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January 8, 2001

Mr. Mark Borsuk, Esq.
1626 Vallejo St.
San Francisco, CA 94123-5116

Re: **Fourth Quarter 2000 Monitoring Report**
1432 Harrison Street
Oakland, California
Cambria Project #540-0188

Dear Mr. Borsuk:

As you requested, Cambria Environmental Technology, Inc. (Cambria) is submitting this fourth quarter groundwater monitoring report for the above-referenced site. Presented in the report are the fourth quarter 2000 activities and results and the anticipated first quarter 2001 activities. Attached are additional copies for submittal to the regulatory agency.

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

Sincerely,
Cambria Environmental Technology, Inc.

Ron Scheele, RG
Senior Geologist

Attachments: Fourth Quarter 2000 Monitoring Report

Oakland, CA
San Ramon, CA
Sonoma, CA
Portland, OR

Cambria Environmental Technology, Inc.

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
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FOURTH QUARTER 2000 MONITORING REPORT

1432 Harrison Street
Oakland, California
Cambria Project #540-0188

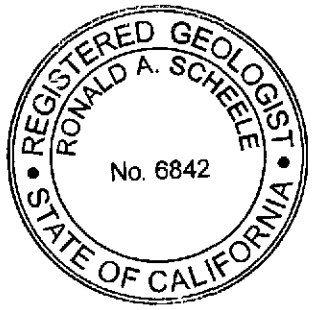
January 8, 2001

Prepared for:

Mr. Mark Borsuk, Esq.
1626 Vallejo St.
San Francisco, CA 94123-5116

Prepared by:

Cambria Environmental Technology, Inc.
1144 65th Street, Suite B
Oakland, California 94608



Jason Olson
Staff Environmental Scientist

Ron Scheele, RG
Senior Geologist

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FOURTH QUARTER 2000 MONITORING REPORT

1432 Harrison Street
Oakland, California
Cambria Project #540-0188-030

January 8, 2001

INTRODUCTION

On behalf of Mr. Mark Borsuk, Esq., Cambria Environmental Technology, Inc. (Cambria) is submitting this fourth quarter groundwater monitoring report for the above-referenced site (see Figure 1). Presented below are the fourth quarter 2000 activities and results and the anticipated first quarter 2001 activities.

FOURTH QUARTER 2000 ACTIVITIES AND RESULTS

Monitoring Activities

Field Activities: On December 5, 2000, Cambria conducted quarterly monitoring activities. Cambria gauged and inspected for separate-phase hydrocarbons (SPH) wells MW-1 through MW-6 (see Figure 1). Groundwater samples were collected from all wells not containing SPH. Field Data Sheets are presented as Appendix A.

Sample Analyses: Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified EPA Method 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tert butyl ether (MTBE) by EPA Method 8020. Any samples containing MTBE were further analyzed for MTBE using EPA Method 8260. Analytical results are included as Appendix B. Groundwater elevations are shown on Figure 1.

Monitoring Results

Groundwater Flow Direction: Based on depth-to-water measurements collected during Cambria's December 5, 2000 site visit, groundwater flow beneath the site is divided. On the south side of the former USTs, groundwater flows toward the south-southwest at a rate of 0.025 feet/feet, while on the north side of the former USTs, groundwater flows toward the north-northeast at a rate of 0.016 feet/feet (Figure 1). This is consistent with historical groundwater flow rates and directions.

Hydrocarbon Distribution in Groundwater: Hydrocarbon concentrations detected this quarter are consistent with historical results and remain relatively high in the vicinity of the former USTs. No SPH were detected in any of the wells. The highest TPHg and benzene concentrations were detected in well MW-1 at 220,000 micrograms per liter (µg/L) and 42,000 µg/L, respectively. No MTBE concentrations were detected in any of the wells at the site.

Corrective Action Activities

Remediation System: Cambria has prepared a cost estimate detailing remediation system installation costs and has submitted the package to the UST Cleanup Fund for pre-approval.

ANTICIPATED FOURTH QUARTER 2000 ACTIVITIES

Groundwater Sampling: Cambria will gauge all wells, check the wells for SPH, and collect groundwater samples from wells MW-1, MW-2, MW-4, MW-5, and MW-6. Groundwater samples will be analyzed for TPHg by Modified EPA Method 8015 and BTEX and MTBE by EPA Method 8020. Any samples containing MTBE will be confirmed by EPA Method 8260. Cambria will prepare a groundwater monitoring report summarizing the monitoring activities and results.

Remediation System: Cambria is awaiting UST Cleanup Fund pre-approval prior to installing the remediation system.

APPENDIXES

Figure 1- Groundwater Elevation Contours
Table 1 - Groundwater Elevation and Analytical Data
Appendix A – Field Data Sheets
Appendix B - Laboratory Analytical Results

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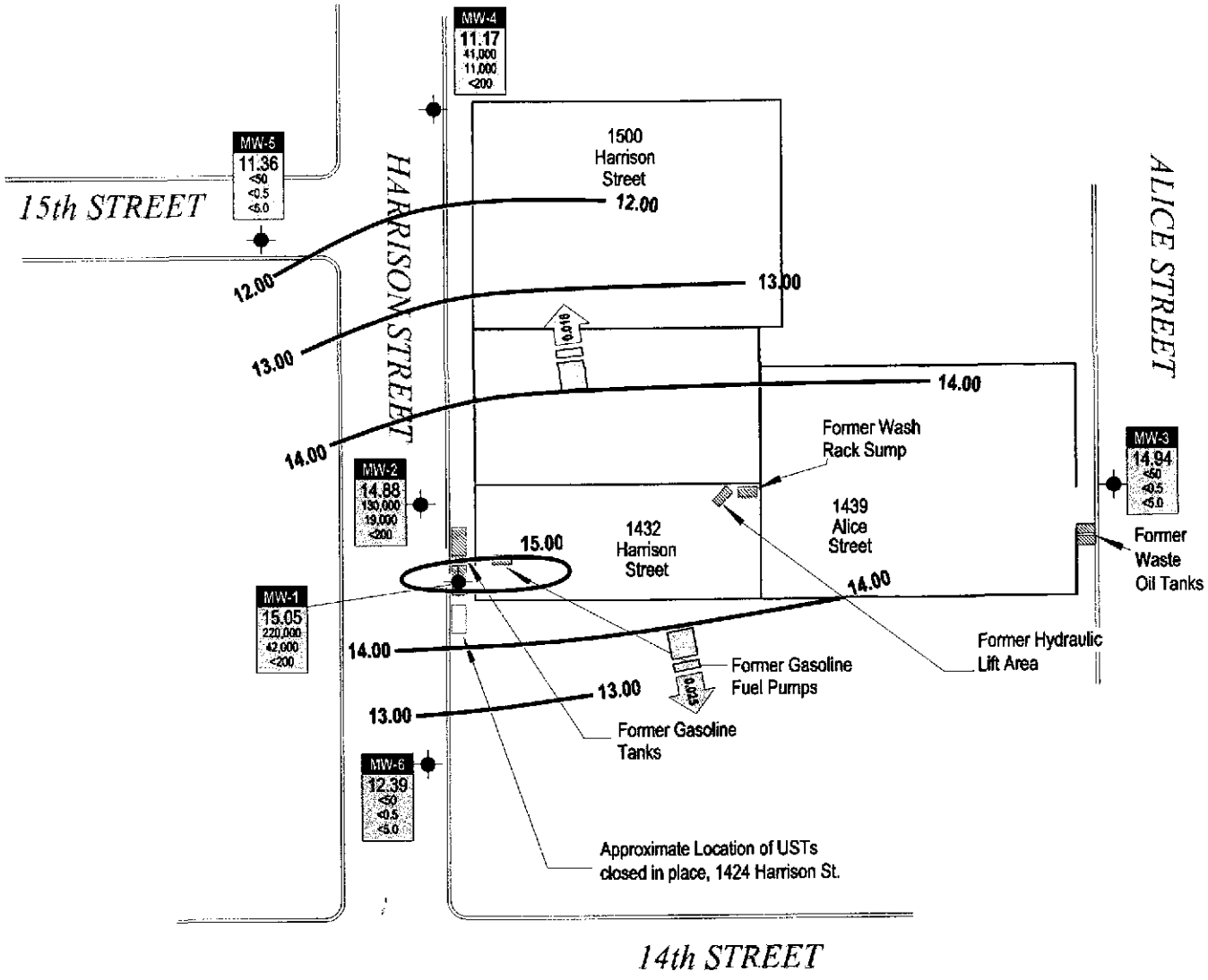

EXPLANATION

- Groundwater monitoring well
- 14.00 — Groundwater elevation contour, in feet above msl, dashed where inferred
- Groundwater flow direction and gradient
- Well ID — Well designation
- ELEV — Groundwater elevation, in feet above mean sea level (msl)
- TPHg, Benzene, MTBE — Hydrocarbons in groundwater, in ug/l. MTBE analysis for wells MW-2 and MW-4 by EPA Method 8260, all others by EPA Method 8020.

N

0 50 100

Scale (ft)

FIGURE 1

H:\SB-2004\OAK-188\FIGURES\4QM00-MP.DWG

1432 Harrison Street

Oakland, California

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Groundwater Elevation Contours

December 5, 2000

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Table 1. Groundwater Elevation and Analytic Data - 1432 Harrison St., Oakland, CA.

Well/Boring ID	Date	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
					<----------(Concentrations in µg/l)---------->						
	6/27/95	35.18	18.74	16.44	120,000	23,000	30,000	2,700	13,000	--	--
	7/7/95	35.18	18.80	16.38	120,000	23,000	30,000	2,700	13,000	--	--
	9/28/95	35.18	19.30	15.88	110,000	23,000	29,000	2,500	11,000	--	--
	12/20/95	35.18	20.24	14.94	83,000	980	1,800	2,200	10,000	--	--
	3/26/96	35.18	19.69	15.49	150,000	23,000	32,000	2,800	12,000	<200*	d
	6/20/96	35.18	19.20	15.98	94,000	15,000	23,000	2,400	12,000	<200*	--
	9/26/96	35.18	19.80	15.38	150,000	20,000	29,000	2,800	12,000	ND**	--
	10/28/96	35.18	20.18	15.00	--	--	--	--	--	--	--
	12/12/96	35.18	20.17	15.01	58,000	3,100	11,000	1,700	8,100	220*	--
	3/31/97	35.18	19.67	15.51	38,000	6,000	7,900	690	3,300	ND*	--
	6/27/97	35.18	19.68	15.50	62,000	13,000	16,000	1,300	6,000	ND*	--
	9/9/97	35.18	20.20	14.98	81,000	16,000	18,000	1,800	8,600	ND***	--
	12/18/97	35.18	19.80	15.38	110,000	18,000	26,000	2,200	9,500	ND***	--
	3/12/98	35.18	18.07	17.11	120,000	16,000	26,000	2,200	9,400	ND***	--
	6/22/98	35.18	18.29	16.89	38,000	9,800	9,500	1,500	6,000	--	--
	9/18/98	35.18	19.09	16.09	68,000	12,000	16,000	1,400	5,900	--	--
	12/23/98	35.18	19.67	15.51	180,000	16,000	22,000	2,200	8,300	--	--
	3/29/99	35.18	18.97	16.21	16,600	1,380	1,920	373	1,840	--	--
	6/23/99	35.18	18.25	16.93	41,000	10,000	9,400	1,100	5,000	--	--
	9/24/99	35.18	19.60	15.58	40,600	4,880	3,490	1,090	4,560	--	--
	12/23/99	35.18	20.21	14.97	61,900	6,710	9,320	1,150	5,360	--	--
	3/21/00	35.18	18.93	16.25	98,000	14,000	21,000	1,600	6,900	<1600	a
	7/3/00	35.18	19.38	15.80	140,000	18,000	33,000	2,600	11,000	<200*	a
	9/7/00	35.18	19.83	15.35	110,000	17,000	21,000	2,200	9,700	<100***	a,l
	12/5/00	**35.18**	**20.30**	**14.88**	**130,000**	**19,000**	**28,000**	**2,500**	**11,000**	**<200**	**a**
MW-3	8/1/94	--	--	--	<50	<0.5	<0.5	<0.5	<2.0	--	--
	12/21/94	33.97	18.82	15.15	<50	<0.5	<0.5	<0.5	<0.5	--	e
	3/13/95	33.97	17.86	16.11	<50	<0.5	<0.5	<0.5	<0.5	--	f,g
	7/7/95	33.97	18.25	15.72	--	--	--	--	--	--	h
	9/28/95	33.97	18.00	15.97	--	--	--	--	--	--	--
	12/20/95	33.97	18.74	15.23	--	--	--	--	--	--	--
	3/26/96	33.97	18.25	15.72	--	--	--	--	--	--	--

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Table 1. Groundwater Elevation and Analytic Data - 1432 Harrison St., Oakland, CA.

Well/Boring ID	Date	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
					<----------(Concentrations in µg/l)---------->						
	6/20/96	33.97	18.35	15.62	--	--	--	--	--	--	--
	9/26/96	33.97	19.12	14.85	--	--	--	--	--	--	--
	10/28/96	33.97	19.11	14.86	--	--	--	--	--	--	--
	12/12/96	33.97	18.61	15.36	--	--	--	--	--	--	--
	3/31/97	33.97	18.35	15.62	--	--	--	--	--	--	--
	6/27/97	33.97	18.81	15.16	--	--	--	--	--	--	--
	9/9/97	33.97	19.18	14.79	--	--	--	--	--	--	--
	12/18/97	33.97	18.64	15.33	--	--	--	--	--	--	--
	3/12/98	33.97	17.56	16.41	--	--	--	--	--	--	--
	6/22/98	33.97	18.64	15.33	--	--	--	--	--	--	--
	9/18/98	33.97	18.33	15.64	--	--	--	--	--	--	--
	12/23/98	33.97	18.60	15.37	--	--	--	--	--	--	--
	3/29/99	33.97	17.85	16.12	--	--	--	--	--	--	--
	6/23/99	33.97	18.67	15.30	--	--	--	--	--	--	--
	9/24/99	33.97	18.64	15.33	--	--	--	--	--	--	--
	12/23/99	33.97	19.32	14.65	--	--	--	--	--	--	--
	3/21/00	33.97	17.89	16.08	--	--	--	--	--	--	--
	7/3/00	33.97	18.40	15.57	--	--	--	--	--	--	--
	9/7/00	33.97	18.75	15.22	--	--	--	--	--	--	--
	12/5/00	**33.97**	**19.03**	**14.94**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	--
MW-4	10/28/96	30.77	19.32	11.45	10,000	3,900	420	400	360	<200*	--
	12/12/96	30.77	19.42	11.35	11,000	4,200	410	420	260	32*	--
	3/31/97	30.77	18.67	12.10	ND	ND	ND	ND	ND	ND*	--
	6/27/97	30.77	19.08	11.69	160	49	1.2	ND	5.9	ND*	--
	9/9/97	30.77	19.33	11.44	7,400	5,000	410	230	470	33*	--
	12/18/97	30.77	19.17	11.60	710	170	8.0	ND	39	ND***	--
	3/12/98	30.77	17.68	13.09	1,300	410	21	ND	57	ND***	--
	6/22/98	30.77	17.63	13.14	ND	ND	ND	ND	ND	--	--
	9/18/98	30.77	18.58	12.19	ND	42	1.6	ND	4.8	--	--
	12/23/98	30.77	19.01	11.76	1,900	1,000	76	50	120	--	--
	3/29/99	30.77	18.35	12.42	ND	ND	ND	ND	ND	--	--

Table 1. Groundwater Elevation and Analytic Data - 1432 Harrison St., Oakland, CA.

Well/Boring ID	Date	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
					<----------(Concentrations in µg/l)---------->						
	6/23/99	30.77	17.58	13.19	ND	ND	ND	ND	ND	--	--
	9/24/99	30.77	19.05	11.72	9,150	3,270	131	34	537	--	--
	12/23/99	30.77	19.41	11.36	12,200	5,360	275	424	592	--	--
	3/21/00	30.77	18.42	12.35	45,000	16,000	1,100	1,400	1,900	1400* (<35)***	a,l
	7/3/00	30.77	18.82	11.95	33,000	10,000	720	840	1,800	<200*	a
	9/7/00	30.77	19.21	11.56	26,000	8,800	800	740	1,500	<50***	a,l,m
	12/5/00	**30.77**	**19.60**	**11.17**	**41,000**	**11,000**	**840**	**930**	**1,900**	**<200**	**a**
MW-5	10/28/96	31.61	19.88	11.73	90	4.0	0.6	<0.50	<0.50	16*	--
	12/12/96	31.61	20.09	11.52	230	5.6	0.9	ND	0.9	3.6*	--
	3/31/97	31.61	19.24	12.37	90	3.1	ND	ND	ND	ND*	--
	6/27/97	31.61	19.16	12.45	ND	ND	ND	ND	ND	ND*	--
	9/9/97	31.61	19.93	11.68	ND	ND	ND	ND	ND	ND*	--
	12/18/97	31.61	19.77	11.84	ND	ND	ND	ND	ND	ND***	--
	3/12/98	31.61	19.77	11.84	79	2.3	ND	0.8	ND	ND*	--
	6/22/98	31.61	18.08	13.53	ND	ND	ND	ND	ND	--	--
	9/18/98	31.61	19.12	12.49	ND	ND	ND	ND	ND	--	--
	12/23/98	31.61	19.60	12.01	ND	0.8	0.9	ND	ND	--	--
	3/29/99	31.61	18.88	12.73	ND	ND	ND	ND	ND	--	--
	6/23/99	31.61	18.05	13.56	ND	ND	ND	ND	ND	--	--
	9/24/99	31.61	19.61	12.00	ND	ND	ND	ND	ND	--	--
	12/23/99	31.61	20.01	11.60	ND	ND	ND	ND	ND	--	--
	3/21/00	31.61	19.05	12.56	140	<0.5	<0.5	<0.5	<0.5	<5.0	k
	7/3/00	31.61	19.40	12.21	85	8.1	3.1	1.6	7.8	<5.0*	a
	9/7/00	31.61	19.62	11.99	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	12/5/00	**31.61**	**20.25**	**11.36**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	--
MW-6	10/28/96	32.89	20.02	12.87	<50	<0.50	<0.50	<0.50	<0.50	<2.0*	--
	12/12/96	32.89	20.18	12.71	ND	ND	ND	ND	ND	ND*	--
	3/31/97	32.89	19.81	13.08	--	--	--	--	--	--	--
	6/27/97	32.89	19.76	13.13	--	--	--	--	--	--	--
	9/9/97	32.89	20.06	12.83	ND	ND	ND	ND	ND	ND*	--

Table 1. Groundwater Elevation and Analytic Data - 1432 Harrison St., Oakland, CA.

Well/Boring ID	Date	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
					<----------(Concentrations in µg/l)---------->						
	12/18/97	32.89	19.90	12.99	ND	ND	ND	ND	ND	--	--
	3/12/98	32.89	18.00	14.89	ND	ND	ND	ND	ND	ND*	--
	6/22/98	32.89	18.43	14.46	ND	ND	ND	ND	ND	--	--
	9/18/98	32.89	19.10	13.79	ND	ND	ND	ND	ND	--	--
	12/23/98	32.89	19.61	13.28	ND	ND	ND	ND	ND	--	--
	3/29/99	32.89	18.92	13.97	ND	ND	ND	ND	ND	--	--
	6/23/99	32.89	18.41	14.48	ND	ND	ND	ND	ND	--	--
	9/24/99	32.89	19.61	13.28	ND	ND	ND	ND	ND	--	--
	12/23/99	32.89	20.30	12.59	ND	ND	ND	ND	ND	--	--
	3/21/00	32.89	18.97	13.92	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	7/3/00	32.89	19.46	13.43	59	5.1	2.3	1.1	5.3	<5.0*	a
	9/7/00	32.89	19.95	12.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0*	--
	12/5/00	**32.89**	**20.50**	**12.39**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**	--
Trip Blank	3/21/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	9/7/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--

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Table 1. Groundwater Elevation and Analytic Data - 1432 Harrison St., Oakland, CA.

Well/Boring ID	Date	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
					<----------(Concentrations in µg/l)---------->						
MW-1	8/1/94	--	--	--	170,000	35,000	51,000	2,400	13,000	--	--
	12/21/94	34.95	19.53	15.42	180,000	41,000	64,000	3,100	100,000	--	--
	3/13/95	34.95	18.66	16.29	150,000	31,000	45,000	2,500	17,000	--	--
	6/27/95	34.95	18.20	16.75	71,000	17,000	18,000	1,600	7,700	--	--
	7/7/95	34.95	18.35	16.60	71,000	17,000	18,000	1,600	7,700	--	--
	9/28/95	34.95	18.20	16.75	110,000	27,000	34,000	1,700	14,000	--	--
	12/20/95	34.95	19.96	14.99	120,000	33,000	43,000	2,300	15,000	--	--
	3/26/96	34.95	19.27	15.68	140,000	29,000	36,000	1,900	13,000	<200*	d
	6/20/96	34.95	18.64	16.31	110,000	30,000	38,000	2,200	13,000	<200*	--
	9/26/96	34.95	19.35	15.60	170,000	28,000	40,000	2,200	15,000	ND**	--
	10/28/96	34.95	19.58	15.37	--	--	--	--	--	--	--
	12/12/96	34.95	19.68	15.27	110,000	36,000	47,000	2,500	16,000	ND*	--
	3/31/97	34.95	18.80	16.15	160,000	24,000	39,000	1,900	13,000	ND*	--
	6/27/97	34.95	19.26	15.69	130,000	25,000	36,000	2,000	14,000	ND*	--
	9/9/97	34.95	19.70	15.25	99,000	22,000	27,000	1,600	13,000	270*	--
	12/18/97	34.95	19.25	15.70	160,000	30,000	44,000	2,200	15,000	ND***	--
	3/12/98	34.95	17.52	17.43	190,000	20,000	49,000	2,500	18,000	ND***	--
	6/22/98	34.95	18.63	16.32	90,000	19,000	40,000	2,100	16,000	--	--
	9/18/98	34.95	18.60	16.35	190,000	29,000	48,000	2,400	17,000	--	--
	12/23/98	34.95	19.18	15.77	140,000	24,000	44,000	2,000	8,200	--	--
	3/29/99	34.95	18.52	16.43	181,000	22,200	40,100	1,844	12,200	--	--
	6/23/99	34.95	18.60	16.35	80,000	20,000	33,000	1,600	11,000	--	--
	9/24/99	34.95	19.05	15.90	117,000	15,100	20,700	1,550	11,800	--	--
	12/23/99	34.95	19.95	15.00	186,000	25,900	39,000	1,990	12,400	--	--
	3/21/00	34.95	18.48	16.47	210,000	35,000	42,000	2,200	13,000	<3,000	a
	7/3/00	34.95	18.95	16.00	200,000	33,000	46,000	2,200	15,000	<200*	a
	9/7/00	34.95	19.45	15.50	Free Product present (Sheen). No sample taken.						
	12/5/00	**34.95**	**19.90**	**15.05**	**220,000**	**42,000**	**57,000**	**2,700**	**17,000**	**<200**	**a**
											--
MW-2	8/1/94	--	--	--	130,000	28,000	35,000	3,000	12,000	--	--
	12/21/94	35.18	19.91	15.27	200	140,000	200,000	3,500	22,000	--	--
	3/13/95	35.18	19.15	16.03	500	9,200	23,000	7,000	36,000	--	--

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Table 1. Groundwater Elevation and Analytic Data - 1432 Harrison St., Oakland, CA.

Well/Boring ID	Date	Top of Casing Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Notes
					<----------(Concentrations in µg/l)---------->						

Abbreviations

TPHg = Total petroleum hydrocarbons as gasoline by EPA method Modified 8015.

Benzene, toluene, ethylbenzene, xylenes by EPA method 8020.

-- = Not Sampled/Not Analyzed

<n = Not detected in sample above n µg/l.

ND = Not detected at minimum quantitation limit. See laboratory reports.

µg/l = micrograms per liter

MTBE = Methyl tert-butyl ether

* = MTBE by EPA Method 8020

** = MTBE by EPA Method 8240

*** = MTBE by EPA Method 8260

VOCs = volatile organic compounds

Notes

a = Unmodified or weakly modified gasoline is significant.

b = Lighter than water immiscible sheen is present.

c = Liquid sample that contains greater than ~5 vol. % sediment.

d = MTBE result confirmed by secondary column or GC/MS analysis.

e = Sample analyzed for purgeable hydrocarbons by EPA method 8010, no purgeable halocarbons were detected.

f = Sample analyzed for VOCs by EPA method 8240, no non-BTEX compounds were detected.

g = Sample analyzed for Total Petroleum Hydrocarbons as motor oil (TPHmo) by EPA method Modified 8015, no TPHmo was detected.

h = Analytic sampling discontinued. Approved by Alameda County Department of Environmental Health.

i = Lighter than gasoline range compounds are significant.

j = Gasoline range compounds having broad chromatographic peaks are significant.

k = No recognizable pattern.

l = Sample diluted due to high organic content.

m= Liquid sample that contains greather than 5 vol. % sediment.

APPENDIX A

Field Data Sheets

CAMBR

WELL DEPTH MEASUREMENTS

Well ID	Time	Product Depth	Water Depth	Product Thickness	Well Depth	Comments
MW-1	9:55		19.90		25.05	Strong odor
MW-2	9:50		20.30		25.40	
MW-3	9:30		19.03		23.90	
MW-4	9:45		19.60		24.50	
MW-5	9:40		20.25		28.34	
MW-6	9:35		20.50		28.00	

Project Name: Borsuk

Project Number: 180-0214

Measured By: L. Hall

Date: 12-05-00

F:\TEMPLATE\FORMS\FIELD\GW-DEPTH.WPD

CAMBRIA

WELL SAMPLING FORM

Project Name: **Borsuk**	Cambria Mgr: RAS	Well ID: MW- 1
Project Number: **180-0214**	Date: 12-05-00	Well Yield: --------
Site Address: **1432 Harrison St Oakland, CA.**	Sampling Method: **Disposable bailer**	Well Diameter: 4" pvc
		Technician(s): SG
Initial Depth to Water: 19.90	Total Well Depth: 25.05	Water Column Height: 5.15
Volume/ft: 0.65	1 Casing Volume: 3.34	3 Casing Volumes: 10.04
Purging Device: ~~disposable bailer~~ 4" pvc bailer	Did Well Dewater?: NO	Total Gallons Purged: 10
Start Purge Time: 11:10	Stop Purge Time: 11:13	Total Time: 3mins

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
11:11	3	15.1	6.86	693	
11:12	6	17.5	6.91	590	
11:14	10	17.9	6.95	574	
					DO = 0.15 mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW- 1	12-05-00	11:19	4 voa's	HCL	TPHg, BTEX, MTBE* Confirm MTBE	8020 8015 8260

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NSM 5/31/94

CAMBRIA

WELL SAMPLING FORM

Project Name: **Borsuk**	Cambria Mgr: **RAS**	Well ID: **MW- 2**
Project Number: **180-0214**	Date: 12-05-00	Well Yield: --------
Site Address: **1432 Harrison St Oakland, CA.**	Sampling Method: **Disposable bailer**	Well Diameter: 2" pvc
		Technician(s): SG
Initial Depth to Water: 20.30	Total Well Depth: 25.40	Water Column Height: 5.10
Volume/ft: 0.16	1 Casing Volume: 0.81	3 Casing Volumes: 2.44
Purging Device: **disposable bailer**	Did Well Dewater?: NO	Total Gallons Purged: 2.5
Start Purge Time: 11:30	Stop Purge Time: 11:33	Total Time: 3min.

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
11:31	1	19.2	6.68	719	
11:32	2	19.2	6.67	689	
1134	2.5	19.5	6.79	6.52	
					DO = 0.19 mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW- 2	12-05-00	11:39	4 voa's	HCL	TPHg, BTEX, MTBE* Confirm MTBE	8020 8015 8260

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NSM 5/31/94

CAMBRIA

WELL SAMPLING FORM

Project Name: **Borsuk**	Cambria Mgr: RAS	Well ID: MW- 3
Project Number: **180-0214**	Date: 12-05-00	Well Yield: --------
Site Address: **1432 Harrison St Oakland, CA.**	Sampling Method: **Disposable bailer**	Well Diameter: 2" pvc
		Technician(s): SG
Initial Depth to Water: 19.03	Total Well Depth: 23.90	Water Column Height: 4.87
Volume/ft: 0.16	1 Casing Volume: 0.77	3 Casing Volumes: 2.33
Purging Device: **disposable bailer**	Did Well Dewater?: NO	Total Gallons Purged: 2.5
Start Purge Time: 10:35	Stop Purge Time: 10:38	Total Time: 3

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
10:36	1	16.4	7.34	571	
10:37	2	18.0	7.15	545	
10:39	2.5	18.1	7.19	573	
					DO = 0.74 mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW- 3	12-05-00	10:44	4 voa's	HCL	TPHg, BTEX, MTBE* Confirm MTBE	8020 8015 8260

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NSM 5/31/94

CAMBRIA

WELL SAMPLING FORM

Project Name: **Borsuk**	Cambria Mgr: **RAS**	Well ID: **MW- 4**
Project Number: **180-0214**	Date: 12-05-00	Well Yield: --------
Site Address: **1432 Harrison St Oakland, CA.**	Sampling Method: **Disposable bailer**	Well Diameter: 2" pvc
		Technician(s): SG
Initial Depth to Water: 19.60	Total Well Depth: 24.50	Water Column Height: 4.90
Volume/ft: 0.16	1 Casing Volume: 0.78	3 Casing Volumes: 2.35
Purging Device: **disposable bailer**	Did Well Dewater?: NO	Total Gallons Purged: 2.5
Start Purge Time: 10:15	Stop Purge Time: 10:18	Total Time: 3 mins

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
10:16	1	18.5	7.63	1008	
10:17	2	19.8	7.15	735	
10:19	2.5	19.1	7.19	851	
					DO = 0.73 mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW- 4	12-05-00	10:24	4 voa's	HCL	TPHg, BTEX, MTBE* Confirm MTBE	8020 8015 8260

CAMBRIA

WELL SAMPLING FORM

Project Name: **Borsuk**	Cambria Mgr: **RAS**	Well ID: MW- 4
Project Number: **180-0214**	Date: 12-05-00	Well Yield: --------
Site Address: **1432 Harrison St Oakland, CA.**	Sampling Method: **Disposable bailer**	Well Diameter: 2" pvc
		Technician(s): SG
Initial Depth to Water: 19.60	Total Well Depth: 24.50	Water Column Height: 4.90
Volume/ft: 0.16	1 Casing Volume: 0.78	3 Casing Volumes: 2.35
Purging Device: **disposable bailer**	Did Well Dewater?: NO	Total Gallons Purged: 2.5
Start Purge Time: 10:15	Stop Purge Time: 10:18	Total Time: 3 mins

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
10:16	1	18.5	7.63	1008	
10:17	2	19.8	7.15	735	
10:19	2.5	19.1	7.19	851	
					DO = 0.73 mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW- 4	12-05-00	10:24	4 voa's	HCL	**TPHg, BTEX, MTBE* Confirm MTBE**	**8020 8015 8260**

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NSM 5/31/94

CAMBRIA

WELL SAMPLING FORM

Project Name: **Borsuk**	Cambria Mgr: RAS	Well ID: MW- 5
Project Number: **180-0214**	Date: 12-05-00	Well Yield: --------
Site Address: **1432 Harrison St Oakland, CA.**	Sampling Method: **Disposable bailer**	Well Diameter: 2" pvc
		Technician(s): SC
Initial Depth to Water: 20.25	Total Well Depth: 28.34	Water Column Height: 8.09
Volume/ft: 0.16	1 Casing Volume: 1.29	3 Casing Volumes: 3.88
Purging Device: **disposable bailer**	Did Well Dewater?: NO	Total Gallons Purged: 4
Start Purge Time: 11:55	Stop Purge Time: 11:58	Total Time: 3mins

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
11:56	1.5	15.1	7.29	593	
11:57	3	16.9	7.02	568	
11:59	4	17.1	6.97	546	
					DO = 0.66 mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW- 5	12-05-00	12:04	4 voa's	HCL	TPHg, BTEX, MTBE* Confirm MTBE	8020 8015 8260

CAMBRIA

WELL SAMPLING FORM

Project Name: **Borsuk**	Cambria Mgr: RAS	Well ID: MW- 6
Project Number: 180-0214	Date: 12-05-00	Well Yield: --------
Site Address: **1432 Harrison St Oakland, CA.**	Sampling Method: **Disposable bailer**	Well Diameter: 2" pvc
		Technician(s): SG
Initial Depth to Water: 20.50	Total Well Depth: 28.00	Water Column Height: 7.50
Volume/ft: 0.16	1 Casing Volume: 1.20	3 Casing Volumes: 3.60
Purging Device: **disposable bailer**	Did Well Dewater?: NO	Total Gallons Purged: 3.5
Start Purge Time: 10:55	Stop Purge Time: 10:58	Total Time: 3mins

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
10:56	1.5	17.4	7.79	883	
10:57	2	17.1	7.53	862	
10:59	3.5	17.9	7.59	879	
					DO = 0.71mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW- 6	12-05-00	11:04	4 voa's	HCL	TPHg, BTEX, MTBE* Confirm MTBE	8020 8015 8260

APPENDIX B

Laboratory Analytical Results

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 1144 65th Street, Suite C Oakland, CA 94608	Client Project ID: #180-0214; Bursuk	Date Sampled: 12/05/00
		Date Received: 12/07/00
	Client Contact: Ron Scheele	Date Extracted: 12/07/00
	Client P.O:	Date Analyzed: 12/07/00

12/14/00

Dear Ron:

Enclosed are:

1). the results of **6** samples from your **#180-0214; Bursuk** 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	Client Project ID: #180-0214; Bursuk	Date Sampled: 12/05/00
1144 65th Street, Suite C		Date Received: 12/07/00
Oakland, CA 94608	Client Contact: Ron Scheele	Date Extracted: 12/07-12/08/00
	Client P.O:	Date Analyzed: 12/07-12/08/00

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	Ethylben-zene	Xylenes	% Recovery Surrogate
55296	MW-1	W	220,000,a	ND<200	42,000	57,000	2700	17,000	112
55297	MW-2	W	130,000,a	ND<200	19,000	28,000	2500	11,000	104
55298	MW-3	W	ND	ND	ND	ND	ND	ND	104
55299	MW-4	W	41,000,a	ND<200	11,000	840	930	1900	102
55300	MW-5	W	ND	ND	ND	ND	ND	ND	102
55301	MW-6	W	ND	ND	ND	ND	ND	ND	96
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, 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.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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

Date: 12/07/00 Matrix: Water

Extraction: TTLC

Compound	Concentration: ug/L				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 112900				Instrument: GC-7			
Surrogate1	0.000	93.0	89.0	100.00	93	89	4.4
Xylenes	0.000	28.3	29.1	30.00	94	97	2.8
Ethyl Benzene	0.000	9.0	9.2	10.00	90	92	2.2
Toluene	0.000	9.1	9.2	10.00	91	92	1.1
Benzene	0.000	8.6	9.0	10.00	86	90	4.5
MTBE	0.000	9.4	9.4	10.00	94	94	0.0
GAS	0.000	93.2	92.9	100.00	93	93	0.4
SampleID: 112900				Instrument: GC-2 B			
Surrogate1	0.000	103.0	102.0	100.00	103	102	1.0
TPH (diesel)	0.000	8175.0	7125.0	7500.00	109	95	13.7

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

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

RPD means Relative Percent Deviation

23476 ZC 269

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
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: Cambria Env Tech
Company: Cambria Environmental Technology
6262 Hollis Street
Emeryville, CA 94608
Tele: (510) 450-1983 Fax: (510) 450-8295
Project #: 180-02M Project Name: Borsuk
Project Location: 1432 Harrison St. Oakland, CA
Sampler Signature:

SAMPLE ID	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
MW-1		12-05-00	11:19	4	VOA	X					X	X			X															55296	
MW-2		12-05-00	11:39	4	VOA	X					X	X			X															55297	
MW-3		12-05-00	10:44	4	VOA	X					X	X			X															55298	
MW-4		12-05-00	10:24	4	VOA	X					X	X			X															55299	
MW-5		12-05-00	12:04	4	VOA	X					X	X			X															55300	
MW-6		12-05-00	11:04	4	VOA	X					X	X			X															55301	

Relinquished By:	Date:	Time:	Received By:
	12-7	11:41	David Morse
David Morse	12-7	1:20	Laura Rodriguez

Remarks: [redacted]
Confirm all MTBE hits by 8260

ICE/t° ✓
COOLER CONDITION ✓
HEADSPACE ABSENT ____
PRESERVATION APPROPRIATE
CONTAINERS ✓