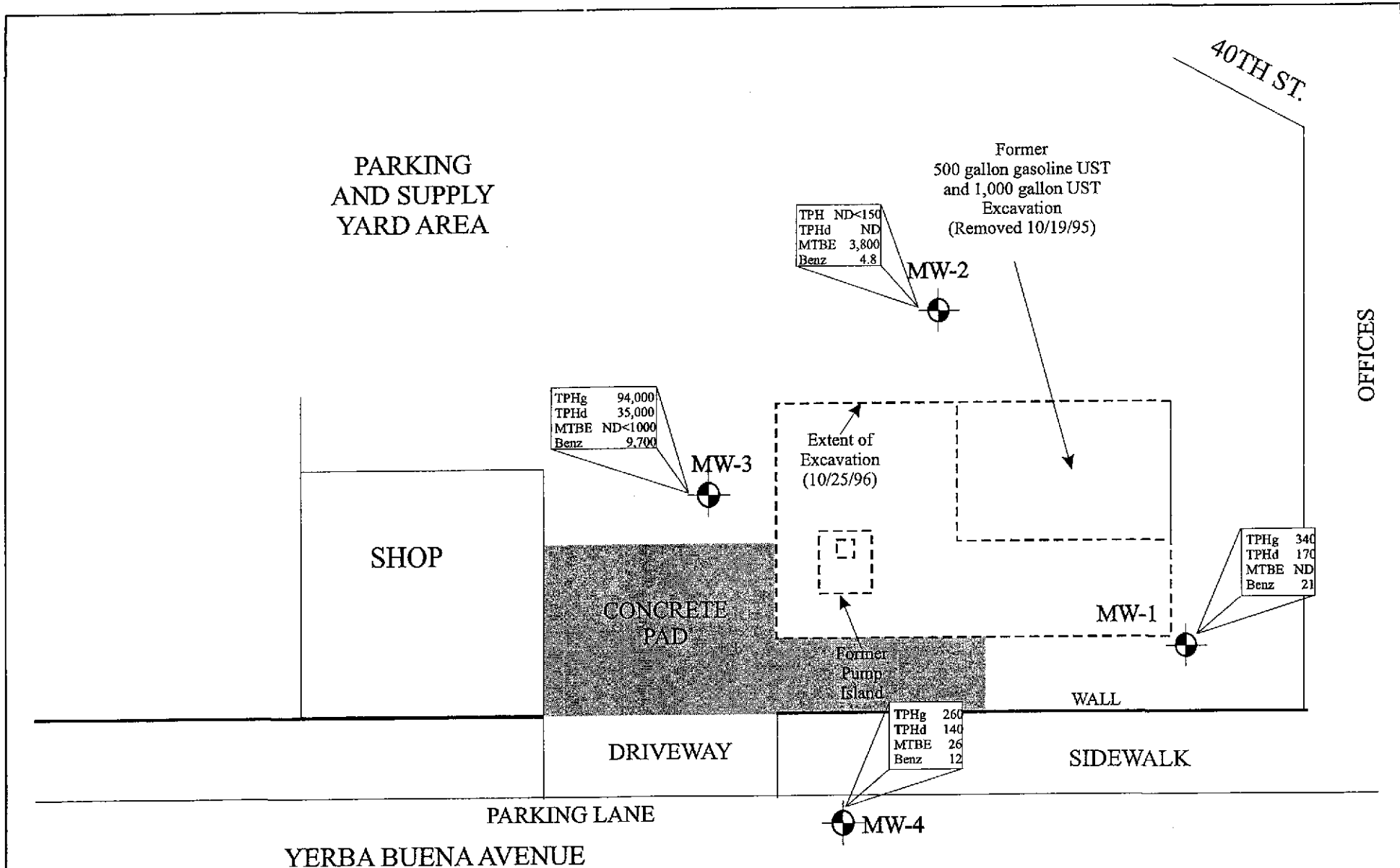


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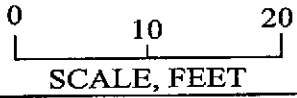


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AEI CONSULTANTS 3210 OLD TUNNEL RD. STE B. LAFAYETTE, CA	
SITE LOCATION MAP	
SITE ADDRESS CITY, CALIFORNIA	FIGURE 1 PROJECT No. #####



**MONITORING WELL
LOCATIONS AND
IDENTIFICATION**



AEI CONSULTANTS	
3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA	
WELL LOCATION MAP	
1075 40TH STREET OAKLAND, CALIFORNIA	FIGURE 2 Project: 3119

GROUNDWATER
FLOW DIRECTION WITH A
GRADIENT OF 0.036 FT/FT
MAY 14, 2002

40TH ST.

PARKING
AND SUPPLY
YARD AREA

MW-2
(34.50)

34.6

34.8

35.0

35.2

35.4

MW-3
(35.37)

35.6

35.8

SHOP

CONCRETE
PAD

MW-1
(35.99)

36.0

WALL

DRIVEWAY

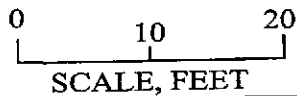
SIDEWALK

36.2

PARKING LANE

MW-4
(36.29)

YERBA BUENA AVENUE



MONITORING WELL

GROUNDWATER CONTOUR
IN FEET ABOVE MSL

34.0

AEI CONSULTANTS
3210 OLD TUNNEL ROAD, SUITE B, LAFAYETTE, CA

GROUNDWATER GRADIENT MAP

1075 40TH STREET
OAKLAND, CALIFORNIA

FIGURE 3
Project 3119

OFFICES

Table 1
Groundwater Elevation Data

Well ID	Date	Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)
MW-1	03/19/97	45.41	8.25	37.16
	06/20/97	45.41	9.1	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	
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	11.1	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	
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	
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	6.4	37.08
	04/18/01	43.48	7.3	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

Notes:

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

Table 2
Groundwater Sample Analytical Data

Well ID	Date	Consultant/ Lab	TPHg (ug/L)	MTBE (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- benzene (ug/L)	Xylenes (ug/L)	TPHd (ug/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	14	0.82	3.5	1.6	160
	05/24/00	AEI/MAI	1,300	ND<10	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	<5.0	1.6	<0.5	<0.5	<0.5	66
	11/06/01	AEI/MAI	<50	<5.0	<0.5	<0.5	<0.5	<0.5	<50
	02/13/02	AEI/MAI	430	<5.0	17	0.51	11	0.64	270
	05/14/02	AEI/MAI	340	<5.0	21	<0.5	5.3	0.67	170
MW - 2	03/19/97	AEI/MAI	<50	65	<0.5	<0.5	<0.5	<0.5	<50
	06/23/97	AEI/MAI	<50	70	3.4	<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	8.7	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
	05/14/02	AEI/MAI	ND<150	3,800	4.8	ND<1.0	ND<1.0	ND<1.0	<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
	08/05/99	AEI/MAI	31,000	ND<200	5,400	150	1100	2,300	5,100
	11/18/99	AEI/MAI	74,000	ND<1,000	8,100	5,000	2,100	8,100	490,000
	02/24/00	AEI/MAI	110,000	ND<200	12,000	1,400	2,900	14,000	6,300
	05/24/00	AEI/MAI	87,000	ND<200	13,000	1,900	2,900	14,000	26,000
	08/29/00	AEI/MAI	49,000	ND<200	7,400	800	1,800	7,400	9,400
	01/12/01	AEI/MAI	69,000	ND<300	8,600	980	2,600	11,000	21,000
	04/18/01	AEI/MAI	75,000	ND<500	9,200	1,200	2,500	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	AEI/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
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	AEI/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	<0.5	<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

Notes:
 ug/L= micrograms per liter
 ND= Not detected
 MTBE= Methyl Tertiary Butyl Ether
 TPHg= Total Petroleum Hydrocarbons as gasoline
 TPHd= Total Petroleum Hydrocarbons as diesel
 AEI = AEI Consultants
 MAI = McCampbell Analytical Inc., Pacheco, California

AEI CONSULTANTS - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM					
Monitoring Well Number: MW-1					
Project Name: Fidelity Roof, Co			Date of Sampling: 5/14/02		
Job Number: 3119			Name of Sampler: OA		
Project Address: 1075 40 th Street, Oakland					
MONITORING WELL DATA					
Well Casing Diameter (2"/4"/6")			2		
Seal at Grade -- Type and Condition			Cement / Good		
Well Cap & Lock -- OK/Replace			OK		
Elevation of Top of Casing (feet amsl)			45.49		
Depth of Well (feet bgs)			21.00		
Depth to Water (feet bgs)			9.50		
Water Elevation (feet amsl)			35.99		
Three Well Volumes (gallons)*					
2" casing: (TD - DTW)(0.16)(3)			5.52		
4" casing: (TD - DTW)(0.65)(3)					
6" casing: (TD - DTW)(1.44)(3)					
Actual Volume Purged (gallons)			6.5		
Appearance of Purge Water			Clear/ Hydrocarbon odor		
GROUNDWATER SAMPLES					
Number of Samples/Container Size			(2) 40 ml VOAS, 1-liter amber bottle		
Time	Vol Remvd (gal)	Temp (deg C)	pH	Cond (µS)	Comments
10:30					
10:31	1	19.4	6.70	1015	
10:33	3	18.5	6.81	1019	
10:35	5.5	18.4	6.84	974	
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)					

TD - Total Depth of Well
DTW - Depth To Water

AEI CONSULTANTS - GROUNDWATER MONITORING WELL FIELD SAMPLING FORM					
Monitoring Well Number: MW-2					
Project Name: Fidelity Roof, Co			Date of Sampling: 5/14/02		
Job Number: 3119			Name of Sampler: OA		
Project Address: 1075 40 th Street, Oakland					
MONITORING WELL DATA					
Well Casing Diameter (2"/4"/6")			2"		
Seal at Grade -- Type and Condition			Cement / Good		
Well Cap & Lock -- OK/Replace			OK		
Elevation of Top of Casing (feet amsl)			44.98		
Depth of Well (feet bgs)			21.00		
Depth to Water (feet bgs)			10.48		
Water Elevation (feet amsl)			34.50		
Three Well Volumes (gallons)*					
2" casing: (TD - DTW)(0.16)(3)			5.04		
4" casing: (TD - DTW)(0.65)(3)					
6" casing: (TD - DTW)(1.44)(3)					
Actual Volume Purged (gallons)			5.0		
Appearance of Purge Water			Clear, No Odor		
GROUNDWATER SAMPLES					
Number of Samples/Container Size			(2) 40 ml VOAS, 1-liter amber bottle		
Time	Vol Remvd (gal)	Temp (deg C)	pH	Cond (µS)	Comments
10:40					
10:41	1	19.7	6.83	1,481	
10:43	3	19.4	6.85	1,483	
10:45	5	19.6	6.87	1,502	
COMMENTS (i.e., sample odor, well recharge time & percent, etc.)					

TD - Total Depth of Well
DTW - Depth To Water

**AEI CONSULTANTS - GROUNDWATER MONITORING WELL FIELD
SAMPLING FORM**

Monitoring Well Number: MW-3

Project Name: Fidelity Roof, Co	Date of Sampling: 5/14/02
Job Number: 3119	Name of Sampler: OA
Project Address: 1075 40 th Street, Oakland	

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement / Good
Well Cap & Lock -- OK/Replace	OK
Elevation of Top of Casing (feet amsl)	44.37
Depth of Well (feet bgs)	21.0
Depth to Water (feet bgs)	9.0
Water Elevation (feet amsl)	35.37
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	5.76
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	6.0
Appearance of Purge Water	Clear; Strong Hydrocarbon Odor

GROUNDWATER SAMPLES

Number of Samples/Container Size	(2) 40 ml VOAS, 1-liter amber bottle
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Time	Vol Remvd (gal)	Temp (deg C)	pH	Cond (µS)	Comments
10:49					
10:52	2	20.6	6.65	1,155	
10:54	4	19.7	6.66	1,515	Well went dry, restarted after 30s.
10:56	6	19.7	6.65	1,558	

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

TD - Total Depth of Well
DTW - Depth To Water

**AEI CONSULTANTS- GROUNDWATER MONITORING WELL FIELD
SAMPLING FORM**

Monitoring Well Number: MW-4

Project Name: Fidelity Roof, Co	Date of Sampling: 5/14/02
Job Number: 3119	Name of Sampler: OA
Project Address: 1075 40 th Street, Oakland	

MONITORING WELL DATA

Well Casing Diameter (2"/4"/6")	2"
Seal at Grade -- Type and Condition	Cement / Good
Well Cap & Lock -- OK/Replace	OK
Elevation of Top of Casing (feet amsl)	43.48
Depth of Well (feet bgs)	20.00
Depth to Water (feet bgs)	7.19
Water Elevation (feet amsl)	36.29
Three Well Volumes (gallons)*	
2" casing: (TD - DTW)(0.16)(3)	6.14
4" casing: (TD - DTW)(0.65)(3)	
6" casing: (TD - DTW)(1.44)(3)	
Actual Volume Purged (gallons)	6.0
Appearance of Purge Water	Clear/ no hydrocarbon odor

GROUNDWATER SAMPLES

Number of Samples/Container Size	(2) 40 ml VOAS, 1-liter amber bottle
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Time	Vol Remvd (gal)	Temp (deg C)	pH	Cond (µS)	Comments
11:00					
11:02	2	21.0	7.02	891	
11:04	4	20.1	6.94	1,080	
11:06	6	20.0	6.91	1,112	

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

TD - Total Depth of Well
DTW - Depth To Water

McC Campbell Analytical Inc.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0205189

Client:

All Environmental, Inc.
 3210 Old Tunnel Rd., Ste. B
 Lafayette, CA 94549-4157

TEL: (925) 283-6000
 FAX: (925) 283-6121
 ProjectNo: #3119; Fidelity
 PO:

14-May-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests	
					SW8015C	8021B/8015
0205189-001	MW-1	Water	5/14/02	B	A	
0205189-002	MW-2	Water	5/14/02	B	A	
0205189-003	MW-3	Water	5/14/02	B	A	
0205189-004	MW-4	Water	5/14/02	B	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-Tedlar B-Brass P-Plastic OT-Other

0205189

McCAMPBELL ANALYTICAL INC.

110 2ND AVENUE SOUTH, #D7
FACHBCO, CA 94553

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HOUR 48 HOUR 5 DAY

Report To: Orion Alcalay Bill To:
Company: All Environmental
3210 Old Tunnel Road, Suite B
Lafayette, CA 94549-4157
Tele: (925) 283-6000 Fax: (925) 283-6121
Project #: 3119 Project Name: Fidelity
Project Location: 1075 40th Ave, Oakland, CA
Sampler Signature: *[Signature]*

Analysis Request

Other

Comments

BTEX & TPH as Gas (802/8020 + 8015) MTBE		
TPH as Diesel (8015)		
Total Petroleum Oil & Grease (5520 E&F/B&F)		
Total Petroleum Hydrocarbons (418.1)		
EPA 601 / 8010		
BTEX ONLY (EPA 602 / 8020)		
EPA 608 / 8080		
EPA 608 / 8080 PCB's ONLY		
EPA 624 / 8240 / 8260		
EPA 625 / 8270		
PAH's / PNA's by EPA 625 / 8270 / 8310		
CAM-17 Metals		
LUFT 5 Metals		
Lead (7240/7421/2392/6010)		
RCI		

SAMPLE ID	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED						
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other			
+ MW-1		5-14-02		N		X						X	X				
+ MW-2		↓		↓		↓						↓	↓				
+ MW-3		↓		↓		↓						↓	↓				
+ MW-4		↓		↓		↓						↓	↓				

Relinquished By: *[Signature]* Date: 5-14-02 Time: 1:00
Received By: *[Signature]* Time: 1:00

Remarks:
ICE?
GOOD CONDITION
HEAD SPACE ABSENT
PRESERVATION APPROPRIATE
CONTAINERS
VOAS | O&G | METALS | OTHER

