

C A M B R I A

July 29, 2005

Mr. Amir Gholami  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

Re: **Groundwater Monitoring Report  
Second Quarter 2005**  
Former Exxon Service Station  
3055 35th Avenue  
Oakland, California  
Cambria Project #130-0105

Alameda County  
AUG 02 2005  
Environmental Health



Dear Mr. Gholami:

On behalf of Mr. Lynn Worthington of Golden Empire Properties, Cambria Environmental Technology, Inc. (Cambria) has prepared this *Groundwater Monitoring Report – Second Quarter 2005*. Presented in the report are the second quarter 2005 activities and the anticipated third quarter 2005 activities.

If you have any questions or comments regarding this report, please call me at (510) 420-3361.

Sincerely,  
**Cambria Environmental Technology, Inc.**

Subbarao Nagulapaty  
Project Engineer

Attachments: Groundwater Monitoring Report - Second Quarter 2005

cc: Mr. Lynn Worthington, Golden Empire Properties, Inc. 5942 MacArthur Boulevard, Suite B, Oakland, California 94605

**Cambria  
Environmental  
Technology, Inc.**

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C A M B R I A

GROUNDWATER MONITORING REPORT

SECOND QUARTER 2005

Former Exxon Service Station  
3055 35th Avenue  
Oakland, California  
Cambria Project #130-0105

July 29, 2005



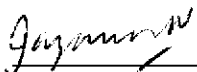
Alameda County  
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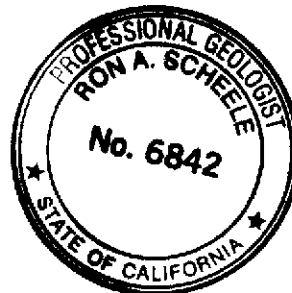
*Prepared for:*


Mr. Lynn Worthington  
Golden Empire Properties, Inc.  
5942 MacArthur Boulevard, Suite B  
Oakland, California 94605

*Prepared by:*

Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
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Jayakrishna Nidamarthi  
Staff Engineer



  
\_\_\_\_\_  
Ron Scheele, P.G.  
Senior Geologist

## GROUNDWATER MONITORING REPORT

SECOND QUARTER 2005

Former Exxon Service Station  
3055 35th Avenue  
Oakland, California  
Cambria Project #130-0105

July 29, 2005

**INTRODUCTION**

On behalf of Mr. Lynn Worthington of Golden Empire Properties, Cambria Environmental Technology, Inc. (Cambria) has prepared this *Groundwater Monitoring Report* for the above-referenced site (see Figure 1). Presented in the report are the second quarter 2005 groundwater monitoring and corrective action activities and the anticipated third quarter activities.

**SECOND QUARTER 2005 ACTIVITIES****Monitoring Activities**

**Field Activities:** On June 21, 2005, Cambria subcontracted Muskan Environmental Sampling (MES) to perform quarterly monitoring activities. MES gauged and inspected for separate-phase hydrocarbons (SPH) in all monitoring wells (Figure 1). Groundwater samples were collected from wells MW-1 through MW-4, RW-5, and RW-9. Groundwater monitoring field data sheets are presented in Appendix A. The monitoring data has been submitted to the GeoTracker database. See Appendix C for the GeoTracker electronic delivery confirmation.

**Sample Analyses:** Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and total petroleum hydrocarbons as diesel (TPHd) with silica gel clean-up by modified EPA Method 8015, and benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8021B. The laboratory analytical report is presented as Appendix B. The analytical data has been submitted to the GeoTracker database. See Appendix C for the GeoTracker electronic delivery confirmation.

## Monitoring Results

**Groundwater Flow Direction:** Based on depth to water measurements collected during MES's June 21, 2005 site visit, groundwater beneath the site generally flows towards the northwest with a gradient of 0.012 ft/ft. The groundwater gradient is generally consistent with historical static groundwater conditions. Groundwater monitoring data is presented in Table 1.

**Hydrocarbon Distribution in Groundwater:** Hydrocarbon concentrations were detected in all six sampled wells. TPHg concentrations ranged from 6,500 micrograms per liter ( $\mu\text{g/L}$ ) to 44,000  $\mu\text{g/L}$ , with the highest concentration detected in well MW-3. Benzene concentrations ranged from 820  $\mu\text{g/L}$  to 4,900  $\mu\text{g/L}$ , with the highest concentration detected in well MW-3. TPHd concentrations ranged from 490  $\mu\text{g/L}$  to 15,000  $\mu\text{g/L}$ , with the highest concentration detected in well MW-2. MTBE was detected above laboratory detection limits only in well MW-2 at a concentration of 1,200  $\mu\text{g/L}$ . Hydrocarbon concentrations have rebounded since the two-phase extraction (TPE) system has been shutdown in September 2004. However, hydrocarbon concentrations in wells MW-1 and MW-3 have decreased relative to the previous quarter (see Appendix D for individual well concentration trend graphs). Analytical results are summarized in Table 1 and shown on Figure 1.

## Corrective Action Activities

**System Shutdown and Removal:** No corrective action activities took place during second quarter 2005. Due to low hydrocarbon removal rates during the third quarter 2004, Cambria requested and received approval from the Alameda County Health Care Services Agency (ACHCSA) to shutdown the two-phase extraction (TPE) remediation system operations. On September 29, 2004, remediation activities ceased and the TPE system was removed from the site on September 30, 2004.

## ANTICIPATED THIRD QUARTER 2005 ACTIVITIES

### Monitoring Activities

During the third quarter 2005, Cambria will coordinate with MES to gauge the site wells, check the wells for SPH, and collect groundwater samples from monitoring wells MW-1 through MW-4, RW-5, and RW-9. Groundwater samples will be analyzed for TPHg and TPHd with silica gel clean-up by Modified EPA Method 8015 and BTEX and MTBE by EPA Method 8021B. Cambria will summarize groundwater monitoring activities and results in the *Groundwater Monitoring Report – Third Quarter 2005*.

**Corrective Action Activities**

On February 22, 2005, Cambria submitted a *Remediation Work Plan* to the Alameda County Health Care Services Agency (ACHCSA) which proposed implementation of in-situ chemical oxidation using ozone to further remediate the site. Cambria is waiting for agency approval before implementing this work plan.

**ATTACHMENTS**

Figure 1 – Groundwater Elevation and Analytical Summary Map – June 21, 2005

Table 1 – Groundwater Elevations and Analytical Data

Appendix A – Groundwater Monitoring Field Data Sheets

Appendix B – Analytical Results for Groundwater Sampling

Appendix C – GeoTracker Electronic Delivery Confirmations

Appendix D – TPHg and Benzene Concentration Trend Graphs



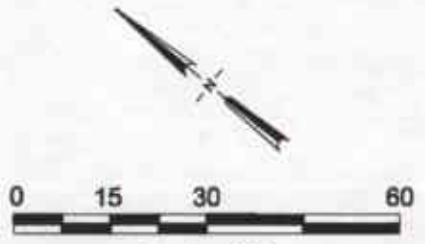
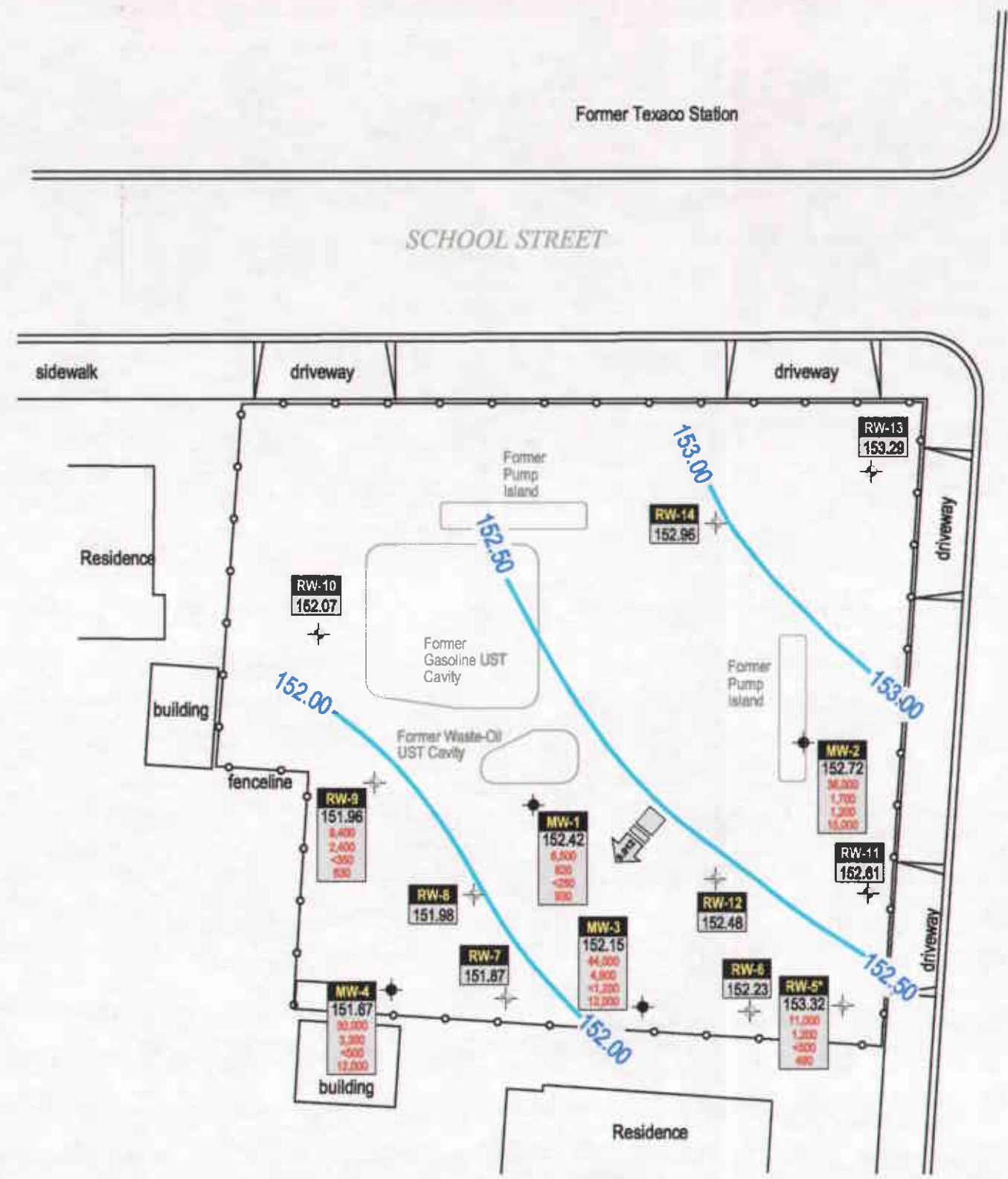
**EXPLANATION**

- MW-1 Monitoring well location
- RW-6 Remediation well location
- xx.xx Groundwater elevation contour, in feet above mean sea level (msl), dashed where inferred
- Groundwater flow direction and gradient
- |                  |
|------------------|
| Well ID          |
| ELEV             |
| TPH <sub>g</sub> |
| Benzene          |
| MTBE             |
| TPH <sub>d</sub> |

 Well designation
- |                  |
|------------------|
| ELEV             |
| TPH <sub>g</sub> |
| Benzene          |
| MTBE             |
| TPH <sub>d</sub> |

 Groundwater elevation (msl)
- |                  |
|------------------|
| TPH <sub>g</sub> |
| Benzene          |
| MTBE             |
| TPH <sub>d</sub> |

 Hydrocarbon concentrations in groundwater, in micrograms per liter (µg/L)
- \* Groundwater elevation data anomalous, not used in contouring



Scale (ft)  
Source: Virgil Chavez Land Surveying

FIGURE  
**1**

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# CAMBRIA

**Table 1. Groundwater Elevations and Analytical Data - Former Exxon Service Station, 3055 35th Avenue, Oakland, California**

Well ID	Date	GW	SPH	GW	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DO	TPE System
TOC		Depth (ft)	(ft)	Elev. (ft)	Concentrations in micrograms per liter (µg/L)								(mg/L)	Status
MW-1	5/25/1994	16.79	Sheen	84.06	120,000	25,000	<50,000	22,000	17,000	2,800	16,000	---	---	
100.85	7/19/1994	20.77	---	80.08	---	---	---	---	---	---	---	---	---	
	8/18/1994	21.04	Sheen	79.81	925,000	---	---	16,500	6,200	1,000	9,400	---	---	
	11/11/1994	15.80	---	85.05	57,000	---	---	14,000	4,400	1,400	6,400	---	---	
	2/27/1995	15.53	---	85.32	45,000	---	---	2,900	2,500	760	4,100	---	---	
	5/23/1995	15.29	---	85.56	22,000	---	---	9,900	990	790	2,000	---	---	
	8/22/1995	20.90	---	79.95	23,000	---	---	6,900	340	1,200	1,900	---	---	
	11/29/1995	22.19	---	78.66	37,000	---	---	9,900	530	1,600	2,900	---	---	
	2/21/1996	11.69	---	89.16	33,000	4,300	---	10,000	480	1,000	1,800	3,300	---	
	5/21/1996	14.62	---	86.23	36,000	8,500	---	8,500	1,400	1,300	2,800	1,900	---	
	8/22/1996	22.30	---	78.55	41,000	6,200	---	8,600	1,300	1,500	2,900	<200	8.0	
	11/27/1996	17.24	Sheen	83.61	38,000	6,100	---	9,600	950	1,600	3,100	<400	5.6	
	3/20/1997	16.65	---	84.20	33,000	10,000	---	6,100	560	970	2,200	<400	8.5	
	6/25/1997	19.77	---	81.08	31,000	7,400 <sup>e</sup>	---	7,400	440	890	1,800	<400	3.7	
	9/17/1997	20.12	---	80.73	32,000 <sup>d</sup>	3,500 <sup>e</sup>	---	9,100	550	1,000	2,000	<1,000	2.1	
	12/22/1997	12.95	---	87.90	26,000 <sup>d</sup>	5,800 <sup>e</sup>	---	7,900	370	920	1,500	<790	0.7	
	3/18/1998	12.34	Sheen	88.51	30,000 <sup>d</sup>	4,200 <sup>e,f</sup>	---	7,800	820	840	2,000	<1,100	1.3	
	7/14/1998	17.34	---	83.51	41,000 <sup>d</sup>	8,900 <sup>e,f</sup>	---	8,200	1,100	1,200	3,000	<200	1.8	
	9/30/1998	19.90	---	80.95	37,000	3,300	---	11,000	950	1,200	2,800	<20	2.0	
	12/8/1998	15.62	---	85.23	22,000	3,700	---	3,000	1,200	730	3,100	<900	---	
	3/29/1999	11.98	---	88.87	36,000 <sup>d</sup>	6,800 <sup>e</sup>	---	12,000	750	1,300	2,400	950	0.50	
	6/29/1999	20.77	---	80.08	28,000 <sup>d</sup>	3,500 <sup>e</sup>	---	7,300	420	810	1,700	<1,300	0.10	
	9/28/1999	19.68	---	81.17	13,000 <sup>d</sup>	3,600 <sup>e,f</sup>	---	3,200	130	320	1,100	<210	0.55	
	12/10/1999	17.02	---	83.83	25,000 <sup>d</sup>	2,900 <sup>e,f</sup>	---	5,400	130	620	1,400	<1,000	1.03	
	3/23/2000	12.76	---	88.09	21,000 <sup>d</sup>	3,300 <sup>e</sup>	---	4,700	140	470	1,100	<350	---	
	9/7/2000	19.45	---	81.40	40,000 <sup>d,g</sup>	12,000 <sup>e,g</sup>	---	3,700	1,400	910	4,900	<50	0.17	
	12/5/2000	18.60	---	82.25	26,000 <sup>d</sup>	3,400 <sup>e</sup>	---	7,900	150	580	810	<300	0.35	Not operating
	3/7/2001	16.19	---	84.66	13,000	2,400	---	2,700	43	69	300	<100	0.49	Not operating
	6/6/2001	18.47	---	82.38	19,000	4,000	---	4,500	130	270	430	<400	0.39	Not operating
	8/30/2001	21.70	---	79.15	8,800 <sup>d</sup>	1,400 <sup>d</sup>	---	2,100	45	91	240	<130	0.27	Operating
	12/7/2001	26.55	---	74.30	8,700 <sup>d</sup>	1,900 <sup>e,f</sup>	---	1,300	160	38	730	<20	0.59	Operating
	3/11/2002	17.13	---	83.72	9,400 <sup>d</sup>	1,400 <sup>e</sup>	---	2,100	200	74	470	<20	0.39	Operating
	6/10/2002	24.10	---	76.75	4,200 <sup>d</sup>	900 <sup>g,h</sup>	---	830	170	110	460	<100	---	Operating
	9/26/2002	20.30	---	80.55	7,000 <sup>d</sup>	1,300 <sup>e,h,k</sup>	---	1,300	190	200	760	<100	0.70	Operating
	11/21/2002	21.55	---	79.30	83,000 <sup>d,g</sup>	200,000 <sup>e,g</sup>	---	7,100	1,700	3,000	13,000	<1,000	0.49	Operating
	1/13/2003	14.80	---	86.05	20,000 <sup>d</sup>	5,300 <sup>e,f</sup>	---	2,300	480	300	2,100	<500	0.33	Not operating
	4/25/2003	20.90	---	79.95	4,200 <sup>d</sup>	320 <sup>e</sup>	---	580	81	59	470	<50	---	Operating
	5/30/2003	16.65	---	84.20	---	---	---	---	---	---	---	---	---	Not operating
	9/3/2003	24.16	---	76.69	14,000 <sup>d</sup>	36,000 <sup>e,f</sup>	---	300	50	33	480	<50	---	Operating

# CAMBRIA

**Table 1. Groundwater Elevations and Analytical Data - Former Exxon Service Station, 3055 35th Avenue, Oakland, California**

Well ID	Date	GW Depth (ft)	SPH (ft)	GW Elev. (ft)	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DO (mg/L)	TPE System Status
TOC	Concentrations in micrograms per liter (µg/L)													
MW-1	12/2/2003	24.12	---	76.73	7,100 <sup>d,g</sup>	9,300 <sup>e,f,g</sup>	---	1,400	230	160	820	<100	---	Operating
Continued	3/18/2004	17.70	---	83.15	3,600 <sup>d</sup>	1,100 <sup>e,f</sup>	---	650	59	38	370	<90	---	Operating
167.02	6/16/2004	19.20	---	147.82	8,100 <sup>d</sup>	2,300 <sup>e,f</sup>	---	1,500	69	22	1,000	<100	---	Not operating
	9/27/2004	23.07	---	143.95	7,800 <sup>d</sup>	1,700 <sup>f</sup>	---	1,800	110	120	670	<180	0.28	Not operating
	12/27/2004	17.04	---	149.98	10,000 <sup>d</sup>	1,400 <sup>e</sup>	---	2,400	170	170	1,500	<120	0.41	Not operating
	3/7/2005	10.73	---	156.29	8,700 <sup>d</sup>	1,300 <sup>e,f,k</sup>	---	1,200	99	140	770	<500	0.91	Not operating
	6/21/2005	14.60	---	152.42	6,500 <sup>d</sup>	930 <sup>e,k</sup>	---	820	26	57	110	<250	---	Not operating
MW-2	5/25/1994	15.65	---	84.35	61,000	6,900	<5,000	9,900	7,400	960	4,600	---	---	
100.00	7/19/1994	19.81	---	80.19	---	---	---	---	---	---	---	---	---	
	8/18/1994	20.37	---	79.63	88,000	---	---	10,750	10,500	1,850	9,600	---	---	
	11/11/94	15.52	---	84.48	54,000	---	---	5,900	6,700	1,300	7,500	---	---	
	2/27/1995	14.46	Sheen	85.54	44,000	---	---	5,100	5,300	930	6,400	---	---	
	5/23/1995	14.17	---	85.83	33,000	---	---	8,200	5,600	900	6,600	---	---	
	8/22/1995	19.80	---	80.20	38,000	---	---	6,400	5,000	1,100	5,600	---	---	
	11/29/95	21.05	---	78.95	46,000	---	---	7,100	5,300	1,300	6,000	---	---	
	2/21/1996	10.53	---	89.47	59,000	---	---	8,000	6,000	1,800	8,900	4,500	---	
	5/21/1996	13.47	---	86.53	51,000	3,400	---	8,200	5,200	1,300	6,600	2,400	---	
	8/22/1996	19.12	---	80.88	37,000	5,700	---	5,100	3,500	960	4,500	<200	3.0	
	11/27/1996	16.61	Sheen	83.39	54,000	10,000	---	9,800	7,000	1,800	7,900	<2,000	3.1	
	3/20/1997	15.39	---	84.61	27,000	6,100	---	3,700	2,300	580	2,800	<400	8.1	
	6/25/1997	18.62	---	81.38	42,000	7,800 <sup>b</sup>	---	7,400	3,800	1,200	5,700	<200	0.9	
	9/17/1997	19.05	Sheen	80.95	41,000 <sup>d</sup>	8,900 <sup>e</sup>	---	5,200	3,400	1,300	5,900	<700	1.2	
	12/22/1997	14.09	---	85.91	47,000 <sup>d</sup>	6,100 <sup>f</sup>	---	8,500	4,600	1,800	8,400	<1,200	1.2	
	3/18/1998	10.83	Sheen	89.17	58,000 <sup>d</sup>	7,000 <sup>e,f</sup>	---	9,300	6,100	1,800	8,200	<1,100	1.1	
	7/14/1998	16.07	---	83.93	42,000 <sup>d</sup>	5,300 <sup>e,f</sup>	---	6,000	3,000	1,000	4,800	<200	1.5	
	9/30/1998	18.71	---	81.29	22,000	2,400	---	3,600	1,300	720	3,200	<30	1.8	
	12/8/1998	14.80	---	85.20	32,000	3,100	---	9,200	680	1,100	2,300	<2,000	---	
	3/29/1999	11.81	---	88.19	28,000 <sup>d</sup>	7,500 <sup>e,f</sup>	---	4,400	1,600	950	4,100	410	1.86	
	6/29/1999	19.54	---	80.46	28,000 <sup>d</sup>	3,300 <sup>e</sup>	---	3,500	1,100	690	3,100	<1,000	0.41	
	9/28/1999	18.61	---	81.39	15,000 <sup>d</sup>	3,400 <sup>e,f</sup>	---	1,200	540	230	2,300	<36	1.18	
	12/10/1999	16.53	---	83.47	17,000 <sup>d</sup>	2,500 <sup>e,f</sup>	---	1,300	780	420	2,700	<40	0.17	
	3/23/2000	13.56	---	86.44	25,000 <sup>d</sup>	3,100 <sup>f</sup>	---	1,900	1,100	660	3,700	<500	---	
	9/7/2000	18.25	---	81.75	62,000 <sup>d,g</sup>	32,000 <sup>g</sup>	---	5,300	2,300	1,500	8,400	<100	0.39	
	12/5/2000	17.45	---	82.55	60,000 <sup>d,g</sup>	87,000 <sup>e,f,g</sup>	---	5,100	2,200	1,600	9,000	<200	0.31	Not operating
	3/7/2001	15.68	---	84.32	34,000	3,900	---	1,200	770	620	4,300	<200	0.44	Not operating
	6/6/2001	17.51	---	82.49	110,000	48,000	---	14,000	9,000	1,900	12,000	<950	0.24	Not operating
	8/30/2001	21.00	---	79.00	43,000 <sup>a,b</sup>	15,000 <sup>a,h</sup>	---	3,100	720	980	5,500	<200	---	Operating
	12/7/2001	24.45	---	75.55	4,100 <sup>d</sup>	750 <sup>e,f</sup>	---	510	88	8.2	580	<20	0.47	Operating



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**Table 1. Groundwater Elevations and Analytical Data - Former Exxon Service Station, 3055 35th Avenue, Oakland, California**

Well ID	Date	GW	SPH	GW	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DO	TPE System	
TOC		Depth (ft)	(ft)	Elev. (ft)	Concentrations in micrograms per liter (µg/L)									(mg/L)	Status
MW-2	3/11/2002	16.95	---	83.05	4,700 <sup>d</sup>	590 <sup>e</sup>	---	1,200	150	30	310	<50	0.24	Operating	
Continued	6/10/2002	18.59	---	81.41	14,000 <sup>d</sup>	2,000 <sup>e</sup>	---	2,600	710	150	2,000	<800	---	Operating	
	9/26/2002	20.39	---	79.61	4,800 <sup>d</sup>	660 <sup>e</sup>	---	770	200	140	740	<50	0.29	Operating	
	11/21/2002	18.75	---	81.25	210,000 <sup>d,g</sup>	350,000 <sup>e,g</sup>	---	14,000	23,000	4,400	28,000	<1,700	0.43	Operating	
	1/13/2003	13.60	---	86.40	32,000 <sup>d,g</sup>	14,000 <sup>e,f,g,k</sup>	---	4,500	1,600	920	3,600	<1000	0.39	Not operating	
	4/25/2003	19.05	---	80.95	3,800 <sup>d</sup>	310 <sup>e</sup>	---	460	78	72	410	310	---	Operating	
	5/30/2003	15.23	---	84.77	---	---	---	---	---	---	---	---	---	Not operating	
	9/3/2003	23.57	---	76.43	2,900 <sup>d</sup>	2,300 <sup>e</sup>	---	240	57	68	380	770	---	Operating	
	12/2/2003	23.17	---	76.83	2,400 <sup>d,g</sup>	3,300 <sup>e,f,g</sup>	---	91	20	14	250	890	---	Operating	
	3/18/2004	15.78	---	84.22	4,200 <sup>d</sup>	870 <sup>e,f</sup>	---	730	89	<5.0	480	2,300	---	Operating	
	166.14	6/16/2004	18.15	---	147.99	15,000 <sup>d</sup>	9,800 <sup>f</sup>	---	800	210	290	1,800	2,000	---	Not operating
9/27/2004		27.55**	---	138.59	770 <sup>d</sup>	1,000 <sup>e,f,k</sup>	---	20	7.9	10	140	1,600	0.79	Operating	
12/27/2004		16.81	---	149.33	17,000 <sup>d</sup>	3,800 <sup>f</sup>	---	1,300	370	540	3,800	620	0.94	Not operating	
3/7/2005		9.31	Sheen	156.83	20,000 <sup>d,g</sup>	8,300 <sup>e,f,k,g</sup>	---	1,400	330	430	2,600	1,100	0.88	Not operating	
6/21/2005		13.42	---	152.72	36,000 <sup>d,g</sup>	15,000 <sup>e,f,g</sup>	---	1,700	310	460	3,100	1,200	---	Not operating	
MW-3	5/25/1994	13.93	Sheen	82.94	56,000	14,000	<50,000	14,000	14,000	1,300	11,000	---	---	---	
96.87	7/19/1994	17.04	---	79.83	---	---	---	---	---	---	---	---	---	---	
	8/18/1994	17.75	---	79.12	116,000	---	---	28,300	26,000	2,400	15,000	---	---	---	
	11/11/94	17.80	---	79.07	89,000	---	---	1,600	1,900	1,900	14,000	---	---	---	
	2/27/1995	11.86	Sheen	85.01	250,000	---	---	22,000	26,000	7,800	21,000	---	---	---	
	5/23/1995	11.60	Sheen	85.27	310,000	---	---	18,000	17,000	4,500	2,800	---	---	---	
	8/22/1995	17.10	---	79.77	74,000	---	---	14,000	13,000	1,900	11,000	---	---	---	
	11/29/1995	16.34	---	80.53	220,000	---	---	25,000	25,000	3,500	19,000	---	---	---	
	2/21/1996	7.92	---	88.95	60,000	---	---	10,000	7,800	1,500	8,800	3,400	---	---	
	5/21/1996	10.86	Sheen	86.01	69,000	13,000	---	17,000	9,400	1,700	9,400	2,600	---	---	
	8/22/1996	16.50	---	80.37	94,000	16,000	---	17,000	15,000	2,100	12,000	330	2.0	---	
	11/27/1996	13.47	Sheen	83.40	82,000	24,000	---	14,000	13,000	2,400	13,000	<1,000	2.4	---	
	3/20/1997	12.86	---	84.01	56,000	11,000	---	9,900	6,900	1,300	8,000	3,500	9.0	---	
	6/25/1997	15.98	---	80.89	49,000	7,700 <sup>b</sup>	---	9,700	7,100	1,300	7,000	220	5.8	---	
	9/17/1997	16.34	Sheen	80.53	78,000 <sup>d</sup>	15,000 <sup>e</sup>	---	11,000	9,900	1,800	10,000	<1,200	0.7	---	
	12/22/1997	10.71	Sheen	86.16	49,000 <sup>d</sup>	14,000 <sup>f</sup>	---	7,300	5,300	1,400	7,500	<1,100	3.1	---	
	3/18/1998	8.41	Sheen	88.46	120,000 <sup>d</sup>	20,000 <sup>e,f</sup>	---	21,000	19,000	2,600	15,000	<1,600	1.6	---	
	7/14/1998	13.51	---	83.36	94,000 <sup>d,g</sup>	65,000 <sup>e,f,g</sup>	---	18,000	14,000	1,900	11,000	<1,400	1.8	---	
	9/30/1998	16.14	---	80.73	91,000	9,800	---	17,000	13,000	2,100	12,000	<1300	2.0	---	
	12/8/1998	11.20	---	85.67	51,000	4,200	---	8,000	6,800	1,400	7,500	<1,100	---	---	
3/29/1999	7.95	---	88.92	39,000 <sup>d</sup>	4,600 <sup>e</sup>	---	8,900	4,400	940	4,500	810	0.56	---		
6/29/1999	16.98	---	79.89	71,000 <sup>d</sup>	6,900 <sup>e</sup>	---	12,000	7,300	1,400	8,400	<1,700	0.19	---		
9/28/1999	15.99	---	80.88	60,000 <sup>d</sup>	7,800 <sup>e</sup>	---	9,400	9,200	1,000	9,900	200	0.53	---		

# CAMBRIA

**Table 1. Groundwater Elevations and Analytical Data - Former Exxon Service Station, 3055 35th Avenue, Oakland, California**

Well ID	Date	GW	SPH	GW	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DO	TPE System	
TOC		Depth (ft)	(ft)	Elev. (ft)	Concentrations in micrograms per liter (µg/L)									(mg/L)	Status
MW-3	12/10/1999	13.31	---	83.56	53,000 <sup>d</sup>	5,300 <sup>af</sup>	---	8,000	6,400	1,100	8,100	<200	0.48		
Continued	3/23/2000	8.98	---	87.89	77,000 <sup>de</sup>	11,000 <sup>bj</sup>	---	10,000	9,400	1,600	11,000	<430	---		
	9/7/2000	15.61	---	81.26	100,000 <sup>de</sup>	19,000 <sup>de</sup>	---	17,000	12,000	1,600	11,000	<500	---		
	12/5/2000	14.80	---	82.07	110,000 <sup>de</sup>	17,000 <sup>de</sup>	---	17,000	11,000	1,900	12,000	<750	0.37	Not operating	
	3/7/2001	14.27	---	82.60	60,000	13,000	---	7,000	4,600	900	7,100	<350	0.49	Not operating	
	6/6/2001	14.88	---	81.99	43,000	12,000	---	3,000	1,000	770	5,200	<400	1.71	Not operating	
	8/30/2001	12.43	---	84.44	95,000 <sup>ah</sup>	190,000 <sup>dh</sup>	---	6,900	10,000	2,700	15,000	<250	0.24	Operating	
	12/7/2001	24.65	---	72.22	25,000 <sup>d</sup>	3,900 <sup>ef</sup>	---	2,500	1,700	64	2,200	<200	0.19	Operating	
	3/11/2002	14.69	---	82.18	30,000 <sup>d</sup>	2,800 <sup>fzk</sup>	---	5,000	2,400	190	1,800	<1,300	0.30	Operating	
	6/10/2002	22.94	---	73.93	9,000 <sup>d</sup>	990 <sup>ak</sup>	---	1,800	1,300	96	1,000	<300	---	Operating	
	9/26/2002	18.85	---	78.02	50,000 <sup>de</sup>	130,000 <sup>de</sup>	---	3,900	5,400	820	6,600	<500	0.19	Operating	
	11/21/2002	17.85	0.05	79.06	37,000 <sup>de</sup>	120,000 <sup>de</sup>	---	4,000	660	1,200	5,100	<1,700	0.28	Operating	
	1/13/2003	11.43	---	85.44	21,000 <sup>de</sup>	6,300 <sup>efzk</sup>	---	2,400	2,300	390	3,000	<500	0.31	Not operating	
	4/25/2003	18.30	---	78.57	12,000 <sup>d</sup>	1,200 <sup>e</sup>	---	1,800	850	150	1,200	<500	---	Operating	
	5/30/2003	13.30	---	83.57	---	---	---	---	---	---	---	---	---	Not operating	
	9/3/2003	21.65	---	75.22	8,100 <sup>d</sup>	3,300 <sup>e</sup>	---	220	170	66	560	<50	---	Operating	
	12/2/2003	17.70	---	79.17	30,000 <sup>de</sup>	8,400 <sup>efg</sup>	---	2,900	2,100	530	3,600	<500	---	Operating	
	3/18/2004	16.49	---	80.38	15,000 <sup>d</sup>	2,300 <sup>ef</sup>	---	2,600	990	260	1,700	<300	---	Operating	
162.94	6/16/2004	15.40	---	147.54	23,000 <sup>d</sup>	8,800 <sup>ef</sup>	---	2,100	1,300	360	2,800	<1,000	---	Operating	
	9/27/2004	23.65	---	139.29	5,200 <sup>d</sup>	1,700 <sup>ef</sup>	---	430	220	100	680	250	0.55	Operating	
	12/27/2004	14.58	---	148.36	32,000 <sup>de</sup>	24,000 <sup>efzk</sup>	---	4,400	2,800	650	4,800	<250	0.71	Not operating	
	3/7/2005	6.91	Sheen	156.03	50,000 <sup>de</sup>	14,000 <sup>efg</sup>	---	6,100	2,100	1,300	7,400	<500	0.62	Not operating	
	6/21/2005	10.79	---	152.15	44,000 <sup>de</sup>	12,000 <sup>de</sup>	---	4,900	870	1,100	6,500	<1,200	---	Not operating	
MW-4 97.34	3/20/1997	13.75	---	83.59	47,000	3,100	---	11,000	4,500	1,100	5,200	3,400	8.4		
	6/25/1997	16.15	---	81.19	61,000	5,800 <sup>b</sup>	---	16,000	6,100	1,500	5,900	780 <sup>e</sup>	1.4		
	9/17/1997	17.10	---	80.24	60,000 <sup>d</sup>	4,400 <sup>e</sup>	---	17,000	4,900	1,500	5,700	<1,500	1.5		
	12/22/1997	9.21	---	88.13	43,000 <sup>d</sup>	3,100 <sup>e</sup>	---	13,000	3,900	1,100	4,200	<960	3.7		
	3/18/1998	9.54	---	87.80	58,000 <sup>d</sup>	5,500 <sup>ef</sup>	---	14,000	4,700	1,400	5,700	<1,200	0.8		
	7/14/1998	14.15	---	83.19	73,000 <sup>d</sup>	2,900 <sup>ef</sup>	---	22,000	7,000	1,800	7,300	<200	1.0		
	9/30/1998	16.84	---	80.50	39,000	2,100	---	12,000	2,700	1,000	3,400	510	1.1		
	12/8/1998	13.45	---	83.89	27,000	1,600	---	8,900	1,600	730	2,300	<1,500	---		
	3/29/1999	9.10	---	88.24	48,000 <sup>d</sup>	2,400 <sup>efh</sup>	---	15,000	3,000	1,300	5,000	1,300	1.32		
	06/29/99*	---	---	---	---	---	---	---	---	---	---	---	---		
	9/28/1999	16.58	---	80.76	24,000 <sup>d</sup>	3,200 <sup>ef</sup>	---	7,500	1,200	190	2,200	210	14.29 <sup>f</sup>		
	12/10/1999	13.99	---	83.35	47,000 <sup>d</sup>	3,100 <sup>ef</sup>	---	12,000	1,800	1,000	4,400	<100	0.62		
	3/23/2000	10.22	---	87.12	40,000 <sup>d</sup>	3,100 <sup>ef</sup>	---	11,000	1,600	910	3,100	690	---		
	9/7/2000	16.40	---	80.94	43,000 <sup>d</sup>	5,900 <sup>e</sup>	---	10,000	1,100	1,100	3,400	<450	1.04		
12/5/2000	15.55	---	81.79	69,000 <sup>de</sup>	2,600 <sup>ef</sup>	---	16,000	1,300	1,300	3,400	<200	0.35	Not operating		

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**Table 1. Groundwater Elevations and Analytical Data - Former Exxon Service Station, 3055 35th Avenue, Oakland, California**

Well ID	Date	GW	SPH	GW	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DO	TPE System			
		Depth (ft)		Elev. (ft)											Concentrations in micrograms per liter (µg/L)		
TOC			(ft)													(mg/L)	Status
MW-4	3/20/2001	14.03	---	83.31	46,000	---	---	13,000	1,000	900	2,800	<350	0.39	Not operating			
Continued	6/6/2001	15.49	---	81.85	75,000	5,400	---	22,000	1,800	1,900	6,400	<1,200	2.22	Not operating			
	8/30/2001	18.00	---	79.34	43,000 <sup>a</sup>	3,200 <sup>d</sup>	---	6,400	630	510	2,600	<200	0.32	Operating			
	12/7/2001	23.45	---	73.89	32,000 <sup>d,g</sup>	11,000 <sup>e,f,g</sup>	---	4,500	740	310	2,300	<200	0.21	Operating			
	3/11/2002	14.95	---	82.39	15,000 <sup>d</sup>	1,600 <sup>e,tk</sup>	---	3,700	500	92	790	<500	0.30	Operating			
	6/10/2002	22.30	---	75.04	9,400 <sup>d</sup>	3,400 <sup>e</sup>	---	1,400	50	<5.0	690	<200	---	Operating			
	9/26/2002	17.93	---	79.41	21,000 <sup>d</sup>	800 <sup>e</sup>	---	3,300	1,300	450	2,900	<500	0.24	Operating			
	11/21/2002	17.55	---	79.79	5,700 <sup>d</sup>	2,400 <sup>e,k</sup>	---	1,400	290	63	640	550	---	Operating			
	1/13/2003	11.75	---	85.59	35,000 <sup>d,g</sup>	15,000 <sup>e,f,g,k</sup>	---	5,100	1,500	510	4,500	<800	0.28	Not operating			
	4/25/2003	19.37	---	77.97	6,600 <sup>d</sup>	2,200 <sup>e,f</sup>	---	960	130	100	560	<170	---	Operating			
	5/30/2003	13.56	---	83.78	---	---	---	---	---	---	---	---	---	Not operating			
	9/3/2003	21.65	---	75.69	29,000 <sup>d</sup>	27,000 <sup>e,f</sup>	---	2,200	380	280	2,300	65	---	Operating			
	12/2/2003	19.17	---	78.17	13,000 <sup>d</sup>	5,800 <sup>e,f</sup>	---	1,300	180	120	1,900	<250	---	Operating			
	3/18/2004	14.92	---	82.42	5,300 <sup>d</sup>	1,500 <sup>e</sup>	---	1,300	55	37	440	<180	---	Operating			
163.49	6/16/2004	16.02	---	147.47	9,100 <sup>d</sup>	3,400 <sup>e,f</sup>	---	940	96	120	800	<50	---	Not operating			
	9/27/2004	19.93	---	143.56	1,300 <sup>d</sup>	980 <sup>e,tk</sup>	---	140	10	11	81	<50	0.68	Not operating			
	12/27/2004	14.79	---	148.70	10,000 <sup>d,g</sup>	5,300 <sup>e,f,g,k</sup>	---	1,000	99	34	1,600	<50	0.74	Not operating			
	3/7/2005	7.81	Sheen	155.68	15,000 <sup>d,g</sup>	9,300 <sup>e,f,g</sup>	---	1,100	140	88	1,900	<100	0.65	Not operating			
	6/21/2005	11.82	---	151.67	30,000 <sup>d,g</sup>	12,000 <sup>e,g</sup>	---	3,300	270	250	2,800	<500	---	Not operating			
RW-5	6/16/2004	14.73	---	147.61	---	---	---	---	---	---	---	---	---	Not operating			
162.34	9/27/2004	25.55**	---	136.79	---	---	---	---	---	---	---	---	---	Operating			
	12/27/2004	10.45	---	151.89	---	---	---	---	---	---	---	---	---	Not operating			
	3/7/2005	4.42	Sheen	157.92	7,000 <sup>d</sup>	6,100 <sup>e,tk</sup>	---	720	63	97	670	<400	0.93	Not operating			
	6/21/2005	10.02	---	152.32	11,000 <sup>d</sup>	490 <sup>e</sup>	---	1,200	67	68	690	<500	---	Not operating			
RW-6	6/16/2004	14.80	---	147.56	---	---	---	---	---	---	---	---	---	Not operating			
162.36	9/27/2004	18.46	---	143.90	---	---	---	---	---	---	---	---	---	Not operating			
	12/27/2004	9.82	---	152.54	---	---	---	---	---	---	---	---	---	Not operating			
	3/7/2005	6.05	---	156.31	---	---	---	---	---	---	---	---	---	Not operating			
	6/21/2005	10.13	---	152.23	---	---	---	---	---	---	---	---	---	Not operating			
RW-7	6/16/2004	15.22	---	147.50	---	---	---	---	---	---	---	---	---	Not operating			
162.72	9/27/2004	18.98	---	143.74	---	---	---	---	---	---	---	---	---	Not operating			
	12/27/2004	9.85	---	152.87	---	---	---	---	---	---	---	---	---	Not operating			
	3/7/2005	5.82	---	156.90	---	---	---	---	---	---	---	---	---	Not operating			
	6/21/2005	10.85	---	151.87	---	---	---	---	---	---	---	---	---	Not operating			
RW-8	6/16/2004	16.41	---	147.72	---	---	---	---	---	---	---	---	---	Not operating			
164.13	9/27/2004	19.74	---	144.39	---	---	---	---	---	---	---	---	---	Not operating			

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**Table 1. Groundwater Elevations and Analytical Data - Former Exxon Service Station, 3055 35th Avenue, Oakland, California**

Well ID	Date	GW Depth (ft)	SPH (ft)	GW Elev. (ft)	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DO (mg/L)	TPE System Status
TOC					Concentrations in micrograms per liter (µg/L)									
RW-8	12/27/2004	12.32	---	151.81	---	---	---	---	---	---	---	---	---	Not operating
Continued	3/7/2005	8.10	---	156.03	---	---	---	---	---	---	---	---	---	Not operating
	6/21/2005	12.15	---	151.98	---	---	---	---	---	---	---	---	---	Not operating
RW-9	6/16/2004	16.03	---	147.83	---	---	---	---	---	---	---	---	---	Not operating
163.86	9/27/2004	19.83	---	144.03	---	---	---	---	---	---	---	---	---	Not operating
	12/27/2004	24.88	---	138.98	---	---	---	---	---	---	---	---	---	Not operating
	3/7/2005	7.87	---	155.99	9,000 <sup>d</sup>	510 <sup>e</sup>	---	2,600	69	200	550	<500	0.91	Not operating
	6/21/2005	11.90	---	151.96	9,400 <sup>d</sup>	630 <sup>e</sup>	---	2,400	69	210	470	<350	---	Not operating
RW-10	6/16/2004	15.03	---	147.99	---	---	---	---	---	---	---	---	---	Not operating
163.02	9/27/2004	18.35	---	144.67	---	---	---	---	---	---	---	---	---	Not operating
	12/27/2004	19.39	---	143.63	---	---	---	---	---	---	---	---	---	Not operating
	3/7/2005	6.40	---	156.62	---	---	---	---	---	---	---	---	---	Not operating
	6/21/2005	10.95	---	152.07	---	---	---	---	---	---	---	---	---	Not operating
RW-11	6/16/2004	14.75	---	147.82	---	---	---	---	---	---	---	---	---	Not operating
162.57	9/27/2004	18.44	---	144.13	---	---	---	---	---	---	---	---	---	Not operating
	12/27/2004	10.07	---	152.50	---	---	---	---	---	---	---	---	---	Not operating
	3/7/2005	5.95	---	156.62	---	---	---	---	---	---	---	---	---	Not operating
	6/21/2005	9.96	---	152.61	---	---	---	---	---	---	---	---	---	Not operating
RW-12	6/16/2004	15.30	---	147.76	---	---	---	---	---	---	---	---	---	Not operating
163.06	9/27/2004	19.09	---	143.97	---	---	---	---	---	---	---	---	---	Not operating
	12/27/2004	10.85	---	152.21	---	---	---	---	---	---	---	---	---	Not operating
	3/7/2005	6.59	---	156.47	---	---	---	---	---	---	---	---	---	Not operating
	6/21/2005	10.58	---	152.48	---	---	---	---	---	---	---	---	---	Not operating
RW-13	6/16/2004	15.83	---	148.51	---	---	---	---	---	---	---	---	---	Not operating
164.34	9/27/2004	19.55	---	144.79	---	---	---	---	---	---	---	---	---	Not operating
	12/27/2004	18.12	---	146.22	---	---	---	---	---	---	---	---	---	Not operating
	3/7/2005	6.90	---	157.44	---	---	---	---	---	---	---	---	---	Not operating
	6/21/2005	11.05	---	153.29	---	---	---	---	---	---	---	---	---	Not operating
RW-14	6/16/2004	15.41	---	148.35	---	---	---	---	---	---	---	---	---	Not operating
163.76	9/27/2004	19.20	---	144.56	---	---	---	---	---	---	---	---	---	Not operating
	12/27/2004	12.62	---	151.14	---	---	---	---	---	---	---	---	---	Not operating
	3/7/2005	6.61	---	157.15	---	---	---	---	---	---	---	---	---	Not operating
	6/21/2005	10.80	---	152.96	---	---	---	---	---	---	---	---	---	Not operating

# CAMBRIA

**Table 1. Groundwater Elevations and Analytical Data - Former Exxon Service Station, 3055 35th Avenue, Oakland, California**

Well ID	Date	GW	SPH	GW	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DO	TPE System
TOC		Depth (ft)	(ft)	Elev. (ft)	Concentrations in micrograms per liter (µg/L)								(mg/L)	Status
Trip Blank	7/14/1998	---	---	---	<50	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	
	9/30/1998	---	---	---	<50	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	
	12/8/1998	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	
	3/29/1999	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	
	6/29/1999	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	
	3/23/2000	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	<5.0	---	
	9/7/2000	---	---	---	<50	---	---	<0.5	1.1	<0.5	1.1	<5.0	---	

**Methods and Abbreviations:**

TOC = Top of casing elevation measured in feet relative to surveyor's datum.

All site wells were re-surveyed by Virgil Chavez Land Surveying on June 2, 2004 to the CA State Coordinate System, Zone III (NAD83). Benchmark elevation = 177.397 feet (NGVD 29)

GW Depth = Groundwater depth measured from TOC.

GW Elev. = Groundwater elevation

ft = Measured in feet

SPH = Separate-phase hydrocarbons depth measured from TOC.

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

TPHmo = Total petroleum hydrocarbons as motor oil by modified EPA Method 8015

Benzene, Toluene, Ethylbenzene, and Xylenes by EPA Method 8021

MTBE = Methyl tertiary-butyl ether by EPA Method 8021

DO = Dissolved oxygen

µg/L = Micrograms per liter, equivalent to parts per billion in water

mg/L = Milligrams per liter, equivalent to parts per million in water

TPE = Two-phase extraction

--- = Not observed/not analyzed

\* = Well inaccessible during site visit

\*\* = No water in well due to system operating in well, value reflects total well depth.

# = abnormally high reading due to added hydrogen peroxide

**Notes:**

a = Result has an atypical pattern for diesel analysis

b = Result appears to be a lighter hydrocarbon than diesel

c = There is a >40% difference between primary and confirmation analysis

d = Unmodified or weakly modified gasoline is significant

e = Gasoline range compounds are significant

f = Diesel range compounds are significant; no recognizable pattern

g = Lighter than water immiscible sheen is present

h = One to a few isolated peaks present

i = Medium boiling point pattern does not match diesel (stoddard solvent)

j = Aged diesel is significant

k = Oil range compounds are significant



## WELL GAUGING SHEET

Client: Cambria Environmental Technology Inc.

Site  
Address: 3055 35th Street Oakland, CA

Date: 6/21/2005

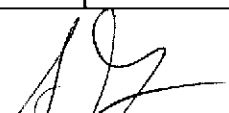
Signature: 

Well ID	Time	Depth to SPH	Depth to Water	SPH Thickness	Depth to Bottom	Comments
MW-1	7:45		14.60		27.38	
MW-2	7:55		13.42		27.59	
MW-3	8:00		10.79		25.16	
MW-4	7:50		11.82		30.22	
RW-5	7:30		10.02		25.61	
RW-6	7:20		10.13		25.33	
RW-7	6:55		10.85		29.11	
RW-8	7:15		12.15		29.02	
RW-9	7:40		11.90		25.26	
RW-10	7:25		10.95		24.90	
RW-11	7:10		9.96		24.95	





## WELL SAMPLING FORM

<b>Date:</b>		6/21/2005				
<b>Client:</b>		Cambria Environmental Technology Inc.				
<b>Site Address:</b>		3055 35th Street Oakland, CA				
<b>Well ID:</b>		MW-1				
<b>Well Diameter:</b>		4"				
<b>Purging Device:</b>		4" PVC Bailer				
<b>Sampling Method:</b>		Disposable Bailer				
<b>Total Well Depth:</b>		27.38		<b>Fe=</b> mg/L		
<b>Depth to Water:</b>		14.60		<b>ORP=</b> mV		
<b>Water Column Height:</b>		12.78		<b>DO=</b> 0.97 mg/L		
<b>Gallons/ft:</b>		0.65				
<b>1 Casing Volume (gal):</b>		8.31		<b>COMMENTS:</b>		
<b>3 Casing Volumes (gal):</b>		24.92				
<b>TIME:</b>	<b>CASING VOLUME (gal)</b>	<b>TEMP (Celsius)</b>	<b>pH</b>		<b>COND. (µS)</b>	
9:35	8.3	24.9	7.08		613	
9:45	16.6	25.0	7.10		629	
9:55	24.9	25.0	7.12	635		
<b>Sample ID:</b>	<b>Date:</b>	<b>Time</b>	<b>Container Type</b>	<b>Preservative</b>	<b>Analytes</b>	<b>Method</b>
MW-1	6/21/2005	10:00	Voa, Amber	HCl, ICE	TPHg, BTEX, MTBE, TPHd with silica gel clean up	8015, 8020
				<b>Signature:</b>		





## WELL SAMPLING FORM

<b>Date:</b> 6/21/2005						
<b>Client:</b> Cambria Environmental Technology Inc.						
<b>Site Address:</b> 3055 35th Street Oakland, CA						
<b>Well ID:</b> MW-2						
<b>Well Diameter:</b> 4"						
<b>Purging Device:</b> 4" PVC Bailer						
<b>Sampling Method:</b> Disposable Bailer						
<b>Total Well Depth:</b>	27.59					
<b>Depth to Water:</b>	13.42					
<b>Water Column Height:</b>	14.17					
<b>Gallons/ft:</b>	0.65					
<b>1 Casing Volume (gal):</b>	9.21					
<b>3 Casing Volumes (gal):</b>	27.63					
<b>Fe=</b> <b>mg/L</b>						
<b>ORP=</b> <b>mV</b>						
<b>DO=</b> <b>0.93 mg/L</b>						
<b>COMMENTS:</b> Well deatered at 10:35. Well recharged to 14.09 at 2:00.						
<b>TIME:</b>	<b>CASING VOLUME (gal)</b>	<b>TEMP (Celsius)</b>	<b>pH</b>	<b>COND. (µS)</b>		
10:30	9	24.6	7.17	581		
10:35	13	Dewatered				
2:10		24.9	7.29	620		
<b>Sample ID:</b>	<b>Date:</b>	<b>Time</b>	<b>Container Type</b>	<b>Preservative</b>	<b>Analytes</b>	<b>Method</b>
MW-2	6/21/2005	2:15	Voa, Amber	HCl, ICE	TPHg, BTEX, MTBE, TPHd with silica gel clean up	8015, 8020
<b>Signature:</b>						



# WELL SAMPLING FORM

<b>Date:</b>		6/21/2005					
<b>Client:</b>		Cambria Environmental Technology Inc.					
<b>Site Address:</b>		3055 35th Street Oakland, CA					
<b>Well ID:</b>		MW-3					
<b>Well Diameter:</b>		2"					
<b>Purging Device:</b>		Disposable Bailer					
<b>Sampling Method:</b>		Disposable Bailer					
<b>Total Well Depth:</b>		25.16		<b>Fe=</b> mg/L			
<b>Depth to Water:</b>		10.79		<b>ORP=</b> mV			
<b>Water Column Height:</b>		14.37		<b>DO=</b> 0.82 mg/L			
<b>Gallons/ft:</b>		0.16					
<b>1 Casing Volume (gal):</b>		2.30		<b>COMMENTS:</b> Turbid, sheen, odor. Well dewatered at 11:17. Recharged to 11.41 at 2:50			
<b>3 Casing Volumes (gal):</b>		6.90					
<b>TIME:</b>	<b>CASING VOLUME (gal)</b>	<b>TEMP (Celsius)</b>	<b>pH</b>				<b>COND. (µS)</b>
11:15	2	25.3	7.24				638
11:17	3	Dewatered					
2:55		25.7	7.09				694
<b>Sample ID:</b>	<b>Date:</b>	<b>Time</b>	<b>Container Type</b>	<b>Preservative</b>	<b>Analytes</b>	<b>Method</b>	
MW-3	6/21/2005	3:00	Voa, Amber	HCl, ICE	TPHg, BTEX, MTBE, TPHd with silica gel clean up	8015, 8020	
<b>Signature:</b>							



## WELL SAMPLING FORM

<b>Date:</b>		6/21/2005						
<b>Client:</b>		Cambria Environmental Technology Inc.						
<b>Site Address:</b>		3055 35th Street Oakland, CA						
<b>Well ID:</b>		MW-4						
<b>Well Diameter:</b>		2"						
<b>Purging Device:</b>		Disposable Bailer						
<b>Sampling Method:</b>		Disposable Bailer						
<b>Total Well Depth:</b>		30.22	<b>Fe=</b>		mg/L			
<b>Depth to Water:</b>		11.82	<b>ORP=</b>		mV			
<b>Water Column Height:</b>		18.40	<b>DO=</b>		0.81 mg/L			
<b>Gallons/ft:</b>		0.16						
<b>1 Casing Volume (gal):</b>		2.94	<b>COMMENTS:</b> Turbid, Sheen					
<b>3 Casing Volumes (gal):</b>		8.83						
<b>TIME:</b>	<b>CASING VOLUME (gal)</b>	<b>TEMP (Celsius)</b>					<b>pH</b>	<b>COND. (µS)</b>
10:45	2.9	24.7					6.92	849
10:50	5.9	24.9					6.95	875
10:55	8.8	25.1	6.98	899				
<b>Sample ID:</b>	<b>Date:</b>	<b>Time</b>	<b>Container Type</b>	<b>Preservative</b>	<b>Analytes</b>	<b>Method</b>		
MW-4	6/21/2005	11:00	Voa, Amber	HCl, ICE	TPHg, BTEX, MTBE, TPHd with silica gel clean up	8015, 8020		
				<b>Signature:</b>				



## WELL SAMPLING FORM

<b>Date:</b>		6/21/2005				
<b>Client:</b>		Cambria Environmental Technology Inc.				
<b>Site Address:</b>		3055 35th Street Oakland, CA				
<b>Well ID:</b>		RW-5				
<b>Well Diameter:</b>		4"				
<b>Purging Device:</b>		4" PVC Bailer				
<b>Sampling Method:</b>		Disposable Bailer				
<b>Total Well Depth:</b>		25.61	<b>Fe=</b> <b>mg/L</b>			
<b>Depth to Water:</b>		10.02	<b>ORP=</b> <b>mV</b>			
<b>Water Column Height:</b>		15.59	<b>DO=</b> 1.02 mg/L			
<b>Gallons/ft:</b>		0.65				
<b>1 Casing Volume (gal):</b>		10.13	<b>COMMENTS:</b> Turbid, sheen. Well dewatered at 11:40. Recharged to 10.97 at 2:35			
<b>3 Casing Volumes (gal):</b>		30.40				
<b>TIME:</b>	<b>CASING VOLUME (gal)</b>	<b>TEMP (Celsius)</b>			<b>pH</b>	<b>COND. (µS)</b>
11:35	10	24.9			6.92	427
11:40	13	Dewatered				
2:40		25.4	7.03	469		

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
RW-5	6/21/2005	2:45	Voa, Amber	HCl, ICE	TPHg, BTEX, MTBE, TPHd with silica gel clean up	8015, 8020

**Signature:**



## WELL SAMPLING FORM

<b>Date:</b> 6/21/2005																															
<b>Client:</b> Cambria Environmental Technology Inc.																															
<b>Site Address:</b> 3055 35th Street Oakland, CA																															
<b>Well ID:</b> RW-9																															
<b>Well Diameter:</b> 4"																															
<b>Purging Device:</b> 4" PVC bailer																															
<b>Sampling Method:</b> Disposable Bailer																															
<b>Total Well Depth:</b> 25.26	<b>Fe=</b> mg/L																														
<b>Depth to Water:</b> 11.90	<b>ORP=</b> mV																														
<b>Water Column Height:</b> 13.36	<b>DO=</b> 1.16 mg/L																														
<b>Gallons/ft:</b> 0.65																															
<b>1 Casing Volume (gal):</b> 8.68	<b>COMMENTS:</b> Turbid																														
<b>3 Casing Volumes (gal):</b> 26.05																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>TIME:</th> <th>CASING VOLUME (gal)</th> <th>TEMP (Celsius)</th> <th>pH</th> <th>COND. (µS)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">8:35</td> <td style="text-align: center;">8.7</td> <td style="text-align: center;">25.7</td> <td style="text-align: center;">7.28</td> <td style="text-align: center;">520</td> </tr> <tr> <td style="text-align: center;">8:45</td> <td style="text-align: center;">17.4</td> <td style="text-align: center;">25.4</td> <td style="text-align: center;">7.21</td> <td style="text-align: center;">548</td> </tr> <tr> <td style="text-align: center;">8:55</td> <td style="text-align: center;">26.1</td> <td style="text-align: center;">25.5</td> <td style="text-align: center;">7.23</td> <td style="text-align: center;">561</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)	8:35	8.7	25.7	7.28	520	8:45	17.4	25.4	7.21	548	8:55	26.1	25.5	7.23	561											
TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)																											
8:35	8.7	25.7	7.28	520																											
8:45	17.4	25.4	7.21	548																											
8:55	26.1	25.5	7.23	561																											
<b>Sample ID:</b>	<b>Date:</b>	<b>Time</b>	<b>Container Type</b>	<b>Preservative</b>	<b>Analytes</b>	<b>Method</b>																									
RW-9	6/21/2005	9:00	Voa, Amber	HCl, ICE	TPHg, BTEX, MTBE, TPHd with silica gel clean up	8015, 8020																									
<b>Signature:</b>																															



# McC Campbell Analytical, Inc.

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

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #130-0105; Worthington	Date Sampled: 06/21/05
		Date Received: 06/21/05
	Client Contact: Subbarao Nagulapaty	Date Reported: 06/30/05
	Client P.O.:	Date Completed: 06/30/05

**WorkOrder: 0506391**

June 30, 2005

Dear Subbarao:

Enclosed are:

- 1). the results of 6 analyzed samples from your #130-0105; **Worthington 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. McC Campbell 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



# McC Campbell Analytical, Inc.

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

Cambria Env. Technology  5900 Hollis St, Suite A  Emeryville, CA 94608	Client Project ID: #130-0105; Worthington	Date Sampled: 06/21/05
		Date Received: 06/21/05
	Client Contact: Subbarao Nagulapaty	Date Extracted: 06/24/05
	Client P.O.:	Date Analyzed: 06/24/05

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0506391

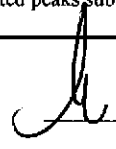
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	6500,a	ND<250	820	26	57	110	50	95
002A	MW-2	W	36,000,a,h	1200	1700	310	460	3100	100	96
003A	MW-3	W	44,000,a,h	ND<1200	4900	870	1100	6500	100	107
004A	MW-4	W	30,000,a,h	ND<500	3300	270	250	2800	100	98
005A	RW-5	W	11,000,a	ND<500	1200	67	68	690	100	92
006A	RW-9	W	9400,a	ND<350	2400	69	210	470	10	108

Reporting Limit for DF=1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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

 Angela Rydelius, Lab Manager



# McC Campbell Analytical, Inc.

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

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #130-0105; Worthington	Date Sampled: 06/21/05
		Date Received: 06/21/05
	Client Contact: Subbarao Nagulapaty	Date Extracted: 06/23/05
	Client P.O.:	Date Analyzed: 06/24/05-06/29/05

### Diesel Range (C10-C23) Extractable Hydrocarbons with Silica Gel Clean-Up\*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0506391


Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0506391-001B	MW-1	W	930,d,g	1	105
0506391-002B	MW-2	W	15,000,d,b,h	10	--#
0506391-003B	MW-3	W	12,000,d,h	1	117
0506391-004B	MW-4	W	12,000,d,h	1	116
0506391-005B	RW-5	W	490,d	1	92
0506391-006B	RW-9	W	630,d	1	94

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

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

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

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

 Angela Rydelius, Lab Manager





QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0506391

Analyte	EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 16765			Spiked Sample ID: 0506396-005A	
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) <sup>£</sup>	ND	60	101	100	0.421	101	103	2.04	70 - 130	70 - 130
MTBE	ND	10	119	118	0.921	119	118	0.853	70 - 130	70 - 130
Benzene	ND	10	100	102	1.61	111	111	0	70 - 130	70 - 130
Toluene	ND	10	103	104	1.82	113	111	1.55	70 - 130	70 - 130
Ethylbenzene	ND	10	103	105	2.16	112	112	0	70 - 130	70 - 130
Xylenes	ND	30	103	107	3.17	113	113	0	70 - 130	70 - 130
%SS:	98	10	89	88	1.03	100	102	1.76	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 16765 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0506391-001A	6/21/05	6/24/05	6/24/05 5:16 AM	0506391-002A	6/21/05 2:15 PM	6/24/05	6/24/05 12:46 AM
0506391-003A	6/21/05 3:00 PM	6/24/05	6/24/05 3:14 AM	0506391-004A	6/21/05 11:00 AM	6/24/05	6/24/05 3:44 AM
0506391-005A	6/21/05 2:45 PM	6/24/05	6/24/05 4:13 AM	0506391-006A	6/21/05 9:00 AM	6/24/05	6/24/05 5:12 AM

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

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

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

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

QA/QC Officer



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0506391

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 16730			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.5	107	7.05	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	108	120	9.76	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 16730 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0506391-001B	6/21/05	6/23/05	6/24/05 3:27 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 % Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).  
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.  
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer



### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0506391

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 16766			Spiked Sample ID: N/A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	106	104	1.82	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	92	92	0	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

#### BATCH 16766 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0506391-002B	6/21/05 2:15 PM	6/23/05	6/29/05 9:36 AM	0506391-003B	6/21/05 3:00 PM	6/23/05	6/24/05 5:40 PM
0506391-004B	6/21/05 11:00 AM	6/23/05	6/24/05 7:54 PM	0506391-005B	6/21/05 2:45 PM	6/23/05	6/24/05 11:14 PM
0506391-006B	6/21/05 9:00 AM	6/23/05	6/24/05 10:07 PM				

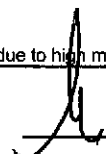
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

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

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

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

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

 QA/QC Officer

0506391

**McCAMPBELL ANALYTICAL, INC.**

110 2<sup>nd</sup> AVENUE SOUTH, #D7  
PACHECO, CA 94553-5560

Website: [www.mccampbell.com](http://www.mccampbell.com) Email: [main@mccampbell.com](mailto:main@mccampbell.com)  
Telephone: (925) 798-1620 Fax: (925) 798-1622

**CHAIN OF CUSTODY RECORD**

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DA

EDF Required?  Yes  No

Report To: Subbarao Nagulapati Bill To: Cambria Environmental Technology

Company: Cambria Environmental Technology

5900 Hollis St. Ste A

Emeryville, CA 94608

E-Mail: snagulapati@cambria-env.com

Tele: 510-420-3361

Fax: (510) 420-9170

Project #: 130-0105

Project Name: Worthington

Project Location: 3055 35th St Oakland CA

Sampler Signature: Muskan Environmental Sampling

**Analysis Request**

Other

Comment

MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	
MTBE / BTEX ONLY (EPA 602 / 8021)	
TPH as Diesel <del>Hydrocarbon</del> (8015) WITH <u>31 Viewgraph</u> Cleanup	
Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	
Total Petroleum Hydrocarbons (418.1)	
EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	
EPA 505 / 608 / 8081 (CI Pesticides)	
EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	
EPA 507 / 8141 (NP Pesticides)	
EPA 515 / 8151 (Acidic CI Herbicides)	
EPA 824.2 / 624 / 8260 (VOCs)	
Fuel Additives (MTBE, ETBE, TAME, DIPEL, TBA, 1,2 - DCA, 1,2 - EDB, ethanol) by 8260B	
TPHig by 8015 M	
VOCs and fuel additives by 8260	
TPHig / BTEX & MTBE by (8015 / 8020)	

Filter Samples for Metals analysis: Yes / No

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED			
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO <sub>3</sub>	Other

MN-1		6/21/05	10:00	2	300 Camb	X						X	X						
MN-2			2:15																
MN-3			3:00																
MN-4			11:00																
RW-5			2:45																
RW-9			9:00	X	X							X	X						
TR				X	1000							X	X						Hold

Relinquished By: <u>[Signature]</u>	Date: <u>6/21/05</u>	Time: <u>4:13</u>	Received By: <u>[Signature]</u>
Relinquished By:	Date:	Time:	Received By:

centrifuge and decant before analysis

ICE# ✓  
GOOD CONDITION ✓  
HEAD SPACE ABSENT ✓  
DECHLORINATED IN LAB ✓  
APPROPRIATE CONTAINERS ✓  
PRESERVED IN LAB ✓

PRESERVATION	VOAS <u>✓</u>	O&G	METALS	OTHER
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**McC Campbell Analytical, Inc.**



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

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0506391

ClientID: CETE

**Report to:**

Subbarao Nagulapaty  
 Cambria Env. Technology  
 5900 Hollis St, Suite A  
 Emeryville, CA 94608

TEL: (510) 420-0700  
 FAX: (510) 420-9170  
 ProjectNo: #130-0105; Worthington  
 PO:

**Bill to:**

Accounts Payable  
 Cambria Env. Technology  
 5900 Hollis St, Ste. A  
 Emeryville, CA 94608

Requested TAT:

5 days

Date Received: 06/21/2005

Date Printed: 06/22/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0506391-001	MW-1	Water	6/21/05	<input type="checkbox"/>	A	A	B												
0506391-002	MW-2	Water	6/21/05 2:15:00 PM	<input type="checkbox"/>	A		B												
0506391-003	MW-3	Water	6/21/05 3:00:00 PM	<input type="checkbox"/>	A		B												
0506391-004	MW-4	Water	6/21/05 11:00:00	<input type="checkbox"/>	A		B												
0506391-005	RW-5	Water	6/21/05 2:45:00 PM	<input type="checkbox"/>	A		B												
0506391-006	RW-9	Water	6/21/05 9:00:00 AM	<input type="checkbox"/>	A		B												

**Test Legend:**

1	G-MBTEX_W	2	PREF REPORT	3	TPH(D)WSG_W	4		5	
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Maria Venegas

**Comments:**

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

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**Processing is complete. No errors were found!  
Your file has been successfully submitted!**

**Submittal Title:                    2nd Qtr GeoWell data**  
**Submittal Date/Time:        7/28/2005 2:28:27 PM**  
**Confirmation Number:       6112592935**

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**Confirmation Number:** 3953364253

**Date/Time of Submittal:** 7/15/2005 3:51:08 PM

**Facility Global ID:** T0600100538

**Facility Name:** EXXON

**Submittal Title:** 2nd Qtr 2005 GW Analytical Data Worthington

**Submittal Type:** GW Monitoring Report

Click [here](#) to view the detections report for this upload.

<b>EXXON</b> 3055 35TH AVE OAKLAND, CA 94619	<b>Regional Board - Case #: 01-0585</b> SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) <b>Local Agency (lead agency) - Case #: 515</b> ALAMEDA COUNTY LOP - (AG)
--	--

CONF #	TITLE	QUARTER
3953364253	2nd Qtr 2005 GW Analytical Data Worthington	Q2 2005
<b>SUBMITTED BY</b>	<b>SUBMIT DATE</b>	<b>STATUS</b>
Matt Meyers	7/15/2005	PENDING REVIEW

**SAMPLE DETECTIONS REPORT**

# FIELD POINTS SAMPLED	6
# FIELD POINTS WITH DETECTIONS	6
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	6
SAMPLE MATRIX TYPES	WATER

**METHOD QA/QC REPORT**

METHODS USED	SW8015B,SW8021F
TESTED FOR REQUIRED ANALYTES?	N

MISSING PARAMETERS NOT TESTED:

- SW8015B REQUIRES ETBE TO BE TESTED
- SW8015B REQUIRES TAME TO BE TESTED
- SW8015B REQUIRES DIPE TO BE TESTED
- SW8015B REQUIRES TBA TO BE TESTED
- SW8015B REQUIRES DCA12 TO BE TESTED
- SW8015B REQUIRES EDB TO BE TESTED
- SW8021F REQUIRES ETBE TO BE TESTED
- SW8021F REQUIRES TAME TO BE TESTED
- SW8021F REQUIRES DIPE TO BE TESTED
- SW8021F REQUIRES TBA TO BE TESTED
- SW8021F REQUIRES DCA12 TO BE TESTED
- SW8021F REQUIRES EDB TO BE TESTED

LAB NOTE DATA QUALIFIERS	N
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**QA/QC FOR 8021/8260 SERIES SAMPLES**

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	Y
- LAB METHOD BLANK	Y

- MATRIX SPIKE	N
- MATRIX SPIKE DUPLICATE	N
- BLANK SPIKE	Y
- SURROGATE SPIKE - NON-STANDARD SURROGATE USED	Y

**WATER SAMPLES FOR 8021/8260 SERIES**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

**SOIL SAMPLES FOR 8021/8260 SERIES**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

**FIELD QC SAMPLES**

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS &gt; REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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**YOUR DOCUMENT UPLOAD WAS SUCCESSFUL!**

**Facility Name:** EXXON  
**Global ID:** T0600100538  
**Title:** Groundwater Monitoring Report - Second Quarter 2005  
**Document Type:** Monitoring Report - Quarterly  
**Submittal Type:** GEO\_REPORT  
**Submittal Date/Time:** 7/29/2005 1:03:19 PM  
**Confirmation Number:** 9168439567

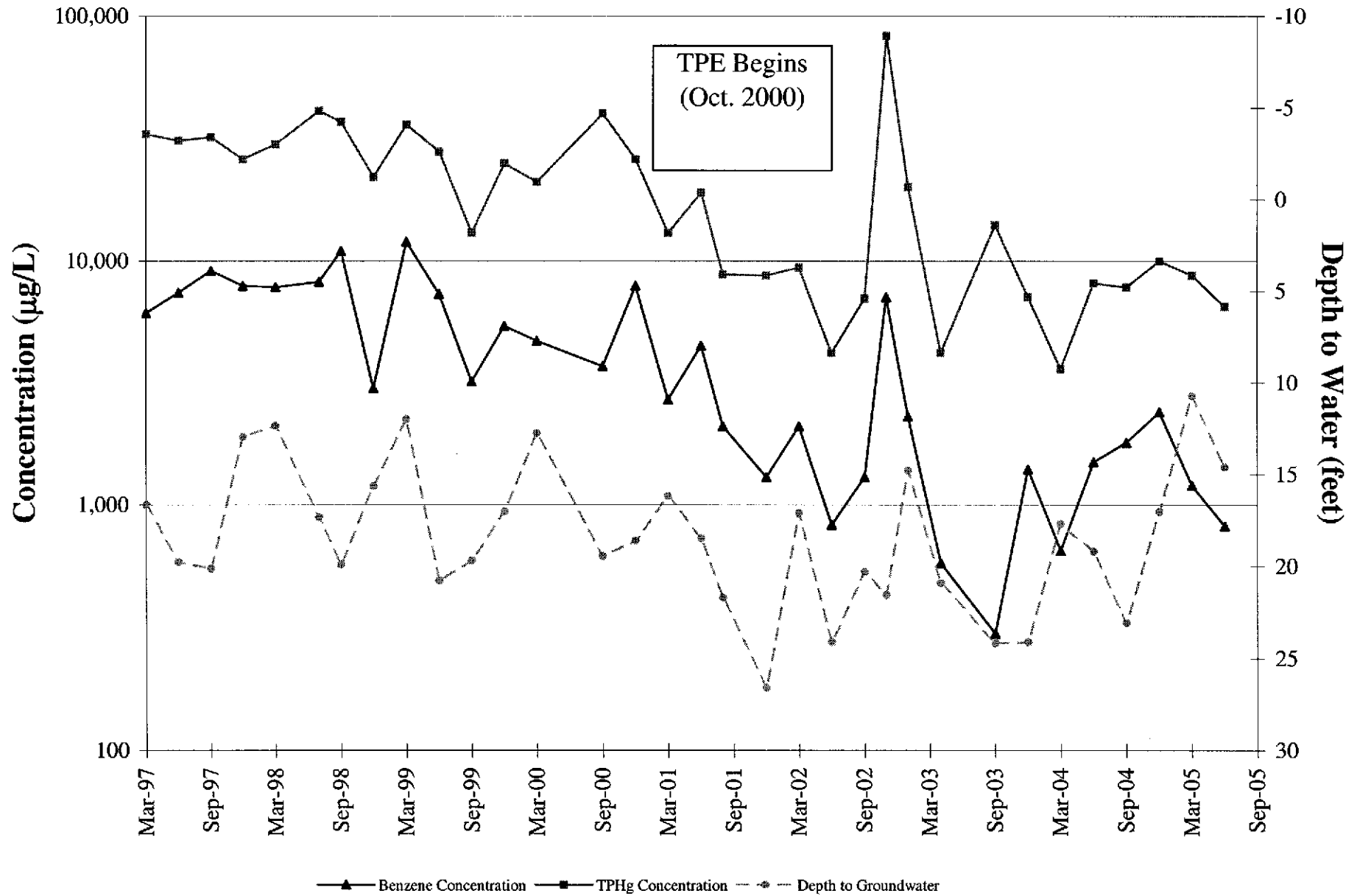
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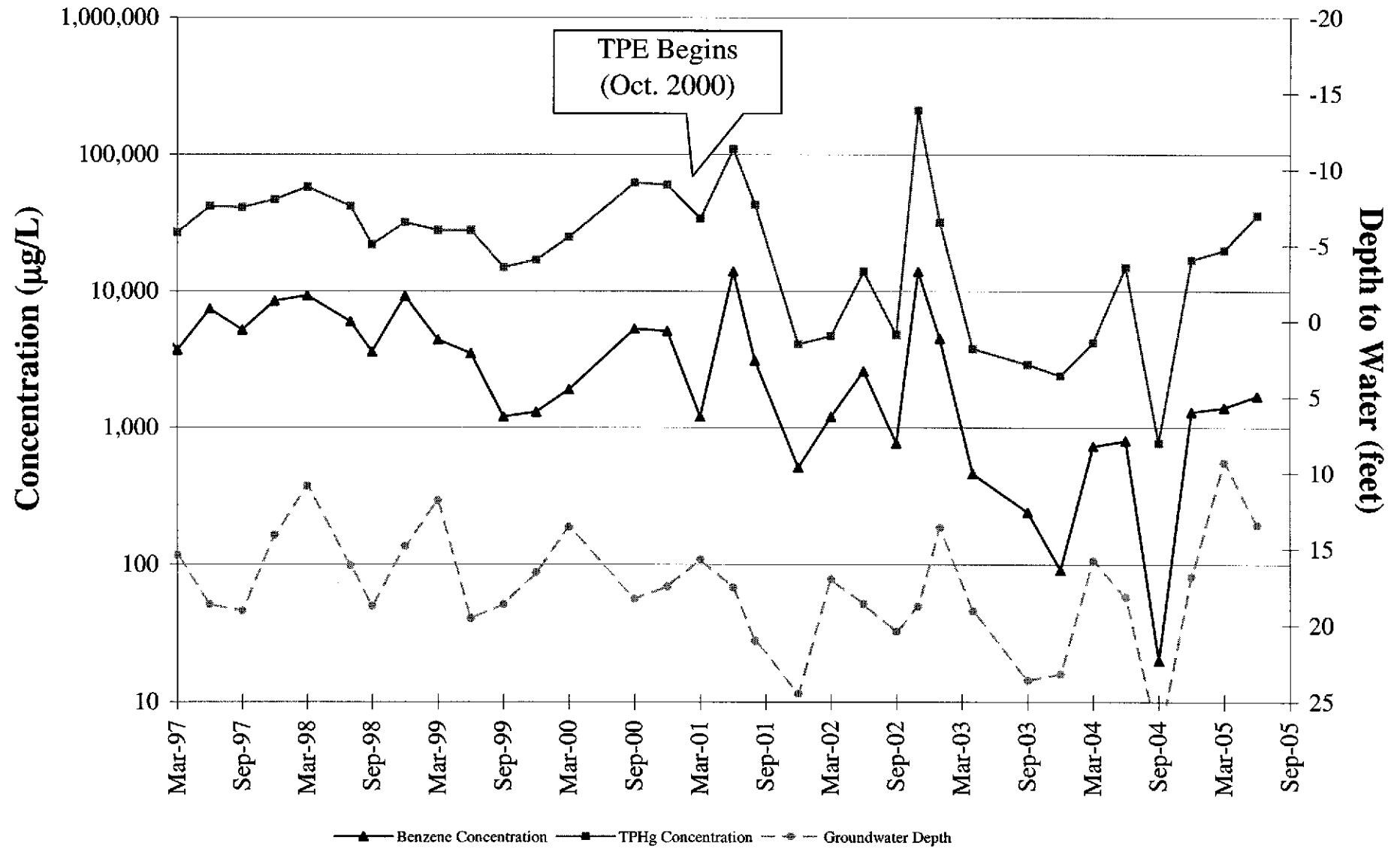
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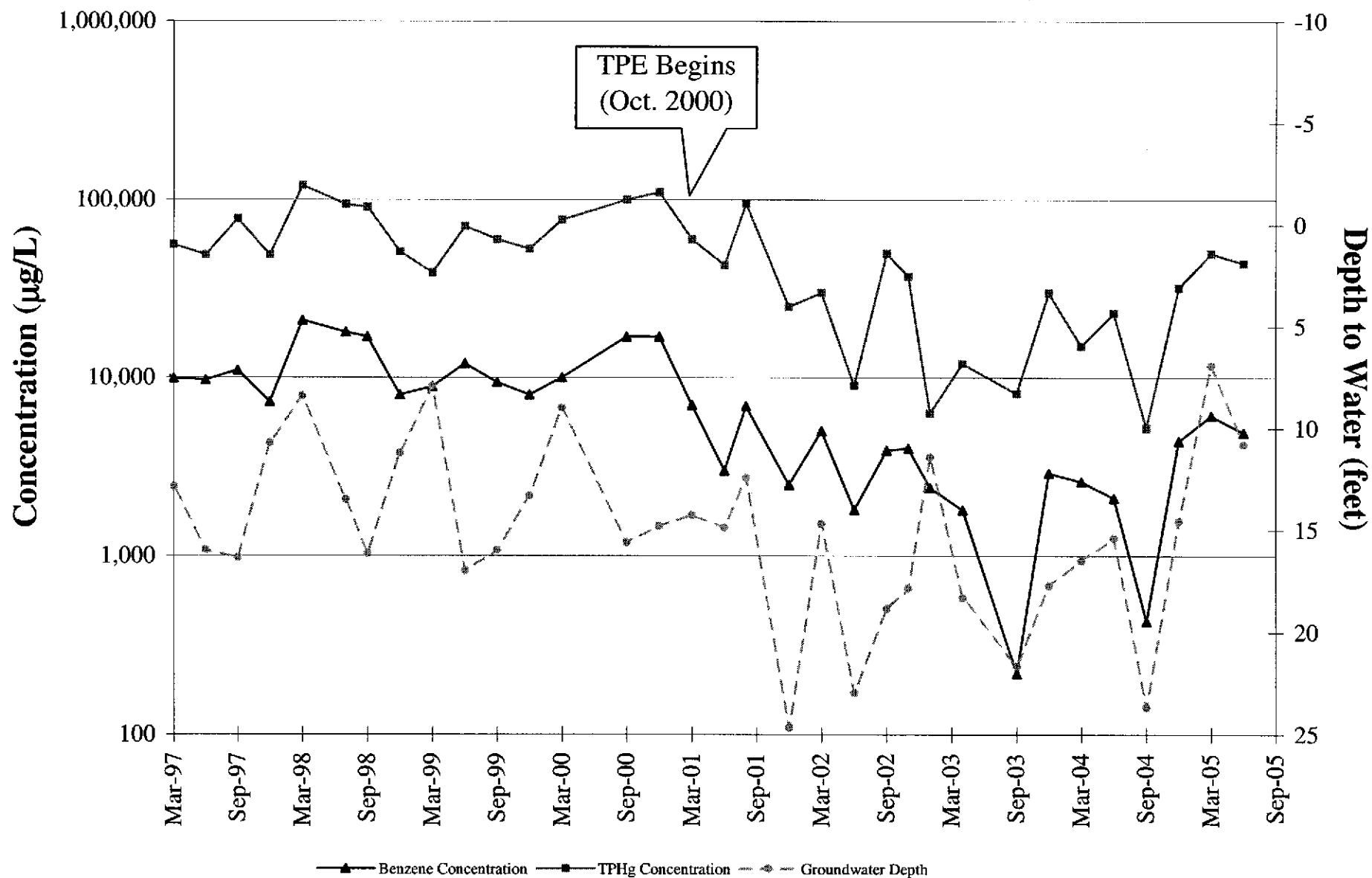
## TPHg and Benzene Concentration Trends Well MW-1 (March 1997 to Present)



# TPHg and Benzene Concentration Trends Well MW-2 (March 1997 to Present)



## TPHg and Benzene Concentration Trends Well MW-3 (March 1997 to Present)



## TPHg and Benzene Concentration Trends Well MW-4 (March 1997 to Present)

