

C A M B R I A

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August 1, 2002

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

AUG 1 2 2002

Re: **Groundwater Monitoring and System Progress Report
Second Quarter 2002**
Former Exxon Service Station
3055 35th Avenue
Oakland, California
Cambria Project #130-0105



Dear Mr. Chan:

On behalf of Mr. Lynn Worthington of Golden Empire Properties, Cambria Environmental Technology, Inc. (Cambria) has prepared this groundwater monitoring and system progress report for the above-referenced site. Presented in the report are the second quarter 2002 activities and the anticipated third quarter 2002 activities.

If you have any questions or comments regarding this report, please call me at (510) 450-1983.

Sincerely,
Cambria Environmental Technology, Inc.

Ron Scheele

Ron Scheele, RG
Senior Geologist

Attachments: Groundwater Monitoring and System Progress Report, Second Quarter 2002

cc: Mr. Lynn Worthington, Golden Empire Properties, Inc. 5942 MacArthur Boulevard, Suite B, Oakland, CA 94605
Mr. Robert Cave, BAAQMD, Permit Services Division, 939 Ellis Street, San Francisco, CA 94109
Ms. Marie Kulka, Source Control Division, EBMUD, 375 11th Street, Oakland, CA 94607

Oakland, CA
San Ramon, CA
Sonoma, CA

**Cambria
Environmental
Technology, Inc.**

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Oakland, CA 94608
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C A M B R I A

GROUNDWATER MONITORING AND SYSTEM PROGRESS REPORT

SECOND QUARTER 2002

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

August 1, 2002

AUG 1 2 2002

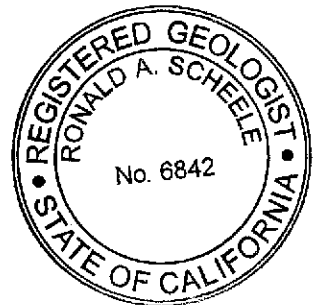


Prepared for:

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

Prepared by:

Cambria Environmental Technology, Inc.
6262 Hollis Street
Emeryville, California 94608



Matthew A. Meyers
Staff Geologist

Ron Scheele, RG
Senior Geologist

GROUNDWATER MONITORING AND SYSTEM PROGRESS REPORT

SECOND QUARTER 2002

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

August 1, 2002



INTRODUCTION

On behalf of Mr. Lynn Worthington of Golden Empire Properties, Cambria Environmental Technology, Inc. (Cambria) has prepared this groundwater monitoring and system progress report for the above-referenced site (see Figure 1). Presented in the report are the second quarter 2002 groundwater monitoring and corrective action activities and the anticipated third quarter 2002 activities.

SECOND QUARTER 2002 ACTIVITIES

Monitoring Activities

Field Activities: On June 10, 2002, Cambria conducted quarterly monitoring activities. Cambria gauged and inspected for separate-phase hydrocarbons (SPH) in monitoring wells MW-1, MW-2, MW-3 and MW-4 (Figure 1). Groundwater samples were collected from all scheduled wells not containing SPH. Field data sheets are presented in Appendix A.

Sample Analyses: Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and total petroleum hydrocarbons as diesel (TPHd) by modified EPA Method 8015, and benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8021B. The groundwater analytical results are summarized in Table 1. The laboratory analytical report is presented as Appendix B.

Monitoring Results

Groundwater Flow Direction: Depth-to-water measurements were collected during Cambria's June 10, 2002 site visit (Figure 1). The groundwater gradient is affected by a two phase extraction (TPE) remediation system in which down-well stingers are used to extract groundwater from wells MW-1, MW-3, MW-4, RW-5, RW-9, and RW-10. Since 1994, the primary groundwater flow direction has been towards the northwest with a change towards the southwest usually occurring during the fourth and/or second quarters. Groundwater monitoring data is presented in Table 1.



Hydrocarbon Distribution in Groundwater: Hydrocarbon concentrations have decreased in wells MW-1, MW-3, and MW-4 and increased in well MW-2 as compared with the previous sampling event. No SPH were detected in any of the wells. The increase of concentrations in well MW-2 is likely due to varying TPE system operations and temporary closing of MW-2 to optimize extraction from other areas. Since the start of TPE remediation (June 2000), all monitoring wells exhibit a decreasing hydrocarbon concentration trend (See Appendix D for individual well concentration trend graphs). The maximum TPHg and benzene concentrations were detected in well MW-2 at 14,000 and 2,600 micrograms per liter ($\mu\text{g/L}$), respectively. The maximum TPHd concentration was detected in well MW-4 at 3,400 $\mu\text{g/L}$. MTBE concentrations were below laboratory detection limits in all sampled wells. Analytical results are summarized in Table 1. See Appendix E for confirmation of groundwater data submittal to the State Geotracker Database.

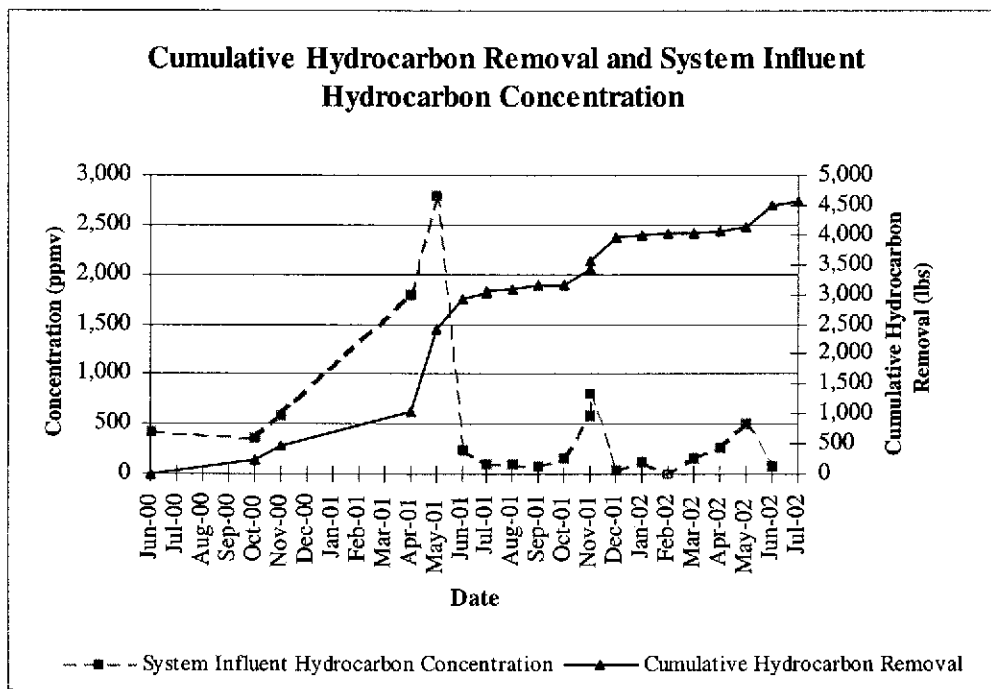
Corrective Action Activities

System Design: The TPE remediation system consists of a trailer mounted all-electric catalytic oxidizer, a 300-cfm positive-displacement blower, a 150-gallon moisture knockout with automatic float controls, a 1-hp centrifugal transfer pump, and two 1,000-lb carbon vessels connected in series. Fourteen wells are connected to the remediation system (RW-5 through RW-14, and MW-1 through MW-4) via a 4-inch diameter PVC trunk line. One-inch diameter stingers are inserted into each well to allow the simultaneous extraction of soil vapor and groundwater from the well.

Remediation System Operations and Maintenance Activities: During the second quarter, Cambria performed TPE system operation and maintenance activities approximately 3 times per month. During operation and maintenance activities, individual well flow, vacuum, and hydrocarbon concentration measurements were collected from all remediation system wells and from the catalytic oxidizer/blower (See Tables 2, 3, and 4). During site visits, system operation parameters were also recorded in specialized field forms for future system optimization and agency inspection. As per the Bay Area Air Quality Management (BAAQMD) permit, a catalytic oxidizer operating temperature greater than 600 degrees Fahrenheit was maintained and system operation parameters were continuously measured using a chart recorder. System influent and effluent vapor samples were collected and submitted for

laboratory analysis on a monthly basis. Groundwater treatment system influent and effluent samples were collected on a monthly basis. Table 2 summarizes soil vapor extraction system operations and analytical results. Table 3 summarizes groundwater extraction system parameters and analytical results. Table 4 summarizes the individual extraction well parameters. The system analytical laboratory reports are included as Attachment C.

Remediation System Performance: From April 2 through July 2, the TPE system operated continuously without shutdowns, for a total of 2,185 hours. To maximize site cleanup select remediation wells were opened and closed, and well stinger depths were adjusted to account for seasonal changes in the groundwater table (See Table 4). System influent and effluent vapor samples were collected and submitted for laboratory analysis on April 4, May 6, and June 5, 2002. Influent vapor concentrations increased relative to the first quarter and ranged from 73 to 500 parts per million by volume (ppmv). This increase is likely due to seasonally lower water table conditions exposing hydrocarbons trapped below groundwater. Hydrocarbon removal rate ranged from 1.7 to 12.2 lbs/day. System effluent vapor concentrations were below laboratory detection limits indicating that the catalytic oxidizer was achieving proper destruction efficiency and was operating within permit requirements. To date, a total of 4,556 pounds of hydrocarbons have been destroyed by vapor extraction (see graph below and Table 2).



From April 2 to July 2, 2002, approximately 98,154 gallons of groundwater was extracted and treated onsite using granular activated carbon. The average flowrate was 0.95 gallons per minute. Groundwater treatment system influent and effluent samples were collected on April 2, March 6, and June 5, 2002. System effluent groundwater concentrations for TPHg and BTEX were below laboratory detection limits indicating that no hydrocarbons were discharged to the sanitary sewer system and that the groundwater extraction portion of the TPE system was operating within permit requirements. To date, a total of 1.534 pounds of hydrocarbons have been removed by groundwater extraction and treatment.



ANTICIPATED THIRD QUARTER 2002 ACTIVITIES

Monitoring Activities

Cambria will gauge the site wells, check the wells for SPH, and collect groundwater samples from all wells not containing SPH. Groundwater samples will be analyzed for TPHg and TPHd by Modified EPA Method 8015 and BTEX and MTBE by EPA Method 8021B. Cambria will prepare a groundwater monitoring report summarizing the monitoring activities and results. Cambria will submit groundwater monitoring and analytical data to the State's Geotracker database.

Corrective Action Activities:

To reduce system noise and complaints from neighbors the existing TPE equipment (10-hp blower) will be replaced with a quieter 20-hp liquid ring pump. These equipment changes will take place in the third quarter.

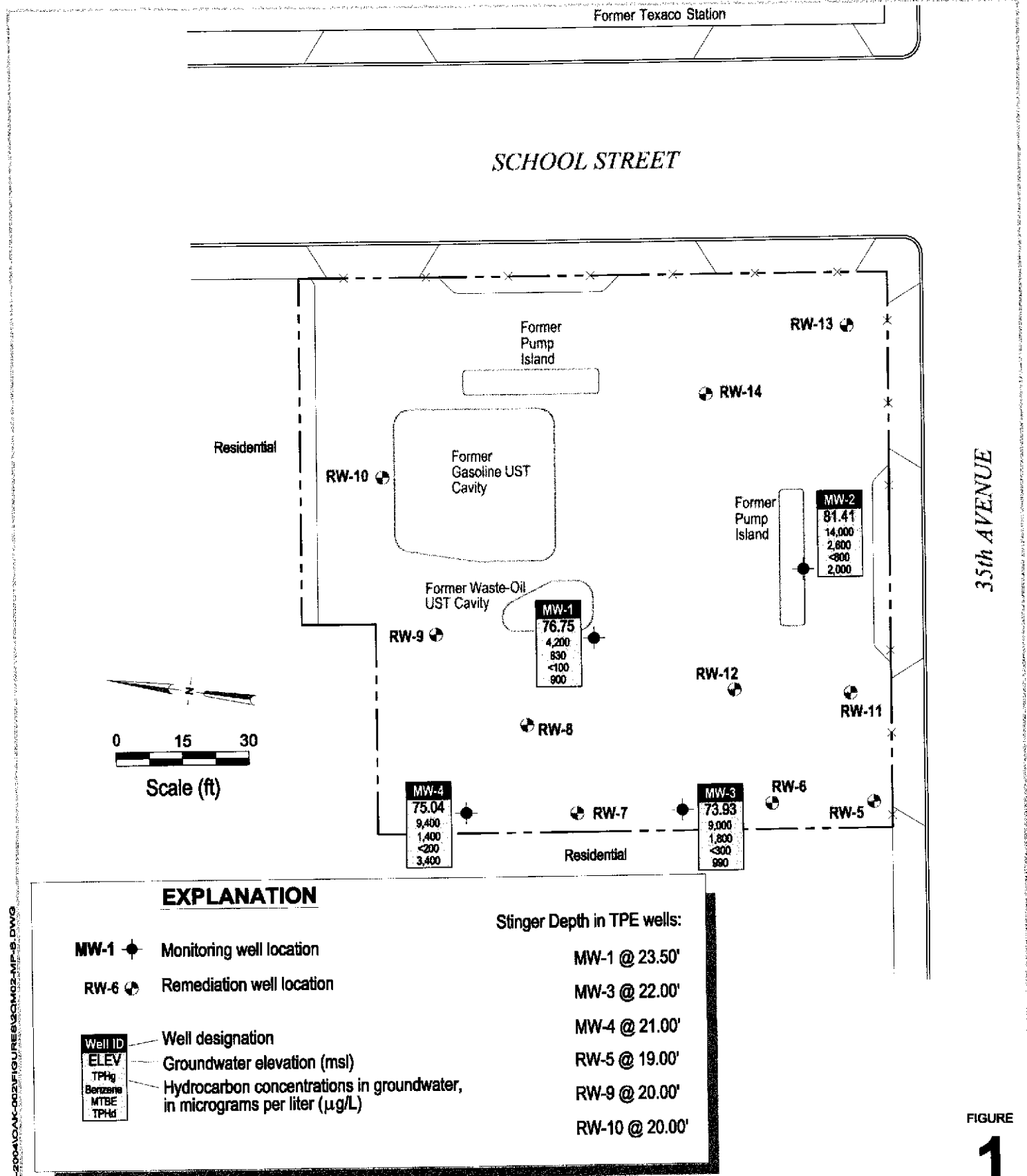
Cambria will continue to perform TPE operation and maintenance activities twice per month during the third quarter of 2002. The groundwater extraction stingers may from time to time be switched between select wells in an effort to help maximize hydrocarbon removal and site cleanup. System influent and effluent vapor and groundwater samples will be collected on a monthly basis, and system operation and performance will be evaluated and optimized. Records will be kept for a period of two years for possible future BAAQMD inspection.

ATTACHMENTS

- Figure 1 – Groundwater Elevation and Analytical Summary Map
- Table 1 – Groundwater Elevation and Analytical Data
- Table 2 – TPE System Performance and Analytical Results - Soil Vapor Extraction
- Table 3 – TPE System Performance and Analytical Results - Groundwater Extraction
- Table 4 – TPE Well Parameters
- Appendix A – Groundwater Monitoring Field Data Sheets
- Appendix B – Analytical Results for Quarterly Groundwater Sampling
- Appendix C – Analytical Results for TPE System Operation
- Appendix D – TPHg and Benzene Concentration Trend Graphs
- Appendix E – Electronic Delivery Confirmations



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Note: Groundwater elevations are affected by TPE remediation system.

FIGURE 1

Former Exxon Station
 3055 35th Avenue
 Oakland, California



Groundwater Elevation and Analytical Summary Map
 June 10, 2002

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

Well ID (TOC)	Date	GW Depth (ft)	SPH (ft)	GW Elev. (ft)	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DO (mg/L)
<----- Concentrations in parts per billion (µg/L) ----->													
MW-1	05/25/94	16.79	Sheen	84.06	120,000	25,000	<50,000	22,000	17,000	2,800	16,000	--	--
100.85	07/19/94	20.77	--	80.08	--	--	--	--	--	--	--	--	--
	08/18/94	21.04	Sheen	79.81	925,000	--	--	16,500	6,200	1,000	9,400	--	--
	11/11/94	15.80	--	85.05	57,000	--	--	14,000	4,400	1,400	6,400	--	--
	02/27/95	15.53	--	85.32	45,000	--	--	2,900	2,500	760	4,100	--	--
	05/23/95	15.29	--	85.56	22,000	--	--	9,900	990	790	2,000	--	--
	08/22/95	20.90	--	79.95	23,000	--	--	6,900	340	1,200	1,900	--	--
	11/29/95	22.19	--	78.66	37,000	--	--	9,900	530	1,600	2,900	--	--
	02/21/96	11.69	--	89.16	33,000	4,300	--	10,000	480	1,000	1,800	3,300	--
	05/21/96	14.62	--	86.23	36,000	8,500	--	8,500	1,400	1,300	2,800	1,900	--
	08/22/96	22.30	--	78.55	41,000	6,200	--	8,600	1,300	1,500	2,900	<200	8.0
	11/27/96	17.24	Sheen	83.61	38,000	6,100	--	9,600	950	1,600	3,100	<400	5.6
	03/20/97	16.65	--	84.20	33,000	10,000	--	6,100	560	970	2,200	<400	8.5
	06/25/97	19.77	--	81.08	31,000	7,400 ^a	--	7,400	440	890	1,800	<400	3.7
	09/17/97	20.12	--	80.73	32,000 ^d	3,500 ^e	--	9,100	550	1,000	2,000	<1,000	2.1
	12/22/97	12.95	--	87.90	26,000 ^d	5,800 ^e	--	7,900	370	920	1,500	<790	0.7
	03/18/98	12.34	Sheen	88.51	30,000 ^d	4,200 ^{e,f}	--	7,800	820	840	2,000	<1,100	1.3
	07/14/98	17.34	--	83.51	41,000 ^d	8,900 ^{e,f}	--	8,200	1,100	1,200	3,000	<200	1.8
	09/30/98	19.90	--	80.95	37,000	3,300	--	11,000	950	1,200	2,800	<20	2.0
	12/08/98	15.62	--	85.23	22,000	3,700	--	3,000	1,200	730	3,100	<900	--
	03/29/99	11.98	--	88.87	36,000 ^d	6,800 ^e	--	12,000	750	1,300	2,400	950	0.50
	06/29/99	20.77	--	80.08	28,000 ^d	3,500 ^e	--	7,300	420	810	1,700	<1,300	0.10
	09/28/99	19.68	--	81.17	13,000 ^d	3,600 ^{e,f}	--	3,200	130	320	1,100	<210	0.55
	12/10/99	17.02	--	83.83	25,000 ^d	2,900 ^{e,f}	--	5,400	130	620	1,400	<1,000	1.03
	03/23/00	12.76	--	88.09	21,000 ^d	3,300 ^f	--	4,700	140	470	1,100	<350	--
	09/07/00	19.45	--	81.40	40,000 ^{d,g}	12,000 ^{e,g}	--	3,700	1,400	910	4,900	<50	0.17
	12/05/00	18.60	--	82.25	26,000 ^a	3,400 ^e	--	7,900	150	580	810	<300	0.35
	03/07/01	16.19	--	84.66	13,000	2,400	--	2,700	43	69	300	<100	0.49
	06/06/01	18.47	--	82.38	19,000	4,000	--	4,500	130	270	430	<400	0.39
	08/30/01	21.70	--	79.15	8,800 ^a	1,400 ^d	--	2,100	45	91	240	<130	0.27

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

Well ID (TOC)	Date	GW Depth (ft)	SPH (ft)	GW Elev. (ft)	TPHg	TPHd	TPHmo	Concentrations in parts per billion (µg/L)					DO (mg/L)
								Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	
	12/07/01	26.55	---	74.30	8,700 ^d	1,900 ^{e,f}	---	1,300	160	38	730	<20	0.59
	03/11/02	17.13	---	83.72	9,400 ^d	1,400 ^e	---	2,100	200	74	470	<20	0.39
	06/10/02	24.10	---	76.75	4,200^d	900^{e,k}	---	830	170	110	460	<100	--
MW-2	05/25/94	15.65	---	84.35	61,000	6,900	<5,000	9,900	7,400	960	4,600	---	---
100.00	07/19/94	19.81	---	80.19	---	---	---	---	---	---	---	---	---
	08/18/94	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	---	---
	02/27/95	14.46	Sheen	85.54	44,000	---	---	5,100	5,300	930	6,400	---	---
	05/23/95	14.17	---	85.83	33,000	---	---	8,200	5,600	900	6,600	---	---
	08/22/95	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	---	---
	02/21/96	10.53	---	89.47	59,000	---	---	8,000	6,000	1,800	8,900	4,500	---
	05/21/96	13.47	---	86.53	51,000	3,400	---	8,200	5,200	1,300	6,600	2,400	---
	08/22/96	19.12	---	80.88	37,000	5,700	---	5,100	3,500	960	4,500	<200	3.0
	11/27/96	16.61	Sheen	83.39	54,000	10,000	---	9,800	7,000	1,800	7,900	<2,000	3.1
	03/20/97	15.39	---	84.61	27,000	6,100	---	3,700	2,300	580	2,800	<400	8.1
	06/25/97	18.62	---	81.38	42,000	7,800 ^b	---	7,400	3,800	1,200	5,700	<200	0.9
	09/17/97	19.05	Sheen	80.95	41,000 ^d	8,900 ^e	---	5,200	3,400	1,300	5,900	<700	1.2
	12/22/97	14.09	---	85.91	47,000 ^d	6,100 ^e	---	8,500	4,600	1,800	8,400	<1,200	1.2
	03/18/98	10.83	Sheen	89.17	58,000 ^d	7,000 ^{e,f}	---	9,300	6,100	1,800	8,200	<1,100	1.1
	07/14/98	16.07	---	83.93	42,000 ^d	5,300 ^{e,f}	---	6,000	3,000	1,000	4,800	<200	1.5
	09/30/98	18.71	---	81.29	22,000	2,400	---	3,600	1,300	720	3,200	<30	1.8
	12/08/98	14.80	---	85.20	32,000	3,100	---	9,200	680	1,100	2,300	<2,000	---
	03/29/99	11.81	---	88.19	28,000 ^d	7,500 ^{e,f}	---	4,400	1,600	950	4,100	410	1.86
	06/29/99	19.54	---	80.46	28,000 ^d	3,300 ^c	---	3,500	1,100	690	3,100	<1,000	0.41
	09/28/99	18.61	---	81.39	15,000 ^d	3,400 ^{e,f}	---	1,200	540	230	2,300	<36	1.18
	12/10/99	16.53	---	83.47	17,000 ^d	2,500 ^{e,f}	---	1,300	780	420	2,700	<40	0.17
	03/23/00	13.56	---	86.44	25,000 ^d	3,100 ⁱ	---	1,900	1,100	660	3,700	<500	---
	09/07/00	18.25	---	81.75	62,000 ^{d,g}	32,000 ^{e,g}	---	5,300	2,300	1,500	8,400	<100	0.39
	12/05/00	17.45	---	82.55	60,000 ^{d,g}	87,000 ^{e,f,g}	---	5,100	2,200	1,600	9,000	<200	0.31

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

Well ID (TOC)	Date	GW Depth (ft)	SPH (ft)	GW Elev. (ft)	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DO (mg/L)
----- Concentrations in parts per billion (µg/L) -----													
	03/07/01	15.68	---	84.32	34,000	3,900	---	1,200	770	620	4,300	<200	0.44
	06/06/01	17.51	---	82.49	110,000	48,000	---	14,000	9,000	1,900	12,000	<950	0.24
	08/30/01	21.00	---	79.00	43,000 ^{a,h}	15,000 ^{d,h}	---	3,100	720	980	5,500	<200	---
	12/07/01	24.45	---	75.55	4,100 ^d	750 ^{e,f}	---	510	88	8.2	580	<20	0.47
	03/11/02	16.95	---	83.05	4,700 ^d	590 ^e	---	1,200	150	30	310	<50	0.24
	06/10/02	18.59	---	81.41	14,000^d	2,000^e	--	2,600	710	150	2,000	<800	--
MW-3	05/25/94	13.93	Sheen	82.94	56,000	14,000	<50,000	14,000	14,000	1,300	11,000	---	---
96.87	07/19/94	17.04	---	79.83	---	---	---	---	---	---	---	---	---
	08/18/94	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	---	---
	02/27/95	11.86	Sheen	85.01	250,000	---	---	22,000	26,000	7,800	21,000	---	---
	05/23/95	11.60	Sheen	85.27	310,000	---	---	18,000	17,000	4,500	2,800	---	---
	08/22/95	17.10	---	79.77	74,000	---	---	14,000	13,000	1,900	11,000	---	---
	11/29/95	16.34	---	80.53	220,000	---	---	25,000	25,000	3,500	19,000	---	---
	02/21/96	7.92	---	88.95	60,000	---	---	10,000	7,800	1,500	8,800	3,400	---
	05/21/96	10.86	Sheen	86.01	69,000	13,000	---	17,000	9,400	1,700	9,400	2,600	---
	08/22/96	16.50	---	80.37	94,000	16,000	---	17,000	15,000	2,100	12,000	330	2.0
	11/27/96	13.47	Sheen	83.40	82,000	24,000	---	14,000	13,000	2,400	13,000	<1,000	2.4
	03/20/97	12.86	---	84.01	56,000	11,000	---	9,900	6,900	1,300	8,000	3,500	9.0
	06/25/97	15.98	---	80.89	49,000	7,700 ^b	---	9,700	7,100	1,300	7,000	220	5.8
	09/17/97	16.34	Sheen	80.53	78,000 ^d	15,000 ^e	---	11,000	9,900	1,800	10,000	<1,200	0.7
	12/22/97	10.71	Sheen	86.16	49,000 ^d	14,000 ^e	---	7,300	5,300	1,400	7,500	<1,100	3.1
	03/18/98	8.41	Sheen	88.46	120,000 ^d	20,000 ^{e,f}	---	21,000	19,000	2,600	15,000	<1,600	1.6
	07/14/98	13.51	---	83.36	94,000 ^{d,g}	65,000 ^{e,f,g}	---	18,000	14,000	1,900	11,000	<1,400	1.8
	09/30/98	16.14	---	80.73	91,000	9,800	---	17,000	13,000	2,100	12,000	<1300	2.0
	12/08/98	11.20	---	85.67	51,000	4,200	---	8,000	6,800	1,400	7,500	<1,100	---
	03/29/99	7.95	---	88.92	39,000 ^d	4,600 ^e	---	8,900	4,400	940	4,500	810	0.56
	06/29/99	16.98	---	79.89	71,000 ^d	6,900 ^e	---	12,000	7,300	1,400	8,400	<1,700	0.19
	09/28/99	15.99	---	80.88	60,000 ^d	7,800 ^e	---	9,400	9,200	1,000	9,900	200	0.53
	12/10/99	13.31	---	83.56	53,000 ^d	5,300 ^{e,f}	---	8,000	6,400	1,100	8,100	<200	0.48

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

Well ID (TOC)	Date	GW Depth (ft)	SPH (ft)	GW Elev. (ft)	Concentrations in parts per billion (µg/L)								DO (mg/L)
					TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	
	03/23/00	8.98	---	87.89	77,000 ^{d,g}	11,000 ^{g,j}	---	10,000	9,400	1,600	11,000	<430	---
	09/07/00	15.61	---	81.26	100,000 ^{d,g}	19,000 ^{e,f,g}	---	17,000	12,000	1,600	11,000	<500	---
	12/05/00	14.80	---	82.07	110,000 ^{d,g}	17,000 ^{e,g}	---	17,000	11,000	1,900	12,000	<750	0.37
	03/07/01	14.27	---	82.60	60,000	13,000	---	7,000	4,600	900	7,100	<350	0.49
	06/06/01	14.88	---	81.99	43,000	12,000	---	3,000	1,000	770	5,200	<400	1.71
	08/30/01	12.43	---	84.44	95,000 ^{a,h}	190,000 ^{d,h}	---	6,900	10,000	2,700	15,000	<250	0.24
	12/07/01	24.65	---	72.22	25,000 ^d	3,900 ^{e,f}	---	2,500	1,700	64	2,200	<200	0.19
	03/11/02	14.69	---	82.18	30,000 ^d	2,800 ^{f,e,k}	---	5,000	2,400	190	1,800	<1,300	0.30
	06/10/02	22.94	---	73.93	9,000 ^d	990 ^{e,k}	---	1,800	1,300	96	1,000	<300	--
MW-4	03/20/97	13.75	---	83.59	47,000	3,100	---	11,000	4,500	1,100	5,200	3,400	8.4
97.34	06/25/97	16.15	---	81.19	61,000	5,800 ^b	---	16,000	6,100	1,500	5,900	780 ^c	1.4
	09/17/97	17.10	---	80.24	60,000 ^d	4,400 ^e	---	17,000	4,900	1,500	5,700	<1,500	1.5
	12/22/97	9.21	---	88.13	43,000 ^d	3,100 ^e	---	13,000	3,900	1,100	4,200	<960	3.7
	03/18/98	9.54	---	87.80	58,000 ^d	5,500 ^{e,f}	---	14,000	4,700	1,400	5,700	<1,200	0.8
	07/14/98	14.15	---	83.19	73,000 ^d	2,900 ^{e,f}	---	22,000	7,000	1,800	7,300	<200	1.0
	09/30/98	16.84	---	80.50	39,000	2,100	---	12,000	2,700	1,000	3,400	510	1.1
	12/08/98	13.45	---	83.89	27,000	1,600	---	8,900	1,600	730	2,300	<1,500	---
	03/29/99	9.10	---	88.24	48,000 ^d	2,400 ^{e,f,h}	---	15,000	3,000	1,300	5,000	1,300	1.32
	06/29/99*	---	---	---	---	---	---	---	---	---	---	---	---
	09/28/99	16.58	---	80.76	24,000 ^d	3,200 ^{e,f}	---	7,500	1,200	190	2,200	210	14.29 ^g
	12/10/99	13.99	---	83.35	47,000 ^d	3,100 ^{e,f}	---	12,000	1,800	1,000	4,400	<100	0.62
	03/23/00	10.22	---	87.12	40,000 ^d	3,100 ^{e,f}	---	11,000	1,600	910	3,100	690	---
	09/07/00	16.40	---	80.94	43,000 ^d	5,900 ^e	---	10,000	1,100	1,100	3,400	<450	1.04
	12/05/00	15.55	---	81.79	69,000 ^{d,g}	2,600 ^{e,g}	---	16,000	1,300	1,300	3,400	<200	0.35
	03/20/01	14.03	---	83.31	46,000	---	---	13,000	1,000	900	2,800	<350	0.39
	06/06/01	15.49	---	81.85	75,000	5,400	---	22,000	1,800	1,900	6,400	<1,200	2.22
	08/30/01	18.00	---	79.34	43,000 ^a	3,200 ^d	---	6,400	630	510	2,600	<200	0.32
	12/07/01	23.45	---	73.89	32,000 ^{d,g}	11,000 ^{e,f,g}	---	4,500	740	310	2,300	<200	0.21
	03/11/02	14.95	---	82.39	15,000 ^d	1,600 ^{e,f,k}	---	3,700	500	92	790	<500	0.30
	06/10/02	22.30	---	75.04	9,400 ^d	3,400 ^e	---	1,400	50	<5.0	690	<200	--

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

Well ID (TOC)	Date	GW Depth (ft)	SPH (ft)	GW Elev. (ft)	TPHg	TPHd	TPHmo	Concentrations in parts per billion (µg/L)					DO (mg/L)
								Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	
Trip Blank	07/14/98	---	---	---	<50	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---
	09/30/98	---	---	---	<50	<50	---	<0.5	<0.5	<0.5	<0.5	<5.0	---
	12/08/98	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	<5.0	---
	03/29/99	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	<5.0	---
	06/29/99	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	<5.0	---
	03/23/00	---	---	---	<50	---	---	<0.5	<0.5	<0.5	<0.5	<5.0	---
	09/07/00	---	---	---	<50	---	---	<0.5	1.1	<0.5	1.1	<5.0	---

Abbreviations:

TOC = Top of casing elevation relative to an arbitrary datum

GW = Groundwater

SPH = Separate-phase hydrocarbons

--- = not observed/not analyzed

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, Ethylbenzene, Toluene, and Xylenes by EPA Method 8020

MTBE = Methyl Tertiary Butyl Ether by EPA Method 8020

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

* = Well inaccessible during site visit

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

TOC Elevation of Well MW-4 surveyed relative to an arbitrary site datum by David Hop,

Licensed Surveyor on April 19, 1997

= abnormally high reading due to added hydrogen peroxide

Table 2. TPE System Performance and Analytical Results - Soil Vapor Extraction - Golden Empire Properties (Worthington), 3055 35th Street, Oakland, California

Date	Hour Meter Readings (hrs)	System Uptime (per interval) (%)	System Inlet Temp. (degree F)	System Flow Rate (after dilution) (cfm)	System Influent HC Conc. ¹ (ppmv)		System Effluent HC Conc. ¹ (ppmv)		HC Removal Rate ² (lbs/day)	Emission Rate ² (lbs/day)		TPHg Destruction Efficiency (%)	Gasoline Cumulative Removal ³ (lbs)
					TPHg	Benz	TPHg	Benz		TPHg	Benz		
6/24/2000	0	--	--	--	--	--	--	--	--	--	--	--	0
9/28/2000	454	20%	789	175	420	22	0.24	23.6	1.24	0.012	95	446	
10/12/2000	696	72%	950	88	360	<10	<0.15	10.1	<0.28	<0.004	*	684	
11/9/2000	1251	83%	820	55	590	<10	<0.15	10.5	<0.18	<0.002	*	918	
1/23/2001	1313	3%	--	--	--	--	--	--	--	--	*	945	
3/28/2001	0	--	--	--	--	--	--	--	--	--	--	945	
4/5/2001	194	101%	908	85	1,800	34	0.52	49.1	0.93	0.013	98	1341	
5/3/2001	863	100%	1000	54	2,800	<10	<0.15	48.5	<0.17	<0.002	*	2709	
6/4/2001	1114	33%	820	101	240	<10	<0.15	7.8	<0.32	<0.004	*	3217	
7/2/2001	1429	47%	804	109.0	92	26	0.34	3.2	<0.91	<0.011	72	3319	
7/10/2001	1621	100%	900	150	92	<10	<0.15	4.4	<0.48	<0.007	*	3345	
8/2/2001	1759	25%	940	79	110	<10	<0.15	2.8	<0.25	<0.003	*	3370	
9/7/2001	2301	63%	854	141	81	34	0.52	3.7	<1.54	<0.021	58	3433	
10/3/2001	2470	27%	854	230	160	<10	0.31	11.8	<0.74	<0.021	*	3458	
11/6/2001	3015	67%	955	97	590	31	0.43	18.3	<0.96	<0.012	95	3727	

Table 2. TPE System Performance and Analytical Results - Soil Vapor Extraction - Golden Empire Properties (Worthington), 3055 35th Street, Oakland, California

Date	Hour Meter Readings (hrs)	System Uptime (per interval) (%)	System Inlet Temp. (degree F)	System Flow Rate (after dilution) (cfm)	System Influent HC Conc. ¹		System Effluent HC Conc. ¹		HC Removal Rate ² (lbs/day)	Emission Rate ² (lbs/day)		TPHg Destruction Efficiency (%)	Gasoline Cumulative Removal ³ (lbs)
					TPHg (ppmv)	TPHg (ppmv)	Benz (ppmv)	TPHg (lbs/day)		Benz (lbs/day)			
11/14/2001	3184	88%	860	69	810	<10	<0.15	17.9	<0.22	<0.003	*	3855	
12/6/2001	3710	96%	806	53	50	<10	<0.15	0.9	<0.17	<0.002	*	4248	
1/7/2002	4472	99%	841	42	120	<10	<0.15	1.6	<0.13	<0.002	*	4275	
2/4/2002	4938	69%	817	78	<5	<10	<0.15	0.1	<0.25	<0.003	*	4306	
3/5/2002	5396	66%	665	26	170	<10	<0.15	1.4	<0.08	<0.001	*	4309	
4/2/2002	6068	100%	670	32	260	<10	<0.15	2.6	<0.10	<0.001	*	4348	
5/6/2002	6886	100%	667	76	500	<10	<0.15	12.2	<0.24	<0.003	*	4438	
6/5/2002	7608	100%	751	72	73	<10	<0.15	1.7	<0.23	<0.003	*	4805	
7/2/2002	8253	100%	736	80	--	--	--	--	--	--	--	4850	

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline

Benz = Benzene

HC Conc. = Hydrocarbon Concentrations

ppmv = Parts per million by volume. Analytical lab results converted from micrograms per liter (µg/l) to ppmv assumes the molecular weight of gasoline to be equal to that of hexane. at 1 atmosphere of pressure and 20 degrees Celsius.

¹ TPHg and benzene concentrations based on lab results by Modified EPA Methods 8015 and 8020.

² The hydrocarbon removal/emission rate is based on the Bay Area Air Quality Management's District's (BAAQMD) Procedures for Soil Vapor Extraction where Rate = concentration (ppmv) x flow rate (scfm) x 1 lb-mole/386x10⁶ft³ x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene) x 1440 min/day.

³ Gasoline Cumulative Removal = The previous removal rates multiplied by the interval days of operation plus the previous total removal amount. The total TPHg removal is based on lab analytical results.

* As per BAAQMD permit conditions, system destruction efficiency need not be calculated for effluent TPHg concentrations less than 10 ppmv

Table 3. TPE System Performance and Analytical Results - Groundwater Extraction - Golden Empire Properties (Worthington), 3055 35th Street, Oakland, CA

Date	Hour Meter Readings (hrs)	Water Meter Readings (gallons)	Total Groundwater Extracted (gallons)	System Flow Rate Per Period (gpm)	Sample ID	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	HCs Removed Per Period (lbs)	Total HCs Removed (lbs)
10/20/00	878	0	0	NC	Inf Eff	-- --	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	--	--
10/30/00	1004	--	50	NC	Inf Eff	-- --	170 <0.5	140 <0.5	16 <0.5	200 <0.5	--	--
11/9/00	1,251	--	50	NC	Inf Eff	760 <50	120 <0.5	86 <0.5	4.2 <0.5	84 <0.5	NC	NC
12/15/00	1,267	760a	50	NC	--	--	--	--	--	--	--	--
1/23/01	1,313	3,790	3,080	1.1	In Mid Eff	3,000 <50 <50	440 <0.5 <0.5	360 <0.5 <0.5	57 <0.5 <0.5	350 <0.5 <0.5	0.019	0.019
3/28/01	0	3,970	3,210	NC	Replacement Catox System Startup			--	--	--	0.005	0.024
4/13/01	378	17,366	16,606	0.6	IN EF-1	360 <50	45 <0.5	39 <0.5	5.1 <0.5	43 <0.5	0.335	0.359
6/4/01	1,114	36,058	35,298	0.4	IN Mid EF	54 <50 <50	<0.5 <0.5 <0.5	0.69 <0.5 <0.5	<0.5 <0.5 <0.5	3.1 <0.5 <0.5	0.056	0.415

Table 3. TPE System Performance and Analytical Results - Groundwater Extraction - Golden Empire Properties (Worthington), 3055 35th Street, Oakland, CA

Date	Hour Meter Readings (hrs)	Water Meter Readings (gallons)	Total Groundwater Extracted (gallons)	System Flow Rate Per Period (gpm)	Sample ID	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	HCs Removed Per Period (lbs)	Total HCs Removed (lbs)
7/2/01	1,429	39,433	38,673	0.2	IN Mid EF	<50 <50 <50	2.5 <0.5 <0.5	1 <0.5 <0.5	<0.5 <0.5 <0.5	5 <0.5 <0.5	0.002	0.417
9/7/01	2,301	48,566	47,806	0.2	INF EFF-1 EFF-2	4,600 <50 --	24 <0.5 --	57 <0.5 --	15 <0.5 --	140 <0.5 --	0.004	0.421
11/16/01	3,184	61,892	61,132	0.3	INF EFF-1 EFF-2	1100 <50 --	57 <0.5 --	42 <0.5 --	6.5 <0.5 --	110 <0.5 --	0.512	0.932
12/6/01	3,710	80,094	79,334	0.6	INF EFF-1 EFF-2	410 <50 --	31 <0.5 --	14 <0.5 --	3.2 <0.5 --	48 <0.5 --	0.167	1.099
1/7/02	4,472	132,337	131,577	1.1	INF EFF-1 EFF-2	120 <50 --	17 <0.5 --	7.7 <0.5 --	1.5 <0.5 --	13 <0.5 --	0.179	1.278
2/4/02	4,938	164,774	164,014	1.2	INF EFF-1 EFF-2	140 <50 --	18 <0.5 --	5.1 <0.5 --	0.86 <0.5 --	12 <0.5 --	0.032	1.310

Table 3. TPE System Performance and Analytical Results - Groundwater Extraction - Golden Empire Properties (Worthington), 3055 35th Street, Oakland, CA

Date	Hour Meter Readings (hrs)	Water Meter Readings (gallons)	Total Groundwater Extracted (gallons)	System Flow Rate Per Period (gpm)	Sample ID	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	HCs Removed Per Period (lbs)	Total HCs Removed (lbs)
3/5/02	5,396	208,997	208,237	1.6	INF EFF-1 EFF-2	170 <50 --	22 <0.5 --	12 <0.5 --	1.8 <0.5 --	24 <0.5 --	0.052	1.362
4/2/02	6,068	263,563	262,803	1.4	INF EFF-1 EFF-2	160 <50 --	15 <0.5 --	17 <0.5 --	3.3 <0.5 --	20 <0.5 --	0.077	1.439
5/6/02	6,886	306,765	306,005	0.9	INF EFF-1 EFF-2	100 <50 --	3.5 <0.5 --	1.7 <0.5 --	1.0 <0.5 --	4.0 <0.5 --	0.058	1.497
6/5/02	7,608	340,020	339,260	0.8	INF EFF-1 EFF-2	<50 <50 --	2.8 <0.5 --	1.4 <0.5 --	<0.5 <0.5 --	2.5 <0.5 --	0.028	1.525
7/2/02	8,253	366,560	361,717	0.7	--	--	--	--	--	--	0.009	1.534
Sewer Effluent Discharge Limits:							5.0	5.0	5.0	5.0		
							(µg/L)					

Notes:

TPHg = Total Petroleum Hydrocarbons as Gasoline

BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes

MTBE = Methyl tertiary butyl ether

µg/L = micrograms per liter

a = Malfunctioning totalizer replaced 12/15/00 (initial reading at 760 gallons)

ND = non detect

<n = below noted practical laboratory quantitation limits

Inf = Influent Sample

Eff = Effluent Sample

NC = Not calculated, insufficient data

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Table 4. TPE Well Parameters - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

Well ID	Date	Well Status (open/closed)	System/Stinger Vacuum (inches of H ₂ O)	Well Annulus Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Stinger Depth (ft below TOC)
MW-1	11/6/01	open	80	--	*	--	28
	11/12/01	open	125	--	*	--	28
	11/14/01	open	85	--	*	--	28
	11/21/01	open	95	--	*	--	28
	12/6/01	open	115	--	*	--	28
	12/19/01	open	110	--	*	--	25
	1/17/02	open	130	--	*	--	25
	2/4/02	open	105	--	*	--	28
	2/14/02	closed	--	--	*	--	--
	3/5/02	closed	--	--	*	--	--
	3/11/02	closed	--	--	*	--	--
	3/25/02	open	130	--	*	--	21
	4/2/02	open	130	--	*	--	21
	4/5/02	open	135	50	*	--	21
	4/19/02	open	130	49	*	--	22
	5/6/02	open	100	42	*	--	22
	5/21/02	open	105	49	*	--	23.5
	6/19/02	open	90	42	*	--	24
	6/28/02	open	95	47	*	--	25
	7/10/02	open	97	41	*	--	25
MW-2	11/6/01	open	80	--	*	--	27
	11/12/01	open	125	--	*	--	27
	11/14/01	open	85	--	*	--	27
	11/21/01	open	95	--	*	--	27
	12/6/01	open	115	--	*	--	28
	12/19/01	closed	--	--	*	--	--
	1/17/02	closed	--	--	*	--	--
	2/4/02	open	105	--	*	--	28
	2/14/02	closed	--	--	*	--	--
	3/5/02	closed	--	--	*	--	--
	3/11/02	closed	--	--	*	--	--
	3/25/02	open	130	--	*	--	21
	4/2/02	open	130	--	*	--	21
	4/5/02	open	135	70	*	--	21
	4/19/02	open	130	55	*	--	22
	5/6/02	closed	--	--	*	--	--
	5/21/02	closed	--	--	*	--	--
	6/19/02	closed	--	--	*	--	--
	6/28/02	open	95	52	*	--	22
	7/10/02	open	97	51	*	--	22

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Table 4. TPE Well Parameters - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

Well ID	Date	Well Status (open/closed)	System/Stinger Vacuum (inches of H ₂ O)	Well Annulus Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Stinger Depth (ft below TOC)
MW-3	11/6/01	open	80	--	*	--	25
	11/12/01	open	125	--	*	--	25
	11/14/01	open	85	--	*	--	25
	11/21/01	open	95	--	*	--	25
	12/6/01	open	115	--	*	--	25
	12/19/01	open	110	--	*	--	25
	1/17/02	open	130	--	*	--	25
	2/4/02	open	105	--	*	--	25
	2/14/02	closed	--	--	*	--	--
	3/5/02	closed	--	--	*	--	--
	3/11/02	closed	--	--	*	--	--
	3/25/02	closed	--	--	*	--	--
	4/2/02	closed	--	--	*	--	--
	4/5/02	closed	--	--	*	--	--
	4/19/02	closed	--	--	*	--	--
	5/6/02	open	100	28	*	--	20
	5/21/02	open	105	7	*	--	22
	6/19/02	open	90	10	*	--	24
	6/28/02	open	95	11	*	--	24
	7/10/02	open	97	6	*	--	23
MW-4	11/6/01	open	80	--	*	--	25
	11/12/01	open	125	--	*	--	25
	11/14/01	open	85	--	*	--	25
	11/21/01	open	95	--	*	--	25
	12/6/01	open	115	--	*	--	25
	12/19/01	open	110	--	*	--	25
	1/17/02	open	130	--	*	--	25
	2/4/02	open	105	--	*	--	25
	2/14/02	closed	--	--	*	--	--
	3/5/02	closed	--	--	*	--	--
	3/11/02	closed	--	--	*	--	--
	3/25/02	closed	--	--	*	--	--
	4/2/02	closed	--	--	*	--	--
	4/5/02	closed	--	--	*	--	--
	4/19/02	closed	--	--	*	--	--
	5/6/02	open	100	26	*	--	20
	5/21/02	open	105	31	*	--	21
	6/19/02	open	90	26	*	--	21
	6/28/02	closed	--	--	*	--	--
	7/10/02	closed	--	--	*	--	--

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Table 4. TPE Well Parameters - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

Well ID	Date	Well Status (open/closed)	System/Stinger Vacuum (inches of H ₂ O)	Well Annulus Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Stinger Depth (ft below TOC)
RW-5	5/24/00	--	80	--	*	--	11.64
	10/6/00	--	100	--	*	--	--
	11/29/00	open	>100	--	*	4320	--
	3/29/01	open	54	--	*	650	--
	4/14/01	open	100	--	*	--	--
	4/26/01	open	85	--	*	--	15
	5/3/01	open	80	--	*	--	15
	5/23/01	open	10	--	*	--	15
	6/4/01	open	50	--	*	--	15
	6/21/01	open	65	--	*	--	15
	7/2/01	open	55	--	*	--	15
	7/16/01	open	45	--	*	--	16
	8/2/01	open	35	--	*	--	--
	8/10/01	open	20	--	*	--	--
	8/15/01	open	20	--	*	--	--
	8/27/01	open	65	--	*	--	--
	9/7/01	closed	--	--	*	--	--
	9/14/01	closed	--	--	*	--	--
	10/3/01	closed	--	--	*	--	--
	10/8/01	closed	--	--	*	--	--
	10/22/01	closed	--	--	*	--	--
	10/29/01	closed	--	--	*	--	--
	11/6/01	closed	--	--	*	--	--
	11/12/01	closed	--	--	*	--	--
	11/14/01	closed	--	--	*	--	--
	11/21/01	closed	--	--	*	--	--
	12/6/01	closed	--	--	*	--	--
	12/19/01	open	110	--	*	--	20
	1/17/02	open	130	--	*	--	20
	2/4/02	closed	--	--	*	--	--
	2/14/02	closed	--	--	*	--	--
	3/5/02	closed	--	--	*	--	--
	3/11/02	closed	--	--	*	--	--
	3/25/02	open	130	--	*	--	16
	4/2/02	open	130	--	*	--	16
	4/5/02	open	135	90	*	--	16
	4/19/02	open	130	72	*	--	18
	5/6/02	open	100	43	*	--	18
	5/21/02	open	105	55	*	--	19
	6/19/02	open	90	33	*	--	19.5
	6/28/02	open	95	48	*	--	20
	7/10/02	closed	--	--	*	--	--

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Table 4. TPE Well Parameters - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

Well ID	Date	Well Status (open/closed)	System/Stinger Vacuum (inches of H ₂ O)	Well Annulus Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Stinger Depth (ft below TOC)
RW-6	5/24/00	--	80	--	*	--	11.78
	10/6/00	--	--	--	*	--	--
	11/29/00	open	>100	--	*	260	--
	3/29/01	open	54	--	*	2050	--
	4/14/01	open	100	--	*	--	20
	4/26/01	closed	--	--	*	--	--
	5/3/01	closed	--	--	*	--	--
	5/23/01	closed	--	--	*	--	--
	6/4/01	open	50	--	*	--	15
	6/21/01	open	65	--	*	--	15
	7/2/01	open	55	--	*	--	15
	7/16/01	open	45	--	*	--	16
	8/2/01	open	35	--	*	--	--
	8/10/01	open	20	--	*	--	--
	8/15/01	open	20	--	*	--	--
	8/27/01	open	65	--	*	--	--
	9/7/01	closed	--	--	*	--	--
	9/14/01	closed	--	--	*	--	--
	10/3/01	closed	--	--	*	--	--
	10/8/01	closed	--	--	*	--	--
	10/22/01	closed	--	--	*	--	--
	10/29/01	closed	--	--	*	--	--
	11/6/01	closed	--	--	*	--	--
	11/12/01	closed	--	--	*	--	--
	11/14/01	closed	--	--	*	--	--
	11/21/01	closed	--	--	*	--	--
	12/6/01	closed	--	--	*	--	--
	12/19/01	closed	--	--	*	--	--
	1/17/02	closed	--	--	*	--	--
	2/4/02	closed	--	--	*	--	--
	2/14/02	closed	--	--	*	--	--
	3/5/02	closed	--	--	*	--	--
	3/11/02	open	130	--	*	--	16
3/25/02	open	130	--	*	--	16	
4/2/02	open	12	--	*	--	16	
4/5/02	open	135	85	*	--	16	
4/19/02	open	130	75	*	--	18	
5/6/02	closed	--	--	*	--	--	
5/21/02	closed	--	--	*	--	--	
6/19/02	closed	--	--	*	--	--	
6/28/02	closed	--	--	*	--	--	
7/10/02	open	97	54	*	--	20	

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Table 4. TPE Well Parameters - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

Well ID	Date	Well Status (open/closed)	System/Stinger Vacuum (inches of H ₂ O)	Well Annulus Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Stinger Depth (ft below TOC)
RW-7	5/24/00	--	80	--	*	--	12.5
	10/6/00	--	--	--	*	--	--
	11/29/00	open	>100	--	*	0	--
	3/29/01	open	54	--	*	52	--
	4/14/01	open	100	--	*	--	20
	4/26/01	open	85	--	*	--	15
	5/3/01	open	80	--	*	--	15
	5/23/01	open	10	--	*	--	15
	6/4/01	open	50	--	*	--	15
	6/21/01	open	65	--	*	--	15
	7/2/01	open	55	--	*	--	15
	7/16/01	open	45	--	*	--	16
	8/2/01	open	35	--	*	--	--
	8/10/01	open	20	--	*	--	--
	8/15/01	open	20	--	*	--	--
	8/27/01	open	65	--	*	--	--
	9/7/01	closed	--	--	*	--	--
	9/14/01	closed	--	--	*	--	--
	10/3/01	closed	--	--	*	--	--
	10/8/01	closed	--	--	*	--	--
	10/22/01	closed	--	--	*	--	--
	10/29/01	closed	--	--	*	--	--
	11/6/01	closed	--	--	*	--	--
	11/12/01	closed	--	--	*	--	--
	11/14/01	closed	--	--	*	--	--
	11/21/01	closed	--	--	*	--	--
	12/6/01	closed	--	--	*	--	--
	12/19/01	closed	--	--	*	--	--
	1/17/02	closed	--	--	*	--	--
	2/4/02	closed	--	--	*	--	--
	2/14/02	closed	--	--	*	--	--
	3/5/02	closed	--	--	*	--	--
	3/11/02	closed	--	--	*	--	--
	3/25/02	closed	--	--	*	--	--
	4/2/02	closed	--	--	*	--	--
	4/5/02	closed	--	--	*	--	--
	4/19/02	closed	--	--	*	--	--
	5/6/02	closed	--	--	*	--	--
	5/21/02	closed	--	--	*	--	--
	6/19/02	closed	--	--	*	--	--
	6/28/02	closed	--	--	*	--	--
	7/10/02	closed	--	--	*	--	--

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Table 4. TPE Well Parameters - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

Well ID	Date	Well Status (open/closed)	System/Stinger Vacuum (inches of H ₂ O)	Well Annulus Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Stinger Depth (ft below TOC)
RW-8	5/24/00	--	--	--	*	--	--
	10/6/00	--	--	--	*	--	--
	11/29/00	open	>100	--	*	44	--
	3/29/01	open	54	--	*	60	--
	4/14/01	open	100	--	*	--	20
	4/26/01	open	85	--	*	--	15
	5/3/01	open	80	--	*	--	15
	5/23/01	open	10	--	*	--	15
	6/4/01	open	50	--	*	--	15
	6/21/01	open	65	--	*	--	--
	7/2/01	open	55	--	*	--	--
	7/16/01	open	45	--	*	--	--
	8/2/01	open	35	--	*	--	--
	8/10/01	open	20	--	*	--	--
	8/15/01	open	20	--	*	--	--
	8/27/01	open	65	--	*	--	--
	9/7/01	closed	--	--	*	--	--
	9/14/01	closed	--	--	*	--	--
	10/3/01	closed	--	--	*	--	--
	10/8/01	closed	--	--	*	--	--
	10/22/01	closed	--	--	*	--	--
	10/29/01	closed	--	--	*	--	--
	11/6/01	closed	--	--	*	--	--
	11/12/01	closed	--	--	*	--	--
	11/14/01	closed	--	--	*	--	--
	11/21/01	closed	--	--	*	--	--
	12/6/01	closed	--	--	*	--	--
	12/19/01	closed	--	--	*	--	--
	1/17/02	closed	--	--	*	--	--
	2/4/02	closed	--	--	*	--	--
	2/14/02	closed	--	--	*	--	--
	3/5/02	closed	--	--	*	--	--
	3/11/02	open	--	--	*	--	18
	3/25/02	closed	--	--	*	--	--
	4/2/02	closed	--	--	*	--	--
	4/5/02	closed	--	--	*	--	--
	4/19/02	closed	--	--	*	--	--
	5/6/02	closed	--	--	*	--	--
	5/21/02	closed	--	--	*	--	--
	6/19/02	closed	--	--	*	--	--
	6/28/02	closed	--	--	*	--	--
	7/10/02	closed	--	--	*	--	--

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Table 4. TPE Well Parameters - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

Well ID	Date	Well Status (open/closed)	System/Stinger Vacuum (inches of H ₂ O)	Well Annulus Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Stinger Depth (ft below TOC)
RW-9	5/24/00	--	--	--	*	--	12.5
	10/6/00	--	--	--	*	--	--
	11/29/00	--	>100	--	*	43	--
	3/29/01	open	54	--	*	90	--
	4/14/01	open	100	--	*	--	--
	4/26/01	open	85	--	*	--	--
	5/3/01	open	80	--	*	--	--
	5/23/01	open	10	--	*	--	--
	6/4/01	open	50	--	*	--	--
	6/21/01	open	65	--	*	--	--
	7/2/01	open	55	--	*	--	--
	7/16/01	open	45	--	*	--	--
	8/2/01	open	35	--	*	--	--
	8/10/01	open	20	--	*	--	--
	8/15/01	open	20	--	*	--	--
	8/27/01	open	65	--	*	--	--
	9/7/01	closed	--	--	*	--	--
	9/14/01	closed	--	--	*	--	--
	10/3/01	closed	--	--	*	--	--
	10/8/01	closed	--	--	*	--	--
	10/22/01	closed	--	--	*	--	--
	10/29/01	closed	--	--	*	--	--
	11/6/01	closed	--	--	*	--	--
	11/12/01	closed	--	--	*	--	--
	11/14/01	closed	--	--	*	--	--
	11/21/01	closed	--	--	*	--	--
	12/6/01	closed	--	--	*	--	--
	12/19/01	closed	--	--	*	--	--
	1/17/02	closed	--	--	*	--	--
	2/4/02	closed	--	--	*	--	--
	2/14/02	open	125	--	*	--	20
	3/5/02	open	115	--	*	--	20
	3/11/02	closed	--	--	*	--	--
	3/25/02	closed	--	--	*	--	--
	4/2/02	closed	--	--	*	--	--
	4/5/02	closed	--	--	*	--	--
	4/19/02	closed	--	--	*	--	--
	5/6/02	open	100	38	*	--	20
	5/21/02	open	105	56	*	--	20
	6/19/02	open	90	47	*	--	20
	6/28/02	closed	--	--	*	--	--
	7/10/02	closed	--	--	*	--	--

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Table 4. TPE Well Parameters - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

Well ID	Date	Well Status (open/closed)	System/Stinger Vacuum (inches of H ₂ O)	Well Annulus Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Stinger Depth (ft below TOC)
RW-10	5/24/00	--	--	--	*	--	--
	10/6/00	--	--	--	*	--	--
	11/29/00	--	>100	--	*	>10,000	--
	3/29/01	open	54	--	*	850	--
	4/14/01	open	100	--	*	--	--
	4/26/01	open	85	--	*	--	--
	5/3/01	open	80	--	*	--	--
	5/23/01	open	10	--	*	--	--
	6/4/01	open	50	--	*	--	--
	6/21/01	open	65	--	*	--	--
	7/2/01	open	55	--	*	--	--
	7/16/01	open	45	--	*	--	--
	8/2/01	open	35	--	*	--	--
	8/10/01	open	20	--	*	--	--
	8/15/01	open	20	--	*	--	--
	8/27/01	open	65	--	*	--	--
	9/7/01	closed	--	--	*	--	--
	9/14/01	closed	--	--	*	--	--
	10/3/01	closed	--	--	*	--	--
	10/8/01	closed	--	--	*	--	--
	10/22/01	closed	--	--	*	--	--
	10/29/01	closed	--	--	*	--	--
	11/6/01	closed	--	--	*	--	--
	11/12/01	closed	--	--	*	--	--
	11/14/01	closed	--	--	*	--	--
	11/21/01	closed	--	--	*	--	--
	12/6/01	closed	--	--	*	--	--
	12/19/01	closed	--	--	*	--	--
	1/17/02	closed	--	--	*	--	--
	2/4/02	closed	--	--	*	--	--
	2/14/02	open	125	--	*	--	20
	3/5/02	open	115	--	*	--	20
	3/11/02	open	--	--	*	--	20
	3/25/02	closed	--	--	*	--	--
	4/2/02	closed	--	--	*	--	--
	4/5/02	closed	--	--	*	--	--
	4/19/02	closed	--	--	*	--	--
	5/6/02	open	100	31	*	--	20
	5/21/02	open	105	70	*	--	20
	6/19/02	open	90	56	*	--	20
	6/28/02	closed	--	--	*	--	--
	7/10/02	closed	--	--	*	--	--

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Table 4. TPE Well Parameters - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

Well ID	Date	Well Status (open/closed)	System/Stinger Vacuum (inches of H ₂ O)	Well Annulus Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Stinger Depth (ft below TOC)
RW-11	5/24/00	--	80	--	*	--	11.65
	10/6/00	--	--	--	*	--	--
	11/29/00	--	>100	--	*	2280	--
	3/29/01	open	54	--	*	784	--
	4/14/01	open	100	--	*	--	--
	4/26/01	open	85	--	*	--	15
	5/3/01	open	80	--	*	--	15
	5/23/01	open	10	--	*	--	15
	6/4/01	open	50	--	*	--	20
	6/21/01	open	65	--	*	--	15
	7/2/01	open	55	--	*	--	15
	7/16/01	open	45	--	*	--	16
	8/2/01	open	35	--	*	--	--
	8/10/01	open	20	--	*	--	--
	8/15/01	open	20	--	*	--	--
	8/27/01	open	65	--	*	--	--
	9/7/01	closed	--	--	*	--	--
	9/14/01	closed	--	--	*	--	--
	10/3/01	closed	--	--	*	--	--
	10/8/01	closed	--	--	*	--	--
	10/22/01	closed	--	--	*	--	--
	10/29/01	closed	--	--	*	--	--
	11/6/01	closed	--	--	*	--	--
	11/12/01	closed	--	--	*	--	--
	11/14/01	closed	--	--	*	--	--
	11/21/01	closed	--	--	*	--	--
	12/6/01	closed	--	--	*	--	--
	12/19/01	closed	--	--	*	--	--
	1/17/02	closed	--	--	*	--	--
	2/4/02	closed	--	--	*	--	--
	2/14/02	closed	--	--	*	--	--
	3/5/02	closed	--	--	*	--	--
	3/11/02	open	--	--	*	--	18
	3/25/02	closed	--	--	*	--	--
	4/2/02	closed	--	--	*	--	--
	4/5/02	closed	--	--	*	--	--
	4/19/02	closed	--	--	*	--	--
	5/6/02	closed	--	--	*	--	--
	5/21/02	closed	--	--	*	--	--
	6/19/02	closed	--	--	*	--	--
	6/28/02	closed	--	--	*	--	--
	7/10/02	closed	--	--	*	--	--

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Table 4. TPE Well Parameters - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

Well ID	Date	Well Status (open/closed)	System/Stinger Vacuum (inches of H ₂ O)	Well Annulus Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Stinger Depth (ft below TOC)
RW-12	5/24/00	--	--	--	*	--	--
	10/6/00	--	--	--	*	--	--
	11/29/00	open	>100	--	*	24	--
	3/29/01	open	54	--	*	72	--
	4/14/01	open	100	--	*	--	--
	4/26/01	open	85	--	*	--	15
	5/3/01	open	80	--	*	--	15
	5/23/01	open	10	--	*	--	15
	6/4/01	open	50	--	*	--	15
	6/21/01	open	65	--	*	--	15
	7/2/01	open	55	--	*	--	15
	7/16/01	open	45	--	*	--	16
	8/2/01	open	35	--	*	--	--
	8/10/01	open	20	--	*	--	--
	8/15/01	open	20	--	*	--	--
	8/27/01	open	65	--	*	--	--
	9/7/01	closed	--	--	*	--	--
	9/14/01	closed	--	--	*	--	--
	10/3/01	closed	--	--	*	--	--
	10/8/01	closed	--	--	*	--	--
	10/22/01	closed	--	--	*	--	--
	10/29/01	closed	--	--	*	--	--
	11/6/01	closed	--	--	*	--	--
	11/12/01	closed	--	--	*	--	--
	11/14/01	closed	--	--	*	--	--
	11/21/01	closed	--	--	*	--	--
	12/6/01	closed	--	--	*	--	--
	12/19/01	closed	--	--	*	--	--
	1/17/02	closed	--	--	*	--	--
	2/4/02	closed	--	--	*	--	--
	2/14/02	closed	--	--	*	--	--
	3/5/02	closed	--	--	*	--	--
	3/11/02	closed	--	--	*	--	--
	3/25/02	open	130	--	*	--	16
	4/2/02	open	130	--	*	--	16
	4/5/02	open	135	97	*	--	16
	4/19/02	open	130	75	*	--	18
	5/6/02	closed	--	--	*	--	--
	5/21/02	closed	--	--	*	--	--
	6/19/02	closed	--	--	*	--	--
	6/28/02	open	95	16	*	--	20
	7/10/02	open	97	5	*	--	20

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Table 4. TPE Well Parameters - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

Well ID	Date	Well Status (open/closed)	System/Stinger Vacuum (inches of H ₂ O)	Well Annulus Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Stinger Depth (ft below TOC)
RW-13	5/24/00	--	80	--	*	--	12.59
	10/6/00	--	--	--	*	--	--
	11/29/00	--	>100	--	*	77	--
	3/29/01	open	54	--	*	124	--
	4/14/01	open	100	--	*	--	--
	4/26/01	open	85	--	*	--	--
	5/3/01	open	80	--	*	--	--
	5/23/01	open	10	--	*	--	--
	6/4/01	open	50	--	*	--	--
	6/21/01	open	65	--	*	--	--
	7/2/01	open	55	--	*	--	--
	7/16/01	open	45	--	*	--	--
	8/2/01	open	35	--	*	--	--
	8/10/01	open	20	--	*	--	--
	8/15/01	open	20	--	*	--	--
	8/27/01	open	65	--	*	--	--
	9/7/01	closed	--	--	*	--	--
	9/14/01	closed	--	--	*	--	--
	10/3/01	closed	--	--	*	--	--
	10/8/01	closed	--	--	*	--	--
	10/22/01	closed	--	--	*	--	--
	10/29/01	closed	--	--	*	--	--
	11/6/01	closed	--	--	*	--	--
	11/12/01	closed	--	--	*	--	--
	11/14/01	closed	--	--	*	--	--
	11/21/01	closed	--	--	*	--	--
	12/6/01	closed	--	--	*	--	--
	12/19/01	closed	--	--	*	--	--
	1/17/02	closed	--	--	*	--	--
	2/4/02	closed	--	--	*	--	--
	2/14/02	open	125	--	*	--	20
	3/5/02	open	115	--	*	--	20
	3/11/02	open	--	--	*	--	16
	3/25/02	closed	--	--	*	--	--
	4/2/02	closed	--	--	*	--	--
	4/5/02	closed	--	--	*	--	--
	4/19/02	closed	--	--	*	--	--
	5/6/02	closed	--	--	*	--	--
	5/21/02	closed	--	--	*	--	--
	6/19/02	closed	--	--	*	--	--
	6/28/02	closed	--	--	*	--	--
	7/10/02	closed	--	--	*	--	--

CAMBRIA

Table 4. TPE Well Parameters - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

Well ID	Date	Well Status (open/closed)	System/Stinger Vacuum (inches of H ₂ O)	Well Annulus Vacuum (inches of H ₂ O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Stinger Depth (ft below TOC)	
RW-14	5/24/00	--	80	--	*	--	12.33	
	10/6/00	--	100	--	*	--	--	
	11/29/00	--	>100	--	*	5830	--	
	3/29/01	open	54	--	*	120	--	
	4/14/01	open	100	--	*	--	--	
	4/26/01	open	85	--	*	--	--	
	5/3/01	open	80	--	*	--	--	
	5/23/01	open	10	--	*	--	--	
	6/4/01	open	50	--	*	--	--	
	6/21/01	open	65	--	*	--	--	
	7/2/01	open	55	--	*	--	--	
	7/16/01	open	45	--	*	--	--	
	8/2/01	open	35	--	*	--	--	
	8/10/01	open	20	--	*	--	--	
	8/15/01	open	20	--	*	--	--	
	8/27/01	open	65	--	*	--	--	
	9/7/01	closed	--	--	*	--	--	
	9/14/01	closed	--	--	*	--	--	
	10/3/01	closed	--	--	*	--	--	
	10/8/01	closed	--	--	*	--	--	
	10/22/01	closed	--	--	*	--	--	
	10/29/01	closed	--	--	*	--	--	
	11/6/01	closed	--	--	*	--	--	
	11/12/01	closed	--	--	*	--	--	
	11/14/01	closed	--	--	*	--	--	
	11/21/01	closed	--	--	*	--	--	
	12/6/01	closed	--	--	*	--	--	
	12/19/01	closed	--	--	*	--	--	
	1/17/02	closed	--	--	*	--	--	
	2/4/02	closed	--	--	*	--	--	
	2/14/02	open	--	125	--	*	--	20
	3/5/02	open	--	115	--	*	--	20
	3/11/02	closed	--	--	--	*	--	--
3/25/02	closed	--	--	--	*	--	--	
4/2/02	closed	--	--	--	*	--	--	
4/5/02	closed	--	--	--	*	--	--	
4/19/02	closed	--	--	--	*	--	--	
5/6/02	closed	--	--	--	*	--	--	
5/21/02	closed	--	--	--	*	--	--	
6/19/02	closed	--	--	--	*	--	--	
6/28/02	closed	--	--	--	*	--	--	
7/10/02	closed	--	--	--	*	--	--	

Notes:

* = Parameter could not be accurately measured due to the presence of water or water vapor.

-- = Data not available or not collected

C A M B R I A



APPENDIX A

Groundwater Monitoring Field Data Sheets

WELL SAMPLING FORM

Project Name: <i>Worthington</i>	Cambria Mgr: <i>RAS</i>	Well ID: <i>MW-3</i>
Project Number: <i>130-0105</i>	Date: <i>6-10-02</i>	Well Yield:
Site Address: <i>3055 5th St Oakland, Ca</i>	Sampling Method: <i>disposable bailer</i>	Well Diameter: <i>2" pvc</i>
		Technician(s): <i>SG</i>
Initial Depth to Water: <i>22.94</i>	Total Well Depth:	Water Column Height:
Volume/ft:	1 Casing Volume:	3 Casing Volumes:
Purging Device: <i>system</i>	Did Well Dewater?:	Total Gallons Purged:
Start Purge Time:	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
					<i>purged for 35 mins</i>

Fe = mg/L ORP = mV DO = mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<i>MW-3</i>	<i>6-10-02</i>	<i>7:30</i>	<i>WVON 1 Amber</i>	<i>Mer</i>	<i>TPH, BTP, MTSE TPHd</i>	

WELL SAMPLING FORM

Project Name: <i>Worthington</i>	Cambria Mgr: <i>RAS</i>	Well ID: <i>MU-2</i>
Project Number: <i>130-D105</i>	Date: <i>6-10-02</i>	Well Yield:
Site Address: <i>3055 5th St Oakland, Ca</i>	Sampling Method: <i>disposable bailer</i>	Well Diameter: <i>4" pvc</i>
		Technician(s): <i>SG</i>
Initial Depth to Water: <i>17.59</i>	Total Well Depth:	Water Column Height:
Volume/ft:	1 Casing Volume:	3 Casing Volumes:
Purging Device: <i>system</i>	Did Well Dewater?:	Total Gallons Purged:
Start Purge Time:	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
					<i>connected hose to system for purging</i>
					<i>purged for 20 mins</i>

Fe = mg/L ORP = mV DO = mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<i>MW-2</i>	<i>6-10-02</i>	<i>6:30</i>	<i>liver 1 Amber</i>	<i>HCl</i>	<i>TPH, BTEX, MTBE</i>	

WELL SAMPLING FORM

Project Name: <i>Worthington</i>	Cambria Mgr: <i>RAS</i>	Well ID: <i>MW-1</i>
Project Number: <i>130-0105</i>	Date: <i>6-10-02</i>	Well Yield:
Site Address: <i>305 S 5th St. Oakland, Ca</i>	Sampling Method: <i>disposable bailer</i>	Well Diameter: <i>4" pvc</i>
		Technician(s): <i>SG</i>
Initial Depth to Water: <i>24.10</i>	Total Well Depth:	Water Column Height:
Volume/ft:	1 Casing Volume:	3 Casing Volumes:
Purging Device: <i>system</i>	Did Well Dewater?:	Total Gallons Purged:
Start Purge Time:	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments

Fe = mg/L ORP = mV DO = mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<i>MW-1</i>	<i>6-10-02</i>	<i>6:00</i>	<i>4 vva 1 Amber</i>	<i>HCl</i>	<i>TPHs BTEX MTBE TAMD</i>	

WELL SAMPLING FORM

Project Name: <i>Washington</i>	Cambria Mgr: <i>RAS</i>	Well ID: <i>MW-4</i>
Project Number: <i>130-0105</i>	Date: <i>6-10-02</i>	Well Yield:
Site Address: <i>3055 5th St Oakland, Ca</i>	Sampling Method: <i>disposable bailer</i>	Well Diameter: <i>2" pvc</i>
		Technician(s): <i>SG</i>
Initial Depth to Water: <i>22.30</i>	Total Well Depth:	Water Column Height:
Volume/ft:	1 Casing Volume:	3 Casing Volumes:
Purging Device: <i>system</i>	Did Well Dewater?:	Total Gallons Purged:
Start Purge Time:	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments

Fe = mg/L ORP = mV DO = mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<i>MW-4</i>	<i>6-10-02</i>	<i>8:00</i>	<i>4 ves 1 Amber</i>	<i>HCL</i>	<i>TPH₅ BTX MTSE TPH_d</i>	

C A M B R I A



APPENDIX B

Analytical Results for Quarterly Groundwater Sampling



McC Campbell Analytical Inc.

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

Cambria Env. Technology 6262 Hollis St. Emeryville, CA 94608	Client Project ID: 130-0105-340; Worthington	Date Sampled: 06/10/02
		Date Received: 06/12/02
	Client Contact: Ron Scheele	Date Reported: 06/18/02
	Client P.O.:	Date Completed: 06/18/02

June 18, 2002

Dear Ron:

Enclosed are:

- 1). the results of 4 samples from your **130-0105-340; 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



QC SUMMARY REPORT FOR SW8021B/8015Cm

BatchID: 2428

Matrix: W

WorkOrder: 0206198

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		Ext. Date: 6/12/02		Spiked Sample ID: 0206209-011A				
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(gas)	ND	60	99	100	1.49	97.1	100	15	80	120
MTBE	ND	10	99.7	105	4.80	106	100	11	80	120
Benzene	0.5332	10	107	94.6	1.34	111	106	4.6	80	120
Toluene	0.5529	10	110	94.6	0.354	117	112	3.8	80	120
Ethylbenzene	ND	10	108	104	4.93	114	110	5.0	80	120
Xylenes	ND	30	103	108	6.25	113	110	3.1	80	120
%SS	105	10	105	106	0.509	104	105	2.0	80	120

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

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

N/A = not enough sample to perform matrix spike, or analyte concentration in sample exceeds spike amount.

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

* MS and / or MSD spike recoveries may not be near 100% or their RPDs near 0% if: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



QC SUMMARY REPORT FOR SW8015C

BatchID: 2417

Matrix: W

WorkOrder: 0206198

EPA Method: SW8015C		Extraction: SW3510C		Ext. Date: 6/12/02		Spiked Sample ID: N/A				
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	N/A	7500	N/A	N/A	N/A	89.1	90	1.0	70	130
%SS1	N/A	2500	N/A	N/A	N/A	111	113	1.4	70	130

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

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

N/A = not enough sample to perform matrix spike, or analyte concentration in sample exceeds spike amount.

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

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

GETE

0206198

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACIECO, CA 94553

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD
TURN AROUND TIME

RUSH 24 HOUR 48 HOUR 5 DAY

Report To: **Ron Scheels**

Bill To: **Cambria Env**

Company: Cambria Environmental Technology

6262 Hollis Street

Emeryville, CA 94608

Tele: (510) 450-1983

Fax: (510) 450-8295

Project #: 130-0105-340

Project Name: **Westhington**

Project Location: **3055 5th St. Oakland, Ca**

Sampler Signature: **S. Hill**

Analysis Request

Other

Comments

BTEX & TPH as Gas (602/8020 / 8015) MTDE	
TPH as Diesel (8015)	
Total Petroleum Oil & Grease (5520 F&F/R&F)	
Total Petroleum Hydrocarbons (418.1)	
EPA 601 / 8010	
BTEX ONLY (EPA 602 / 8020)	
EPA 608 / 8080	
EPA 608 / 8080 PCB's ONLY	
EPA 624 / 8240 / 8260	
EPA 625 / 8270	
PAH's / PNA's by EPA 625 / 8270 / 8310	
CAM-17 Metals	
LUFT 5 Metals	
Lead (7240/7421/239.2/6010)	
RCI	

x
(x)
x
x

SAMPLE ID	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED							
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other				
MW-1		6-10-02	6:00	1	Voa	x												
MW-2		6-10-02	6:30	1	Voa	x												
MW-3		6-10-02	7:30	1	Voa	x												
MW-4		6-10-02	8:00	1	Voa	x												

FIELD CONDITION
 LEAD SPACE AGENT
 PRESERVATION APPROPRIATE
 CONTAINERS
 VOA's analyzed

Relinquished By: S. Hill	Date: 6/12/02	Time: 1:30	Received By: secure location
Relinquished By: [Signature]	Date: 6/12/02	Time: 10:45	Received By: [Signature]
Relinquished By: [Signature]	Date: 6/12	Time: 2pm	Received By: [Signature]

Remarks: report results in EDF format

McCampbell Analytical Inc.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0206198

Client:

Cambria Env. Technology
 6262 Hollis St.
 Emeryville, CA 94608

TEL: (510) 450-1983
 FAX: (510) 450-8295
 ProjectNo: 130-0105-340; W
 PO:

12-Jun-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests	
					SW8015C	8021B/8015
0206198-001	MW1	Water	6/10/02 6:00:00 PM	B	B	A
0206198-002	MW-2	Water	6/10/02 6:30:00 PM		B	A
0206198-003	MW-3	Water	6/10/02 7:30:00 PM		B	A
0206198-004	MW-4	Water	6/10/02 8:00:00 PM		B	A

Comments:

Date/Time

Date/Time

Relinquished by: _____

Received by: _____

Relinquished by: _____

Received by: _____

Relinquished by: _____

Received by: _____

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

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

C A M B R I A



APPENDIX C

Analytical Results for TPE System Operation



McCAMPBELL ANALYTICAL INC.

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

Cambria Environmental Technology 6262 Hollis Street Emeryville, CA 94608	Client Project ID: #130-0105-343; Worthington	Date Sampled: 04/02/02
		Date Received: 04/03/02
	Client Contact: Ron Scheele	Date Extracted: 04/03/02
	Client P.O:	Date Analyzed: 04/03/02

04/10/02

Dear Ron:

Enclosed are:

- 1). the results of 2 samples from your #130-0105-343; 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. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director



McCAMPBELL ANALYTICAL INC.

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

Cambria Environmental Technology 6262 Hollis Street Emeryville, CA 94608	Client Project ID: #130-0105-343; Worthington	Date Sampled: 04/02/02
	Client Contact: Ron Scheele	Date Received: 04/03/02
	Client P.O:	Date Extracted: 04/04/02
		Date Analyzed: 04/04/02

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Recovery Surrogate
0204060-001	INF	Air	260,a	ND<3	6.2	5.0	0.77	3.0	---#
0204060-002	EFF	Air	ND	ND	ND	ND	ND	ND	108

⁺ ppm (mg/L) to ppmv (uL/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	Air	10 uL/L	1.5	0.15	0.15	0.15	0.25	
	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and air samples are reported in uL/L(ppmv), wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

cluttered chromatogram; sample peak coelutes with surrogate peak

*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.



McCAMPBELL ANALYTICAL INC.

110 2nd Ave. South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

QC REPORT

EPA 8015m + 8020

Date: 04/04/02

Extraction: EPA 5030

Matrix: Air

Compound	Concentration: ug/L			%Recovery		RPD
	Sample	MS	MSD	MS	MSD	

SampleID: 40402

Instrument GC-12

Surrogate1	ND	97.0	93.0	100.00	97	93	4.2
Xylenes	ND	32.5	32.6	30.00	108	109	0.3
Ethylbenzene	ND	10.6	10.5	10.00	106	105	0.9
Toluene	ND	10.4	10.3	10.00	104	103	1.0
Benzene	ND	10.5	10.3	10.00	105	103	1.9
MTBE	ND	10.2	10.2	10.00	102	102	0.0
TPH (gas)	ND	93.2	93.7	100.00	93	94	0.6

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

02040602c615.doc

MCCAMPBELL ANALYTICAL INC.

180 2ND AVENUE SOUTH, #127
PACHECO, CA 94553

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HOUR 48 HOUR 5 DAY

Report To: Ron Scheele Bill To: SIME

Company: Cambria Environmental Technology
6262 Holtis Street
Emeryville, CA 94608

Tel: (510) 450-1983 Fax: (510) 450-8295

Project #: 130-0105-343 Project Name: WORTHINGTON

Project Location: 3055 35TH AVE OAKLAND

Sampler Signature: *[Signature]*

Analysis Request Other Comments

SAMPLE ID	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVE								
		Date	Time			Water	Soil	Air	Silage	Other	Ice	HCl	HNO ₃	Other					
INF	Oakland	4/2/02	10AM	1	Bag			X											
EFF	Oakland	4/2/02	10AM	1	Bag			X											

TPH as Diesel (8015)	
Total Petroleum Oil & Grease (520 E&F/R&F)	
Total Petroleum Hydrocarbons (418.1)	
EPA 801 / 8010	
TRTEX ONLY (EPA 602 / 6020)	
EPA 808 / 8080	
EPA 606 / 8080 (CIDs ONLY)	
EPA 824 / 8240 / 8260	
EPA 825 / 8270	
PAH's / PNA's by EPA 625 / 8270 / 8310	
CAM-17 Metals	
LUFT 5 Metals	
Lead (72407421/239 2/6010)	
RCI	

NO NO
ALSO CONTAINING HEADSPACE ABSENT
PRESERVATION APPROPRIATE CONTAINERS
VOAST O&G METALS OTHER

Relinquished By: *[Signature]* Date: 4/2/02 Time: 3PM Received By: Severed Location
 Relinquished By: *[Signature]* Date: 4/3 Time: 1105 Received By: Michael W. Van 240
 Relinquished By: *[Signature]* Date: 4/3 Time: 1550 Received By: *[Signature]*

Remarks: Report in ppmv ; 10 ppmv limit
20ml injection volume
PLEASE FAX RESULTS

McC Campbell Analytical Inc.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0204060

Client:

Cambria Env. Technology
6262 Hollis St.
Emeryville, CA 94608

TEL:
FAX:
ProjectNo: #130-0105-343;
PO:

03-Apr-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests								
					8021B/8015								
0204060-001	INF	Air	4/2/02		A								
0204060-002	EFF	Air	4/2/02		A								

Comments: Report in ppmv; 10 ppmv limit 20 ml injection volume

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

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

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



McC Campbell Analytical Inc.

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

Cambria Env. Technology 6262 Hollis St. Emeryville, CA 94608	Client Project ID: #130-0105-343; Worthington	Date Sampled: 04/02/02
		Date Received: 04/04/02
	Client Contact: Ron Scheele	Date Reported: 04/10/02
	Client P.O.:	Date Completed: 04/10/02

April 10, 2002

Dear Ron:

Enclosed are:

- 1). the results of 3 samples from your #130-0105-343; 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



McCAMPBELL ANALYTICAL INC.

110 2nd Ave. South, #D7, Pacheco, CA 94553-5560

Telephone : 925-798-1620 Fax : 925-798-1622

<http://www.mccampbell.com> E-mail: main@mccampbell.com

QC REPORT

EPA 8015m + 8020

Date: 04/06/02

Extraction: EPA 5030

Matrix: Water

Compound	Concentration: ug/L			%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	

SampleID: 40602

Instrument GC-12

Surrogate1	ND	92.0	94.0	100.00	92	94	2.2
Xylenes	ND	32.7	33.5	30.00	109	112	2.4
Ethylbenzene	ND	10.7	11.2	10.00	107	112	4.6
Toluene	ND	10.6	10.9	10.00	106	109	2.8
Benzene	ND	10.6	11.0	10.00	106	110	3.7
MTBE	ND	10.6	11.3	10.00	106	113	6.4
TPH (gas)	ND	96.5	94.1	100.00	96	94	2.5

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{AmountSpiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

0204084 26614

McCAMPBELL ANALYTICAL INC.
110 2nd AVENUE SOUTH, #102
PACHECO, CA 94553

CHAIN OF CUSTODY RECORD
TURN AROUND TIME RUSH 24 HOUR 48 HOUR 5 DAY

Telephone: (925) 798-1620 Fax: (925) 798-1622
Report To: Ron Scheele Bill To: SAME
Company: Cambria Environmental Technology
6262 Hollis Street
Emeryville, CA 94608
Tele: (510) 450-1983 Fax: (510) 450-8295
Project #: 130-0105-2A3 Project Name: WORTHINGTON
Project Location: 3055 35th AVE OAKLAND CA
Sampler Signature: *[Signature]*

Analysis Request Other Comments

SAMPLE ID	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED							
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other				
INF	Oakland	4/2/02	11AM	3	Ven	X						X	X	X				
EFF-1	↓	↓	↓	3	Ven	X						X	X	X				
EFF-2	↓	↓	↓	3	Ven	X						X	X	X				

EPA 801/8010	EPA 808/8080	EPA 808/8080	EPA 824/8240	EPA 825/8270	PAH's / PNA's by EPA 825 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI										
--------------	--------------	--------------	--------------	--------------	--	---------------	---------------	-----------------------------	-----	--	--	--	--	--	--	--	--	--	--

VOAS/DEG/METALS/OTHER
 CONTAMINATION
 LEAD GRADE ABSENT
 PRESERVATION APPROPRIATE
 CONTAINERS

Relinquished By: *[Signature]* Date: 4/2/02 Time: 3pm
 Received By: *[Signature]* Date: 4/3/02 Time: 11:06
 Relinquished By: *[Signature]* Date: 4/4/02 Time: 9:55
 Received By: *[Signature]* Date: 4/4/02 Time: 6:00

Remarks:
 ONLY ANALYZE EFF-2 IF HL'S DETECTED IN EFF-1.
 FAX RESULTS PLEASE.
 TBVM

Sent By: McCampbell Analytical, Inc. | 1 925 798 4612; | Sep-5-01 8:42AM; | Page 2/2

McC Campbell Analytical Inc.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0204084

Client:

Cambria Env. Technology
 6262 Hollis St.
 Emeryville, CA 94608

TEL: (510) 450-1983
 FAX: (510) 450-8295
 ProjectNo: #130-0105-343;
 PO:

04-Apr-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests					
					8021B/8015					
0204084-001	INF	Water	4/2/02 11:00:00 AM		A					
0204084-002	EFF-1	Water	4/2/02 11:00:00 AM		A					
0204084-003	EFF-2	Water	4/2/02 11:00:00 AM		A					

Comments: Only analyze EFF-2 if HC's detected in EFF-1

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

NOTICE: Solid samples are discarded after 60 days and Non-Solid samples are discarded after 30 days unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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

McC Campbell Analytical Inc.

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

Cambria Env. Technology 6262 Hollis St. Emeryville, CA 94608	Client Project ID: #130-0105-343; Worthington	Date Sampled: 05/06/02
		Date Received: 05/07/02
	Client Contact: Ron Scheele	Date Reported: 05/13/02
	Client P.O.:	Date Completed: 05/13/02

May 13, 2002

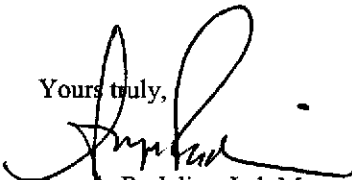
Dear Ron:

Enclosed are:

- 1). the results of 2 samples from your #130-0105-343; 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



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<http://www.mccampbell.com> E-mail: main@mccampbell.com

Cambria Environmental Technology 6262 Hollis Street Emeryville, CA 94608	Client Project ID: #130-0105-343; Worthington	Date Sampled: 05/06/02
	Client Contact: Ron Scheele	Date Received: 05/07/02
	Client P.O:	Date Extracted: 05/07/02
		Date Analyzed: 05/07/02

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Recovery Surrogate
0205085-001	INF	Air	500,a	ND<5.0	10	7.3	0.96	4.2	---#
0205085-002	EFF	Air	ND	ND	ND	ND	ND	ND	110

*ppm (mg/L) to ppmv (uL/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	Air	10 uL/L	1.5	0.15	0.15	0.15	0.25
	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005

* water and air samples are reported in uL/L(ppmv), wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

cluttered chromatogram; sample peak coelutes with surrogate peak

*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.



McCAMPBELL ANALYTICAL INC.

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

QC REPORT

EPA 8015m + 8020

Date: 05/07/02

Extraction: EPA 5030

Matrix: Water/Air

Compound	Concentration: ug/L			%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	

SampleID: 50702

Instrument GC-12

Surrogate1	ND	102.0	101.0	100.00	102	101	1.0
Xylenes	ND	29.9	30.0	30.00	100	100	0.3
Ethylbenzene	ND	11.0	10.0	10.00	110	100	9.5
Toluene	ND	10.0	10.0	10.00	100	100	0.0
Benzene	ND	10.0	10.0	10.00	100	100	0.0
MTBE	ND	9.0	9.1	10.00	90	91	1.1
TPH (gas)	ND	95.3	97.2	100.00	95	97	2.0

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

McC Campbell Analytical Inc.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0205085

Client:

Cambria Env. Technology
6262 Hollis St.
Emeryville, CA 94608

TEL: (510) 450-1983
FAX: (510) 450-8295
ProjectNo: #130-0105-343;
PO:

07-May-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests					
					8021B/8015					
0205085-001	INF	Air	5/6/02 12:00:00 PM	A						
0205085-002	EFF	Air	5/6/02 12:00:00 PM	A						

Comments:

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

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

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

McC Campbell Analytical Inc.

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

Cambria Env. Technology 6262 Hollis St. Emeryville, CA 94608	Client Project ID: #130-0105-343; Worthington	Date Sampled: 05/06/02
		Date Received: 05/07/02
	Client Contact: Ron Scheele	Date Reported: 05/14/02
	Client P.O.:	Date Completed: 05/14/02

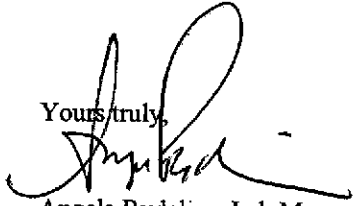
May 14, 2002

Dear Ron:

Enclosed are:

- 1). the results of 3 samples from your #130-0105-343; 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

QC SUMMARY REPORT FOR SW8021B/8015Cm

BatchID: 1713

Matrix: W

WorkOrder: 0205087

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		Ext. Date: 5/07/02		Spiked Sample ID: N/A				
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(gas)	N/A	60	N/A	N/A	N/A	107	111	4.1	80	120
MTBE	N/A	10	N/A	N/A	N/A	85.1	88.7	4.1	80	120
Benzene	N/A	10	N/A	N/A	N/A	91.1	97.6	6.9	80	120
Toluene	N/A	10	N/A	N/A	N/A	94.3	101	6.5	80	120
Ethylbenzene	N/A	10	N/A	N/A	N/A	94.5	102	7.2	80	120
Xylenes	N/A	30	N/A	N/A	N/A	94.3	103	9.1	80	120
%SS	N/A	10	N/A	N/A	N/A	102	103	1.0	80	120

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

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

N/A = not enough sample to perform matrix spike, or analyte concentration in sample exceeds spike amount.

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

* MS and / or MSD spike recoveries may not be near 100% or their RPDs near 0% if: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

McCampbell Analytical Inc.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0205087

Client:
Cambria Env. Technology
6262 Hollis St.
Emeryville, CA 94608

TEL: (510) 450-1983
FAX: (510) 450-8295
ProjectNo: #130-0105-343;
PO:

07-May-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests								
					8021B/8015								
0205087-001	INF	Water	5/6/02 11:30:00 AM		A								
0205087-002	EFF-1	Water	5/6/02 11:30:00 AM		A								
0205087-003	EFF-2	Water	5/6/02 11:30:00 AM		A								

Comments:

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

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

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



McC Campbell Analytical Inc.

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

Cambria Env. Technology 6262 Hollis St. Emeryville, CA 94608	Client Project ID: #130-0105-343; Worthington	Date Sampled: 06/05/02
		Date Received: 06/06/02
	Client Contact: Ron Scheele	Date Reported: 06/13/02
	Client P.O.:	Date Completed: 06/13/02

June 13, 2002

Dear Ron:

Enclosed are:

- 1). the results of 2 samples from your #130-0105-343; 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



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 Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

Cambria Environmental Technology 6262 Hollis Street Emeryville, CA 94608	Client Project ID: #130-0105-343; Worthington	Date Sampled: 06/05/02
	Client Contact: Ron Scheele	Date Received: 06/06/02
	Client P.O:	Date Extracted: 06/06-06/07/02
		Date Analyzed: 06/06-06/07/02

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Recovery Surrogate
0206082-001	INF	Air	73,a	ND	2.3	1.0	ND	0.98	---
0206082-002	EFF	Air	ND	ND	ND	ND	ND	ND	108


⁺ ppm (mg/L) to ppmv (uL/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	Air	10 uL/L	1.5	0.15	0.15	0.15	0.25	
	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and air samples are reported in uL/L(ppmv), wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

^a cluttered chromatogram; sample peak coelutes with surrogate peak

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

 Edward Hamilton, Lab Director



McC Campbell Analytical Inc.

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

BatchID: 2314

Matrix: A

WorkOrder: 0206082

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		Ext. Date: 6/06/02		Spiked Sample ID: N/A				
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	uL/L	uL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(gas)	N/A	60	N/A	N/A	N/A	115	109	5.0	80	120
MTBE	N/A	10	N/A	N/A	N/A	110	91.3	18	80	120
Benzene	N/A	10	N/A	N/A	N/A	95.4	96.8	1.5	80	120
Toluene	N/A	10	N/A	N/A	N/A	98.2	101	2.3	80	120
Ethylbenzene	N/A	10	N/A	N/A	N/A	99.2	101	1.5	80	120
Xylenes	N/A	30	N/A	N/A	N/A	100	103	3.3	80	120
%SS	N/A	10	N/A	N/A	N/A	100	100	0.15	80	120

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

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

N/A = not enough sample to perform matrix spike, or analyte concentration in sample exceeds spike amount.

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

* MS and / or MSD spike recoveries may not be near 100% or their RPDs near 0% if: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

McC Campbell Analytical Inc.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0206082

Client:

Cambria Env. Technology
 6262 Hollis St.
 Emeryville, CA 94608

TEL: (510) 450-1983
 FAX: (510) 450-8295
 ProjectNo: #130-0105-343;
 PO:

06-Jun-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests						
					8021B/8015						
0206082-001	INF	Air	6/5/02 4:00:00 PM		A						
0206082-002	EFF	Air	6/5/02 4:00:00 PM		A						

Comments:

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

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

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



McC Campbell Analytical Inc.

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Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

Cambria Env. Technology 6262 Hollis St. Emeryville, CA 94608	Client Project ID: 130-0105-343; Worthington	Date Sampled: 06/05/02
		Date Received: 06/06/02
	Client Contact: Ron Scheele	Date Reported: 06/13/02
	Client P.O.:	Date Completed: 06/13/02

June 13, 2002

Dear Ron:

Enclosed are:

- 1). the results of 3 samples from your 130-0105-343; 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



QC SUMMARY REPORT FOR SW8021B/8015Cm

BatchID: 2314

Matrix: W

WorkOrder: 0206086

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		Ext. Date: 6/06/02		Spiked Sample ID: N/A				
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(gas)	N/A	60	N/A	N/A	N/A	115	109	5.0	80	120
MTBE	N/A	10	N/A	N/A	N/A	110	91.3	18	80	120
Benzene	N/A	10	N/A	N/A	N/A	95.4	96.8	1.5	80	120
Toluene	N/A	10	N/A	N/A	N/A	98.2	101	2.3	80	120
Ethylbenzene	N/A	10	N/A	N/A	N/A	99.2	101	1.5	80	120
Xylenes	N/A	30	N/A	N/A	N/A	100	103	3.3	80	120
%SS	N/A	10	N/A	N/A	N/A	100	100	0.15	80	120

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

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

N/A = not enough sample to perform matrix spike, or analyte concentration in sample exceeds spike amount.

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

* MS and / or MSD spike recoveries may not be near 100% or their RPDs near 0% if: a) the sample is inhomogeneous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

McCampbell Analytical Inc.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0206086

Client:

Cambria Env. Technology
6262 Hollis St.
Emeryville, CA 94608

TEL: (510) 450-1983
FAX: (510) 450-8295
ProjectNo: 130-0105-343; W
PO:

06-Jun-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	8021B/8015	Requested Tests
0206086-001	INF	Water	6/5/02 3:30:00 PM		A	
0206086-002	EFF-1	Water	6/5/02 3:30:00 PM		A	
0206086-003	EFF-2	Water	6/5/02 3:30:00 PM		A	

Comments:

Date/Time

Date/Time

Relinquished by:

Received by:

Relinquished by:

Received by:

Relinquished by:

Received by:

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

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

MCCAMPBELL ANALYTICAL INC.

110 2ND AVENUE SOUTH, #103
PACHECO, CA 94553

Telephone: (925) 798-1620

Fax: (925) 798-1622

Report To: Ron Scheele

Bill To: SAME

Company: Cambria Environmental Technology

6262 Hollis Street

Emeryville, CA 94608

Tele: (510) 450-1983

Fax: (510) 450-8295

Project #: 130-0105-2A3

Project Name: Washington

Project Location: 3055 35TH AVE OAKLAND, CA

Sampler Signature: *[Signature]*

2008

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HOUR 48 HOUR 5 DAY

Analysis Request		Other	Comments
EPA 8017/8010			
EPA 808/8080			
EPA 602/8080			
EPA 808/8080			
EPA 602/8080			
EPA 624/8240/8260			
EPA 625/8270			
PAH's / PNA's by EPA 625/8270/8310			
CAM-17 Metals			
LUFT 5 Metals			
Lead (7240/7421/239.3/6010)			
RCI			

SAMPLE ID	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED					
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other		
INF	Oakland	6/3/02	3:30p	3	Vac	X						X	X			
EFF-1	↓	↓	↓	3	Vac	X						X	X			
EFF-2	↓	↓	↓	3	Vac	X						X	X			

TPH as Diesel (8015)	Total Petroleum Oil & Grease (5920 E&F/R&F)	Total Petroleum Hydrocarbons (A18.1)	EPA 8017/8010	EPA 602/8080	EPA 808/8080	EPA 602/8080	EPA 624/8240/8260	EPA 625/8270	PAH's / PNA's by EPA 625/8270/8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.3/6010)	RCI

Relinquished By: <i>[Signature]</i>	Date: 6/6/02	Time: 7:30	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date: 6/6	Time: 2:30	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date: 6/6	Time: 3:00	Received By: <i>[Signature]</i>

Remarks: ONLY ANALYZE EFF-2 IF HCl'S DETECTED IN EFF-1.
FAX RESULTS PLEASE.

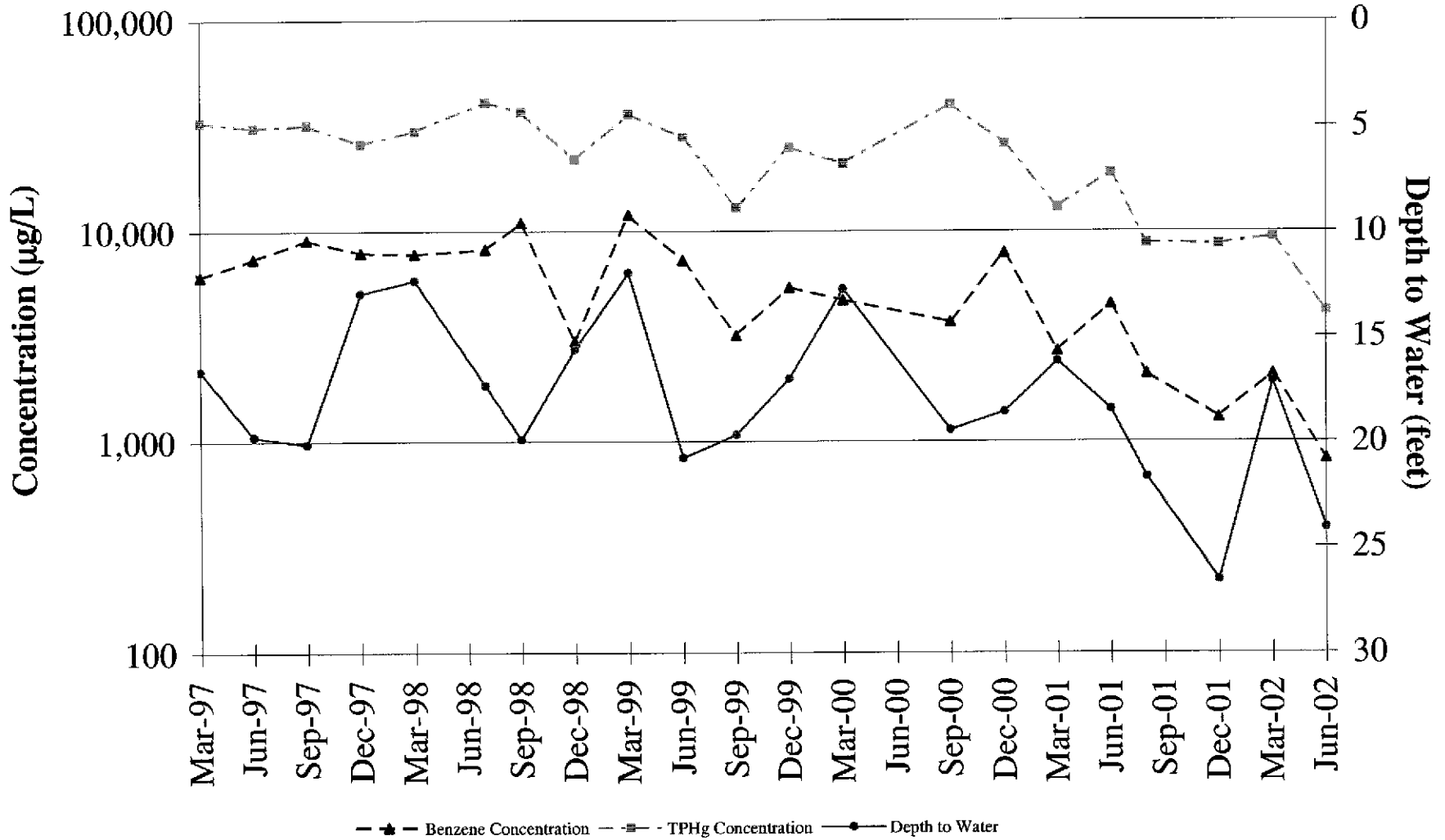
C A M B R I A



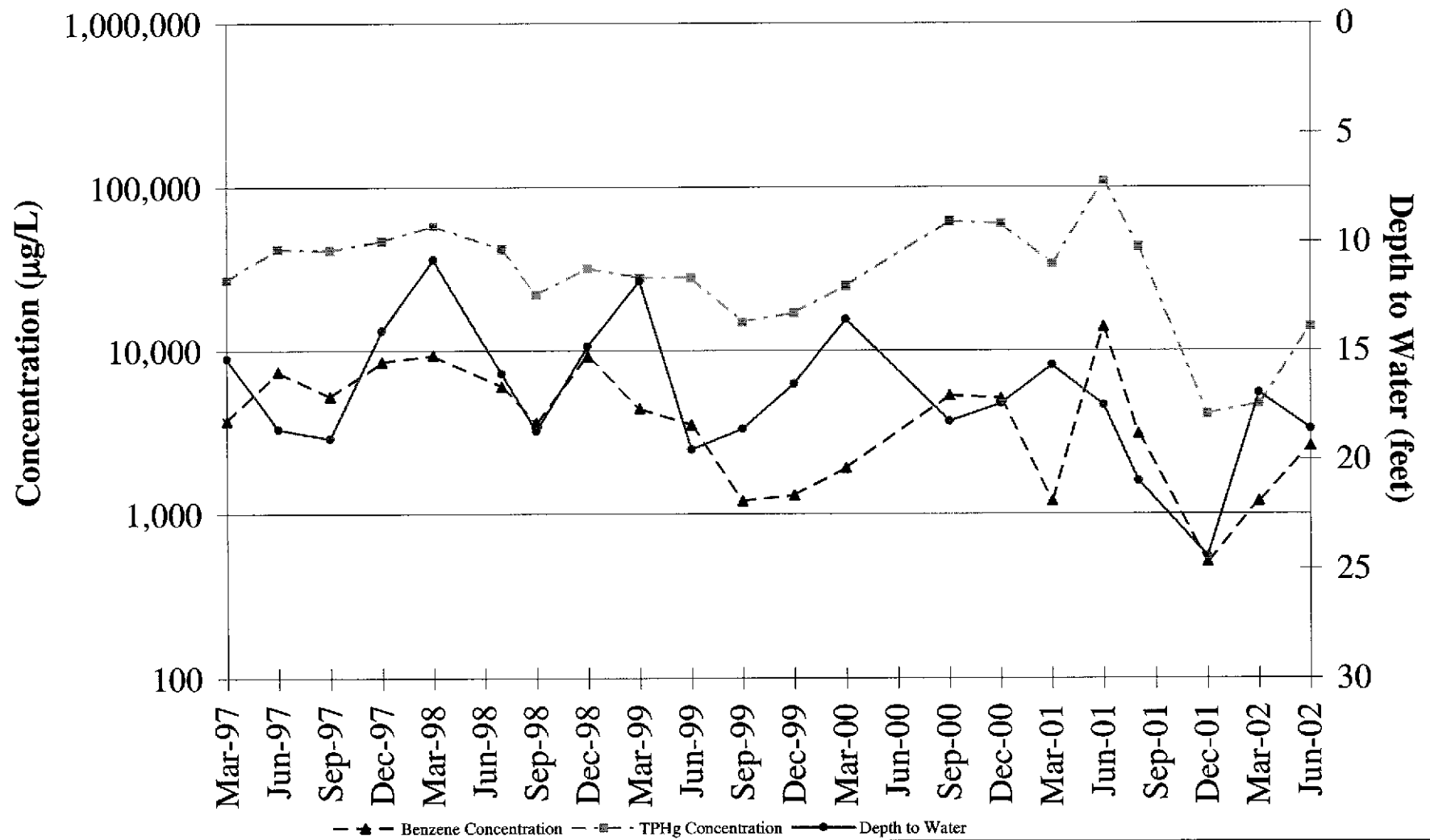
APPENDIX D

TPHg and Benzene Concentration Trend Graphs

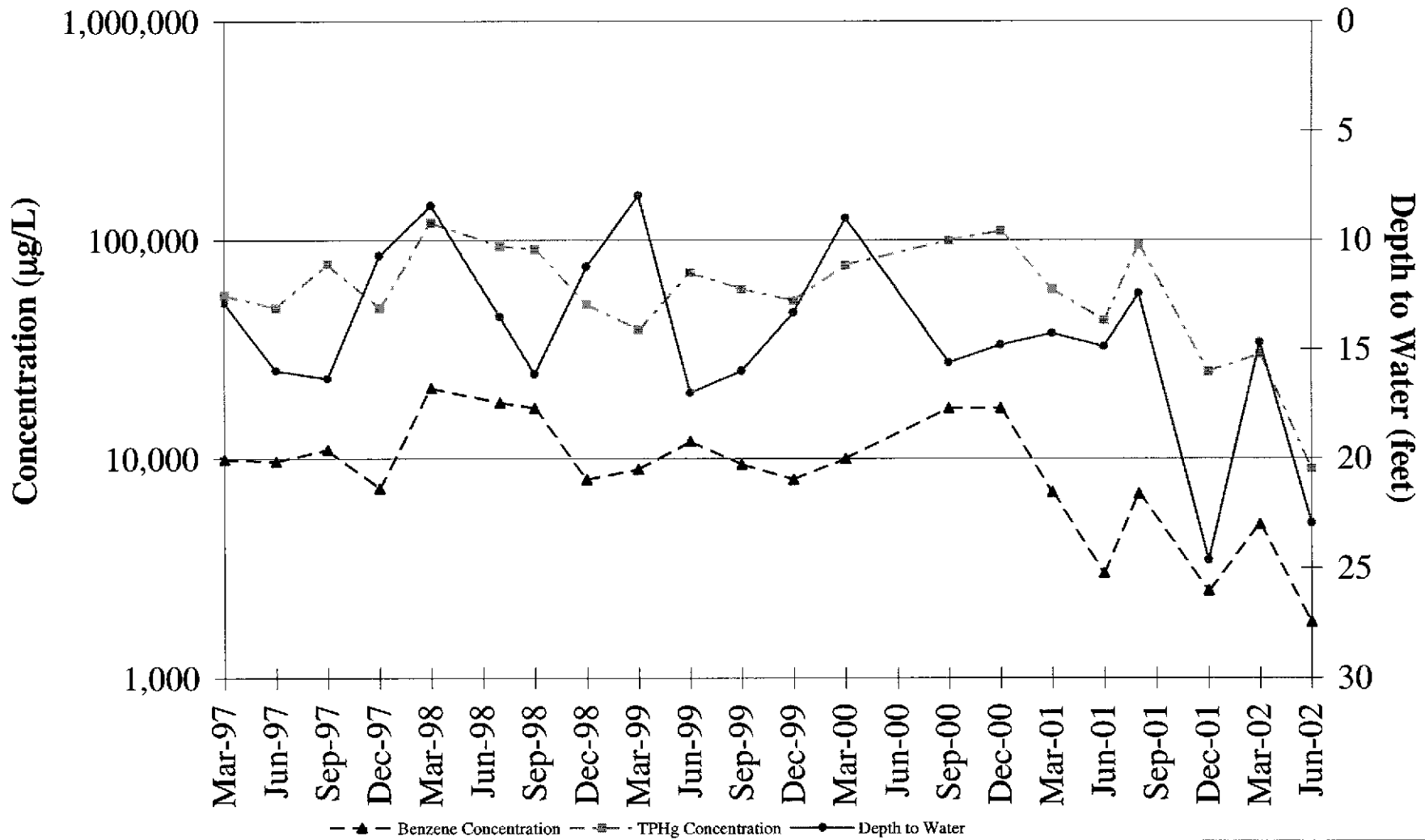
TPHg and Benzene Concentration Trends Well MW-1 (March 1997 to Present)



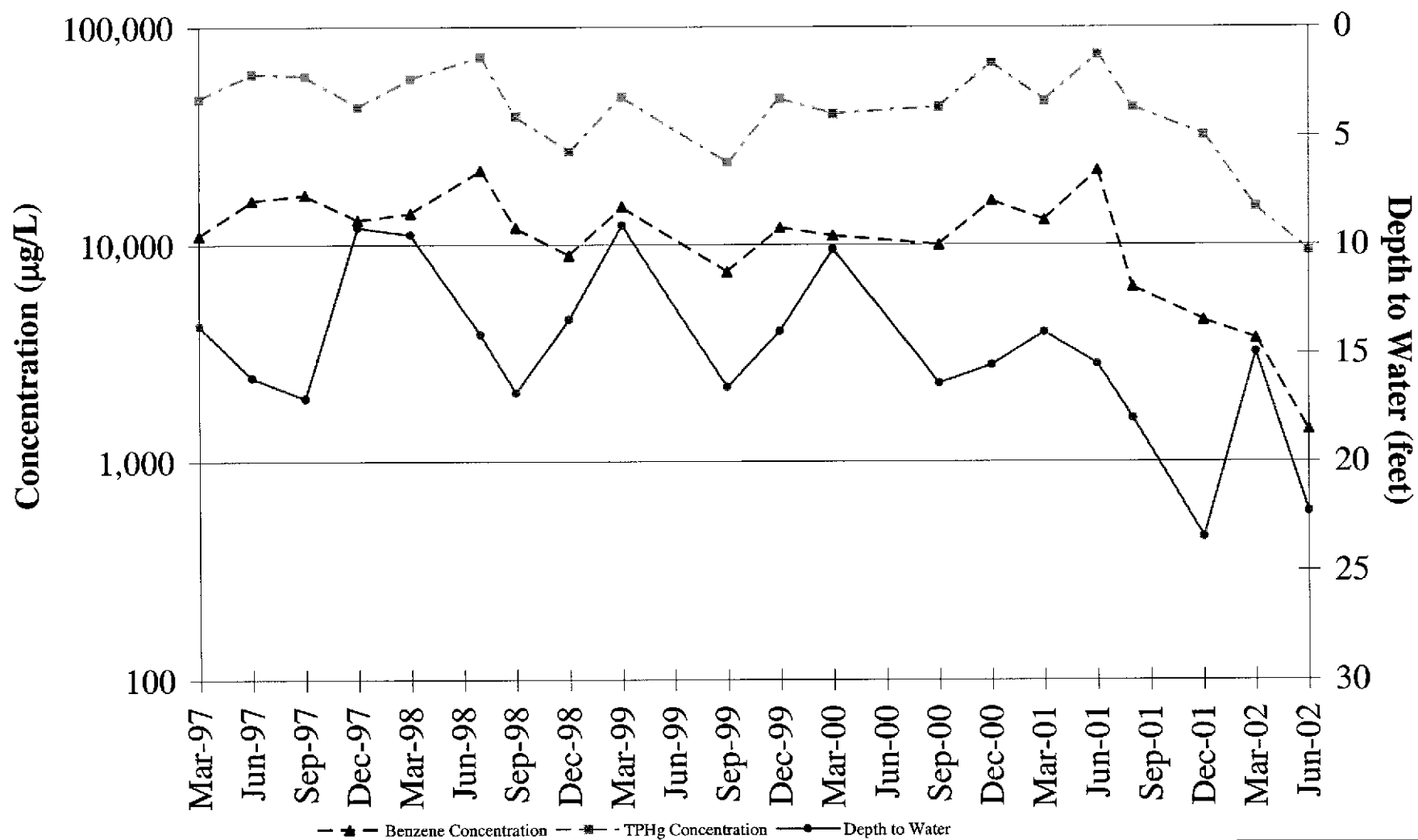
TPHg and Benzene Concentration Trends Well MW-2 (March 1997 to Present)



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



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



C A M B R I A



APPENDIX E

Electronic Delivery Confirmations

AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Your EDF file has been successfully uploaded!

Confirmation Number: 9374192893

Date/Time of Submittal: 8/1/2002 1:32:40 PM

Facility Global ID: T0600100538

Facility Name: EXXON

Submittal Title: Worthington, 2nd Qtr 2002, GW Analytical Data

Submittal Type: GW Monitoring Report

Logged in as CAMBRIA-EM (AUTH_RP)

CONTACT SITE ADMINISTRATOR.

AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

UPLOADING A GEO_Z FILE

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

**Submittal Title: Worthington Well Elevation
Data**

Submittal Date/Time: 8/1/2002 1:46:16 PM

**Confirmation 1013641178
Number:**

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Submittal Report For EXXON:

page 1 of 1

<u>Title</u>	<u>Type</u>	<u>Submitted</u>	<u>Submittal Status</u>	<u>Confirmation #</u>	
GEO_MAP	GEO_MAP	6/7/2002	AWAITING APPROVAL	2839451432	Delete Submittal
Worthington, 2nd Qtr 2002, GW Analytical Data	GWM_R	8/1/2002	AWAITING APPROVAL	9374192893	Delete Submittal
Worthington 2nd Qtr 2002, GW Depths	GEO_WELL	8/1/2002	AWAITING APPROVAL	4957340836	Delete Submittal
Worthington Well Elevation Data	GEO_Z	8/1/2002	AWAITING APPROVAL	1013641178	Delete Submittal

Logged in as CAMBRIA-EM (AUTH_RP)

CONTACT SITE ADMINISTRATOR.