

BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

April 12, 1995

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

SITE:
1432 Harrison Street
Oakland, California

DATE:
March 13, 1995

GROUNDWATER SAMPLING REPORT 950313-J-1

Blaine Tech Services, Inc. perform 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, well evacuation, and sample collection. Measurements include the total depth of the well and 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 well evacuation and at the time of sample collection.

TABLE OF WELL MONITORING DATA

Well I.D.	MW-1	MW-2	MW-3
Date Sampled	03/13/95	03/13/95	03/13/95
Well Diameter (in.)	4	2	2
Total Well Depth (ft.)	25.15	25.86	23.90
Depth To Water (ft.)	18.66	19.15	17.86
Free Product (in.)	NONE	NONE	NONE
Reason If Not Sampled	--	--	--
1 Case Volume (gal.)	4.2	1.0	0.9
Did Well Dewater?	NO	NO	NO
Gallons Actually Evacuated	15.0	3.0	3.0
Purging Device	ELECTRIC SUBMERSIBLE	BAILER	BAILER
Sampling Device	BAILER	BAILER	BAILER
Time	10:26 10:28 10:30	11:00 11:03 11:06	09:48 09:51 09:54
Temperature (Fahrenheit)	64.6 64.8 65.2	66.2 66.0 65.8	65.4 65.2 65.2
pH	7.4 7.4 7.5	7.3 7.2 7.3	8.0 7.8 7.8
Conductivity (micromhos/cm)	880 440 400	300 290 300	560 420 360
BTS Chain of Custody	950313-J-1	950313-J-1	950313-J-1
BTS Sample I.D.	MW-1	MW-2	MW-3
DHS HTML Laboratory	NET	NET	NET
Laboratory Sample I.D.	238158	238159	238157
Analysis	TPH (GAS), BTXE	TPH (GAS), BTXE	TPH (GAS), BTXE, TPH (MOTOR OIL), EPA 8010

SUMMARY OF CAR RESULTS in Parts Per Billion unless otherwise noted

	NET	NET	NET
DHS HTML Laboratory	NET	NET	NET
Laboratory Sample I.D.	238158	238159	238157
TPH Gasoline.....	150,000	500,000	ND
Benzene.....	31,000 *	9,200	ND
Toluene.....	45,000 *	23,000	ND
Ethyl Benzene.....	2,500 *	7,000	ND
Xylene Isomers.....	17,000 *	36,000	ND
TPH Motor oil.....	--	--	ND

* Compound quantitated at a 1000x dilution factor.

In the interest of clarity, an addendum has been appended 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.

STANDARD PRACTICES

Evacuation and Sampling Equipment

As shown in the TABLE OF MONITORING DATA the wells at this site were evacuated according to a protocol requirement for three case volumes. The wells were evacuated using electric submersible pumps and bailers.

Samples were collected using a bailer.

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 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.

Electric Submersible Pumps: Electric submersible pumps are appropriate for the high volume evacuation of wells of any depth provided the well diameter is large enough to admit the pump. Four inch and three inch diameter wells will readily accept electric submersible pumps, while two inch wells do not. In operation, the pump is lowered into the well with a pipe train above it. A checkvalve immediately above the pump and below the first section of pipe prevents water that has entered the pipe from flowing back into the well. Electricity is provided to the pump via an electrical cable and the action of the pump is to push water up out of the well.

Electric submersible pumps are often used as well evacuation devices, which are then supplanted with a more specialized sample collection device (such as a bailer) at the time of sampling. An alternative is to use the pump for both evacuation and sampling. When a bailer is used to collect the sample, interpretation of results by the consultant should allow for variations attributable to near surface contamination entering the bailer. When the electric submersible is, itself, used for sample collection it should be operated with the output restricted to a point where the loss of volatiles becomes indistinguishable from the level obtained with true sampling pumps.

It should be noted that when the pump is used for both evacuation and sample collection that it is possible to perform these operation as an uninterrupted continuum. This contrasts with the variations in elapsed time between evacuation and sample collection that occur when field personnel cease one mode of operation and must bring other apparatus into use.

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. Decontamination procedures include complete disassembly of the device to a point where a jet of steam cleaner water can be directed onto all the internal surfaces (this applies to the *inside* of the Teflon bladders of USGS/Middleburg pumps). Teflon conductor tubing is connected to the steam cleaner water outlet and water is run through the interior of the tubing for several minutes. The devices are then reassembled and actuated for a period of time as an additional measure. Blaine Tech Services, Inc. frequently modifies apparatus to allow complete disassembly and proper cleaning.

Effluent Materials

The evacuation process creates a volume of effluent water which must be contained. Blaine Tech Service, Inc. will place this water in appropriate containers of the client's choice or bring new DOT 17 E drums to the site which are appropriate for the containment of the effluent materials. The determination of how to properly dispose of the effluent water must usually await the results of laboratory analyses of the sample collected from the groundwater well. If that sample does not establish whether or not the effluent water is contaminated, or if effluent from more than one source has been combined in the same container, it may be necessary to conduct additional analyses on the effluent material.

Sampling Methodology

Samples were obtained by standardized sampling procedures that follow an evacuation and sample collection protocol. The sampling methodology conforms both State and Regional Water Quality Control Board standards 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 prefrozen blocks of 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 releasing the samples followed by the time, date and signature of the 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 #178.

Laboratory Identification Numbers

Following receipt of the samples and completion of the Chain of Custody form, the laboratory then assigns their own identification numbers to the samples. Different laboratories use different numbering systems and, according to their own internal conventions, may or may not assign sequential numbers to samples which are placed on temporary "hold", pending the results of other analyses. Laboratory identification numbers (if assigned and available) are included in our report. These are the number that appear on the certified analytical report by the analytical laboratory.

Certified Analytical Report

The certified analytical report (CAR) generated by the laboratory is the official document in which they issue their findings. Any discrepancy between verbally communicated results and the analytical values issued in a certified analytical report should be decided in favor of the CAR, for while it may, itself, be in error with regard to a particular number, the CAR remains the recognized authoritative legal document until such time as it is amended with a corrected report.

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:

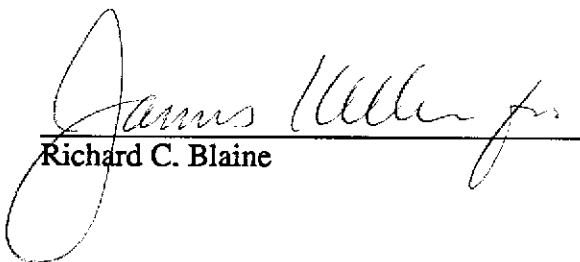
Water Quality Control Board
San Francisco Bay Region
2101 Webster Street
5th Floor
Oakland, CA 94612

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.


Richard C. Blaine

RCB/lp

attachments: gradient map
chain of custody
certific analytical report

April 11, 1995

Jim Keller
Blaine Tech Services
985 Timothy Drive
San Jose, CA 95133

Re: Quarterly Monitoring Report
1432 Harrison Street
Oakland, California

Dear Mr. Keller:

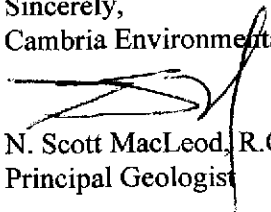
As you requested, Cambria Environmental Technology, Inc. has prepared this letter summarizing the results of the first quarter 1995 ground water monitoring sampling at the site referenced above. Presented below are sampling activities performed in the first quarter of 1995 and a discussion of hydrocarbon distribution in ground water.

First Quarter 1995 Activities: On March 13, 1995, Blaine Tech Services collected ground water samples from wells MW-1, MW-2 and MW-3 and analyzed the samples for total petroleum hydrocarbons as gasoline (TPHg) and benzene, ethylbenzene, toluene and xylenes (BETX). Samples from well MW-3 were also analyzed for TPH as motor oil (TPHmo). BTS also gauged all site wells.

Hydrocarbon Distribution in Ground Water: Although no petroleum hydrocarbons were detected in the samples from well MW-3, samples from wells MW-1 and MW-2 contained up to 500,000 parts per billion (ppb) TPHg and 31,000 ppb benzene. Though the samples were originally analyzed within the method specified holding time, further dilutions were required which resulted in the samples being analyzed after the holding time had expired. Considering this fact, these concentrations should be considered as minimum, instead of actual, values.

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

Sincerely,
Cambria Environmental Technology, Inc.



N. Scott MacLeod, R.G.
Principal Geologist



D:\PROJECT\BTS\HARRISON\QM-1-95.WPD

BLAINE

TECH SERVICES INC

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

#6001

CHAIN OF CUSTODY
950313J1

CLIENT Mark Borsuk

SITE 1432 Hamson St
Oakland, CA.

CONDUCT ANALYSIS TO DETECT	
TPH/ BTEX EPA 8015/8020	TPH MD EPA 3510/3520 GC/FID
X	X
X	X
X	X
X	X

LAB NET DHS # _____

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

SAMPLE I.D.	DATE	TIME	MATRIX S = SOIL W = H2O	TOTAL	CONTAINERS	C = COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT		ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
							TPH/ BTEX EPA 8015/8020	TPH MD EPA 3510/3520 GC/FID				
MW-3	3/13	9:55	W	5	40 ML, 1 LIT		X	X				
MW-1		10:33	W	3	40 ML		X	X				
MW-2		11:10	W	3	40 ML		X	X				
T.B.			W	2	40 ML		X	X				

(3/14/95 Seal Intact)

SAMPLING COMPLETED	DATE 3/13	TIME 11:10	SAMPLING PERFORMED BY JEAN GATINEAU	RESULTS NEEDED NO LATER THAN Routine	
RELEASED BY Jean Gatineau	DATE 3/14/95	TIME 10:20	RECEIVED BY J. Lumbra	DATE 3/14/95	TIME 10:20
RELEASED BY J. Lumbra	DATE 3/14/95	TIME 16:00	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY M. Arlene	DATE 3/15/95	TIME 08:00
SHIPPED VIA NCS	DATE SENT	TIME SENT	COVER #		



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Santa Rosa Division
3636 North Laughlin Road
Suite 110
Santa Rosa, CA 95403-8226
Tel: (707) 526-7200
Fax: (707) 541-2333

Fran Thie
Blaine Tech Services
985 Timothy Dr.
San Jose, CA 95133

Date: 04/07/1995
NET Client Acct. No: 43200
NET Pacific Job No: 95.01182
Received: 03/15/1995

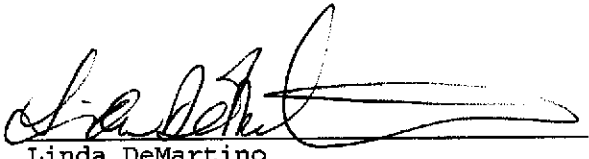
Client Reference Information

Mark Borsuk 1432 Harrison Street, Oakland, CA/950313-J1

Sample analysis in support of the project referenced above has been completed and results are presented on 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 Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:


Thomas F. Cullen, Jr.
Division Manager


Linda DeMartino
Project Coordinator

Enclosure(s)





Client Name: Blaine Tech Services
 Client Acct: 43200
 NET Job No: 95.01182

Date: 04/07/1995
 ELAP Cert: 1386
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Ref: Mark Borsuk 1432 Harrison Street, Oakland, CA/950313-J1

SAMPLE DESCRIPTION: MW-1
 Date Taken: 03/13/1995
 Time Taken: 10:32
 NET Sample No: 238158

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/BTXE,Liquid)	*							
METHOD 5030/M8015	--						04/01/1995	2716
DILUTION FACTOR*	100						04/05/1995	2725
as Gasoline			5	mg/L	5030		04/05/1995	2725
METHOD 8020 (GC,Liquid)	--						04/01/1995	2716
Benzene	31,000	FI	50	ug/L	8020		04/01/1995	2716
Toluene		FI	50	ug/L	8020		04/01/1995	2716
Ethylbenzene	2,500	FI	50	ug/L	8020		04/01/1995	2716
Xylenes (Total)	14,000	FI	50	ug/L	8020		04/01/1995	2716
SURROGATE RESULTS	--						04/01/1995	2716
Bromofluorobenzene (SURR)	88			% Rec.	5030		04/01/1995	2716

* : Sample was originally analyzed within the method specified holding time.
 Further dilutions were required and analyzed after the holding time had expired.
 This data should be considered a minimum concentration.

FI : Compound quantitated at a 1000X dilution factor.

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



Client Name: Blaine Tech Services

Date: 04/07/1995

Client Acct: 43200

ELAP Cert: 1386

NET Job No: 95.01182

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Ref: Mark Borsuk 1432 Harrison Street, Oakland, CA/950313-J1

SAMPLE DESCRIPTION: MW-2

Date Taken: 03/13/1995

Time Taken: 11:10

NET Sample No: 238159

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
TPH (Gas/BTEX, Liquid)	*							
METHOD 5030/M8015	--						04/01/1995	2716
DILUTION FACTOR*	1,000						04/01/1995	2716
as Gasoline	500		50	mg/L	5030		04/01/1995	2716
METHOD 8020 (GC, Liquid)	--						04/01/1995	2716
Benzene	500		500	ug/L	8020		04/01/1995	2716
Toluene	25,000		500	ug/L	8020		04/01/1995	2716
Ethylbenzene	7,000		500	ug/L	8020		04/01/1995	2716
Xylenes (Total)	35,000		500	ug/L	8020		04/01/1995	2716
SURROGATE RESULTS	--						04/01/1995	2716
Bromofluorobenzene (SURR)	102			% Rec.	5030		04/01/1995	2716

* : Sample was originally analyzed within the method specified holding time.
 Further dilutions were required and analyzed after the holding time had expired.
 This data should be considered a minimum concentration.

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Client Name: Blaine Tech Services
Client Acct: 43200
NET Job No: 95.01182

Date: 04/07/1995
ELAP Cert: 1386
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Ref: Mark Borsuk 1432 Harrison Street, Oakland, CA/950313-J1

SAMPLE DESCRIPTION: T.B.

Date Taken: 03/13/1995

Time Taken:

NET Sample No: 238160

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
TPH (Gas/BTEX, Liquid)	*							
METHOD 5030/M8015	--						04/01/1995	2716
DILUTION FACTOR*	1						04/01/1995	2716
as Gasoline	ND		0.05	mg/L	5030		04/01/1995	2716
METHOD 8020 (GC, Liquid)	--						04/01/1995	2716
Benzene	ND		0.5	ug/L	8020		04/01/1995	2716
Toluene	ND		0.5	ug/L	8020		04/01/1995	2716
Ethylbenzene	ND		0.5	ug/L	8020		04/01/1995	2716
Xylenes (Total)	ND		0.5	ug/L	8020		04/01/1995	2716
SURROGATE RESULTS	--						04/01/1995	2716
Bromofluorobenzene (SURR)	75			% Rec.	5030		04/01/1995	2716

* : Sample was analyzed after the method specified holding time.
This data should be considered a minimum concentration.

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

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Ref: Mark Borsuk 1432 Harrison Street, Oakland, CA/950313-J1

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Analyst Initials	Run Number
	Standard Amount	Standard Amount	Standard Amount				
	% Recovery	Found	Expected				
TPH (Gas/BTXE,Liquid)							
as Gasoline	102.0	1.02	1.00	mg/L	03/27/1995	aal	2694
Benzene	108.0	5.40	5.00	ug/L	03/27/1995	aal	2694
Toluene	112.0	5.60	5.00	ug/L	03/27/1995	aal	2694
Ethylbenzene	109.4	5.47	5.00	ug/L	03/27/1995	aal	2694
Xylenes (Total)	112.7	16.9	15.0	ug/L	03/27/1995	aal	2694
Bromofluorobenzene (SURR)	101.0	101	100	% Rec.	03/27/1995	aal	2694
TPH (Gas/BTXE,Liquid)							
as Gasoline	99.0	0.99	1.00	mg/L	04/01/1995	lss	2716
Benzene	96.6	4.83	5.00	ug/L	04/01/1995	lss	2716
Toluene	94.8	4.74	5.00	ug/L	04/01/1995	lss	2716
Ethylbenzene	94.2	4.71	5.00	ug/L	04/01/1995	lss	2716
Xylenes (Total)	99.3	14.9	15.0	ug/L	04/01/1995	lss	2716
Bromofluorobenzene (SURR)	101.0	101	100	% Rec.	04/01/1995	lss	2716
TPH (Gas/BTXE,Liquid)							
as Gasoline	111.0	1.11	1.00	mg/L	04/05/1995	pbg	2725
Benzene	106.2	5.31	5.00	ug/L	04/05/1995	pbg	2725
Toluene	110.2	5.51	5.00	ug/L	04/05/1995	pbg	2725
Ethylbenzene	109.8	5.49	5.00	ug/L	04/05/1995	pbg	2725
Xylenes (Total)	107.0	16.05	15.0	ug/L	04/05/1995	pbg	2725
Bromofluorobenzene (SURR)	94.0	94	100	% Rec.	04/05/1995	pbg	2725
METHOD M8015 (EXT., Liquid)							
as Motor Oil	104.0	1040	1000	mg/L	03/22/1995	tts	950

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



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Ref: Mark Borsuk 1432 Harrison Street, Oakland, CA/950313-J1

METHOD BLANK REPORT

Parameter	Method			Date	Analyst	Run
	Blank	Reporting				
	Amount	Limit	Units	Analyzed	Initials	Batch
	Found					Number
TPH (Gas/BTXE, Liquid)						
as Gasoline	ND	0.05	mg/L	03/27/1995	aal	2694
Benzene	ND	0.5	ug/L	03/27/1995	aal	2694
Toluene	ND	0.5	ug/L	03/27/1995	aal	2694
Ethylbenzene	ND	0.5	ug/L	03/27/1995	aal	2694
Xylenes (Total)	ND	0.5	ug/L	03/27/1995	aal	2694
Bromofluorobenzene (SURR)	89		% Rec.	03/27/1995	aal	2694
TPH (Gas/BTXE, Liquid)						
as Gasoline	ND	0.05	mg/L	04/01/1995	lss	2716
Benzene	ND	0.5	ug/L	04/01/1995	lss	2716
Toluene	ND	0.5	ug/L	04/01/1995	lss	2716
Ethylbenzene	ND	0.5	ug/L	04/01/1995	lss	2716
Xylenes (Total)	ND	0.5	ug/L	04/01/1995	lss	2716
Bromofluorobenzene (SURR)	100		% Rec.	04/01/1995	lss	2716
TPH (Gas/BTXE, Liquid)						
as Gasoline	ND	0.05	mg/L	04/05/1995	pbg	2725
Benzene	ND	0.5	ug/L	04/05/1995	pbg	2725
Toluene	ND	0.5	ug/L	04/05/1995	pbg	2725
Ethylbenzene	ND	0.5	ug/L	04/05/1995	pbg	2725
Xylenes (Total)	ND	0.5	ug/L	04/05/1995	pbg	2725
Bromofluorobenzene (SURR)	84		% Rec.	04/05/1995	pbg	2725
METHOD M8015 (EXT., Liquid)						
as Motor Oil	ND	0.5	mg/L	03/22/1995	tts	950

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



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Date: 04/07/1995
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Ref: Mark Borsuk 1432 Harrison Street, Oakland, CA/950313-J1

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike			Units	Date Analyzed	Run Batch	Sample Spiked
	Matrix Spike % Rec.	Spike Dup % Rec.	RPD			Matrix Spike Conc.	Spike Dup Conc.					
TPH (Gas/BTXE,Liquid)												238254
as Gasoline	95.0	99.0	4.1	1.00	ND	0.95	0.99	mg/L	03/27/1995	2694		238254
Benzene	86.1	88.4	2.6	17.3	ND	14.9	15.3	ug/L	03/27/1995	2694		238254
Toluene	89.9	91.6	1.9	87.8	ND	78.9	80.4	ug/L	03/27/1995	2694		238254
TPH (Gas/BTXE,Liquid)												238485
as Gasoline	99.0	89.0	10.6	1.00	ND	0.99	0.89	mg/L	04/01/1995	2716		238485
Benzene	99.4	95.6	3.9	15.9	ND	15.8	15.2	ug/L	04/01/1995	2716		238485
Toluene	102.6	98.1	4.4	53.9	ND	55.3	52.9	ug/L	04/01/1995	2716		238485
TPH (Gas/BTXE,Liquid)												238794
as Gasoline	111.0	111.0	0.0	1.00	0.12	1.23	1.23	mg/L	04/05/1995	2725		238794
Benzene	115.2	109.0	5.5	17.8	6.0	26.5	25.4	ug/L	04/05/1995	2725		238794
Toluene	112.7	110.0	2.4	60.0	0.7	68.3	66.7	ug/L	04/05/1995	2725		238794

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



KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [Value 1 - Value 2]}/\text{mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.