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July 05, 2006

QUARTERLY GROUNDWATER MONITORING REPORT  
APRIL 2006 GROUNDWATER SAMPLING  
ASE JOB NO. 3412

at  
Yee Property  
726 Harrison Street  
Oakland, CA 94602

Prepared by:  
AQUA SCIENCE ENGINEERS, INC.  
208 W. El Pintado, Suite C  
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## **1.0 INTRODUCTION**

### Site Location (Site), See Figure 1

Yee Property  
(Previously Former Chan's Shell Station)  
726 Harrison Street  
Oakland, CA 94602  
(510) 444-6583

### Responsible Party

Peter Yee  
1000 San Antonio Avenue  
Alameda, CA 94501

### Environmental Consulting Firm

Aqua Science Engineers, Inc. (ASE)  
208 W. El Pintado  
Danville, CA 94526  
Contact: Robert Kitay, Senior Geologist  
(925) 820-9391

### Agency Review

Alameda County Health  
Care Services Agency (ACHCSA)  
1131 Harbor Bay Pkwy  
Suite 250  
Alameda, CA 94502  
Contact: Mr. Barney Chan  
(510) 567-6700

Quality Control Board (RWQCB)  
San Francisco Bay Region  
1515 Clay Street, Suite 1400  
Oakland, CA 94612  
Contact: Ms. Betty Graham  
(510) 622-2433

The following is a report detailing the results of the April 2006 quarterly groundwater sampling at the Yee Property, previously referred to as the former Chan's Shell Station. This sampling was conducted as required by the ACHCSA and RWQCB. ASE has prepared this report on behalf of Peter Yee, the current responsible party, who purchased the property from Kin Chan. This report is intended to supplement the ASE report: "Report of Soil and Groundwater Assessment" dated January 8, 1999.

## **2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT**

On April 12, 2006, ASE measured the depth to groundwater in four site monitoring wells using an electric water level sounder. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen. No free-floating hydrocarbons were observed in any site well. A sheen was noted on the surface of groundwater collected from monitoring well MW-1. ASE coordinated this groundwater sampling with Cambria Environmental Technology, Inc., (Cambria), who is investigating the adjacent property, located at 706 Harrison Street, referred to in this report as the former ARCO station, and groundwater elevation levels were measured on the same day. Groundwater elevation data for both sites are presented in Tables One and Two. A groundwater potentiometric surface map illustrating groundwater elevation contours is presented as Figure 2. The groundwater flow direction below the site is generally to the south to southwest at a gradient of 0.01 feet/foot.

## **3.0 GROUNDWATER SAMPLE COLLECTION AND ANALYSIS**

On April 12, 2006, ASE collected groundwater samples from monitoring wells MW-1, MW-3, MW-4 and MW-5. With ACHCSA approval, quarterly groundwater sampling of MW-2 and extraction well EW-1 has been suspended. Prior to sampling, each well was purged of three well casing volumes of groundwater using disposable polyethylene bailers. Petroleum hydrocarbon odors were noted during the purging and sampling of all sampled monitoring wells. The parameters pH, temperature, and conductivity were monitored during the well purging, and samples were not collected until these parameters stabilized. Groundwater samples were collected from each well using disposable polyethylene bailers and were decanted from the bottom of the bailers using low-flow emptying devices into 40-ml volatile organic analysis (VOA) vials, pre-preserved with hydrochloric acid. The samples were capped without headspace, labeled, and placed in coolers with wet ice for transport to Kiff Analytical, LLC, (KIFF) of Davis, California under appropriate chain of custody documentation. Well sampling field logs are presented in Appendix A.

The well purge water was placed into a 55-gallon steel drum, labeled, and staged on-site for temporary storage until proper off-site disposal could be arranged.

All groundwater samples were analyzed by KIFF for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethyl benzene, total xylenes (collectively known as BTEX), and methyl tertiary butyl ether (MTBE) by EPA Method 8260B. The analytical results are tabulated in Tables Two and Three, and copies of the certified analytical report and chain of custody form are included in Appendix B.

## **4.0 CONCLUSIONS**

- Concentrations of TPH-G decreased, while concentrations of all other hydrocarbons increased in groundwater samples collected from monitoring well MW-1.
- Concentrations of TPH-G decreased significantly, while concentrations of MTBE increased slightly in groundwater samples collected from monitoring wells MW-3 and MW-4.
- Concentrations of TPH-G decreased, while concentrations of benzene, total xylenes, ethyl benzene and MTBE increased slightly in groundwater samples collected from monitoring well MW-5.
- Unless otherwise stated, detected compounds in groundwater samples remain relatively unchanged compared to previous analytical results.

The following groundwater sample concentrations remain in excess of Environmental Screening Levels (ESLs) as presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region dated February 2005

- Monitoring wells MW-1 and MW-5 contained concentrations of TPH-G, benzene, ethyl benzene, and total xylene in excess of the ESLs.
- Monitoring well MW-5 contained concentrations of toluene in excess of the ESL.
- Monitoring wells MW-1, MW-3, MW-4 and MW-5 contained concentrations of MTBE in excess of the ESLs.

## **5.0 RECOMMENDATIONS**

ASE recommends continued groundwater monitoring on a quarterly basis. The next groundwater sampling is scheduled for July 2006.

Additionally, ASE has received approval from the ACHCSA for a workplan to conduct in-situ chemical oxidation of hydrocarbons in the soil and groundwater below the site. The property has recently been purchased, and the remediation work has recently been requested to begin by the new owner.

## **6.0 REPORT LIMITATIONS**

The results presented in this report represent the conditions at the time of the groundwater sampling, at the specific locations where the groundwater samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from sources other than the former underground storage tanks and associated plumbing at the site, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CAL-DHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.

Aqua Science Engineers appreciates the opportunity to provide environmental consulting services for this project, and trust that this report meets your needs. Please feel free to call us at (925) 820-9391 if you have any questions or comments.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.



Mike Rauser  
Project Geologist



Robert E. Kitay, P.G., R.E.A.  
Senior Geologist



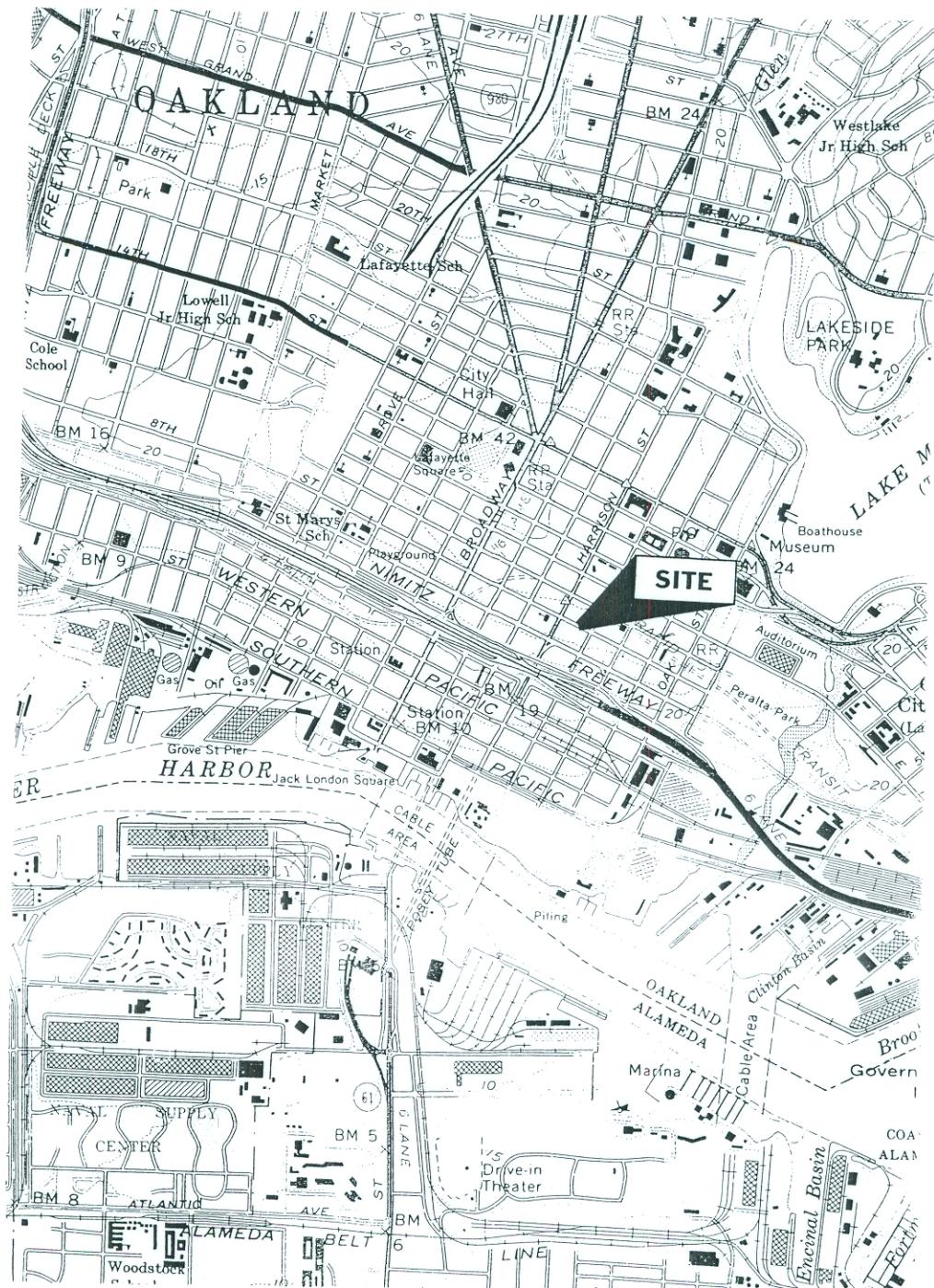
Attachments: Figures 1 and 2  
Appendices A and B

cc: Mr. Jerry Wickham, Alameda County Health Care Services  
Ms. Betty Graham, RWQCB, San Francisco Bay Region

## **FIGURES**



NORTH



### SITE LOCATION MAP

YEE PROPERTY  
726 HARRISON STREET  
OAKLAND, CALIFORNIA

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Figure 1

# 8TH STREET



NORTH

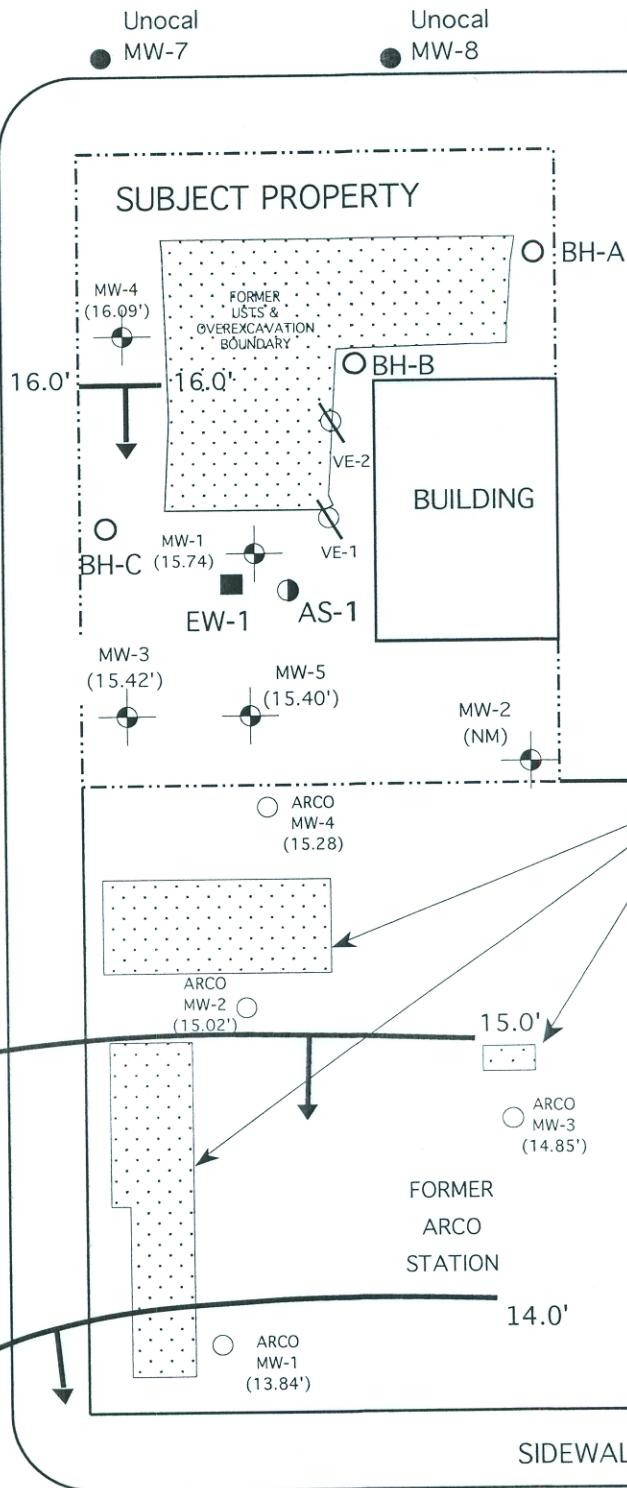
## SCALE

1" = 30'

### SUBJECT PROPERTY

Approx. Groundwater Flow Direction

HARRISON STREET



FORMER  
USTS/  
OVEREXCAVATIONS

### LEGEND

Approx. Groundwater Flow Direction

MW-1 ASE Monitoring Well

MW-1 Former ARCO Monitoring Well

(12.39') Groundwater elevation, relative to MSL

Groundwater elevation contour

\* Anomalous data - Not used for contouring

7TH STREET

ARCO  
MW-6  
(13.47')

ARCO  
MW-5  
(13.68')

GROUNDWATER ELEVATION  
CONTOUR MAP - 4/12/06

YEE PROPERTY  
726 HARRISON STREET  
OAKLAND, CALIFORNIA

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Figure 2

## **TABLES**

**TABLE ONE**  
**Groundwater Elevation Data**  
**Yee Property**  
**726 Harrison St., Oakland, CA**

Well ID	Date of Measurement	Top of Casing Elevation (Relative to Mean Sea Level)	Depth to Water (feet)	Groundwater Elevation (project data)
MW-1	12/15/98	31.95*	17.32	14.63
	3/4/99		15.52	16.43
	6/17/99		16.9	15.05
	8/27/99		17.39	14.56
	12/9/99		18.03	13.92
	3/7/00		15.11	16.84
	6/7/00		16.66	15.29
	10/11/00		18.08	13.87
	1/18/01		17.96	13.99
	4/5/01		16.35	15.60
	7/17/01		16.94	15.01
	10/5/01		17.35	11.63
	1/18/02		15.40	13.58
	4/11/02		15.76	13.22
	7/8/02		16.17	12.81
	10/9/02		16.72	12.26
	1/29/03		16.26	12.72
	4/11/03		16.56	12.42
	7/18/03		16.42	12.56
	10/9/03		16.88	12.10
	1/28/04		16.10	12.88
	4/7/04		15.43	13.55
	7/23/04		16.41	12.57
	10/12/04		17.73	11.25
	1/29/05		15.02	13.96
	4/28/05		14.99	13.99
	7/19/05		16.36	12.62
	10/18/05		17.82	11.16
	1/23/06		15.80	13.18
	4/12/06		<b>13.24</b>	<b>15.74</b>
MW-2	12/15/98	32.40*	18.03	14.37
	3/4/99		16.11	16.29
	6/17/99		17.72	14.68
	8/27/99		Inaccessible	
	12/9/99		Inaccessible	
	3/7/00		Inaccessible	
	6/7/00		17.67	14.73
	10/11/00		18.91	13.49
	1/18/01		18.66	13.74
	4/5/01		16.97	15.43
	7/17/01		17.54	14.86
	10/5/01		17.98	11.46
	1/18/02		15.87	13.57
	4/11/02		16.36	13.08
	7/8/02		16.72	12.72
	10/9/02		17.33	12.11
	1/29/03		16.82	12.62
	4/11/03		17.15	12.29
	7/18/03		17.05	12.39
	10/9/03		17.52	11.92
	1/28/04		16.70	12.74
	4/7/04		16.02	13.42
	7/23/04		Inaccessible	
	10/12/04		17.31	12.13
	1/29/05		15.46	13.98
	4/28/05		15.79	13.65
	7/19/05		17.25	12.19
	10/18/05		17.72	11.72
	1/23/05		15.65	13.79
	4/12/06		NM	

**TABLE ONE**  
**Groundwater Elevation Data**  
**Yee Property**  
**726 Harrison St., Oakland, CA**

Well ID	Date of Measurement	Top of Casing Elevation (Relative to Mean Sea Level)	Depth to Water (feet)	Groundwater Elevation (project data)
<b>MW-3</b>	12/15/98	31.61*	17.26	14.35
	3/4/99		15.47	16.14
	6/17/99		16.92	14.69
	8/27/99		17.40	14.21
	12/9/99		18.01	13.60
	3/7/00		16.15	15.46
	6/7/00		16.85	14.76
	10/11/00		18.07	13.54
	1/18/01		17.89	13.72
	4/5/01		16.21	15.40
	7/17/01		16.90	14.71
	10/5/01	28.64	17.32	11.32
	1/18/02		15.35	13.29
	4/11/02		15.82	12.82
	7/8/02		16.15	12.49
	10/9/02		16.67	11.97
	1/29/03		16.19	12.45
	4/11/03		16.49	12.15
	7/18/03		16.42	12.22
	10/9/03		16.80	11.84
	1/28/03		15.94	12.70
	4/7/04		15.28	13.36
	7/23/04		16.15	12.49
	10/12/04		16.63	12.01
	1/29/05		16.15	12.49
	4/28/05		14.94	13.70
	7/19/05		16.25	12.39
	10/18/05		16.76	11.88
	1/23/06		15.81	12.83
	4/12/06		13.22	15.42
<b>MW-4</b>	12/15/98	32.53*	17.59	14.94
	3/4/99		15.88	16.65
	6/17/99		17.14	15.39
	8/27/99		17.65	14.88
	12/9/99		18.28	14.25
	3/7/00		15.41	17.12
	6/7/00		17.09	15.44
	10/11/00		18.33	14.20
	1/18/01		18.23	14.30
	4/5/01		16.69	15.84
	7/17/01		17.32	15.21
	10/5/01	29.58	17.71	11.87
	1/18/02		15.85	13.73
	4/11/02		16.14	13.44
	7/8/02		16.56	13.02
	10/9/02		17.09	12.49
	1/29/03		16.65	12.93
	4/11/03		16.93	12.65
	7/18/03		16.78	12.80
	10/9/03		17.26	12.32
	1/28/04		16.38	13.20
	4/7/04		15.64	13.94
	7/23/04		16.58	13.00
	10/12/04	Inaccessible		
	1/29/05		14.90	14.68
	4/28/05		15.18	14.40
	7/19/05		16.48	13.10
	10/18/05		16.99	12.59
	1/23/06		15.09	14.49
	4/12/06		13.49	16.09

**TABLE ONE**  
**Groundwater Elevation Data**  
**Yee Property**  
**726 Harrison St., Oakland, CA**

Well ID	Date of Measurement	Top of Casing Elevation (Relative to Mean Sea Level)	Depth to Water (feet)	Groundwater Elevation (project data)
MW-5	8/29/01	29.06	17.42	11.64
	1/18/02		15.68	13.38
	4/11/02		16.17	12.89
	7/8/02		16.51	12.55
	10/9/02		17.10	11.96
	1/29/03		16.58	12.48
	4/11/03		16.87	12.19
	7/18/03		16.77	12.29
	10/9/03		17.21	11.85
	1/28/04		16.34	12.72
	4/7/04		15.38	13.68
	7/23/04		16.55	12.51
	10/12/04		17.02	12.04
	1/29/05		15.23	13.83
	4/28/05		15.41	13.65
	7/19/05		16.79	12.27
	10/18/05		17.28	11.78
	1/23/06		15.28	13.78
	<b>4/12/06</b>		<b>13.66</b>	<b>15.40</b>

\* Top of casing elevation relative to arbitrary project datum

**TABLE TWO**  
**Groundwater Elevation Data**  
**Former ARCO Station**  
**706 Harrison St., Oakland, CA**

Well ID	Date of Measurement	Top of Casing Elevation* (Relative to Mean Sea Level)	Depth to Water (feet)	Groundwater Elevation (project data)
<b>MW-1</b>	7/18/03	29.15	14.50	14.65
	10/9/03	26.17	13.81	12.36
	1/28/04		13.09	13.08
	4/7/04		14.97	11.20
	7/23/04		14.15	12.02
	10/12/04		16.30	9.87
	4/27/05		13.35	12.82
	7/19/05		14.68	11.49
	10/18/05		15.15	11.02
	1/23/06		13.27	12.90
	<b>4/12/06</b>		<b>12.33</b>	<b>13.84</b>
<b>MW-2</b>	7/18/03	30.51	16.84	13.67
	10/9/03	27.53	16.05	11.48
	1/28/04		15.39	12.14
	4/7/04		16.01	11.52
	7/23/04		15.30	12.23
	10/12/04		17.87	9.66
	4/27/05		14.63	12.90
	7/19/05		15.60	11.93
	10/18/05		16.08	11.45
	1/23/06		14.20	13.33
	<b>4/12/06</b>		<b>12.51</b>	<b>15.02</b>
<b>MW-3</b>	7/18/03	29.77	14.80	14.97
	10/9/03	26.79	14.13	12.66
	1/28/04		13.47	13.32
	4/7/04		15.41	11.38
	7/23/04		14.54	12.25
	10/12/04		16.58	10.21
	4/27/05		13.68	13.11
	7/19/05		15.15	11.64
	10/18/05		15.60	11.19
	1/23/06		13.65	13.14
	<b>4/12/06</b>		<b>11.94</b>	<b>14.85</b>
<b>MW-4</b>	7/18/03	31.18	17.08	14.10
	10/9/03	28.20	16.25	11.95
	1/28/04		15.65	12.55
	4/7/04		16.49	11.71
	7/23/04		15.86	12.34
	10/12/04		18.05	10.15
	4/27/05		14.20	14.00
	7/19/05		16.08	12.12
	10/18/05		16.55	11.65
	1/23/06		14.66	13.54
	<b>4/12/06</b>		<b>12.92</b>	<b>15.28</b>

**TABLE TWO**  
**Groundwater Elevation Data**  
**Former ARCO Station**  
**706 Harrison St., Oakland, CA**

Well ID	Date of Measurement	Top of Casing Elevation* (Relative to Mean Sea Level)	Depth to Water (feet)	Groundwater Elevation (project data)
<b>MW-5</b>	7/18/03	28.04	14.28	13.76
	10/9/03	25.07	13.36	11.71
	1/28/04		12.68	12.39
	4/7/04		14.71	10.36
	7/23/04		13.49	11.58
	10/12/04		15.88	9.19
	4/27/05		13.40	11.67
	7/19/05		14.21	10.86
	10/18/05		14.79	10.28
	1/23/06		13.12	11.95
	<b>4/12/06</b>		<b>11.39</b>	<b>13.68</b>
<b>MW-6</b>	7/18/03	29.10	15.47	13.63
	10/9/03	26.13	14.73	11.40
	1/28/04		14.05	12.08
	4/7/04		14.41	11.72
	7/23/04		15.15	10.98
	10/12/04		17.27	8.86
	4/27/05		14.10	12.03
	7/19/05		15.18	10.95
	10/18/05		15.65	10.48
	1/23/06		14.02	12.11
	<b>4/12/06</b>		<b>12.66</b>	<b>13.47</b>
<b>MW-7</b>	7/18/03	29.67	15.19	14.48
	10/9/03	26.70	14.45	12.25
	1/28/04		13.88	12.82
	4/7/04		15.71	10.99
	7/23/04		14.85	11.85
	10/12/04		16.90	9.80
	4/27/05		13.75	12.95
	7/19/05		14.91	11.79
	10/18/05		15.40	11.30
	1/23/06		13.99	12.71
	<b>4/12/06</b>		<b>12.32</b>	<b>14.38</b>

\* Survey data updated on 10/27/2003

**TABLE THREE**  
**Summary of Analytical Results for GROUNDWATER Samples**  
**Yee Property**  
**726 Harrison St., Oakland, CA**  
**All results are in parts per billion (ppb)**

Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
<b>MW-1</b>						
7/3/97	18,000	2,700	350	450	900	7,400
12/5/98	18,000	1,500	270	260	560	14,000
3/4/99	44,000	2,800	400	440	960	43,000
6/17/99	33,000	2,200	250	460	660	25,000
8/27/99	6,000	1,000	97	190	230	14,000/ 16,000*
12/9/99	15,000	1,500	160	220	420	17,000
3/7/00	9,300	1,500	210	66	530	12,000
6/7/00	26,000**	1,700	< 250	360	580	30,000
10/11/00	13,000**	1,600	< 100	140	160	19,000
1/18/01	14,000**	450	< 100	110	230	9,600
4/5/01	38,000	2,200	180	290	590	35,000
7/17/01	35,000**	1,800	< 100	300	170	35,000
10/5/01	17,000	1,500	210	420	790	27,000
1/18/02	18,000	1,500	120	160	220	22,000
4/11/02	41,000	2,700	210	340	380	30,000
7/8/02	36,000	2,800	140	360	300	31,000
10/9/02	30,000	1,700	310	< 100	< 100	19,000
1/29/03	26,000	2,400	< 100	310	520	20,000
4/11/03	22,000	1,700	< 100	270	580	16,000
7/18/03	40,000	3,200	290	480	830	39,000
10/9/03	54,000**	3,300	< 130	350	310	49,000
1/28/04	26,000***	3,000	310	420	800	31,000
4/7/04	33,000***	2,800	130	310	310	39,000
7/23/04	56,000***	4,500	< 250	390	< 500	53,000
10/12/04	25,000***	1,400	< 250	< 250	< 500	25,000
1/29/05	24,000	1,600	< 100	160	< 200	19,000
4/28/05	< 10,000	2,000	< 100	160	100	34,000
7/19/05	37,000	2,100	83	210	230	28,000
10/18/05	37,000	1,300	< 250	< 250	< 250	23,000
1/24/06	23,000	780	< 100	160	260	11,000
<b>4/12/06</b>	<b>11,000</b>	<b>1,500</b>	<b>87</b>	<b>360</b>	<b>670</b>	<b>17,000</b>

**TABLE THREE**  
**Summary of Analytical Results for GROUNDWATER Samples**  
**Yee Property**  
**726 Harrison St., Oakland, CA**  
**All results are in parts per billion (ppb)**

Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
<b>MW-2</b>						
12/5/98	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5
3/4/99		Inaccessible due to car parked over well				
6/17/99	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5
8/27/99		Inaccessible due to car parked over well				
12/9/99		Inaccessible due to car parked over well				
3/7/00		Inaccessible due to car parked over well				
6/7/00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
10/11/00	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
1/18/01	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
4/5/01	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
7/17/01		No longer sampled				

**TABLE THREE**  
**Summary of Analytical Results for GROUNDWATER Samples**  
**Yee Property**  
**726 Harrison St., Oakland, CA**  
**All results are in parts per billion (ppb)**

Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
<b>MW-3</b>						
12/5/98	6,500***	< 50	50	60	50	3,900
3/4/99	2,800	< 25	< 25	< 25	< 25	1,600
6/17/99	1,000	< 10	< 10	< 10	< 10	1,400
8/27/99	230	< 0.5	0.51	0.5	1	1,500/ 1,600*
12/9/99	870**	< 0.5	< 0.5	< 0.5	< 0.5	2,100
3/7/00	150**	4	< 0.5	< 0.5	< 0.5	830
6/7/00	140**	< 0.5	< 0.5	< 0.5	< 0.5	1,100
10/11/00	620**	< 5.0	< 5.0	< 5.0	< 5.0	1,500
1/18/01	1,200**	< 5.0	< 5.0	< 5.0	< 5.0	1,000
4/5/01	1,700**	< 5.0	< 5.0	< 5.0	< 5.0	1,900
7/17/01	1,400**	< 10	< 10	< 10	< 10	1,700
10/5/01	< 1,000	< 10	< 10	< 10	< 10	1,700
1/18/02	1,600	26	20	16	54	2,100
4/11/02	2,600	21	16	< 10	21	2,300
7/8/02	2,800	< 10	< 10	< 10	< 10	3,800
10/9/02	6,000	< 50	< 50	< 50	< 50	4,900
1/29/03	1,800	< 10	< 10	< 10	< 10	2,300
4/11/03	2,900	< 25	< 25	< 25	< 25	3,100
7/18/03	3,400	< 10	< 10	< 10	< 10	3,200
10/9/03	2,300	< 10	< 10	< 10	< 10	2,700
1/28/03	1,700**	< 10	< 10	< 10	< 10	2,900
4/7/04	2,700**	< 10	< 10	< 10	< 20	3,600
7/23/04	4,200**	< 25	< 25	< 25	< 50	4,900
10/12/04	5,000**	< 50	< 50	< 50	< 100	5,900
1/29/05	< 1,000	< 10	< 10	< 10	< 20	3,100
4/28/05	< 200	< 2.0	< 2.0	< 2.0	< 2.0	1,300
7/19/05	4,400	< 20	< 20	< 20	< 40	3,000
10/18/05	18,000	< 50	< 50	< 50	< 50	6,800
1/24/06	17,000	< 100	< 100	< 100	< 200	7,000
4/12/06	< 200	< 2.0	< 2.0	< 2.0	< 2.0	7,800

**TABLE THREE**  
**Summary of Analytical Results for GROUNDWATER Samples**  
**Yee Property**  
**726 Harrison St., Oakland, CA**  
**All results are in parts per billion (ppb)**

Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
<b>MW-4</b>						
12/5/98	880	3	< 0.5	< 0.5	< 0.5	950
3/4/99	3,800	< 25	< 25	< 25	< 25	3,700
6/17/99	2,700	< 25	< 25	< 25	< 25	2,700
8/27/99	440	4.7	1.1	0.58	1.3	1,600/ 1,700*
12/9/99	1,100**	< 2.5	< 2.5	< 2.5	< 2.5	1,700
3/7/00	< 250	< 2.5	< 2.5	< 2.5	< 2.5	1,700
6/7/00	530**	8.8	< 2.5	< 2.5	< 2.5	440
10/11/00	700**	3.9	< 2.5	< 2.5	< 2.5	680
1/18/01	2,000**	< 2.5	< 2.5	< 2.5	< 2.5	780
4/5/01	810**	< 2.5	< 2.5	< 2.5	< 2.5	620
7/17/01	880**	< 2.5	< 2.5	< 2.5	< 2.5	570
10/5/01	550**	< 2.5	< 2.5	< 2.5	< 2.5	710
1/18/02	960**	< 5.0	< 5.0	< 5.0	< 5.0	1,300
4/11/02	1,100**	< 5.0	< 5.0	< 5.0	< 5.0	550
7/8/02	1,200**	< 5.0	< 5.0	< 5.0	< 5.0	890
10/9/02	1,300**	< 5.0	< 5.0	< 5.0	< 5.0	880
1/29/03	530**	< 1.0	< 1.0	< 1.0	< 1.0	190
4/11/03	690**	< 2.5	< 2.5	< 2.5	< 2.5	310
7/18/03	1,600**	< 10	< 10	< 10	< 10	1,300
10/9/03	1500***	< 10	< 10	< 10	< 10	1,400
1/28/04	1,200**	< 10	< 10	< 10	< 10	1,900
4/7/04	1,900**	< 10	< 10	< 10	< 20	2,200
7/23/04	1,800**	< 10	< 10	< 10	< 20	1,600
10/12/04		Inaccessible due to car parked over well				
1/29/05	< 1,300	< 13	< 13	< 13	< 25	3,900
4/28/05	510	< 1.5	< 1.5	< 1.5	< 1.5	510
7/19/05	5,400	< 50	< 50	< 50	< 100	2,700
10/18/05	10,000	< 50	< 50	< 50	< 50	9,000
1/24/06	10,000	< 100	< 100	< 100	< 200	8,300
4/12/06	250	< 1.5	< 1.5	4.6	< 1.5	11,000

**TABLE THREE**  
**Summary of Analytical Results for GROUNDWATER Samples**  
**Yee Property**  
**726 Harrison St., Oakland, CA**  
**All results are in parts per billion (ppb)**

Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
<b>MW-5</b>						
8/29/01	14,000	1,300	470	230	800	14,000
1/18/02	24,000	3,200	1,300	390	1,500	5,700
4/11/02	23,000	2,700	980	38	950	4,300
7/8/02	19,000	3,300	25	360	1,100	2,100
10/9/02	24,000	2,800	990	360	820	2,400
1/29/03	17,000	2,100	1,400	380	1,400	< 250
4/11/03	26,000	2,900	2,200	590	2,200	630
7/18/03	26,000	3,500	1,700	480	1,300	1,300
10/9/03	27,000	3,800	1,900	510	1,700	1,200
1/28/04	29,000	4,800	2,900	770	2,300	3,300
4/7/04	23,000	4,400	2,700	720	2,200	1,700
7/23/04	29,000	5,200	2,200	810	1,400	2,200
10/12/04	26,000	4,300	2,000	670	1,300	2,200
1/29/05	29,000	4,600	2,500	750	1,400	2,200
4/28/05	32,000	3,300	2,300	530	2,100	4,100
7/19/05	39,000	4,300	2,300	690	1,500	5,400
10/18/05	110,000	3,400	1,900	540	1,600	13,000
1/24/06	21,000	1,800	1,200	270	820	13,000
4/12/06	18,000	2,600	1,200	440	940	21,000
ESL	400	46	130	290	13	1,800

Notes:

\* EPA Method 8020/EPA Method 8260 (MTBE confirmation)

\*\* Hydrocarbon reported in the gasoline range does not match the laboratory gasoline standard

\*\*\* Sample contains a discrete peak in addition to gasoline

ESL = Environmental screening levels presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (July 2003)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.

Most current data is in **Bold**

Non-detectable concentrations noted by the less than sign (<) followed by the laboratory method reporting limit.

**TABLE FOUR**  
**Summary of Analytical Results for GROUNDWATER Samples**  
**Former ARCO Station**  
**706 Harrison St., Oakland, CA**  
**All results are in parts per billion (ppb)**

Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
<b>MW-1</b>						
7/18/03	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
10/9/03	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
1/28/04	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
4/7/04	180	60	0.56	1.9	< 0.5	< 5.0
7/23/04	130	36	< 0.5	0.65	< 0.5	< 5.0
10/12/04	< 50	2.5	1.5	< 0.5	0.86	< 5.0
4/27/05	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
7/19/05	4,500	1400	6.5	160	58	630
10/18/05	1,700	3400	< 5.0	28	< 5.0	8,000/7,200
1/23/06	3,100	790	6.5	79	32	4,200/5,100
4/12/06	7,200	2,600	110	350	320	5,600/4,000
<b>MW-2</b>						
7/18/03	57,000	2,100	8,700	2,200	10,000	< 50*
10/9/03	49,000	1,800	7,000	1,700	7,600	< 1,500/26
1/28/04	550	21	33	3	61	< 100
4/7/04	41,000	2,500	11,000	1,900	8,000	< 2,000
7/23/04	81,000	2,000	12,000	2,500	12,000	< 2,000
10/12/04	75,000	2,600	13,000	2,300	11,000	< 1,300
4/27/05	61,000	2,800	11,000	1,600	7,000	< 2,700
7/19/05	90,000	3,700	14,000	2,600	10,000	< 7,000
10/18/05	77,000	3,300	14,000	2,400	11,000	7,900/6,400
1/23/06	54,000	1,600	8,000	1,600	7	6,600/7,000
4/12/06	43,000	1,800	7,800	1,300	5,200	6,400/4,900
<b>MW-3</b>						
7/18/03	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
1/28/04	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
7/23/04	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
2/14/05	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
7/19/05	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
1/23/06	< 50	< 0.5	< 0.5	< 0.5	< 0.5	270/260
4/12/06				not sampled		
<b>MW-4</b>						
7/18/03	< 50	< 0.5	< 0.5	< 0.5	< 0.5	0.74*
10/9/03	210	5	0.57	1.6	1.1	< 10/10
1/28/04	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
4/12/04	770	56	3.2	7.0	6.5	120/160
7/23/04	1100	130	11	17.0	17	790/800
10/12/04	150	0.86	< 0.5	< 0.5	0.97	< 10
4/27/05	3,000	520	100	27	86	600/480
7/19/05	1,800	310	16	36	25	1,000/1,100
10/18/05	2,500	450	28	47	51	3,800/4,500
1/23/06	1,300	170	13	14	14	2,500/3,300
4/12/06	940	150	12	7.6	12	3,400/3,300

**TABLE FOUR**  
**Summary of Analytical Results for GROUNDWATER Samples**  
**Former ARCO Station**  
**706 Harrison St., Oakland, CA**  
**All results are in parts per billion (ppb)**

Well ID & Dates Sampled	TPH-G	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE
<b>MW-5</b>						
7/18/03	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
1/28/04	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
7/23/04	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
2/14/05	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
7/19/05	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
1/23/05	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
<b>4/12/06</b>		<b>not sampled</b>				
<b>MW-6</b>						
7/18/03	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
1/28/04	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
7/23/04	3,300	1,300	< 5.0	52	9.7	< 50
4/27/05	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0/<0.5
7/19/05	110	15	< 0.5	0.62	< 0.5	< 5.0
10/18/05	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0/0.87
1/23/06	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0/0.50
<b>4/12/06</b>	<b>&lt; 50</b>	<b>&lt; 0.5</b>	<b>&lt; 0.5</b>	<b>&lt; 0.5</b>	<b>&lt; 0.5</b>	<b>&lt; 5.0/0.50</b>
<b>MW-7</b>						
7/18/03	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
1/28/04	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0
7/23/04	< 50	< 0.5	< 0.5	< 0.5	< 0.5	130/120
4/27/05	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0/1.3
7/19/05	< 50	< 0.5	< 0.5	< 0.5	< 0.5	65/66
10/18/05	< 50	< 0.5	< 0.5	< 0.5	< 0.5	12/15
1/23/06	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0/2.2
<b>4/12/06</b>	<b>&lt; 50</b>	<b>&lt; 0.5</b>	<b>&lt; 0.5</b>	<b>&lt; 0.5</b>	<b>&lt; 0.5</b>	<b>&lt; 5.0/2.0</b>
ESL	400	46	130	290	13	1,800

**Notes:**

\* Indicates EPA Method 8260

Concentrations separated by a "/" indicate results by both EPA Methods 8020/8260

ESL = Environmental screening levels presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (July 2003)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.

Most current data is in **Bold**

Non-detectable concentrations noted by the less than sign (<) followed by the laboratory method reporting limit.

## **APPENDIX A**

### Well Sampling Field Logs

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

PROJECT NAME	Yee		
JOB NUMBER	DATE OF SAMPLING 4/12/06		
WELL ID. MW-1	SAMPLER	dr	
TOTAL DEPTH OF WELL 27.2	WELL DIAMETER	2"	
DEPTH TO WATER PRIOR TO PURGING 13.24			
PRODUCT THICKNESS 1			
DEPTH OF WELL CASING IN WATER 13.94			
NUMBER OF GALLONS PER WELL CASING VOLUME 2.37			
NUMBER OF WELL CASING VOLUMES TO BE REMOVE 3			
REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 7.12			
EQUIPMENT USED TO PURGE WELL disposable bailer			
TIME EVACUATION STARTED 040	TIME EVACUATION COMPLETED 904		
TIME SAMPLES WERE COLLECTED 905			
DID WELL GO DRY 1	AFTER HOW MANY GALLONS 1		
VOLUME OF GROUNDWATER PURGED			
SAMPLING DEVICE disposable bailer			
SAMPLE COLOR grey-green	ODOR/SEDIMENT h.c. / little s.t.		

### CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	40.3	7.06	400
2	61.7	6.76	492
3	102.4	6.71	509

### SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-1	3	40ml VOA	G/BTEX/MTBE	Y

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

PROJECT NAME	Yee		
JOB NUMBER	DATE OF SAMPLING		4/12/06
WELL ID.	MW-3	SAMPLER	dr
TOTAL DEPTH OF WELL	29.2	WELL DIAMETER	2"
DEPTH TO WATER PRIOR TO PURGING	13.22		
PRODUCT THICKNESS	/		
DEPTH OF WELL CASING IN WATER	15.98		
NUMBER OF GALLONS PER WELL CASING VOLUME	2.72		
NUMBER OF WELL CASING VOLUMES TO BE REMOVE	3		
REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING	8.15		
EQUIPMENT USED TO PURGE WELL	disposable bailer		
TIME EVACUATION STARTED	TIME EVACUATION COMPLETED 7:59		
TIME SAMPLES WERE COLLECTED	8:00		
DID WELL GO DRY	AFTER HOW MANY GALLONS		
VOLUME OF GROUNDWATER PURGED	8.15		
SAMPLING DEVICE	disposable bailer		
SAMPLE COLOR	clear	ODOR/SEDIMENT	light h.c/n/a

### CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	61.3	7.06	344
2			
3	61.3	7.06	700

63.9                    655                    465

### SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW 3	3	40ml VOA	G/BTEX/MTBE	Y

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

PROJECT NAME	Yee		
JOB NUMBER	DATE OF SAMPLING	4/12/06	
WELL ID.	SAMPLER	dr	
TOTAL DEPTH OF WELL	WELL DIAMETER	2"	
DEPTH TO WATER PRIOR TO PURGING	13.49		
PRODUCT THICKNESS			
DEPTH OF WELL CASING IN WATER	16.21		
NUMBER OF GALLONS PER WELL CASING VOLUME	2.76		
NUMBER OF WELL CASING VOLUMES TO BE REMOVE	3		
REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING	8.3		
EQUIPMENT USED TO PURGE WELL	disposable bailer		
TIME EVACUATION STARTED	7:05	TIME EVACUATION COMPLETED	7:34
TIME SAMPLES WERE COLLECTED	7:35		
DID WELL GO DRY	—	AFTER HOW MANY GALLONS	—
VOLUME OF GROUNDWATER PURGED	8.3		
SAMPLING DEVICE	disposable bailer		
SAMPLE COLOR	clear	ODOR/SEDIMENT	no / no

### CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	61.0	7.80	390
2	62.9	6.80	497
3	63.5	6.74	517

### SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-4	3	40ml VOA	G/BTEX/MTBE	Y

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

PROJECT NAME	Yee		
JOB NUMBER	DATE OF SAMPLING		4/12/06
WELL ID.	MW-5	SAMPLER	dr
TOTAL DEPTH OF WELL	28.5	WELL DIAMETER	2"
DEPTH TO WATER PRIOR TO PURGING	13.6		
PRODUCT THICKNESS	/		
DEPTH OF WELL CASING IN WATER	14.84		
NUMBER OF GALLONS PER WELL CASING VOLUME	2.52		
NUMBER OF WELL CASING VOLUMES TO BE REMOVE	3		
REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING	7.6		
EQUIPMENT USED TO PURGE WELL	disposable bailer		
TIME EVACUATION STARTED	8:05	TIME EVACUATION COMPLETED	8:34
TIME SAMPLES WERE COLLECTED	8:35	/	
DID WELL GO DRY	/	AFTER HOW MANY GALLONS	/
VOLUME OF GROUNDWATER PURGED	7.6		
SAMPLING DEVICE	disposable bailer		
SAMPLE COLOR	clear	ODOR/SEDIMENT	h.c. /some discolored s. 14

### CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	60.1	7.10	556
2	61.1	7.04	845
3	61.3	7.02	894

### SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-5	3	40ml VOA	G/BTEX/MTBE	Y

## **APPENDIX B**

Certified Analytical Report  
and  
Chain of Custody Documentation



Report Number : 49497

Date : 4/19/2006

Project Name : Yee

Project Number :

Sample : MW-1

Matrix : Water

Lab Number : 49497-01

Sample Date : 4/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1500	70	ug/L	EPA 8260B	4/17/2006
Toluene	87	70	ug/L	EPA 8260B	4/17/2006
Ethylbenzene	360	70	ug/L	EPA 8260B	4/17/2006
Total Xylenes	670	70	ug/L	EPA 8260B	4/17/2006
Methyl-t-butyl ether (MTBE)	17000	70	ug/L	EPA 8260B	4/17/2006
TPH as Gasoline	11000	7000	ug/L	EPA 8260B	4/17/2006
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	4/17/2006
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	4/17/2006

Sample : MW-3

Matrix : Water

Lab Number : 49497-02

Sample Date : 4/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 2.0	2.0	ug/L	EPA 8260B	4/17/2006
Toluene	< 2.0	2.0	ug/L	EPA 8260B	4/17/2006
Ethylbenzene	< 2.0	2.0	ug/L	EPA 8260B	4/17/2006
Total Xylenes	< 2.0	2.0	ug/L	EPA 8260B	4/17/2006
Methyl-t-butyl ether (MTBE)	7800	15	ug/L	EPA 8260B	4/18/2006
TPH as Gasoline	< 200	200	ug/L	EPA 8260B	4/17/2006
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	4/17/2006
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	4/17/2006

Approved By:

Joel Kiff



Report Number : 49497

Date : 4/19/2006

Project Name : Yee

Project Number :

Sample : MW-4

Matrix : Water

Lab Number : 49497-03

Sample Date : 4/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 1.5	1.5	ug/L	EPA 8260B	4/17/2006
Toluene	< 1.5	1.5	ug/L	EPA 8260B	4/17/2006
Ethylbenzene	4.6	1.5	ug/L	EPA 8260B	4/17/2006
Total Xylenes	< 1.5	1.5	ug/L	EPA 8260B	4/17/2006
Methyl-t-butyl ether (MTBE)	11000	25	ug/L	EPA 8260B	4/18/2006
TPH as Gasoline	250	150	ug/L	EPA 8260B	4/17/2006
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	4/17/2006
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	4/17/2006

Sample : MW-5

Matrix : Water

Lab Number : 49497-04

Sample Date : 4/12/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	2600	9.0	ug/L	EPA 8260B	4/17/2006
Toluene	1200	9.0	ug/L	EPA 8260B	4/17/2006
Ethylbenzene	440	9.0	ug/L	EPA 8260B	4/17/2006
Total Xylenes	940	9.0	ug/L	EPA 8260B	4/17/2006
Methyl-t-butyl ether (MTBE)	21000	40	ug/L	EPA 8260B	4/18/2006
TPH as Gasoline	18000	900	ug/L	EPA 8260B	4/17/2006
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	4/17/2006
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	4/17/2006

Approved By:

Joel Kiff

Report Number : 49497

**QC Report : Method Blank Data**Project Name : **Yee**

Project Number :

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/18/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/17/2006
Toluene - d8 (Surrogate)	97.8		%	EPA 8260B	4/17/2006
4-Bromofluorobenzene (Surrogate)	93.4		%	EPA 8260B	4/17/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	4/17/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

## QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 4/19/2006

Project Name : Yee

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Recov. Limit	Relative Percent Diff. Limit
Benzene	49484-05	360	40.0	40.0	382	388	ug/L	EPA 8260B	4/18/06	51.5	67.4	26.8	70-130	25
Toluene	49484-05	69	40.0	40.0	104	105	ug/L	EPA 8260B	4/18/06	88.3	90.8	2.86	70-130	25
Tert-Butanol	49484-05	52	200	200	249	260	ug/L	EPA 8260B	4/18/06	98.6	104	5.38	70-130	25
Methyl-t-Butyl Ether	49484-05	0.66	40.0	40.0	39.2	39.7	ug/L	EPA 8260B	4/18/06	96.4	97.6	1.25	70-130	25
Benzene	49532-06	<0.50	40.0	40.0	43.6	42.9	ug/L	EPA 8260B	4/17/06	109	107	1.69	70-130	25
Toluene	49532-06	<0.50	40.0	40.0	40.6	40.2	ug/L	EPA 8260B	4/17/06	102	100	1.14	70-130	25
Tert-Butanol	49532-06	<5.0	200	200	197	201	ug/L	EPA 8260B	4/17/06	98.6	100	1.80	70-130	25
Methyl-t-Butyl Ether	49532-06	1.7	40.0	40.0	42.1	42.1	ug/L	EPA 8260B	4/17/06	101	101	0.00614	70-130	25
Benzene	49514-05	2.4	40.0	40.0	43.6	43.0	ug/L	EPA 8260B	4/17/06	103	102	1.27	70-130	25
Toluene	49514-05	<0.50	40.0	40.0	38.6	37.9	ug/L	EPA 8260B	4/17/06	96.5	94.8	1.79	70-130	25
Tert-Butanol	49514-05	24	200	200	209	208	ug/L	EPA 8260B	4/17/06	92.1	91.7	0.436	70-130	25
Methyl-t-Butyl Ether	49514-05	260	40.0	40.0	295	298	ug/L	EPA 8260B	4/17/06	75.5	81.6	7.86	70-130	25
Benzene	49532-03	<0.50	40.0	40.0	41.9	41.4	ug/L	EPA 8260B	4/17/06	105	103	1.35	70-130	25
Toluene	49532-03	<0.50	40.0	40.0	41.2	40.6	ug/L	EPA 8260B	4/17/06	103	102	1.51	70-130	25
Tert-Butanol	49532-03	<5.0	200	200	197	198	ug/L	EPA 8260B	4/17/06	98.6	98.8	0.137	70-130	25
Methyl-t-Butyl Ether	49532-03	<0.50	40.0	40.0	39.5	38.8	ug/L	EPA 8260B	4/17/06	98.8	97.0	1.90	70-130	25

Project Name : Yee

Project Number :

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	4/18/06	107	70-130
Toluene	40.0	ug/L	EPA 8260B	4/18/06	105	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/18/06	100	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/18/06	98.3	70-130
Benzene	40.0	ug/L	EPA 8260B	4/17/06	110	70-130
Toluene	40.0	ug/L	EPA 8260B	4/17/06	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/17/06	97.7	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/17/06	101	70-130
Benzene	40.0	ug/L	EPA 8260B	4/17/06	104	70-130
Toluene	40.0	ug/L	EPA 8260B	4/17/06	100	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/17/06	97.5	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/17/06	99.3	70-130
Benzene	40.0	ug/L	EPA 8260B	4/17/06	98.1	70-130
Toluene	40.0	ug/L	EPA 8260B	4/17/06	100	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/17/06	94.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/17/06	98.9	70-130

KIFF ANALYTICAL, LLC

Approved By:

Joe Kiff

Project Name : Yee

Project Number :

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	49484-05	360	40.0	40.0	382	388	ug/L	EPA 8260B	4/18/06	51.5	67.4	26.8	70-130	25
Toluene	49484-05	69	40.0	40.0	104	105	ug/L	EPA 8260B	4/18/06	88.3	90.8	2.86	70-130	25
Tert-Butanol	49484-05	52	200	200	249	260	ug/L	EPA 8260B	4/18/06	98.6	104	5.38	70-130	25
Methyl-t-Butyl Ether	49484-05	0.66	40.0	40.0	39.2	39.7	ug/L	EPA 8260B	4/18/06	96.4	97.6	1.25	70-130	25
Benzene	49532-06	<0.50	40.0	40.0	43.6	42.9	ug/L	EPA 8260B	4/17/06	109	107	1.69	70-130	25
Toluene	49532-06	<0.50	40.0	40.0	40.6	40.2	ug/L	EPA 8260B	4/17/06	102	100	1.14	70-130	25
Tert-Butanol	49532-06	<5.0	200	200	197	201	ug/L	EPA 8260B	4/17/06	98.6	100	1.80	70-130	25
Methyl-t-Butyl Ether	49532-06	1.7	40.0	40.0	42.1	42.1	ug/L	EPA 8260B	4/17/06	101	101	0.00614	70-130	25
Benzene	49514-05	2.4	40.0	40.0	43.6	43.0	ug/L	EPA 8260B	4/17/06	103	102	1.27	70-130	25
Toluene	49514-05	<0.50	40.0	40.0	38.6	37.9	ug/L	EPA 8260B	4/17/06	96.5	94.8	1.79	70-130	25
Tert-Butanol	49514-05	24	200	200	209	208	ug/L	EPA 8260B	4/17/06	92.1	91.7	0.436	70-130	25
Methyl-t-Butyl Ether	49514-05	260	40.0	40.0	295	298	ug/L	EPA 8260B	4/17/06	75.5	81.6	7.86	70-130	25
Benzene	49532-03	<0.50	40.0	40.0	41.9	41.4	ug/L	EPA 8260B	4/17/06	105	103	1.35	70-130	25
Toluene	49532-03	<0.50	40.0	40.0	41.2	40.6	ug/L	EPA 8260B	4/17/06	103	102	1.51	70-130	25
Tert-Butanol	49532-03	<5.0	200	200	197	198	ug/L	EPA 8260B	4/17/06	98.6	98.8	0.137	70-130	25
Methyl-t-Butyl Ether	49532-03	<0.50	40.0	40.0	39.5	38.8	ug/L	EPA 8260B	4/17/06	98.8	97.0	1.90	70-130	25

Approved By: Joe Kiff

KIFF ANALYTICAL, LLC

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Danville, CA 94526  
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FAX (925) 837-4853

7/17/01

# Chain of Custody

Analytical Laboratory Name:

K. FF

Project Name:

Yee

Sample Location:

OAKSTUD

Sampled by:

David Rains

Sampler Signature:

*[Signature]*

Sample ID	Grab	Composite	Water	Matrix		Method Preserved			Number of Containers	Sampling		TPH - 6 / BTEX / MTBE	Standard	Other	Turnaround Time	
				Soil	Other	Other	Cold (4° C)	HCL		HNO <sub>3</sub>	Other	Date	Time			
MW-1	X	X					X	X	3			4-12-01	905	X		X
MW-3													800	X		01
MW-4													735	X		02
MW-5	↓	↓					↓	↓	↓				835	X		03
																04

Total # of containers:

Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Rains	4-12	1200			

EDF

Lomes Plunkett 04/13/01 1415

Sample Receipt  
Temp °C 17 Therm. ID# FR-1  
Initial \_\_\_\_\_  
Date 04/13/01 Time 1630  
Coolant present: Yes / No  
8/24/00