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DO NOT WRITE
IN THESE SPACES
AUG 21 PM 4:26

August 18, 2000

Mr. Thomas Peacock
Supervising HMS, LOP
ACHCSA
1131 Harbor Bay Parkway
Alameda, CA 94501
(510) 567-6700 / FAX 337-9335
tpeacock@co.alameda.ca.us

SUBJECT: IIQ'00 Monitoring Report
1432 Harrison Street, Oakland, CA 94612
SITE ID 498

Dear Mr. Peacock:

Attached is the IIQ'00 groundwater monitoring data for the above site. If you have a question, please contact me.

Sincerely yours,



Mark Borsuk

C A M B R I A

August 2, 2000

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

Re: **Second Quarter 2000 Monitoring Report**
1432 Harrison Street
Oakland, California
Cambria Project #540-0188-029



Dear Mr. Borsuk:

As you requested, Cambria Environmental Technology, Inc. (Cambria) is submitting this second quarter groundwater monitoring report for the above-referenced site. Presented below are the second quarter 2000 activities and results, the current hydrocarbon distribution in groundwater, and the anticipated third quarter 2000 activities.

SECOND QUARTER 2000 ACTIVITIES AND RESULTS

Groundwater Sampling: On July 3, 2000, Cambria gauged all site monitoring wells and collected groundwater samples from monitoring wells MW-1, MW-2, MW-4, MW-5, and MW-6. Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified EPA Method 8015, and benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8020. Wells containing MTBE were further analyzed using EPA Method 8260. Analytical results are included as Attachment A. Groundwater elevations are shown on Figure 1.

Hydrocarbon Distribution in Groundwater: Consistent with historical data, groundwater analytical results for wells MW-1 and MW-2 suggest that hydrocarbon concentrations are highest in groundwater in the immediate vicinity of the former underground storage tanks. TPHg concentrations in wells MW-1 and MW-2 were 200,000 micrograms per liter ($\mu\text{g/L}$) and 140,000 $\mu\text{g/L}$, respectively. Site analytical data indicate that the extent of the hydrocarbon plume is defined to at or near detection limits by perimeter wells MW-3 and MW-6, respectively. North of the site, however, hydrocarbons have been detected intermittently in monitoring well MW-4.

Remediation System: Cambria selected a subcontractor with the lowest bid to install the remediation system.

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

**Cambria
Environmental
Technology, Inc.**

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

Mr. Mark Borsuk
August 2, 2000

ANTICIPATED THIRD QUARTER 2000 ACTIVITIES

Groundwater Sampling: Cambria will gauge all site wells 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 will prepare a cost estimate detailing remediation system installation costs and will submit the package UST Cleanup Fund for pre-approval.

CLOSING

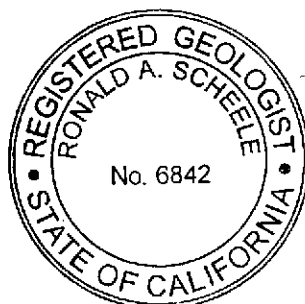
If you have any questions or comments related to this report, please call me at (510) 420-3328 or call Ron Scheele at (510) 420-3318.

Sincerely,
Cambria Environmental Technology, Inc.

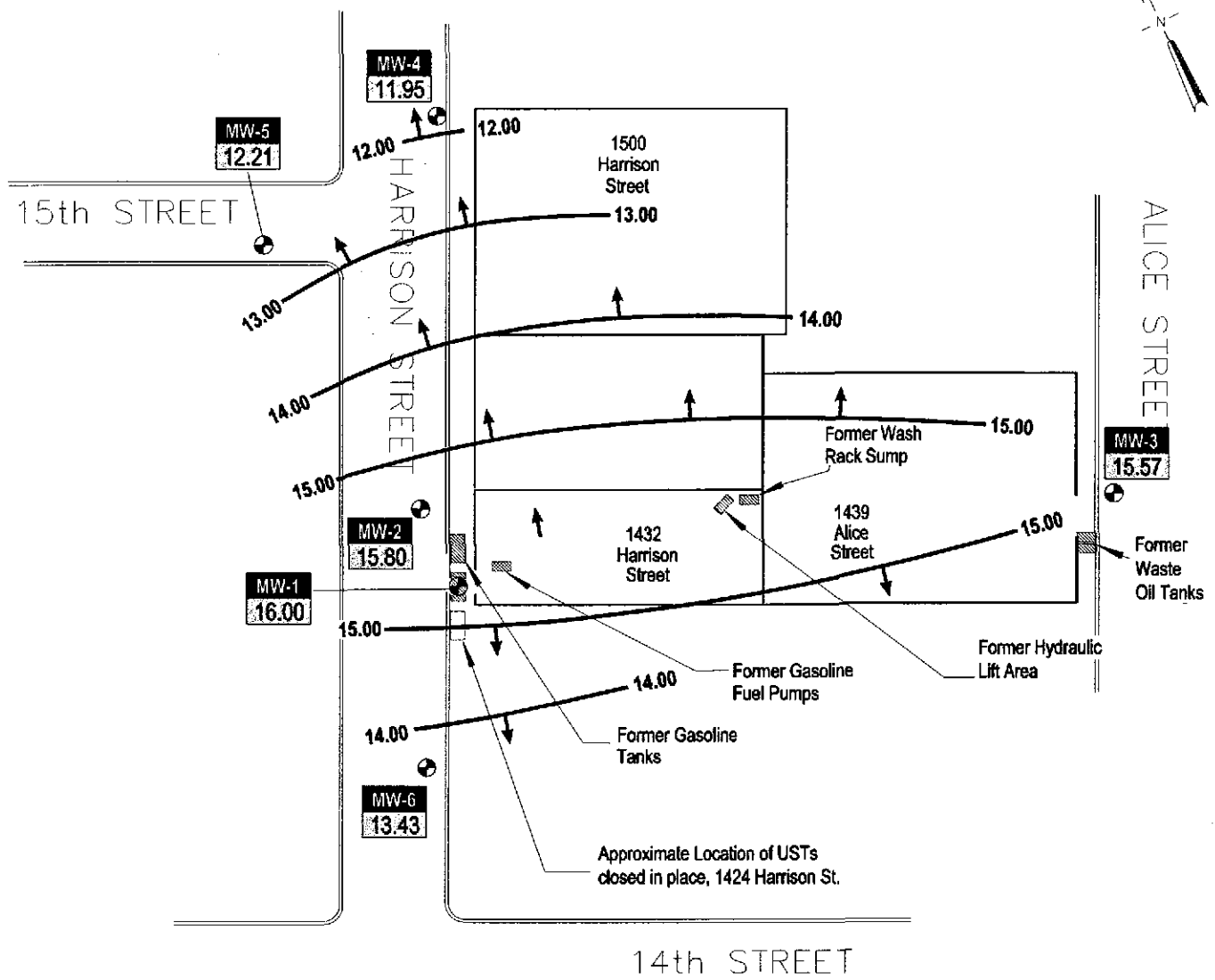
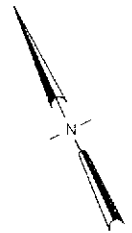
Cathy Bell
Staff Geologist



Ron Scheele, R.G.
Senior Geologist



Attachments: Figure 1- Groundwater Elevation Contours
Table 1 - Groundwater Elevation and Analytical Data
Attachment A - Laboratory Analytical Results
Attachment B - Field Data Sheets



EXPLANATION

- Groundwater Monitoring Well
- Groundwater Elevation Contour, Feet Above msl, Dashed Where Inferred
- Groundwater Flow Direction
- Well** — Well Designation
- ELEV.** — Groundwater Elevation, Feet Above Mean Sea Level (msl)

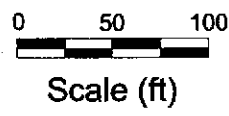


FIGURE
1

H:\B-2004\OAK-186\FIGURE\303M00-MP.DWG

1432 Harrison Street

Oakland, California



C A M B R I A

Groundwater Elevation Contours

July 3, 2000

CAMBRIA

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)-----						
<i>Current Investigation Grab Sample Results:</i>											
CB-1-W	07/22/99	--	--	--	110,000	1,300	16,000	2,700	12,000	<3000*	a,b,c
CB-2-W	07/22/99	--	--	--	4,700	21	13	170	76	<50*	a,c
<i>Historical Grab Sample Results:</i>											
SB-A	07/06/95	--	-20	--	330	16	3.6	1.3	4.9	--	ij
SB-B	07/07/95	--	-20	--	450	55	3.1	5.1	5.0	--	a
SB-C	07/06/95	--	-20	--	44,000	6,600	5,900	980	4,400	--	a
SB-D	07/06/95	--	-20	--	70,000	7,400	10,000	1,600	7,200	--	a
SB-E	07/06/95	--	-20	--	25,000	1,000	3,000	610	2,700	--	a
SB-G	07/07/95	--	-20	--	84,000	9,400	16,000	2,200	9,900	--	a,b
SB-I	07/07/95	--	-20	--	24,000	6,100	1,400	680	1,600	--	a
SB-J	07/07/95	--	-20	--	960	110	66	8.7	71	--	a
SB-K	07/07/95	--	-20	--	72,000	9,600	9,600	1,800	7,000	--	a
<i>Monitoring Well Sample Results:</i>											
MW-1	08/01/94	--	--	--	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	--	--
	03/13/95	34.95	18.66	16.29	150,000	31,000	45,000	2,500	17,000	--	--
	06/27/95	34.95	18.20	16.75	71,000	17,000	18,000	1,600	7,700	--	--
	07/07/95	34.95	18.35	16.60	71,000	17,000	18,000	1,600	7,700	--	--
	09/28/95	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	--	--
	03/26/96	34.95	19.27	15.68	140,000	29,000	36,000	1,900	13,000	<200*	d
	06/20/96	34.95	18.64	16.31	110,000	30,000	38,000	2,200	13,000	<200*	--
	09/26/96	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*	--
	03/31/97	34.95	18.80	16.15	160,000	24,000	39,000	1,900	13,000	ND*	--
	06/27/97	34.95	19.26	15.69	130,000	25,000	36,000	2,000	14,000	ND*	--
	09/09/97	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***	--
	03/12/98	34.95	17.52	17.43	190,000	20,000	49,000	2,500	18,000	ND***	--
	06/22/98	34.95	18.63	16.32	90,000	19,000	40,000	2,100	16,000	--	--
	09/18/98	34.95	18.60	16.35	190,000	29,000	48,000	2,400	17,000	--	--

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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)----->						
	12/23/98	34.95	19.18	15.77	140,000	24,000	44,000	2,000	8,200	--	--
	03/29/99	34.95	18.52	16.43	181,000	22,200	40,100	1,844	12,200	--	--
	06/23/99	34.95	18.60	16.35	80,000	20,000	33,000	1,600	11,000	--	--
	09/24/99	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	--	--
	03/21/00	34.95	18.48	16.47	210,000	35,000	42,000	2,200	13,000	<3,000	a
	07/03/00	34.95	18.95	16.00	200,000	33,000	46,000	2,200	15,000	<200*	a
MW-2	08/01/94	--	--	--	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	--	--
	03/13/95	35.18	19.15	16.03	500	9,200	23,000	7,000	36,000	--	--
	06/27/95	35.18	18.74	16.44	120,000	23,000	30,000	2,700	13,000	--	--
	07/07/95	35.18	18.80	16.38	120,000	23,000	30,000	2,700	13,000	--	--
	09/28/95	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	--	--
	03/26/96	35.18	19.69	15.49	150,000	23,000	32,000	2,800	12,000	<200*	d
	06/20/96	35.18	19.20	15.98	94,000	15,000	23,000	2,400	12,000	<200*	--
	09/26/96	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*	--
	03/31/97	35.18	19.67	15.51	38,000	6,000	7,900	690	3,300	ND*	--
	06/27/97	35.18	19.68	15.50	62,000	13,000	16,000	1,300	6,000	ND*	--
	09/09/97	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***	--
	03/12/98	35.18	18.07	17.11	120,000	16,000	26,000	2,200	9,400	ND***	--
	06/22/98	35.18	18.29	16.89	38,000	9,800	9,500	1,500	6,000	--	--
	09/18/98	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	--	--
	03/29/99	35.18	18.97	16.21	16,600	1,380	1,920	373	1,840	--	--
	06/23/99	35.18	18.25	16.93	41,000	10,000	9,400	1,100	5,000	--	--
	09/24/99	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	--	--
	03/21/00	35.18	18.93	16.25	98,000	14,000	21,000	1,600	6,900	<1600	a

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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)-----						
	07/03/00	35.18	19.38	15.80	140,000	18,000	33,000	2,600	11,000	<200*	a
MW-3	08/01/94	--	--	--	<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
	03/13/95	33.97	17.86	16.11	<50	<0.5	<0.5	<0.5	<0.5	--	f,g
	07/07/95	33.97	18.25	15.72	--	--	--	--	--	--	h
	09/28/95	33.97	18.00	15.97	--	--	--	--	--	--	--
	12/20/95	33.97	18.74	15.23	--	--	--	--	--	--	--
	03/26/96	33.97	18.25	15.72	--	--	--	--	--	--	--
	06/20/96	33.97	18.35	15.62	--	--	--	--	--	--	--
	09/26/96	33.97	19.12	14.85	--	--	--	--	--	--	--
	10/28/96	33.97	19.11	14.86	--	--	--	--	--	--	--
	12/12/96	33.97	18.61	15.36	--	--	--	--	--	--	--
	03/31/97	33.97	18.35	15.62	--	--	--	--	--	--	--
	06/27/97	33.97	18.81	15.16	--	--	--	--	--	--	--
	09/09/97	33.97	19.18	14.79	--	--	--	--	--	--	--
	12/18/97	33.97	18.64	15.33	--	--	--	--	--	--	--
	03/12/98	33.97	17.56	16.41	--	--	--	--	--	--	--
	06/22/98	33.97	18.64	15.33	--	--	--	--	--	--	--
	09/18/98	33.97	18.33	15.64	--	--	--	--	--	--	--
	12/23/98	33.97	18.60	15.37	--	--	--	--	--	--	--
	03/29/99	33.97	17.85	16.12	--	--	--	--	--	--	--
	06/23/99	33.97	18.67	15.30	--	--	--	--	--	--	--
	09/24/99	33.97	18.64	15.33	--	--	--	--	--	--	--
	12/23/99	33.97	19.32	14.65	--	--	--	--	--	--	--
	03/21/00	33.97	17.89	16.08	--	--	--	--	--	--	--
	07/03/00	33.97	18.40	15.57	--	--	--	--	--	--	--
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*	--
	03/31/97	30.77	18.67	12.10	ND	ND	ND	ND	ND	ND*	--
	06/27/97	30.77	19.08	11.69	160	49	1.2	ND	5.9	ND*	--
	09/09/97	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***	--

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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)----->						
	03/12/98	30.77	17.68	13.09	1,300	410	21	ND	57	ND***	--
	06/22/98	30.77	17.63	13.14	ND	ND	ND	ND	ND	--	--
	09/18/98	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	--	--
	03/29/99	30.77	18.35	12.42	ND	ND	ND	ND	ND	--	--
	06/23/99	30.77	17.58	13.19	ND	ND	ND	ND	ND	--	--
	09/24/99	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	--	--
	03/21/00	30.77	18.42	12.35	45,000	16,000	1,100	1,400	1,900	1400* (<35)***	a, l
	07/03/00	30.77	18.82	11.95	33,000	10,000	720	840	1,800	<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*	--
	03/31/97	31.61	19.24	12.37	90	3.1	ND	ND	ND	ND*	--
	06/27/97	31.61	19.16	12.45	ND	ND	ND	ND	ND	ND*	--
	09/09/97	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***	--
	03/12/98	31.61	19.77	11.84	79	2.3	ND	0.8	ND	ND*	--
	06/22/98	31.61	18.08	13.53	ND	ND	ND	ND	ND	--	--
	09/18/98	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	--	--
	03/29/99	31.61	18.88	12.73	ND	ND	ND	ND	ND	--	--
	06/23/99	31.61	18.05	13.56	ND	ND	ND	ND	ND	--	--
	09/24/99	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	--	--
	03/21/00	31.61	19.05	12.56	140	<0.5	<0.5	<0.5	<0.5	<5.0	k
	07/03/00	31.61	19.40	12.21	85	8.1	3.1	1.6	7.8	<5.0*	a
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*	--
	03/31/97	32.89	19.81	13.08	--	--	--	--	--	--	--
	06/27/97	32.89	19.76	13.13	--	--	--	--	--	--	--
	09/09/97	32.89	20.06	12.83	ND	ND	ND	ND	ND	ND*	--

CAMBRIA

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	--	--
	03/12/98	32.89	18.00	14.89	ND	ND	ND	ND	ND	ND*	--
	06/22/98	32.89	18.43	14.46	ND	ND	ND	ND	ND	--	--
	09/18/98	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	--	--
	03/29/99	32.89	18.92	13.97	ND	ND	ND	ND	ND	--	--
	06/23/99	32.89	18.41	14.48	ND	ND	ND	ND	ND	--	--
	09/24/99	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	--	--
	03/21/00	32.89	18.97	13.92	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	07/03/00	32.89	19.46	13.43	59	5.1	2.3	1.1	5.3	<5.0*	a
Trip Blank	03/21/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--

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.

Attachment A

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 65 th Street, Suite C Oakland, CA 94608	Client Project ID: #180-0214; Borsuk	Date Sampled: 07/03/00
	Client Contact: Cathy Bell	Date Received: 07/05/00
	Client P.O:	Date Extracted: 07/05-07/06/00
		Date Analyzed: 07/05-07/06/00

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
42058	MW-1	W	200,000,a	ND<200	33,000	46,000	2200	15,000	93
42059	MW-2	W	140,000,a	ND<200	18,000	33,000	2600	11,000	97
42060	MW-4	W	33,000,a	ND<200	10,000	720	840	1800	89
42061	MW-5	W	85,a	ND	8.1	3.1	1.6	7.8	93
42062	MW-6	W	59,a	ND	5.1	2.3	1.1	5.3	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.



McCAMPBELL ANALYTICAL INC.

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QC REPORT

Date: 07/04/00-07/05/00 Matrix: Water

Extraction: N/A

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

SampleID: 40793

Instrument: GC-3

Surrogate1	0.000	102.0	101.0	100.00	102	101	1.0
Xylenes	0.000	292.0	275.0	300.00	97	92	6.0
Ethyl Benzene	0.000	99.0	93.0	100.00	99	93	6.3
Toluene	0.000	100.0	94.0	100.00	100	94	6.2
Benzene	0.000	103.0	90.0	100.00	103	90	13.5
MTBE	0.000	103.0	97.0	100.00	103	97	6.0
GAS	0.000	854.2	818.8	1000.00	85	82	4.2

SampleID: 7700

Instrument: GC-6 A

Surrogate1	0.000	108.0	104.0	100.00	108	104	3.8
TPH (diesel)	0.000	349.0	329.0	300.00	116	110	5.9

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

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

RPD means Relative Percent Deviation

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McCAMPBELL ANALYTICAL INC.

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HOUR 48 HOUR 5 DAY

Report To: **CATHY BEN** Bill To: **CAMBRIA**
Company: Cambria Environmental Technology 1144 65th St
1144 65th Street, Suite C Oakland, CA 94608
Tele: (510) 420-0700 Fax: (510) 420-9170
Project #: 180-0214 Project Name: **BORSUK**
Project Location: 1432 Harrison, Oakland
Sampler Signature: *[Signature]*

Analysis Request

Other

Comments

SAMPLE ID	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				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							
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other																							
MW-1		7/3	2:00	4	16A	X					X	X																									
MW-2			1:27	4																																42058	
MW-4			1:00																																	42059	
MW-5			12:36																																	42060	
MW-6			12:12																																	42061	
																																				42062	

Relinquished By: *[Signature]* Date: **7-5** Time: **17:00** Received By: **S. Kahi 7-5-13:00 PM**
Relinquished By: **S. Kahi** Date: **7-5** Time: **17:00** Received By: **S. Valle**
Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Remarks:
ICE
GOOD CONTAINER
HEAD SPACE ABSENT
PRESERVATION
APPROPRIATE CONTAINERS
VOAS METALS OTHER

L.M.V.

Attachment B

Field Data Sheets

WELL DEPTH MEASUREMENTS

6
5
4
3
2
1

Well ID	Time	Product Depth	Water Depth	Product Thickness	Well Depth	Comments
MW-1	11:10		18.95		25.00	Needs well cap
MW-2	10:50		19.38		25.63	STRONG HC odor
MW-3	10:30		18.40		23.92	
MW-4	10:10		18.82		24.68	
MW-5	9:50		19.40		28.66	
MW-6	9:30		19.46		28.33	

Project Name: BORSUK

Project Number: 180-0714

Measured By: JB

Date: 7/3/00

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: DCE	Well ID: MW- 1
Project Number: 180-0214	Date: 7/3/00 7/3/00	Well Yield: -----
Site Address: 1432 Harrison St Oakland, CA.	Sampling Method:	Well Diameter: 4 " pvc
	Disposable bailer	Technician(s): JO
Initial Depth to Water: 18.95	Total Well Depth: 25.00	Water Column Height: 6.05
Volume/ft: .65	1 Casing Volume: 3.90	3 Casing Volumes: 11.70
Purging Device: disposable bailer SUB PUMP	Did Well Dewater?:	Total Gallons Purged: 412
Start Purge Time: 1:40	Stop Purge Time: 1:44	Total Time: 4 min

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
1:43	8	20.2	7.5	468	
1:43	9	20.3	7.5	522	
1:44	10	20.1	7.4	420	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW- 1	7/3/00	2:00	4 voa's	HCL	TPHg, BTEX, MTBE* Confirm MTBE	8020 8015 8260

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: DCE	Well ID: MW- 2
Project Number: 180-0214	Date: 7/3/00	Well Yield: -----
Site Address: 1432 Harrison St Oakland, CA.	Sampling Method:	Well Diameter: 2 " pvc
	Disposable bailer	Technician(s): JO
Initial Depth to Water: 19.38	Total Well Depth: 25.63	Water Column Height: 6.25
Volume/ft: .16	1 Casing Volume: 1.00	3 Casing Volumes: 3.00
Purging Device: SUB PUMP	Did Well Dewater?:	Total Gallons Purged: 23.5
Start Purge Time: 1:15	Stop Purge Time: 1:17	Total Time: 2

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
1:16	1	20.9	7.9	420	
1:16	2	20.8	7.7	468	
1:17	3	20.8	7.8	440	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW- 2	7/3/00	1:27	4 voa's	HCL	TPHg, BTEX, MTBE* Confirm MTBE	8020 8015 8260

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: DCE	Well ID: MW- 4
Project Number: 180-0214	Date: 7/3/00	Well Yield: -----
Site Address: 1432 Harrison St Oakland, CA.	Sampling Method: Disposable bailer	Well Diameter: 2" pvc
		Technician(s): JO
Initial Depth to Water: 19.82	Total Well Depth: 24.68	Water Column Height: 5.86
Volume/ft: .16	1 Casing Volume: .94	3 Casing Volumes: 2.82
Purging Device: Sub Pump	Did Well Dewater?:	Total Gallons Purged: 23
Start Purge Time: 12:48	Stop Purge Time: 12:50	Total Time: 2

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
12:48	1	20.5	7.9	426	
12:49	1.5	20.3	7.8	520	
12:50	2	20.1	7.8	464	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW- 4	7/3/00	1:00	4 voa's	HCL	TPHg, BTEX, MTBE* Confirm MTBE	8020 8015 8260

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: DCE	Well ID: MW- 5
Project Number: 180-0214	Date: 7/3/00	Well Yield: -----
Site Address: 1432 Harrison St Oakland, CA.	Sampling Method:	Well Diameter: 2 " pvc
	Disposable bailer	Technician(s): JO
Initial Depth to Water: 19.40	Total Well Depth: 28.66	Water Column Height: 9.26
Volume/ft: .16	1 Casing Volume: 1.48	3 Casing Volumes: 4.44
Purging Device: SUB PUMP	Did Well Dewater?:	Total Gallons Purged: ~ 4.5
Start Purge Time: 12:24	Stop Purge Time: 12:26	Total Time: 2

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
12:25	2	19.2	8.4	482	
12:25	3	19.0	8.3	502	
12:26	4	18.9	8.4	520	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-6	7/3/00	12:36	4 voa's	HCL	TPHg, BTEX, MTBE* Confirm MTBE	8020 8015 8260

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: DCE	Well ID: MW- 6
Project Number: 180-0214	Date: 7/3/00	Well Yield: -----
Site Address: 1432 Harrison St Oakland, CA.	Sampling Method:	Well Diameter: 2 " pvc
	Disposable bailer	Technician(s): JO
Initial Depth to Water: 19.46	Total Well Depth: 28.33	Water Column Height: 8.87
Volume/ft: .16	1 Casing Volume: 1.42	3 Casing Volumes: 4.26
Purging Device: SUB PUMP	Did Well Dewater?:	Total Gallons Purged: 24.5
Start Purge Time: 12:00	Stop Purge Time: 12:02	Total Time: 2

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
12:01	2	20.5	8.7	691	
12:01	3	20.4	8.6	783	
12:02	4	20.3	8.7	654	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW- 6	7/3/00	12:12	4 voa's	HCL	TPHg, BTEX, MTBE* Confirm MTBE	8020 8015 8260