

**MARK BORSUK**  
**Attorney at Law**  
**1626 Vallejo Street**  
**San Francisco, CA 94123-5116**  
**(415) 922-4740**  
**FAX 922-1485**  
**Internet: mborsuk@ix.netcom.com**

May 21, 1997


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'97 Monitoring Report  
1432 Harrison Street, Oakland, CA 94612  
SITE ID 498

Dear Mr. Peacock:

Attached is the IQ'97 report for groundwater monitoring at the above location.  
If you have any questions, please contact me.

Sincerely yours,



Mark Borsuk

97 MAY 23 PM 2:53

ENVIRONMENTAL  
PROTECTION

**BLAINE**  
TECH SERVICES INC.



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

May 14, 1997

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

Site:  
1432 Harrison Street  
Oakland, California

Date:  
March 31, 1997

## GROUNDWATER SAMPLING REPORT 970331-Z-3

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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

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### Sampling Equipment

Samples were collected using 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.

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 National Environmental Testing, Inc. in Santa Rosa, California. NET is certified by the California Department of Health Services as a Hazardous Materials Testing Laboratory, and is listed as DOHS HMTL #1386.

## **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/mc

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	10/28/96	12/12/96	03/31/97
Well Diameter (in.)	4	4	4
Total Well Depth (ft.)	25.08	25.12	25.06
Depth To Water (ft.)	19.58	19.68	18.80
Free Product (in.)	--	NONE	NONE
Reason If Not Sampled	GAUGE ONLY	--	--
1 Case Volume (gal.)		3.50	NOT PURGED
Did Well Dewater?		NO	--
Gallons Actually Evacuated		11.0	--
Purging Device		ELECTRIC SUBMERSIBLE	NONE
Sampling Device		BAILER	BAILER
Time		09:15    09:17    09:19	14:04
Temperature (Fahrenheit)		61.0    60.2    60.0	66.2
pH		7.2    7.3    7.3	7.5
Conductivity (micromhos/cm)		650    550    520	420
BTS Chain of Custody		961212-J1	970331-23
BTS Sample I.D.		MW-1	MW-1
DOHS HMTL Laboratory Analysis		NET TPH-GAS, BTEX & MTBE	LEGEND TPH-GAS, BTEX & MTBE

SUMMARY OF CAR RESULTS in parts per billion unless otherwise noted
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DOHS HMTL Laboratory	NET	LEGEND
Laboratory Sample I.D.	271140	274071
TPH Gasoline	110,000	160,000
Benzene	36,000	24,000
Toluene	47,000	39,000
Ethyl Benzene	2,500	1,900
Xylene Isomers	16,000	13,000
Methyl-tert-butyl ether	ND	ND

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	10/28/96	12/12/96	03/31/97
Well Diameter (in.)	2	2	2
Total Well Depth (ft.)	26.02	25.83	25.84
Depth To Water (ft.)	20.18	20.17	19.67
Free Product (in.)	--	NONE	NONE
Reason If Not Sampled	GAUGE ONLY	--	--
1 Case Volume (gal.)		0.90	NOT PURGED
Did Well Dewater?		NO	--
Gallons Actually Evacuated		3.0	--
Purging Device		BAILER	NONE
Sampling Device		BAILER	BAILER
Time		09:40	09:42
Temperature (Fahrenheit)		65.2	63.8
pH		7.4	7.3
Conductivity (micromhos/cm)		1000	1000
BTS Chain of Custody		961212-J1	970331-23
BTS Sample I.D.		MW-2	MW-2
DOHS HMTL Laboratory Analysis		NET TPH-GAS & BTEX	LEGEND TPH-GAS, BTEX & MTBE

<b>S U M M A R Y O F C A R R E S U L T S</b> in parts per billion unless otherwise noted
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DOHS HMTL Laboratory	NET	LEGEND
Laboratory Sample I.D.	271141	274072
TPH Gasoline	58,000	38,000
Benzene	3,100	6,000
Toluene	11,000	7,900
Ethyl Benzene	1,700	690
Xylene Isomers	8,100	3,300
Methyl-tert-butyl ether	220	ND



## TABLE OF WELL MONITORING DATA

Well I.D.	MW-3	MW-3	MW-3
Date Sampled	10/28/96	12/12/96	03/31/97
Well Diameter (in.)	2	2	2
Total Well Depth (ft.)	23.88	24.00	23.90
Depth To Water (ft.)	19.11	18.61	18.35
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	10/28/96		12/12/96		03/31/97		
Well Diameter (in.)	2		2		2		
Total Well Depth (ft.)	24.52		24.85		24.84		
Depth To Water (ft.)	19.32		19.42		18.67		
Free Product (in.)	NONE		NONE		NONE		
Reason If Not Sampled	--		--		--		
1 Case Volume (gal.)	0.80		0.86		NOT PURGED		
Did Well Dewater?	NO		NO		--		
Gallons Actually Evacuated	2.5		3.0		--		
Purging Device	BAILER		BAILER		NONE		
Sampling Device	BAILER		BAILER		BAILER		
Time	12:59	13:02	13:04	08:20	08:22	08:25	13:44
Temperature (Fahrenheit)	70.4	71.2	70.8	64.8	64.6	64.6	65.8
pH	7.2	6.9	7.0	7.4	7.2	7.2	7.4
Conductivity (micromhos/cm)	1200	1000	1000	1000	1000	1000	560
BTS Chain of Custody	961028-K2		961212-J1		970331-23		
BTS Sample I.D.	MW-4		MW-4		MW-4		
DOHS HMTL Laboratory	NET		NET		LEGEND		
Analysis	TPH-GAS, BTEX & MTBE		TPH-GAS, BTEX & MTBE		TPH-GAS, BTEX & MTBE		

SUMMARY OF CAR RESULTS in parts per billion unless otherwise noted
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DOHS HMTL Laboratory	NET	LEGEND
Laboratory Sample I.D.	271142	274073
TPH Gasoline	11,000	ND
Benzene	4,200	ND
Toluene	410	ND
Ethyl Benzene	420	ND
Xylene Isomers	260	ND
Methyl-tert-butyl ether	32	ND

## TABLE OF WELL MONITORING DATA

Well I.D.	MW-5		MW-5		MW-5		
Date Sampled	10/28/96		12/12/96		03/31/97		
Well Diameter (in.)	2		2		2		
Total Well Depth (ft.)	28.92		28.90		28.86		
Depth To Water (ft.)	19.88		20.09		19.24		
Free Product (in.)	NONE		NONE		NONE		
Reason If Not Sampled	--		--		--		
1 Case Volume (gal.)	1.40		1.40		NOT PURGED		
Did Well Dewater?	NO		NO		--		
Gallons Actually Evacuated	4.5		4.5		--		
Purging Device	BAILER		BAILER		NONE		
Sampling Device	BAILER		BAILER		BAILER		
Time	12:39	12:41	12:44	08:00	08:03	08:06	13:24
Temperature (Fahrenheit)	67.8	67.6	67.6	61.4	61.4	61.2	63.4
pH	7.2	7.2	7.1	7.6	7.6	7.6	7.4
Conductivity (micromhos/cm)	920	850	840	1000	790	770	700
BTS Chain of Custody	961028-K2		961212-J1		970331-23		
BTS Sample I.D.	MW-5		MW-5		MW-5		
DOHS HMTL Laboratory	NET		NET		LEGEND		
Analysis	TPH-GAS, BTEX & MTBE		TPH-GAS, BTEX & MTBE		TPH-GAS, BTEX & MTBE		

SUMMARY OF CAR RESULTS in parts per billion unless otherwise noted
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DOHS HMTL Laboratory	NET	LEGEND
Laboratory Sample I.D.	271143	274074
TPH Gasoline	230	90
Benzene	5.6	3.1
Toluene	0.9	ND
Ethyl Benzene	ND	ND
Xylene Isomers	0.9	ND
Methyl-tert-butyl ether	3.6	ND

## TABLE OF WELL MONITORING DATA

Well I.D.	MW-6	MW-6	MW-6
Date Sampled	10/28/96	12/12/96	03/31/97
Well Diameter (in.)	2	2	2
Total Well Depth (ft.)	28.43	28.45	28.42
Depth To Water (ft.)	20.02	20.18	19.81
Free Product (in.)	NONE	NONE	--
Reason If Not Sampled	--	--	GAUGE ONLY
1 Case Volume (gal.)	1.30	1.30	
Did Well Dewater?	NO	NO	
Gallons Actually Evacuated	4.0	4.0	
Purging Device	BAILER	BAILER	
Sampling Device	BAILER	BAILER	
Time	12:17	12:19	12:22
Temperature (Fahrenheit)	70.8	71.0	70.4
pH	7.2	7.1	7.1
Conductivity (micromhos/cm)	1000	1000	1000
BTS Chain of Custody	961028-K2		961212-J1
BTS Sample I.D.	MW-6		MW-6
DOHS HMTL Laboratory	NET		NET
Analysis	TPH-GAS, BTEX & MTBE		TPH-GAS, BTEX & MTBE

SUMMARY OF CAR RESULTS in parts per billion unless otherwise noted
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DOHS HMTL Laboratory	NET
Laboratory Sample I.D.	271144
TPH Gasoline	ND
Benzene	ND
Toluene	ND
Ethyl Benzene	ND
Xylene Isomers	ND
Methyl-tert-butyl ether	ND



May 13, 1997

Kent Brown  
Blaine Tech Services  
1680 Rogers Ave.  
San Jose, CA 95112

Re: **First Quarter 1997 Monitoring Report**  
1432 Harrison Street  
Oakland, California

Dear Mr. Brown:

As you requested, Cambria Environmental Technology, Inc. (Cambria) has summarized the results of the first quarter 1997 ground water sampling at the site referenced above. Presented below are sampling activities performed in the first quarter of 1997, the anticipated second quarter 1997 activities, and the hydrocarbon distribution in ground water.

#### **FIRST QUARTER 1997 ACTIVITIES**

*Ground Water Sampling:* On March 31, 1997, Blaine Tech Services (Blaine) gauged all site wells and sampled wells MW-1, MW-2, MW-4, and MW-5. No sampling of wells MW-3 or MW-6 is required at this time according to the sampling plan. Samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), methyl tert-butyl ether (MTBE), and benzene, ethylbenzene, toluene and total xylenes (BETX). Ground water elevations are shown on Figure 1. Ground water analytic data is tabulated and presented separately by Blaine.

CAMBRIA

#### **ANTICIPATED SECOND QUARTER 1997 ACTIVITIES**

ENVIRONMENTAL

TECHNOLOGY, INC.

1144 65TH STREET,

SUITE B

OAKLAND,

CA 94608

PH: (510) 420-0700

FAX: (510) 420-9170

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

Kent Brown  
May 13, 1997

CAMBRIA

## HYDROCARBON DISTRIBUTION IN GROUND WATER

Ground water analytic 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 crossgradient horizontal extent is defined to below or near method detection limits by wells MW-3 and MW-5. The southwest extent is defined by MW-6, in which no hydrocarbons were detected during the fourth quarter 1996 sampling event. No hydrocarbons were detected in well MW-4 during the most recent sampling event, although hydrocarbons were detected in this well during the fourth quarter 1996 sampling event. Continued monitoring of well MW-4 will assess whether the northeast hydrocarbon extent is fully defined.

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

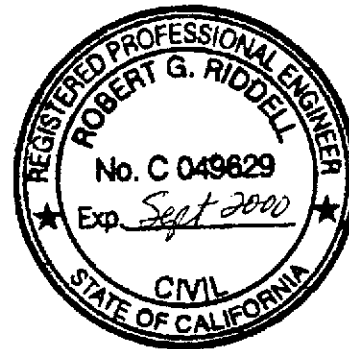
Sincerely,  
**Cambria Environmental Technology, Inc.**



Maureen D. Feineman  
Staff Geologist



Bob Clark-Riddell, P.E.  
Principal Engineer



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# LEGEND

Analytical Services

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3636 N. Laughlin Road, Suite 110 Santa Rosa, California 95403 707.541.2313 707.541.2333 fax

Kent Brown  
Blaine Tech Services  
1680 Rogers Ave.  
San Jose, CA 95112


Date: 05/15/1997  
LEGEND Client Acct. No: 43200  
LEGEND Job No: 97.00660  
Received: 04/02/1997

## Client Reference Information

Mark Borsuk/970331-Z3

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Result Flags" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2313.

Submitted by:



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Marty French  
Project Manager

Enclosure(s)

Client Name: Blaine Tech Services  
Client Acct: 43200  
LEGEND Job No: 97.00660

Date: 05/15/1997  
ELAP Cert: 2193  
Page: 2

Ref: Mark Borsuk/970331-Z3

SAMPLE DESCRIPTION: MW-1  
Date Taken: 03/31/1997  
Time Taken: 14:00  
LEGEND Sample No: 274071

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
TPH (Gas/BTEXE,Liquid)								
5030/M8015	--						04/07/1997	3824
DILUTION FACTOR*	1,000						04/07/1997	3824
as Gasoline	160		50	mg/L	5030		04/07/1997	3824
8020 (GC,Liquid)	--						04/07/1997	3824
Benzene	24,000		500	ug/L	8020		04/07/1997	3824
Toluene	39,000		500	ug/L	8020		04/07/1997	3824
Ethylbenzene	1,900		500	ug/L	8020		04/07/1997	3824
Xylenes (Total)	13,000		500	ug/L	8020		04/07/1997	3824
Methyl-tert-butyl ether	ND		2,000	ug/L	8020		04/07/1997	3824
SURROGATE RESULTS	--						04/07/1997	3824
Bromofluorobenzene (SURR)	104			% Rec.	5030		04/07/1997	3824

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services  
Client Acct: 43200  
LEGEND Job No: 97.00660

Date: 05/15/1997  
ELAP Cert: 2193  
Page: 3

Ref: Mark Borsuk/970331-23

SAMPLE DESCRIPTION: MW-2  
Date Taken: 03/31/1997  
Time Taken: 13:50  
LEGEND Sample No: 274072

Parameter	Results	Flags	Reporting			Date	Date	Run
			Limit	Units	Method	Extracted	Analyzed	Batch No.
TPH (Gas/BTEX, Liquid)								
5030/M8015	--						04/07/1997	3824
DILUTION FACTOR*	100						04/07/1997	3824
as Gasoline	38		5.0	mg/L	5030		04/07/1997	3824
8020 (GC, Liquid)	--						04/07/1997	3824
Benzene	6,000	FI	500	ug/L	8020		04/09/1997	3825
Toluene	7,900	FI	500	ug/L	8020		04/09/1997	3825
Ethylbenzene	690		50	ug/L	8020		04/07/1997	3824
Xylenes (Total)	3,300		50	ug/L	8020		04/07/1997	3824
Methyl-tert-butyl ether	ND		200	ug/L	8020		04/07/1997	3824
SURROGATE RESULTS	--						04/07/1997	3824
Bromofluorobenzene (SURR)	99			% Rec.	5030		04/07/1997	3824

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services  
Client Acct: 43200  
LEGEND Job No: 97.00660

Date: 05/15/1997  
ELAP Cert: 2193  
Page: 4

Ref: Mark Borsuk/970331-Z3

SAMPLE DESCRIPTION: MW-4  
Date Taken: 03/31/1997  
Time Taken: 13:40  
LEGEND Sample No: 274073

Parameter	Results	Flags	Reporting			Date	Date	Run
			Limit	Units	Method	Extracted	Analyzed	Batch No.
TPH (Gas/BTXE,Liquid)								
5030/M8015	--						04/04/1997	3823
DILUTION FACTOR*	1						04/04/1997	3823
as Gasoline	ND		0.050	mg/L	5030		04/04/1997	3823
8020 (GC,Liquid)	--						04/04/1997	3823
Benzene	ND		0.50	ug/L	8020		04/04/1997	3823
Toluene	ND		0.50	ug/L	8020		04/04/1997	3823
Ethylbenzene	ND		0.50	ug/L	8020		04/04/1997	3823
Xylenes (Total)	ND		0.50	ug/L	8020		04/04/1997	3823
Methyl-tert-butyl ether	ND		2.0	ug/L	8020		04/04/1997	3823
SURROGATE RESULTS	--						04/04/1997	3823
Bromofluorobenzene (SURR)	98			% Rec.	5030		04/04/1997	3823

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services  
Client Acct: 43200  
LEGEND Job No: 97.00660

Date: 05/15/1997  
ELAP Cert: 2193  
Page: 5

Ref: Mark Borsuk/970331-Z3

SAMPLE DESCRIPTION: MW-5  
Date Taken: 03/31/1997  
Time Taken: 13:30  
LEGEND Sample No: 274074

Parameter	Results	Flags	Reporting			Method	Date	Date	Run
			Limit	Units			Extracted	Analyzed	Batch No.
TPH (Gas/BTEX,Liquid)									
5030/M8015	--						04/04/1997	3823	
DILUTION FACTOR*	1						04/04/1997	3823	
as Gasoline	0.09	G-	0.050	mg/L	5030		04/04/1997	3823	
8020 (GC,Liquid)	--						04/04/1997	3823	
Benzene	3.1	C	0.50	ug/L	8020		04/04/1997	3823	
Toluene	ND		0.50	ug/L	8020		04/04/1997	3823	
Ethylbenzene	ND		0.50	ug/L	8020		04/04/1997	3823	
Xylenes (Total)	ND		0.50	ug/L	8020		04/04/1997	3823	
Methyl-tert-butyl ether	ND		2.0	ug/L	8020		04/04/1997	3823	
SURROGATE RESULTS	--						04/04/1997	3823	
Bromofluorobenzene (SURR)	106			% Rec.	5030		04/04/1997	3823	

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Ref: Mark Borsuk/970331-23

## CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found	Standard Amount Expected					
TPH (Gas/BTXE,Liquid)								
as Gasoline	96.6	0.483	0.50		mg/L	04/04/1997	cjy	3823
Benzene	95.6	19.12	20.0		ug/L	04/04/1997	cjy	3823
Toluene	92.0	18.39	20.0		ug/L	04/04/1997	cjy	3823
Ethylbenzene	95.1	19.02	20.0		ug/L	04/04/1997	cjy	3823
Xylenes (Total)	95.4	57.23	60.0		ug/L	04/04/1997	cjy	3823
Methyl-tert-butyl ether	105.5	84.38	80.0		ug/L	04/04/1997	cjy	3823
Bromofluorobenzene (SURR)	112.0	112	100	% Rec.		04/04/1997	cjy	3823
TPH (Gas/BTXE,Liquid)								
as Gasoline	100.8	0.504	0.50		mg/L	04/07/1997	cjy	3824
Benzene	91.3	18.25	20.0		ug/L	04/07/1997	cjy	3824
Toluene	87.2	17.44	20.0		ug/L	04/07/1997	cjy	3824
Ethylbenzene	90.8	18.17	20.0		ug/L	04/07/1997	cjy	3824
Xylenes (Total)	90.3	54.20	60.0		ug/L	04/07/1997	cjy	3824
Methyl-tert-butyl ether	89.5	71.58	80.0		ug/L	04/07/1997	cjy	3824
Bromofluorobenzene (SURR)	103.0	103	100	% Rec.		04/07/1997	cjy	3824
TPH (Gas/BTXE,Liquid)								
as Gasoline	104.0	0.52	0.50		mg/L	04/09/1997	vah	3825
Benzene	92.5	18.50	20.0		ug/L	04/09/1997	vah	3825
Toluene	92.1	18.42	20.0		ug/L	04/09/1997	vah	3825
Ethylbenzene	92.9	18.58	20.0		ug/L	04/09/1997	vah	3825
Xylenes (Total)	92.4	55.43	60.0		ug/L	04/09/1997	vah	3825
Methyl-tert-butyl ether	92.7	74.14	80.0		ug/L	04/09/1997	vah	3825
Bromofluorobenzene (SURR)	98.0	98	100	% Rec.		04/09/1997	vah	3825

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Blaine Tech Services  
Client Acct: 43200  
LEGEND Job No: 97.00660

Date: 05/15/1997  
ELAP Cert: 2193  
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## METHOD BLANK REPORT

Parameter	Method	Reporting	Flags	Units	Date	Analyst	Run
	Blank						
TPH (Gas/BTXE,Liquid)							
as Gasoline	ND	0.050		mg/L	04/04/1997	cjy	3823
Benzene	ND	0.50		ug/L	04/04/1997	cjy	3823
Toluene	ND	0.50		ug/L	04/04/1997	cjy	3823
Ethylbenzene	ND	0.50		ug/L	04/04/1997	cjy	3823
Xylenes (Total)	ND	0.50		ug/L	04/04/1997	cjy	3823
Methyl-tert-butyl ether	ND	2.0		ug/L	04/04/1997	cjy	3823
Bromofluorobenzene (SURR)	103			% Rec.	04/04/1997	cjy	3823
TPH (Gas/BTXE,Liquid)							
as Gasoline	ND	0.050		mg/L	04/07/1997	cjy	3824
Benzene	ND	0.50		ug/L	04/07/1997	cjy	3824
Toluene	ND	0.50		ug/L	04/07/1997	cjy	3824
Ethylbenzene	ND	0.50		ug/L	04/07/1997	cjy	3824
Xylenes (Total)	ND	0.50		ug/L	04/07/1997	cjy	3824
Methyl-tert-butyl ether	ND	2.0		ug/L	04/07/1997	cjy	3824
Bromofluorobenzene (SURR)	106			% Rec.	04/07/1997	cjy	3824
TPH (Gas/BTXE,Liquid)							
as Gasoline	ND	0.050		mg/L	04/09/1997	vah	3825
Benzene	ND	0.50		ug/L	04/09/1997	vah	3825
Toluene	ND	0.50		ug/L	04/09/1997	vah	3825
Ethylbenzene	ND	0.50		ug/L	04/09/1997	vah	3825
Xylenes (Total)	ND	0.50		ug/L	04/09/1997	vah	3825
Methyl-tert-butyl ether	ND	2.0		ug/L	04/09/1997	vah	3825
Bromofluorobenzene (SURR)	105			% Rec.	04/09/1997	vah	3825

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

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## MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike				Matrix Spike				Units	Date Analyzed	Run Batch	Sample Spiked
	Matrix Spike % Rec.	Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Spike Dup Conc.	Flags				
TPH (Gas/BTXE,Liquid)												274079
as Gasoline	93.0	90.6	2.6	0.50	0.08	0.545	0.533		mg/L	04/04/1997	3823	274079
Benzene	106.2	106.6	0.4	7.11	ND	7.55	7.58		ug/L	04/04/1997	3823	274079
Toluene	103.6	102.8	0.8	33.76	ND	34.97	34.72		ug/L	04/04/1997	3823	274079
Bromofluorobenzene (SURR)	111.0	111.0	0.0	100	107	111	111		% Rec.	04/04/1997	3823	274079
TPH (Gas/BTXE,Liquid)												274114
as Gasoline	97.2	98.8	1.6	0.50	ND	0.486	0.494		mg/L	04/07/1997	3824	274114
Benzene	97.4	98.2	0.8	3.89	ND	3.79	3.82		ug/L	04/07/1997	3824	274114
Toluene	96.7	102.2	5.4	33.79	ND	32.66	34.55		ug/L	04/07/1997	3824	274114
Bromofluorobenzene (SURR)	103.0	105.0	1.9	100	100	103	105		% Rec.	04/07/1997	3824	274114
TPH (Gas/BTXE,Liquid)												274114
Benzene	97.4	98.2	0.8	3.89	ND	3.79	3.82		ug/L	04/07/1997	3824	274114
Toluene	96.7	102.2	5.4	33.79	ND	32.66	34.55		ug/L	04/07/1997	3824	274114
Bromofluorobenzene (SURR)	103.0	105.0	1.9	100	100	103	105		% Rec.	04/07/1997	3824	274114
TPH (Gas/BTXE,Liquid)												274131
as Gasoline	101.8	100.2	1.6	0.50	ND	0.509	0.501		mg/L	04/09/1997	3825	274131
Benzene	96.5	94.5	2.1	4.02	ND	3.88	3.80		ug/L	04/09/1997	3825	274131
Toluene	97.7	96.0	1.8	36.29	ND	35.47	34.83		ug/L	04/09/1997	3825	274131
Bromofluorobenzene (SURR)	104.0	104.0	0.0	100	105	104	104		% Rec.	04/09/1997	3825	274131
TPH (Gas/BTXE,Liquid)												274131
as Gasoline				0.50	ND				mg/L	04/09/1997	3825	274131
Bromofluorobenzene (SURR)				100	105				% Rec.	04/09/1997	3825	274131

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

## KEY TO RESULT FLAGS

- \* : RPD between sample duplicates exceeds 30%.
- \*M : RPD between sample duplicates or MS/MSD exceeds 20%.
- + : Correlation coefficient for the Method of Standard Additions is less than 0.995.
- < : Sample result is less than reported value.
- B-I : Value is between Method Detection Limit and Reporting Limit.
- B-0 : Analyte found in blank and sample.
- C : The result confirmed by secondary column or GC/MS analysis.
- CNA : Cr+6 not analyzed; Total Chromium concentration below Cr+6 regulatory level.
- COMP : Sample composited by equal volume prior to analysis.
- CV : Parameter cannot be analyzed for in a preserved sample.
- CWT : Due to the sample matrix, constant weight could not be achieved.
- D- : The result has an atypical pattern for Diesel analysis.
- D1 : The result for Diesel is an unknown hydrocarbon which consists of a single peak.
- DB : ND for hydrocarbons, non-discrete baseline rise detected.
- DH : The result appears to be a heavier hydrocarbon than Diesel.
- DL : The result appears to be a lighter hydrocarbon than Diesel.
- DR : Elevated Reporting Limit due to Matrix.
- DS : Surrogate diluted out of range.
- DX : The result for Diesel is an unknown hydrocarbon which consists of several peaks.
- FA : Compound quantitated at a 2X dilution factor.
- FB : Compound quantitated at a 5X dilution factor.
- FC : Compound quantitated at a 10X dilution factor.
- FD : Compound quantitated at a 20X dilution factor.
- FE : Compound quantitated at a 50X dilution factor.
- FF : Compound quantitated at a 100X dilution factor.
- FG : Compound quantitated at a 200X dilution factor.
- FH : Compound quantitated at a 500X dilution factor.
- FI : Compound quantitated at a 1000X dilution factor.
- FJ : Compound quantitated at a greater than 1000x dilution factor.
- FK : Compound quantitated at a 25X dilution factor.
- FL : Compound quantitated at a 250X dilution factor.
- G- : The result has an atypical pattern for Gasoline.
- G1 : The result for Gasoline is an unknown single peak.
- GH : The result appears to be a heavier hydrocarbon than Gasoline.
- GL : The result appears to be a lighter hydrocarbon than Gasoline.
- GX : The result for Gasoline is an unknown hydrocarbon which consists of several peaks.
- HT : Analysis performed outside of the method specified holding time.
- HTC : Confirmation analyzed outside of the method specified holding time.
- HTP : Prep procedure performed outside of the method specified holding time.
- HTR : Received after holding time expired, analyzed ASAP after receipt.
- HX : Peaks detected within the quantitation range do not match standard used.
- J : Value is estimated.
- MI : Matrix Interference Suspected.
- MSA : Value determined by Method of Standard Additions.
- MSA\* : Value obtained by Method of Standard Additions; Correlation coefficient is <0.995.
- NI1 : Sample spikes outside of QC limits; matrix interference suspected.
- NI2 : Sample concentration is greater than 4X the spiked value; the spiked value is considered insignificant.
- NI3 : Matrix Spike values exceed established QC limits, post digestion spike is in control.
- NI4 : MS/MSD outside of control limits, serial dilution within control.
- P : There is >40% difference between primary and confirmation analysis.
- P7 : pH of sample > 2; sample analyzed past 7 days.
- RSC : Refer to subcontract laboratory report for QC data.
- S2 : Matrix interference confirmed by repeat analysis.
- SCN : Thiocyanate not analyzed separately; total value is below the Reporting Limit for Free Cyanide.
- SIM : Analysis performed by Selective Ion Monitoring.
- TND : Conc. of the total analyte ND; therefore this analyte is ND also.
- UMDL : Undetected at the Method Detection Limit.
- UTD : Unable to perform requested analysis.

# BLAINE TECH SERVICES INC.

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

4160

CHAIN OF CUSTODY  
970331-23

CLIENT *Mark Borsok*

SITE *HARRISON ST. GARAGE*  
*1432 HARRISON ST.*  
*OAKLAND, CA*

CONDUCT ANALYSIS TO DETECT	
C = COMPOSITE ALL CONTAINERS	TPH-GAS BTEX MABE

LAB LEGEND (Net)

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

EPA  RWQCB REGION \_\_\_\_\_

LIA

OTHER

SPECIAL INSTRUCTIONS *Invoice & Report to Blaine Tech Services.*  
*Attn: Kent Brown*

SAMPLE I.D.		S = SOIL W = H <sub>2</sub> O	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT		ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
					TPH-GAS BTEX	MABE				
Mw-1	3-31-97	1400	3		x	x				
Mw-2	"	1350	3		x	x				
Mw-4	"	1340	3		x	x				
Mw-5	"	1330	3		x	x				

CUSTODY SEALED  
*3-31-97* Time *1400* Initials *BR*

SEAL INTACT?  
Yes  No  Initials *BR*

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN	
	3-31-97	1400	BRET BLEAL	Routine	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>[Signature]</i>	4-1-97	1225	<i>[Signature]</i>	4-1-97	1225
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>[Signature]</i>	4-1-97	1800	<i>[Signature]</i>		
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>[Signature]</i>			<i>[Signature]</i>	4/2/97	0820
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	VIA CAS	
				TEMP: 2.3°	