ENVIRONMENTAL PROTECTION

59 FEB 1J 1 PH 2-23

Mark Borsuk
Attorney at Law
mborsuk@ix.netcom.com
(415) 922-4740 / Fax 922-1485
1626 Vallejo Street
San Francisco, CA 94123-5116

February 16, 1999

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: IVQ'98 Monitoring Report

1432 Harrison Street, Oakland, CA 94612

SITE ID 498

Dear Mr. Peacock:

The IVQ'98 groundwater monitoring data is attached. If you have a question, please contact me.

Sincerely yours,

Mark Borsuk



1680 ROGERS AVENUE SAN JOSE, CA 95112-1105 (408) 573-7771 FAX (408) 573-0555 PHONE

February 11, 1999

Mark Borsuk 1626 Vallejo Street San Francisco, CA 94123-5116

> Site: 1432 Harrison Street Oakland, California

Date:

December 23, 1998

GROUNDWATER SAMPLING REPORT 981223-G-1

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. does not participate in the interpretation of analytical results, or become involved with the marketing or installation of remedial systems.

This report deals with the groundwater well sampling performed by our firm in response to your request. Data collected in the course of our work at the site are presented in the TABLE OF WELL MONITORING DATA. This information was collected during our inspection and sample collection. Measurements include the total depth of the well and the depth to water. Water surfaces were further inspected for the presence of immiscibles. A series of electrical conductivity, pH, turbidity, and temperature readings were obtained during sample collection.

STANDARD PRACTICES

Sampling Equipment

Samples were collected using disposable bailers.

Bailers: A bailer, in its simplest form, is a hollow tube which has been fitted with a check valve at the lower end. The device can be lowered into a well by means of a cord. When the bailer enters the water, the check valve opens and liquid flows into the interior of the bailer. The bottom check valve prevents water from escaping when the bailer is drawn up and out of the well.

Two types of bailers are used in groundwater wells at sites where fuel hydrocarbons and/or solvents are of concern. The first type of bailer is made of a clear material such as acrylic plastic and is used to obtain a sample of the surface and the near-surface liquids, in order to detect the presence of visible or measurable fuel hydrocarbon floating on the surface. The second type of bailer is made of polyethylene, Teflon, or stainless steel, and is used as an evacuation and/or sampling device. Disposable bailers are made of polyethylene plastic, decontaminated by the manufacturer, individually packaged for one-time only use, and are inexpensive. Teflon and stainless steel bailers are relatively easy to clean and are considered reusable with proper decontamination.

Because bailers are manually operated, variations in operator technique may have a greater influence on performance than would be found when using more automated sampling equipment. Also, in cases where fuel hydrocarbons are involved the bailer may include near-surface contaminants that are not representative of water located deeper in the well.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site.

Sampling Methodology

Samples were obtained by standardized sampling procedures that follow a non-purge sample collection protocol. The sampling methodology conforms to both State and Regional Water Quality Control Board standards for no purge sampling and specifically adheres to EPA requirements for apparatus, sample containers and sample handling as specified in publication SW 846 and T.E.G.D. which is published separately.

Sample Containers

Sample containers are supplied by the laboratory performing the analyses.

Sample Handling Procedures

Following collection, samples are promptly placed in an ice chest containing ice or an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with both a sampling event number and a discrete sample identification number. Please note that the sampling event number is the number that appears on our chain of custody. It is roughly equivalent to a job number, but applies only to work done on a particular day of the year rather than spanning several days, as jobs and projects often do.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under our standard chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date and signature of person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to Sequoia Analytical Services in Redwood City, California. Sequoia is certified by the California Department of Health Services as a Hazardous Materials Testing Laboratory, and is listed as DOHS HMTL #1210.

Personnel

All Blaine Tech Services, Inc. personnel receive 29 CFR 1910.120(e)(2) training as soon after being hired as is practical. In addition, many of our personnel have additional certifications that include specialized training in level B supplied air apparatus and the supervision of employees working on hazardous materials sites. Employees are not sent to a site unless we are confident they can adhere to any site safety provisions in force at the site and unless we know that they can follow the written provisions of an SSP and the verbal directions of an SSO.

In general, employees sent to a site to perform groundwater well sampling will assume an OSHA level D (wet) environment exists unless otherwise informed. The use of gloves and double glove protocols protects both our employees and the integrity of the samples being collected. Additional protective gear and procedures for higher OSHA levels of protection are available.

Reportage

Submission to the Regional Water Quality Control Board and the local implementing agency should include copies of the sampling report, the chain of custody and the certified analytical report issued by the Hazardous Materials Testing Laboratory.

The following addresses have been listed here for your convenience:

Water Quality Control Board San Francisco Bay Region 2101 Webster Street Suite 500 Oakland, CA 94612 ATTN: Chuck Headlee

Oakland Fire Prevention Bureau
One City Hall Plaza
Oakland, CA 94612
ATTN: Stanley Y. Chi

Please call if we can be of any further assistance.

William Jones

WRJ/pc

attachments: cumulative table of well monitoring data

certified professional report and gradient map

certified analytical report

chain of custody field data sheets

cc:

John Riggi

Cambria Environmental Technology, Inc.

1144 65th St., Suite C Oakland, CA 94608

Vertical Measurements are in feet.					Analytical results are in parts per billion (ppb)						
DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	Motor Oil
MW-1											
12/21/94	34.95	15.42	19.53		180,000	41,000	64,000	3,100	100,000	••	
03/13/95	34.95	16.29	18.66		150,000	31,000	45,000	2,500	17,000		
06/27/95	34.95	16.75	18.20		71,000	17,000	18,000	1,600	7,700		
07/07/95	34.95	16.60	18.35	Gauge Only							
09/28/95	34.95	16.75	18.20		110,000	27,000	34,000	1,700	14,000		
12/20/95	34.95	14.99	19.96		120,000	33,000	43,000	2,300	15,000		
03/26/96	34.95	15.68	19.27	*	140,000	29,000	36,000	1,900	13,000	ND	
06/20/96	34.95	16.31	18.64	•	110,000	30,000	38,000	2,200	13,000	ND	
09/26/96	34.95	15.60	19.35	**	170,000	28,000	40,000	2,200	15,000	ND	
10/28/96	34.95	15.37	19.58	Gauge Only							
12/12/96	34.95	15.27	19.68	*	110,000	36,000	47,000	2,500	16,000	ND	
03/31/97	34.95	16.15	18.80	*	160,000	24,000	39,000	1,900	13,000	ND	
06/27/97	34.95	15.69	19.26	•	130,000	25,000	36,000	2,000	14,000	ND	••
09/09/97	34.95	15.25	19.70	•	99,000	22,000	27,000	1,600	13,000	270	
12/18/97	34.95	15.70	19.25	***	160,000	30,000	44,000	2,200	15,000	ND	
03/12/98	34.95	17.43	17.52	***	190,000	20,000	49,000	2,500	18,000	ND	
06/22/98	34.95	16.32	18.63		90,000	19,000	40,000	2,100	16,000		
09/18/98	34.95	16.35	18.60		190,000	29,000	48,000	2,400	17,000		
12/23/98	34.95	15.77	19.18		140,000+	24,000	44,000	2,000	8,200		
					1	A	V	V	7		

Vertical Me			B 4	Analytical results are in parts per billion (ppb)							سيب المساه
DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	Moto O
MW-2	· · · · · · · · · · · · · · · · · · ·										
12/21/94	35.18	15.27	19.91		200,000	140,000	200,000	3,500	22,000		-
03/13/95	35.18	16.03	19.15		500,000	9,200	23,000	7,000	36,000	••	•
06/27/95	35.18	16.44	18.74		120,000	23,000	30,000	2,700	13,000		
07/07/95	35.18	16.38	18.80	Gauge Only							-
09/28/95	35.18	15.88	19.30		110,000	23,000	29,000	2,500	11,000		-
12/20/95	35.18	14.94	20.24	**	83,000	980	1,800	2,200	10,000		-
03/26/96	35.18	15.49	19.69	•	150,000	23,000	32,000	2,800	12,000	ND	-
06/20/96	35.18	20.98	14.20	• .	94,000	15,000	23,000	2,400	12,000	ND	-
09/26/96	35.18	15.38	19.80	**	150,000	20,000	29,000	2,800	12,000	ND	-
10/28/96	35.18	15.00	20.18	Gauge Only							
12/12/96	35.18	15.01	20.17	•	58,000	3,100	11,000	1,700	8,100	220	
03/31/97	35.18	15.51	19.67	•	38,000	6,000	7,900	690	3,300	ND	-
06/27/97	35.18	15.50	19.68	*	62,000	13,000	16,000	1,300	6,000	ND	-
09/09/97	35.18	14.98	20.20	***	81,000	16,000	18,000	1,800	8,600	ND	
12/18/97	35.18	15.38	19.80	***	110,000	18,000	26,000	2,200	9,500	ND	
03/12/98	35.18	17.11	18.07	***	120,000	16,000	26,000	2,200	9,400	ND	
06/22/98	35.18	16.89	18.29		38,000	9,800	9,500	1,500	6,000	••	-
09/18/98	35.18	16.09	19.09		68,000	12,000	16,000	1,400	5,900	'	
12/23/98	35.18	15.51	19.67		180,000+	16,000	22,000	2,200	8,300		=-











Vertical Measurements are in feet.				Analytical results are in parts per billion (ppb)							
·	Well	Ground	Depth		·						
DATE	Head	Water	То	Notes	TPH-	Benzene	Toluene	Ethyl-	Xylene	MTBE	Moto
	Elev.	Elev.	Water		Gasoline			Benzene			Oi
MW-3											
12/21/94	33.97	15.15	18.82		ND	ND	ND	ND	ND	••	NE
03/13/95	33.97	16.11	17.86		ND	ND	ND	ND	ND		NE
07/07/95	33.97	15.72	18.25	Gauge Only					p=		
09/28/95	33.97	15.97	18.00	Gauge Only	=-						-
12/20/95	33.97	15.23	18.74	Gauge Only					•-	++	
03/26/96	33.97	15.72	18.25	Gauge Only							
06/20/96	33.97	15.62	18.35	Gauge Only							
09/26/96	33.97	14.85	19.12	Gauge Only					••		
10/28/96	33.97	14.86	1 9 .11	Gauge Only			••				-
12/12/96	33.97	15.36	18.61	Gauge Only							
03/31/97	33.97	15.62	18.35	Gauge Only							-
06/27/97	33.97	15.16	18.81	Gauge Only			·		••		
09/09/97	33.97	14.79	19.18	Gauge Only		·			••		
12/18/97	33.97	15.33	18.64	Gauge Only							
03/12/98	33.97	16.41	17.56	Gauge Only					•-		
06/22/98	33.97	15.33	18.64	Gauge Only							
09/18/98	33.97	15.64	18.33	Gauge Only							
12/23/98	33.97	15.37	18.60	Gauge Only							
MW-4											
10/28/96	30.77	11.45	19.32		. NA	NA	NA	NA	NA	NA	7.
12/12/96	30.77	11.35	19.42	*	11,000	4,200	410	420	260	32	-
03/31/97	30.77	12.10	18.67	•	ND	ND	ND	ND	ND	ND	
06/27/97	30.77	11.69	19.08	*	160	49	1.2	ND	5.9	ND	-
09/09/97	30.77	11.44	19.33	•	7,400	5,000	410	230	470	33	••
12/18/97	30.77	11.60	19.17	***	710	170	8.0	ND	39	ND	_
03/12/98	30.77	13.09	17.68	***	1,300	410	21	ND	57	ND	-
06/22/98	30.77	13.14	17.63		ND	ND	ND	ND	ND		
09/18/98	30.77	12.19	18.58	••	ND	42	1.6	ND	4.8		
12/23/98	30.77	11.76	19.01		1,900	1,000	76.0	50	120	••	
1 11 EUI UU	50.77	11.70	13.01	· -	LJapan	1,000	70.0	50	120	23	

Vertical Measurements are in feet.					Analyti	Analytical results are in parts per billion (ppb)						
DATE I	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	Motor Oil	
MW-5							,					
10/28/96	31.61	11.73	19.88		NA	NA	NA	NA	NA	NA		
12/12/96	31.61	11.52	20.09	*	230	5.6	0.9	ND	0.9	3.6		
03/31/97	31.61	12.37	19.24	•	90	3.1	ND	ND	ND	ND		
06/27/97	31.61	12.45	19.16	*	ND	ND	ND	ND	ND	ND	••	
09/09/97	31.61	11.68	19.93	•	ND	ND	·ND	ND	ND	ND		
12/18/97	31.61	11.84	19.77	***	ND	ND	ND	ND	ND	ND		
03/12/98	31.61	11.84	19.77	*	79	2.3	ND	. 0.8	ND	ND		
06/22/98	31.61	13.53	18.08	 .	ND	ND	ND	ND	ND			
09/18/98	31.61	12.49	19.12	••	ND	ND	ND	ND	ND			
12/23/98	31.61	12.01	19.60		ND	0.83	0.85	ND	ND			

Vertical Measurements are in feet.

Analytical results are in parts per billion (ppb)

10,100.		40 W. 100W			y and to an party por small (pps)						
DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH- Gasoline	Benzene	Toluene	Ethyl- Benzene	Xylene	MTBE	Motor Oil
MW-6									· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
10/28/96	32,89	12.87	20.02		NA	NA	NA	NA	NA	NA	
12/12/96	32.89	12.71	20.18	*	ND	ND	ND	ND	ND	ND	
03/31/97	32.89	13.08	19.81	Gauge Only							
06/27/97	32.89	13.13	19.76	Gauge Only					••		72
09/09/97	32.89	12.83	20.06	*	ND	ND	ND	ND	ND	ND	
12/18/97	32.89	12.99	19.90		ND	ND	ND	ND	ND	••	
03/12/98	32.89	14.89	18.00	•	ND	ND	ND	ND	ND	ND	
06/22/98	32.89	14.46	18.43	 .	ND	ND	ND	ND	ND	•-	
09/18/98	32.89	13.79	19.10	••	ND	ND	ND	ND	ND		
12/23/98	32.89	13.28	19.61		ND	ND	ND	ND	ND		••

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons

ND = Not detected at or above the minimum quantitation limit. See laboratory reports for minimum quantitation limits.

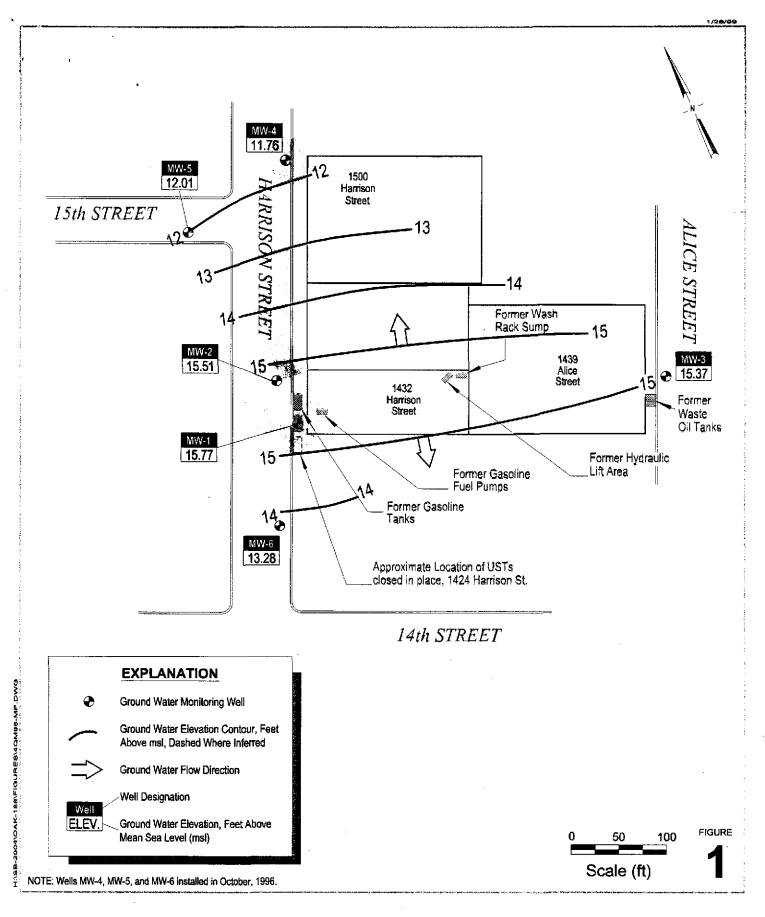
MTBE = Methyl-t-Butyl Ether

^{*=}MTBE results by EPA method 8020.

^{**=}MTBE results by EPA method 8240.

^{***=}MTBE results by EPA method 8260.

⁺⁼Chromatogram pattern indeicates gas.



Borsuk

1432 Harrison Street Oakland, California



Ground Water Elevation Contours

December 23, 1988

Kent Brown Blaine Tech Services 1680 Rogers Avenue San Jose, California 95112

Re:

Fourth Quarter 1998 Monitoring Report

1432 Harrison Street
Oakland, California
Cambria Project #180-0214



Dear Mr. Brown:

As you requested, Cambria Environmental Technology, Inc. (Cambria) has summarized the results of the fourth quarter 1998 ground water sampling at the site referenced above. Presented below are sampling activities performed in the fourth quarter 1998, the hydrocarbon distribution in ground water, and the anticipated first quarter 1999 activities.

FOURTH QUARTER 1999 ACTIVITIES AND RESULTS

Ground Water Sampling: On December 23, 1998, Blaine Tech Services (Blaine) gauged all site wells and collected ground water samples from site wells MW-1, MW-2, MW-4, MW-5, and MW-6. Ground water elevations are shown on Figure 1. Analytical results are included as Attachment A.

System Design: Cambria is awaiting cost pre-approval from the state clean up fund to complete the system design for a future remediation system installation bid.

Hydrocarbon Distribution In Ground Water

As during previous sampling events, ground water analytical data suggest that hydrocarbon concentrations are highest in wells MW-1 and MW-2, which are located near the former underground storage tank area. Total petroleum hydrocarbons as gasoline (TPHg) concentrations increased in wells MW-1 and MW-2 to 140,000 parts per billion (ppb) and 180,000 ppb respectively. However, these concentrations are typical for historical fourth quarter analytical results. In addition, the sample collected from down gradient well MW-4 contained 1,900 ppb TPHg this quarter, compared to a non-detect result for MW-4 during the third quarter sampling event, also typical of previous fourth quarter analytical results.

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

CAMBRIA

ANTICIPATED FIRST QUARTER 1999 ACTIVITIES

Ground Water Sampling: Blaine will gauge all site wells and collect ground water samples from wells MW-1, MW-2, MW-4, MW-5, and MW-6. Cambria will prepare a ground water monitoring report summarizing the sampling data.

CLOSING



We appreciate this opportunity to provide environmental consulting services to Blaine Tech Services. Please call if you have any questions or comments.

Sincerely,

Cambria Environmental Technology, Inc.

Jacquelyn Jones Staff Geologist

David Elias, R.G.

Senior Geologist

Figure:

1 - Ground Water Elevation Contours

Attachment:

A - Analytical Results for Ground Water Sampling

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Attachment A

Analytical Results for Ground Water Sampling



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Blvd. North, Ste. D Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954

(650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 WR Jones Attention:

Client Proj. ID: 981223-G1/Mark Borsuk

Received: 12/28/98

Lab Proj. ID: 9812G21

Reported: 01/08/99

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. report contains a total of ____ pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Peggy Penner Project Manager

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680 Chesapeake Drive 404 N. Wiger Lane 819 Striker Avenue, Suite 8 1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954

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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112

Attention: WR Jones

Client Proj. ID: 981223-G1/Mark Borsuk

Sample Descript: MW-1

Matrix: LIQUID Analysis Method: 8015Mod/8020

Lab Number: 9812G21-01

Sampled: 12/23/98 Received: 12/28/98

Analyzed: 01/03/99 Reported: 01/08/99

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte		ection Limit ug/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		2500	
Surrogates Trifluorotoluene	Cont t 70	rol Limits % 130	% Recovery 90

23

Analytes reported as (1.1), were not present above the stated limit of detection.

SEQUOIA ANALYTICAL -

ELAP #1849

Peggy Permer Project Manager

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680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Blvd. North, Ste. D

Redwood City, CA 94063 Wainut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954

(650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865

FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue

Client Proj. ID: 981223-G1/Mark Borsuk

Sampled: 12/23/98

San Jose, CA 95112

Sample Descript: MW-2 Matrix: LIQUID

Received: 12/28/98

Attention: WR Jones

Analysis Method: 8015Mod/8020 Lab Number: 9812G21-02

Analyzed: 01/03/99 Reported: 01/08/99

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	De	tection Limit ug/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		50 50 50	
Surrogates Trifluorotoluene	Co r 70	ntrol Limits % 130	% Recovery 77

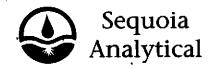
Analytes reported as N. p were not present above the stated limit of detection.

SEQUOIA ANA .YTICAL -

ELAP #1849

Peggy Penher Project Manager

Page:



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Blvd. North, Ste. D Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954

(650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865

FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112

Client Proj. ID: Sample Descript: MW-4

981223-G1/Mark Borsuk

Sampled: 12/23/98 Received: 12/28/98

Matrix: LIQUID

Analysis Method: 8015Mod/8020

Analyzed: 01/03/99 Reported: 01/08/99

Attention: WR Jones

Lab Number: 9812G21-03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	De	tection Limit ug/L	San	nple Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:		0.50 0.50 0.50		1900 1000 76 50 120 Gas
Surrogates Trifluorotoluene	Cor 70	ntrol Limits %	% Re	ecovery 97

&

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANAL TICAL

ELAP #1849

Peggy Renner Project Manager

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680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Bivd. North, Ste. D Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Client Proj. ID: 981223-G1/Mark Borsuk Sample Descript: MW-5

Sampled: 12/23/98 Received: 12/28/98

Matrix: LIQUID

Analysis Method: 8015Mod/8020 Lab Number: 9812G21-04 Analyzed: 01/03/99 Reported: 01/08/99

Attention: WR Jones

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	0.50	N.D. 0.83 0.85 N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 70 130	% Recovery 90

Analytes reported as N.D. were not present above the stated limit of detection.

ELAP #1849

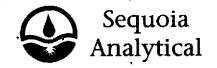
SEQUOIA ANALY

Peggy Penger

Project Manager

Page:

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680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Blvd. North, Ste. D Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112

Attention: WR Jones

Client Proj. ID: 981223-G1/Mark Borsuk

Sample Descript: MW-6

Matrix: LIQUID Analysis Method: 8015Mod/8020

Lab Number: 9812G21-05

Sampled: 12/23/98 Received: 12/28/98

Analyzed: 01/03/99 Reported: 01/08/99

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas Benzene Toluene Ethyl Benzene Xylenes (Total) Chromatogram Pattern:	50 0.50 0.50 0.50 0.50	N.D. N.D. N.D. N.D. N.D.
Surrogates Trifluorotoluene	Control Limits % 130	% Recovery 97

€\$

Analytes reported as N.D. were not present above the stated limit of detection.

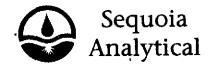
SEQUOIA ANALYTICAL

ELAP #1849

Peggy Penner Project Manager

Page:

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680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 1455 McDowell Blvd, North, Ste. D Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 Petaluma, CA 94954 (650) 364-9600 (925) 988-9600 (916) 921-9600 (707) 792-1865 FAX (650) 364-9233 FAX (925) 988-9673 FAX (916) 921-0100 FAX (707) 792-0342

Blaine Tech Services, Inc.

1680 Rogers Ave. San Jose, CA 95112 Client Project ID:

981223-G1/Mark Borsuk

Matrix:

Liquid

Attention: Fran Thie

Work Order #:

9812G21

-01-05

Reported:

Jan 12, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes	
]			Benzene		
QC Batch#:	01V9004	01V9004	01V9004	01V9004	
Analy. Method:	EPA 8015M/8020	EPA 8015M/8020	EPA 8015M/8020	EPA 8015M/8020	
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	
Analyst:	-	-	-	_	
LCS/LCSD #:	8120352	8120352	8120352	8120352	
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	
Prepared Date:	1/2/99	1/2/99	1/2/99	1/2/99	
Analyzed Date:	1/3/99	1/3/99	1/3/99	1/3/99	
Instrument I.D.#:	-	-	•	•	
Conc. Spiked:	20 μg/L	20 μg/L	20 μg/L	60 μg/L	
Result:	20	20	20	57	
LCS % Recovery:	100	100	100	95	
Dup. Result:	22	22	22	64	
LCSD % Recov.:	110	110	110	110	
RPD:	9.5	9.5	9.5	11.6	
RPD Limit:	0-30	0-30	0-30	0-30	

MS/MSD					<u> </u>
LCS	80-120	80-120	80-120	80-120	
Control Limits					

SEQUOIA ANALYTICAL Elap # 1849

Pegg&Penner Project Manager Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

^{**} MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

BLAINE SANJOS	1680 ROGEF E, CALIFORNIA 9	5112-1105	CC	NDUCT ANA	ALYSIS TO DETEC	T	JILAB SERSU	LOIA		IDHS#
ECH SERVICES INC.	FAX (408 PHONE (408	3) 573-7771					ALL ANALYSES MUST SET BY CALIFORNIA	MEET SPECIF	ICATIONS AN	
			1 1				EPA	טווא פרוע	□RW∩	CB REGION
HAIN OF CUSTODY	3-/1						LIA		ےو	OB 112GIOI1
BIS#98/22	-61	တို့					OTHER			
MARIL BORSUK					SPECIAL INSTRUCTIONS					
SITE 1432 HARRISON ST.				X218			INVOICE & REPORT TO			
OAKLAND , CA							BLAND TECH STRUKES			
		SUBORITE ALL	2			1	ATTU: WR.			
	MATRIX CONTA	INERS S	4				I MAR.		98120	\sim
	SOF	S	-HAL	}			Ì		1012	121
MPLEID. DATE /mi	″ " σ≥ TOTAL	U U					ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-1 12/25/2 840	W 3 6	10AS	X							
4111-2 855	2	-//-	X				Luar bol			
1	13	1		+		-	WA broken		1	
9W-4 805	1171									
10-5 815		1	X			_				
4W-6 V 825	VV	1 L								
						 		<u>.</u>		
			 		 					
		;								
			1 1							
MPLING DATE TIME	SAMPLING						DECILITO MEEDED			₩ 28
DMPLETED 12/23/88 400	PERFORMED BY	Jan-	1		_ ^ ~		RESULTS NEEDED NO LATER THAN	Low	カルと	rp, £a
LEASED BY		DATE	Tii	ME .	A RECEIVED B	Y			DATE 12.28.9	TIME
LEASED BY	cea	- /2 · 28 · 9 DATE	TII	7:30 ME	→ RECEIVED B	Y			DATE	7:30 TIME
Lash-	- ,	12-25			-					1
LEASED BY		DATE	V V TII	ИE	RECEIVED B	4/			DATE	TIME
		12			V	//_			12.28	198 1274
IIPPED VIA		DATE SE	NT TII	ME SENT	COOLER#			. 1		

WELL GAUGING DATA

Project # 981223-61 Date 12/23/88 Client Mark Borsuk
Site 1432 Harrison St., Oakland CA

Well Size Sheen / Depth to Size (in.) Odor Liquid (ft.) Liquid (ft.) (ml) Odor Himiscible Immiscible Immiscible Removed (ft.) Depth to water Depth to well bottom (ft.) Or TOC	
Size Sheen / Immiscible Immiscible Removed Depth to water Depth to well Point: TOB	
Well ID (in.) Odor Liquid (ft.) Liquid (ft.) (ml) (ft.) bottom (ft.) or TOC	
MW-14 Oder 1918 2505 TOC	
MW-1 4 Odor 19.18 25.05 TOC MW-2 2 19.67 25.60 1 MW-3 2 18.60 23.85 MW 4 2 19.01 24.69	
MW-2 2 19.67 25.60 1 MW-3 2 18.60 23.85 1 MW-4 2 19.01 24.69	
MW-3 2 18.60 23.85 19.01 24.69	
MW42 19.01 24.69	
· · · · · · · · · · · · · · · · · · ·	
MW5 2 19.60 28.64	
MW5 2 19.60 28.64 1 MW-1 2 Edor 19.61 28.28 V	
	# # # # # # # # # # # # # # # # # # #
	_
	-

WELL MONITORING DATA SHEET

	1812	2-2-63	, /	/ 100/100					
Sampler: 16 Start Date: 12/23/98									
Well 3	I.D.: MW -	/	Well	Well Diameter: (circle one) 2 3 6 6					
Total Well Depth: Depth to Water:									
Before	25.0 A	fter 25.	OS Befo	pre 19.18	After				
Depth	to Free Produ	ct:	Thio	kness of Fre	e Product (feet):			
Measu	rements refere	nced to:	PVC	Grade	Other:				
	Well Diamet 2" 3" 4" 5"	er	0.04 0.16 0.37 0.65 1.02	Well Diamet: 8" 10" 12" 16"	er	VCF 1.47 2.61 4.08 5.87 10.43			
		×							
1 C	ase Volume	-	Specified Vo	olumes =	gallons				
Purgi	ng: Bailer Disposable Middleburg Electric S Extraction Other	ubmersibl	e	Sampli:		ble Bailer ion Port			
TIME	TEMP . (F)	PH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:			
845	62.0	6.5	750	12		Odor			
Did We	ell Dewater?	If yes	, gals.	Gallons 2	Actually Ev	l			
Sampl:	ing Time:	40	Sam	pling Date: /	2/23/9	, 8			
Sample I.D.: MW-/ Laboratory: Sequeia									
Analyzed for: TPH-G BTEX TPH-D OTHER: (Circle)									
Duplio	cate I.D.;		Clea	ning Blank I	.D.:				
Analyzed for: TPH-G BTEX TPH-D OTHER: (Circle)									

WELL MONITORING DATA SHEET

Project #: 981223-61 Client: Mark Barsuk								
Sampler: M6 Start Date: 12/23/98								
Well I.D.: Mui -2 Well Diameter: (circle one) 2 3 4 6								
Total Well Depth: Depth to Water:								
Before After 2560 Before 19.67 After								
Depth to Free Product: Thickness of Free Product (feet):								
Measurem	ents referer	nced to:	EVC)	Grade	Other:			
	Well Diamete 1" 2" 3" 4" 5"	er	0.04 0.16 0.37 0.65 1.02	Well Diamete 6" 8" 10" 12" 16"	er'	VCF 1.47 2.61 4.08 5.87 10.43		
		x		-				
1 Case	Volume		Specified Vo	olumes =	gallons			
Purging:	Bailer Disposable Middleburg Electric S Extraction Other	ubmersibl	.e	Sampli:	ng: Bailer Disposal Extract Other	ole Bailer ion Port		
TIME	TEMP.	рĦ	сомо.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:		
4		10	o Player	····				
900	63.6	6.4	920	63				
	_							
	_							
Did Wel	l Dewater? /	/ _O If ye	s, gals.	Gallons	Actually Ev	acuated:		
Samplin		55		pling Date: /	2/23/48	<i>></i>		
Sample I.D.: MW-Z Laboratory: Seglecia								
Analyzed for: TPH-G BTEX TPH-D OTHER: (Circle)								
Duplica	te I.D.:		Cle	aning Blank I	.D.:			
Analyzed for: TPH-G BTEX TPH-D OTHER: (Circle)								

WELL MONITORING DATA SHEET

Project #: 981223-6/ Client: Mark Borsaf								
Sampler: M6 Start Date: (2/23/48								
Well I.D.: Mw-6 Well Diameter: (circle one) 2 3 4 6								
Total Well Depth: Depth to Water: Before After 28, 28 Before 19,61 After								
Before	A	fter <u>2</u> 8	, 28 Bef	ore 19,61	After			
Depth t	o Free Produ	ct:	Thic	ckness of Fre	e Product (feet):		
Measure	ments refere	nced to:	<u> </u>	Grade	Other:			
	Well Diamet 2" 3" 4" 5"	er	VCF 0.04 0.16 0.37 0.65 1.02	Well Diamet 6" 8" 10" 12" 16"	er	VCF 1.47 2.61 4.08 5.87 10.43		
1 Cas	e Volume	_ x _	Specified Vo	olumes =	gallons	·		
Purging	: Bailer Disposable Middleburg Electric S Extraction Other	ubmersibl	.e	Sampli	ng: Bailer Qisposal Extract: Other	ole Bailer ion Port		
TIME	TEMP.	PH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:		
		1/0	Purge					
830	62.0	6.6	1330	14				
	1 Dewater?	7.7						
					Actually Eva			
Sampling Time: \$25 Sampling Date: 12/23/98 Sample I.D.: Miv-6 Laboratory: Sequeric								
	d for: PH			ER:	occor cy			
Duplicat	te I.D.:		Clea	ning Blank I	.D.:			
Analyzed for: TPH-G BTEX TPH-D OTHER: (Circle)								