

ENVIRONMENTAL
PROTECTION

98 JUN -2 PM 3:44

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

May 29, 1998

Mr. Thomas Peacock
Supervising HMS, LOP
ACHCSA
1131 Harbor Bay Parkway
Alameda, CA 94501
(510) 567-6700 / FAX 337-9335
76325.3440@compuserve.com

SUBJECT: IQ'98 Monitoring Report
1432 Harrison Street, Oakland, CA 94612
SITE ID 498

Dear Mr. Peacock:

Attached is the IQ'98 groundwater monitoring report for the above location. If you have a question regarding the data, please contact me.

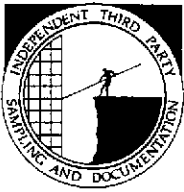
Sincerely yours,



Mark Borsuk

BLAINE
TECH SERVICES INC

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



May 27, 1998

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

Site:
1432 Harrison Street
Oakland, California

Date:
March 12, 1997

GROUNDWATER SAMPLING REPORT 980312-K-2

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, 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 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 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.

Bailers are inexpensive and relatively easy to clean. Because they are manually operated, variations in operator technique may have a greater influence than would be found with more automated sampling equipment. Also where fuel hydrocarbons are involved, the bailer may include near surface contaminants that are not representative of water 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 deionized 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: Richard Hiatt

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.



Kent Brown

KEB/dg

attachments: table of well monitoring data
certified professional report and gradient map
certified analytical report
chain of custody

cc: Scott MacLeod
Cambria Environmental Technology, Inc.
1144 65th St., Suite C
Oakland, CA 94608

TABLE OF WELL MONITORING DATA

Well I.D.	MW-1	MW-1	MW-1
Date Sampled	09/09/97	12/18/97	03/12/98
Well Diameter (in.)	4	4	4
Total Well Depth (ft.)	25.05	25.08	25.01
Depth To Water (ft.)	19.70	19.25	17.52
Free Product (in.)	NONE	NONE	NONE
Reason If Not Sampled	--	--	--
1 Case Volume (gal.)	NOT PURGED	NOT PURGED	NOT PURGED
Did Well Dewater?	--	--	--
Gallons Actually Evacuated	--	--	--
Purging Device	NONE	NONE	NONE
Sampling Device	DISPOSABLE BAILER	DISPOSABLE BAILER	DISPOSABLE BAILER
Time	14:00	14:18	10:53
Temperature (Fahrenheit)	71.4	69.6	65.8
pH	6.8	6.5	6.7
Conductivity (micromhos/cm)	900	600	680
BTS Chain of Custody	970909-S2	971218-22	980312-K2
BTS Sample I.D.	MW-1	MW-1	MW-1
DOHS HMTL Laboratory	LEGEND	LEGEND	SEQUOIA
Analysis	TPH-GAS, BTEX & MTBE	TPH-GAS, BTEX, MTBE, MTBE (8260)	TPH-GAS, BTEX, MTBE, MTBE (8260)

SUMMARY OF CAR RESULTS in parts per billion unless otherwise noted

DOHS HMTL Laboratory	LEGEND	LEGEND	SEQUOIA
Laboratory Sample I.D.	278119	280419	9803A70-01
TPH Gasoline	99,000	160,000	190,000 <i>↗</i>
Benzene	22,000	30,000	20,000 <i>↘</i>
Toluene	27,000	44,000	49,000 <i>↗</i>
Ethyl Benzene	1,600	2,200	2,500 <i>↗</i>
Xylene Isomers	13,000	15,000	18,000 <i>↗</i>
Methyl-tert-butyl ether (MTBE)	270	--	4,500 <i>↗</i>
<u>MTBE by EPA 8260</u>	--	ND	<i>ND</i> <i>↗</i>

new information

In the interest of clarity, an addendum has been added to the **TABLE** which lists analytical results in such a way that our field observations are presented together with the analytical results. This addendum is entitled a **SUMMARY OF CAR RESULTS**. As indicated by the title, the source documents for these numbers are the laboratory's certified analytical reports. These **certified analytical reports (CARs)** are generated by the laboratory as the sole official documents in which they issue their findings. Any discrepancy between the CAR and a tabular or text presentation of analytical values must be decided in favor of the CAR on the grounds that the CAR is the authoritative legal document.

TABLE OF WELL MONITORING DATA

Well I.D.	MW-2	MW-2	MW-2
Date Sampled	09/09/97	12/18/97	03/12/98
Well Diameter (in.)	2	2	2
Total Well Depth (ft.)	25.62	25.63	25.60
Depth To Water (ft.)	20.20	19.80	18.07
Free Product (in.)	NONE	NONE	NONE
Reason If Not Sampled	--	--	--
1 Case Volume (gal.)	NOT PURGED	NOT PURGED	NOT PURGED
Did Well Dewater?	--	--	--
Gallons Actually Evacuated	--	--	--
Purging Device	NONE	NONE	NONE
Sampling Device	DISPOSABLE BAILER	DISPOSABLE BAILER	DISPOSABLE BAILER
Time	13:45	13:59	10:45
Temperature (Fahrenheit)	73.2	70.4	66.6
pH	6.8	6.6	6.8
Conductivity (micromhos/cm)	1100	860	821
BTS Chain of Custody	970909-S2	971218-Z2	980312-K2
BTS Sample I.D.	MW-2	MW-2	MW-2
DOHS HMTL Laboratory Analysis	LEGEND TPH-GAS, BTEX, MTBE, MTBE (8260)	LEGEND TPH-GAS, BTEX, MTBE, MTBE (8260)	SEQUOIA TPH-GAS, BTEX, MTBE, MTBE (8260)

SUMMARY OF CAR RESULTS in parts per billion unless otherwise noted

	LEGEND	LEGEND	SEQUOIA
DOHS HMTL Laboratory Laboratory Sample I.D.	278120	280420	9803A70-02
TPH Gasoline	81,000	110,000	120,000 <i>↗</i>
Benzene	16,000	18,000	16,000 <i>→</i>
Toluene	18,000	26,000	26,000 <i>—</i>
Ethyl Benzene	1,800	2,200	2,200 <i>—</i>
Xylene Isomers	8,600	9,500	9,400 <i>—</i>
Methyl-tert-butyl ether (MTBE)	220	--	2,300 <i>↘</i>
MTBE by EPA 8260	ND	ND	ND <i>↘</i>

new information

TABLE OF WELL MONITORING DATA

Well I.D.	MW-3	MW-3	MW-3
Date Sampled	09/09/97	12/18/97	03/12/98
Well Diameter (in.)	2	2	2
Total Well Depth (ft.)	23.88	23.90	23.87
Depth To Water (ft.)	19.18	18.64	17.56
Free Product (in.)	NONE	NONE	NONE
Reason If Not Sampled	GAUGE ONLY	GAUGE ONLY	GAUGE ONLY
1 Case Volume (gal.)			
Did Well Dewater?			
Gallons Actually Evacuated			
Purging Device			
Sampling Device			
Time			
Temperature (Fahrenheit)			
pH			
Conductivity (micromhos/cm)			
BTS Chain of Custody			
BTS Sample I.D.			
DOHS HMTL Laboratory			
Analysis			

TABLE OF WELL MONITORING DATA

Well I.D.	MW-4	MW-4	MW-4
Date Sampled	09/09/97	12/18/97	03/12/98
Well Diameter (in.)	2	2	2
Total Well Depth (ft.)	24.85	24.83	24.79
Depth To Water (ft.)	19.33	19.17	17.68
Free Product (in.)	NONE	NONE	NONE
Reason If Not Sampled	--	--	--
1 Case Volume (gal.)	NOT PURGED	NOT PURGED	NOT PURGED
Did Well Dewater?	--	--	--
Gallons Actually Evacuated	--	--	--
Purging Device	NONE	NONE	NONE
Sampling Device	DISPOSABLE BAILER	DISPOSABLE BAILER	DISPOSABLE BAILER
Time	13:17	13:43	10:36
Temperature (Fahrenheit)	69.4	70.2	66.1
pH	6.7	6.5	7.0
Conductivity (micromhos/cm)	1500	910	711
BTS Chain of Custody	970909-S2	971218-Z2	980312-K2
BTS Sample I.D.	MW-4	MW-4	MW-4
DOHS HMTL Laboratory Analysis	LEGEND TPH-GAS, BTEX & MTBE	LEGEND TPH-GAS, BTEX, MTBE, MTBE (8260)	SEQUOIA TPH-GAS, BTEX, MTBE, MTBE (8260)

S U M M A R Y O F C A R R E S U L T S in parts per billion unless otherwise noted

DOHS HMTL Laboratory Laboratory Sample I.D.	LEGEND	LEGEND	SEQUOIA
	278121	280421	9803A70-03
TPH Gasoline	7,400	710	1,300
Benzene	5,000	170	410
Toluene	410	8.0	21
Ethyl Benzene	230	ND	ND
Xylene Isomers	470	39	57
Methyl-tert-butyl ether (MTBE)	33	--	42
MTBE by EPA 8260	--	ND	ND

Confirmation

TABLE OF WELL MONITORING DATA

Well I.D.	MW-5	MW-5	MW-5
Date Sampled	09/09/97	12/18/97	03/12/98
Well Diameter (in.)	2	2	2
Total Well Depth (ft.)	28.90	28.87	28.65
Depth To Water (ft.)	19.93	19.77	19.77
Free Product (in.)	NONE	NONE	NONE
Reason If Not Sampled	--	--	--
1 Case Volume (gal.)	NOT PURGED	NOT PURGED	NOT PURGED
Did Well Dewater?	--	--	--
Gallons Actually Evacuated	--	--	--
Purging Device	NONE	NONE	NONE
Sampling Device	DISPOSABLE BAILER	DISPOSABLE BAILER	DISPOSABLE BAILER
Time	13:05	13:28	10:22
Temperature (Fahrenheit)	65.8	67.0	64.8
pH	6.9	6.6	6.9
Conductivity (micromhos/cm)	1400	790	867
BTS Chain of Custody	970909-S2	971218-22	980312-K2
BTS Sample I.D.	MW-5	MW-5	MW-5
DOHS HMTL Laboratory Analysis	LEGEND TPH-GAS, BTEX & MTBE	LEGEND TPH-GAS, BTEX & MTBE	SEQUOIA TPH-GAS, BTEX & MTBE

SUMMARY OF CAR RESULTS in parts per billion unless otherwise noted



DOHS HMTL Laboratory	LEGEND	LEGEND	SEQUOIA
Laboratory Sample I.D.	278122	280422	9803A70-04
TPH Gasoline	ND	ND	79 
Benzene	ND	ND	2.3 
Toluene	ND	ND	ND
Ethyl Benzene	ND	ND	0.8
Xylene Isomers	ND	ND	ND
Methyl-tert-butyl ether (MTBE)	ND	--	ND
<u>MTBE by EPA 8260</u>	--	ND	--

TABLE OF WELL MONITORING DATA

Well I.D.	MW-6	MW-6	MW-6
Date Sampled	09/09/97	12/18/97	03/12/98
Well Diameter (in.)	2	2	2
Total Well Depth (ft.)	28.32	28.36	28.31
Depth To Water (ft.)	20.06	19.90	18.00
Free Product (in.)	NONE	NONE	NONE
Reason If Not Sampled	--	--	--
1 Case Volume (gal.)	NO PURGE	NO PURGE	NO PURGE
Did Well Dewater?	--	--	--
Gallons Actually Evacuated	--	--	--
Purging Device	NONE	NONE	NONE
Sampling Device	BAILER	BAILER	BAILER
Time	12:50	13:15	10:10
Temperature (Fahrenheit)	69.6	69.0	65.8
pH	7.8	6.6	6.9
Conductivity (micromhos/cm)	2000	1280	1683
BTS Chain of Custody	970909-S2	971218-Z2	980312-K2
BTS Sample I.D.	MW-6	MW-6	MW-6
DOHS HMTL Laboratory	LEGEND	LEGEND	SEQUOIA
Analysis	TPH-GAS, BTEX & MTBE	BTEX	TPH-GAS, BTEX & MTBE

S U M M A R Y O F C A R R E S U L T S in parts per billion unless otherwise noted

DOHS HMTL Laboratory	LEGEND	LEGEND	SEQUOIA
Laboratory Sample I.D.	278123	280423	9803A70-05
TPH Gasoline	ND	--	ND
Benzene	ND	ND	ND
Toluene	ND	ND	ND
Ethyl Benzene	ND	ND	ND
Xylene Isomers	ND	ND	ND
Methyl-tert-butyl ether (MTBE)	ND	--	ND
MTBE by EPA 8260	--	--	--



April 28, 1998

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

Re: **First Quarter 1998 Monitoring Report**
1432 Harrison Street
Oakland, California
Cambria Project #18-214

Dear Mr. Brown:

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

FIRST QUARTER 1998 ACTIVITIES

Ground Water Sampling: On March 12, 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. No sampling of site well MW-3 is required at this time. Ground water elevations are shown on Figure 1.

Corrective Action Plan (CAP): In a letter, dated March 18, 1998, Alameda County Health Care Services Agency accepted the December 29, 1997 CAP submitted by Cambria.

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608

ANTICIPATED SECOND QUARTER 1998 ACTIVITIES

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

Corrective Action Plan: Cambria will request pre-approval from the UST Cleanup Fund to complete a remedial action plan that will include the specific system design.

PH: (510) 420-0700

FAX: (510) 420-9170

Kent Brown
April 28, 1998

CAMBRIA

HYDROCARBON DISTRIBUTION IN GROUND WATER

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. The cross gradient horizontal extent is defined to below or near method detection limits by wells MW-3 and MW-5. The southern up-gradient extent is defined by MW-6, in which no hydrocarbons were detected during this sampling event. Hydrocarbon concentrations in well MW-4 continue to fluctuate.

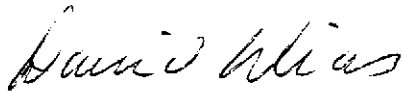
CLOSING

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

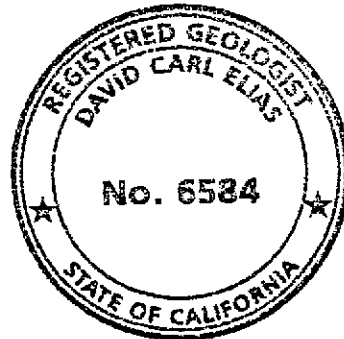
Sincerely,
Cambria Environmental Technology, Inc.



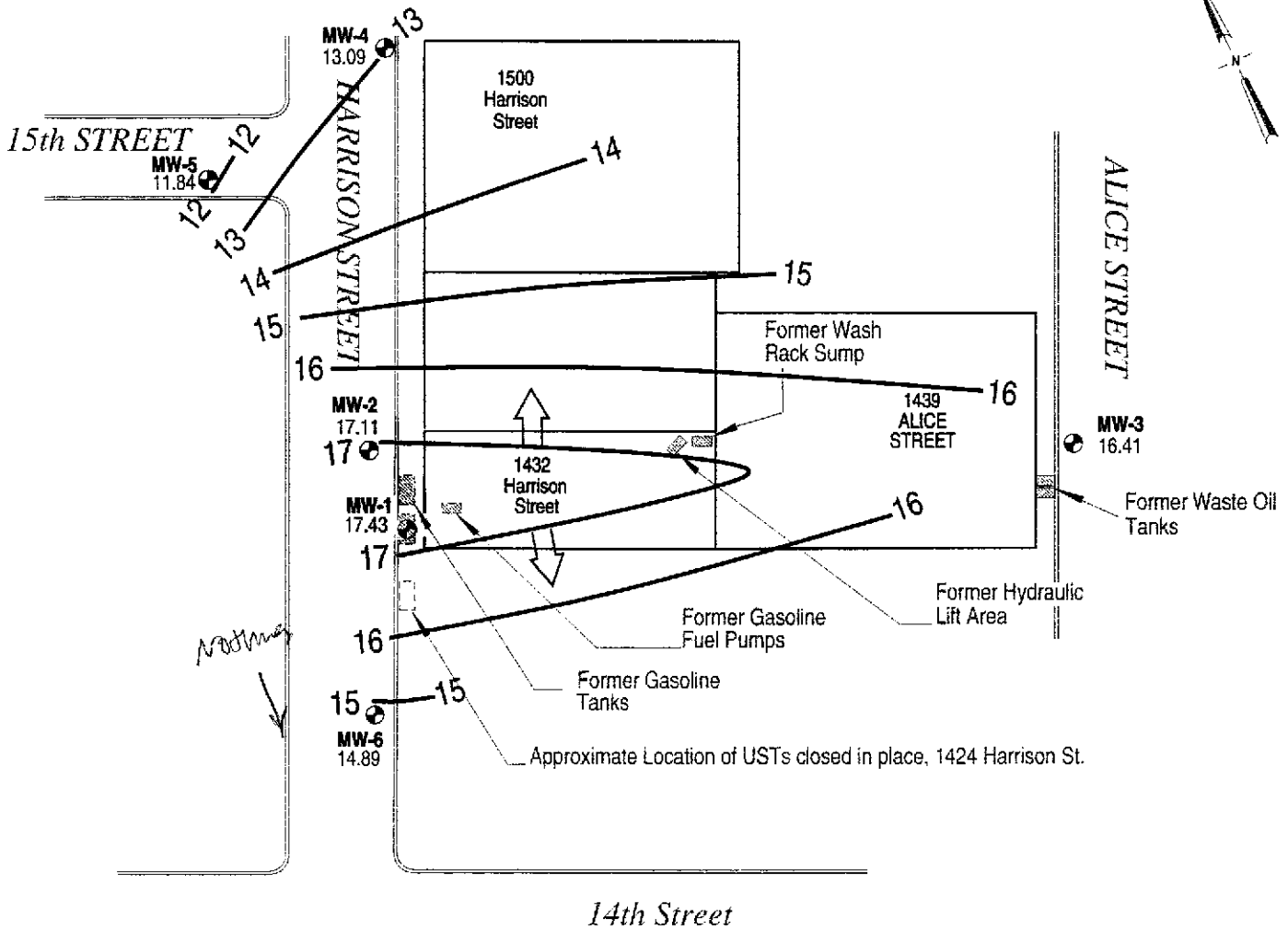
Gina Kathuria, P.E.
Project Engineer



David Elias, R.G.
Senior Geologist



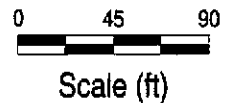
H:\SB-2004\OAKL-188\QM\QM-1-98.WPD



EXPLANATION

- MW-3 Ground Water Monitoring Well
- xx.xx Ground Water Elevation, Feet Above Mean Sea Level (msl)
- Ground Water Contour, Feet Above Mean Sea Level (msl), Dashed Where Inferred
- ⇒ Ground Water Flow Direction

check on sewer line depth



NOTE: Wells MW-4, MW-5, and MW-6 installed in October, 1996.

<p>CAMBRIA Environmental Technology, Inc.</p>	<p>1432 Harrison Street Oakland, California</p>	<p>Ground Water Elevation Contours March 12, 1998</p>	<p>FIGURE 1</p>
----------------------------------------------------------	-----------------------------------------------------	---------------------------------------------------------------	----------------------------



Sequoia Analytical

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
(510) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Mark Borsuk/980312-K2 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9803A70-01	Sampled: 03/12/98 Received: 03/13/98 Extracted: 03/26/98 Analyzed: 03/26/98 Reported: 04/13/98
------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------

Instrument ID: HP9

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50000	190000
Methyl t-Butyl Ether	2500	4500
Benzene	500	20000
Toluene	500	49000
Ethyl Benzene	500	2500
Xylenes (Total)	500	18000
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	103

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Mark Borsuk/980312-K2 Sample Descript: MW-1 Matrix: LIQUID Analysis Method: EPA 8260 Lab Number: 9803A70-01	Sampled: 03/12/98 Received: 03/13/98 Analyzed: 04/11/98 Reported: 04/13/98
------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------

QC Batch Number: MS040998MTBEH6A
Instrument ID: H6

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	1000	N.D.
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76 114	92

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Sequoia Analytical

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
(510) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Mark Borsuk/980312-K2 Sample Descript: MW-2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9803A70-02	Sampled: 03/12/98 Received: 03/13/98 Extracted: 03/26/98 Analyzed: 03/26/98 Reported: 04/13/98
------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------

Instrument ID: GC9

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	20000	120000
Methyl t-Butyl Ether	1000	2300
Benzene	200	16000
Toluene	200	26000
Ethyl Benzene	200	2200
Xylenes (Total)	200	9400
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
		100

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Mark Borsuk/980312-K2 Sample Descript: MW-2 Matrix: LIQUID Analysis Method: EPA 8260 Lab Number: 9803A70-02	Sampled: 03/12/98 Received: 03/13/98 Analyzed: 04/11/98 Reported: 04/13/98
------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

QC Batch Number: MS040998MTBEH6A
Instrument ID: H6

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	400	N.D.
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76 114	94

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Sequoia Analytical

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
(510) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Mark Borsuk/980312-K2 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9803A70-03	Sampled: 03/12/98 Received: 03/13/98 Extracted: 03/27/98 Analyzed: 03/27/98 Reported: 04/13/98
------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------

Instrument ID: GC9

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	1300
Methyl t-Butyl Ether	25	42
Benzene	5.0	410
Toluene	5.0	21
Ethyl Benzene	5.0	N.D.
Xylenes (Total)	5.0	57
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	106

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Mark Borsuk/980312-K2 Sample Descript: MW-4 Matrix: LIQUID Analysis Method: EPA 8260 Lab Number: 9803A70-03	Sampled: 03/12/98 Received: 03/13/98 Analyzed: 04/11/98 Reported: 04/13/98
------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------

QC Batch Number: MS040998MTBEH6A
Instrument ID: H6

Methyl t-Butyl Ether (MTBE)

Analyte	Detection Limit ug/L	Sample Results ug/L
Methyl t-Butyl Ether	2.0	N.D.
Surrogates	Control Limits %	% Recovery
1,2-Dichloroethane-d4	76 114	94

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

SEQUOIA ANALYTICAL - ELAP #1210


Peggy Penner
Project Manager





Sequoia Analytical

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

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

(650) 364-9600
(510) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Mark Borsuk/980312-K2 Sample Descript: MW-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9803A70-04	Sampled: 03/12/98 Received: 03/13/98 Extracted: 03/26/98 Analyzed: 03/26/98 Reported: 04/13/98
Attention: Fran Thie		

Instrument ID: GC5

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	79
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	2.3
Toluene	0.50	N.D.
Ethyl Benzene	0.50	.8
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	100

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





Sequoia Analytical

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
(510) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

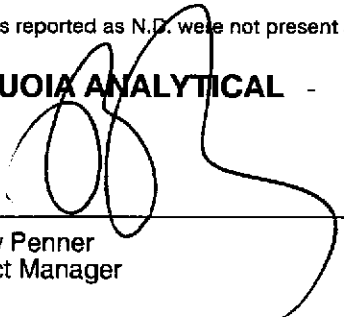
Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Mark Borsuk/980312-K2 Sample Descript: MW-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9803A70-05	Sampled: 03/12/98 Received: 03/13/98 Extracted: 03/26/98 Analyzed: 03/26/98 Reported: 04/13/98
Attention: Fran Thie		

Instrument ID: GC9

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	102

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

SEQUOIA ANALYTICAL - ELAP #1271


Peggy Penner
Project Manager





Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Mark Borsuk/ 980312-K2
Matrix: Liquid

Work Order #: 9803A70 -01-02, 04-05

Reported: Apr 14, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC032698802009A	GC032698802009A	GC032698802009A	GC032698802009A	GC032698802009A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	8032203	8032203	8032203	8032203	8032203
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/26/98	3/26/98	3/26/98	3/26/98	3/26/98
Analyzed Date:	3/26/98	3/26/98	3/26/98	3/26/98	3/26/98
Instrument I.D.#:	HP9	HP9	HP9	HP9	HP9
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	360 µg/L
Result:	19	20	20	60	330
MS % Recovery:	95	100	100	100	92
Dup. Result:	20	21	21	63	340
MSD % Recov.:	100	105	105	105	94
RPD:	5.1	4.9	4.9	4.9	3.0
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS032698	LCS032698	LCS032698	LCS032698	LCS032698
Prepared Date:	3/26/98	3/26/98	3/26/98	3/26/98	3/26/98
Analyzed Date:	3/26/98	3/26/98	3/26/98	3/26/98	3/26/98
Instrument I.D.#:	HP9	HP9	HP9	HP9	HP9
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	360 µg/L
LCS Result:	21	22	22	66	360
LCS % Recov.:	105	110	110	110	100

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

SEQUOIA ANALYTICAL
Elaap #1271

Peggy 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

9803A70.BLA <1>





Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Mark Borsuk/ 980312-K2
Matrix: Liquid

Work Order #: 9803A70-03

Reported: Apr 14, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC032798802009A	GC032798802009A	GC032798802009A	GC032798802009A	GC032798802009A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	8031823	8031823	8031823	8031823	8031823
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	3/27/98	3/27/98	3/27/98	3/27/98	3/27/98
Analyzed Date:	3/27/98	3/27/98	3/27/98	3/27/98	3/27/98
Instrument I.D.#:	HP9	HP9	HP9	HP9	HP9
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	340 µg/L
Result:	21	22	22	68	350
MS % Recovery:	105	110	110	113	103
Dup. Result:	21	22	22	67	350
MSD % Recov.:	105	110	110	112	103
RPD:	0.0	0.0	0.0	1.5	0.0
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS032798	LCS032798	LCS032798	LCS032798	LCS032798
Prepared Date:	3/27/98	3/27/98	3/27/98	3/27/98	3/27/98
Analyzed Date:	3/27/98	3/27/98	3/27/98	3/27/98	3/27/98
Instrument I.D.#:	HP9	HP9	HP9	HP9	HP9
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	340 µg/L
LCS Result:	21	22	22	68	350
LCS % Recov.:	105	110	110	113	103

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

SEQUOIA ANALYTICAL
Elap #1271

Peggy 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

9803A70.BLA <2>





Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Mark Borsuk/ 980312-K2
Matrix: Liquid

Work Order #: 9803A70-01-03

Reported: Apr 14, 1998

QUALITY CONTROL DATA REPORT

Analyte:	MTBE
QC Batch#:	MS040998MTBEH6A
Analy. Method:	EPA 8260
Prep. Method:	N.A.

Analyst: L. Zhu
MS/MSD #: 980455301
Sample Conc.: 47
Prepared Date: 4/9/98
Analyzed Date: 4/9/98
Instrument I.D.#: H6
Conc. Spiked: 50 µg/L

Result: 100
MS % Recovery: 106

Dup. Result: 99
MSD % Recov.: 104

RPD: 1.0
RPD Limit: 0-25

LCS #: LCS041198
Prepared Date: 4/11/98
Analyzed Date: 4/11/98
Instrument I.D.#: H6
Conc. Spiked: 50 µg/L
LCS Result: 49
LCS % Recov.: 98

MS/MSD	60-140
LCS	70-130
Control Limits	

SEQUOIA ANALYTICAL

Peggy 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

9803A70.BLA <3>





**Sequoia
Analytical**

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
(510) 988-9600
(916) 921-9600
(707) 792-1865

FAX (650) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100
FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Proj. ID: Mark Borsuk/980312-K2
Lab Proj. ID: 9803A70

Received: 03/13/98
Reported: 04/13/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 12 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

Please note: MTBE did not confirm by EPA 8260 therefore all MTBE results at this site should be considered suspect.

SEQUOIA ANALYTICAL


Peggy Penner
Project Manager



BLAINE TECH SERVICES INC.

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

CONDUCT ANALYSIS TO DETECT

LAB ~~XXXXXX~~ SEQUOIA DHS # _____
ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
 EPA RWQCB REGION _____
 LIA
 OTHER

CHAIN OF CUSTODY
BIS # 980312-K2

CLIENT
MARK BRESNIK

SITE
1432 HAZELWAL ST
OAKLAND, CA

C = COMPOSITE ALL CONTAINERS

TPH-G, BTEX, MTBE
* MTBE BY 8260

SPECIAL INSTRUCTIONS
INVOICE & REPORT TO 9803A70
BLAINE TECH SERVICES
ATTN: KENT BROWN
* MW-1, MW-2, MW-4 ONLY,
CONFIRM MTBE BY 8260.

SAMPLE I.D.	Date/Time	S = SOIL W = H2O	MATRIX	TOTAL	CONTAINERS	C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT										ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
							1	2	3	4	5	6	7	8	9	10				
MW-1	3/12/98	1055	01	6	6		X	X												
MW-2	↓	1042	02	6	6		X	X												
MW-4	↓	1040	03	6	6		X	X												
MW-5	↓	1023	04	3	3		X												PER 13 12 15	
MW-6	↓	1012	05	3	3		X													

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN	
	3/12/98	11:00	Mark Spangler	PER CLIENT	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>[Signature]</i>	3/13/98	11:00	Roy Perry	3/13/98	11:00
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Roy Perry	3/13/98				
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
			Juni Downs	3/13/98	12:15
MAILED VIA	DATE SENT	TIME SENT	COOLER #		