Epigene International
CONSULTING GEOLOGISTS

July 22, 1994

Mr. James Brinker
Bernabe and Brinker, Inc.
1281 30th Street
Oakland, CA 94608

Subject: Quarterly Monitoring Report for Site Located at 2301 East 12th Street, Oakland, Second Quarter 1994

Dear Mr. Brinker;

The purpose of this report is to provide data regarding the results of investigations that have been carried out at the subject site during the second quarter. The site is located at the southwest corner of the intersection of East 12th Street and 23rd Ave. in Oakland. The location of the site is shown on Figure 1.

The pump test of EW-1 was completed in June and the results are included in a separate report. The pump test completes the tasks included in the Workplan for the additional characterization of the site initiated in the first quarter of the year.

The former tenant at the site, Alejo Auto Repair Shop vacated the property in June.

GROUNDWATER GRADIENT

The relative elevation for the top of casing for each of the wells was established using a spirit level. Measurements were made to hundredths of a foot at a spot marked on the north side of each casing. An assumed elevation of 10 feet for the top of casing of MW-1 was used for the elevation control. There are no reported City of Oakland benchmarks in the vicinity of the site.

Gauging of the depth to groundwater was carried out for each well on June 24, 1994 prior to any pumping of the wells. An electronic probe was used to measure the depth to groundwater from the surveyed mark on the top of the casing. The probe is calibrated to hundredths of a foot. The relative groundwater elevations were calculated and are presented in Table 1. Groundwater elevation contours are plotted on Figure 3. The groundwater elevation for MW-2 (one of the existing wells) continues to be anomalous, which may explain the somewhat inconsistent gradients previously calculated using the three existing wells.

In addition to the contouring, a direction and slope of the gradient was also calculated by a graphical solution to a three-point problem based on the groundwater elevations of MW-1, MW-5 and MW-6. The results of this calculation are plotted on Figure 3. The direction of the gradient is north-northwest and generally consistent with the contouring.

GROUNDWATER SAMPLING

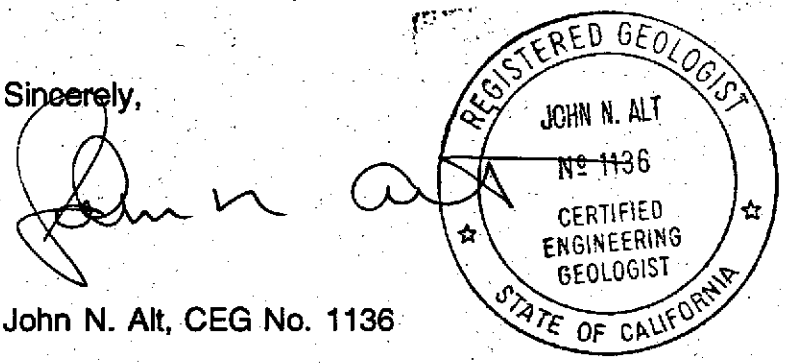
Groundwater samples were collected on June 24 from all of the project wells. The wells were purged prior to sampling by bailing or pumping with a purge pump. Purge water was placed in 55 gallon drums and left on the site. The samples were collected using a dedicated bailer for each well. The samples were placed in appropriate sample containers provided by the laboratory. After labeling each sample, it was placed in a cooled ice chest and transferred to a State certified laboratory under chain-of-custody control.

The requested analysis for each sample was based on the original Workplan and Amendment and the results of the past quarter sampling. The results of the water samples are summarized in Tables 2 (hydrocarbons) and 3 (volatile halocarbons). In addition to the tabulated data, LUFT metals were run for the samples from MW-2 and EW-1. The results indicated all ND except for 0.14 ppm of Nickel in EW-1. The Certified

Laboratory Report and chain-of custody documentation is included in Appendix A.

Should you have any questions, please contact the undersigned.

Sincerely,



John N. Alt, CEG No. 1136

Attachments

cc: Mr. Barney Chan, Alameda County Dept. of Environmental Health
Mr. Rich Hiett, RWQCB
Mr. Robert Shapiro, Esq.

TABLE 1 - Groundwater Elevations; 2301 East 12th Street, Oakland; June 24, 1994

Well Number	Elevation Top of Casing (ft)*	Depth to Water (ft)	Groundwater Elevation (ft)
MW-1	10.00	8.22	1.78
MW-2	8.22	7.70	0.52
MW-3	8.71	7.21	1.50
MW-4	8.46	7.53	0.93
MW-5	8.48	7.83	0.65
MW-6	9.05	7.22	1.83
EW-1	8.63	7.46	1.17

* Based on assummed elevation of 10.00 feet for MW-1

Table 2 - Summary of Groundwater Sample Analysis; 2301 East 12th Street, Oakland; June 24, 1994
Results Presented in Parts Per Billion (PPB)

Analysis	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	EW-1
TPH Diesel	1500	3000	1500	420	950	660	1200
TPH Gas	9000	15000	8400	2300	6100	8000	4600
Benzene	2300	2000	230	2.9	220	1200	410
Toluene	44	72	13	1.6	12	21	5.6
Ethylben.	260	550	93	2.8	38	210	78
Xylenes	170	520	7.6	4.6	24	54	22
O&G 418.1	NA	7900	NA	NA	NA	NA	NA

Note: NA is not analyzed; see Appendix A for Certified Laboratory Report

Table 3 - Results of Volatile Halocarbon Analysis (EPA 8010), June 24,1994

Volatile Halocarbons EPA method 601 or 8010				
Lab ID	36508	36509	36510	36511
Client ID	MW-2	MW-3	MW-5	EW-1
Matrix	W	W	W	W
Compound[1]	Concentration*	Concentration*	Concentration*	Concentration*
Bromodichloromethane	ND< 5	ND	ND	ND
Bromoform[2]	ND< 5	ND	ND	ND
Bromomethane	ND< 5	ND	ND	ND
Carbon Tetrachloride[3]	ND< 5	ND	ND	ND
Chlorobenzene	6.5	ND	0.53	ND
Chloroethane	ND< 5	ND	ND	ND
2-Chloroethyl Vinyl Ether[4]	ND< 5	ND	ND	ND
Chloroform[5]	ND< 5	ND	ND	ND
Chloromethane	ND< 5	ND	ND	ND
Dibromochloromethane	ND< 5	ND	ND	ND
1,2-Dichlorobenzene	ND< 5	ND	ND	ND
1,3-Dichlorobenzene	ND< 5	ND	ND	ND
1,4-Dichlorobenzene	ND< 5	ND	ND	ND
1,1-Dichloroethane	ND< 5	ND	ND	ND
1,2-Dichloroethane	ND< 5	ND	ND	1.3
1,1-Dichloroethene	ND< 5	ND	ND	ND
cis 1,2-Dichloroethene	ND< 5	6.0	11	42
trans 1,2-Dichloroethene	ND< 5	1.5	3.1	11
1,2-Dichloropropane	ND< 5	ND	ND	ND
cis 1,3-Dichloropropene	ND< 5	ND	ND	ND
trans 1,3-Dichloropropene	ND< 5	ND	ND	ND
Methylene Chloride[6]	ND< 5	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND< 5	ND	ND	ND
Tetrachloroethene[7]	ND< 5	ND	ND	ND
1,1,1-Trichloroethane	ND< 5	ND	ND	ND
1,1,2-Trichloroethane	ND< 5	ND	ND	ND
Trichloroethene	ND< 5	ND	ND	68
Trichlorofluoromethane	ND< 5	ND	ND	ND
Vinyl Chloride[8]	ND< 5	ND	7.5	3.2
% Recovery Surrogate	101	119	111	101
Comments	high TPH			

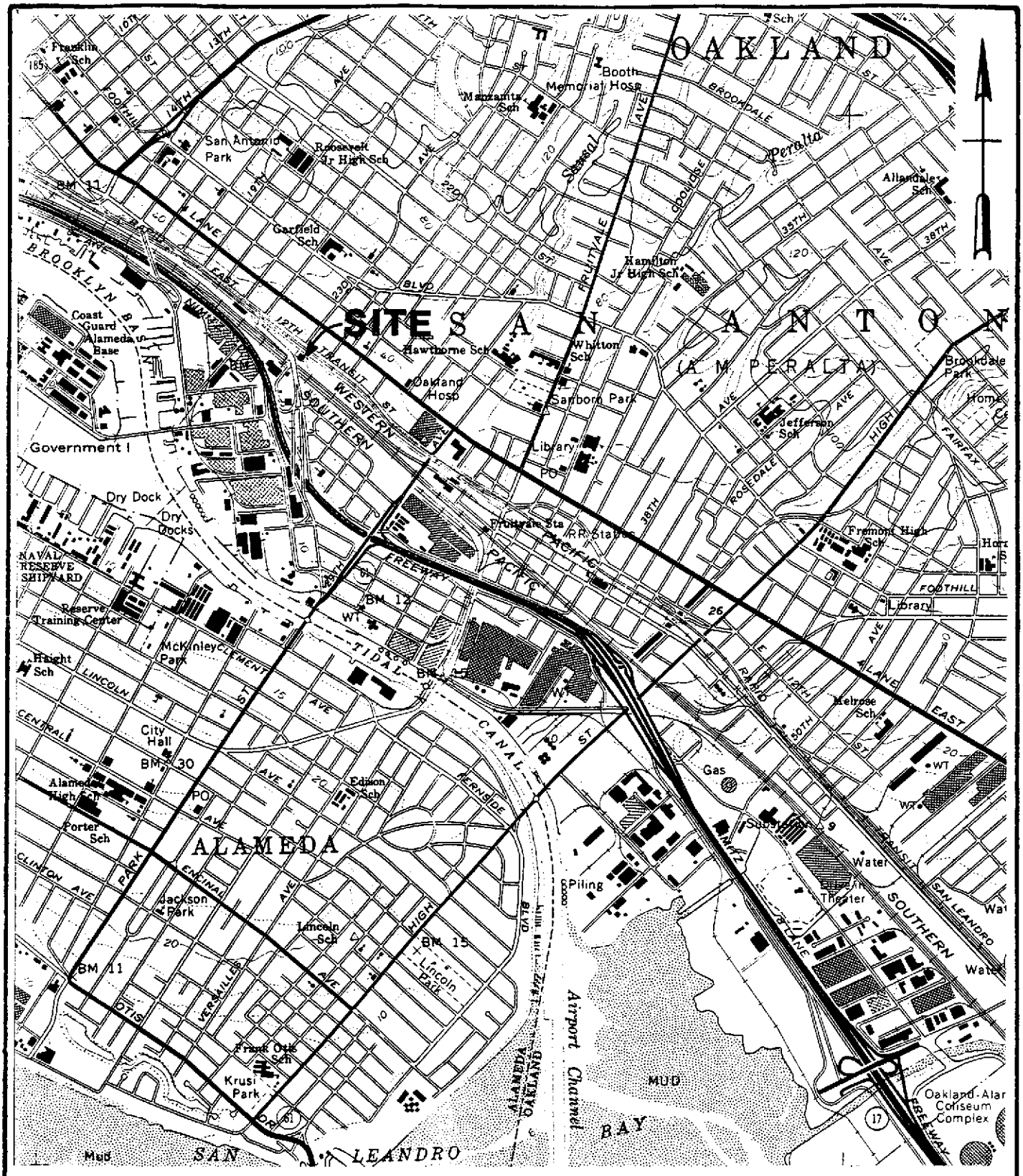
Detection limit unless otherwise stated: water, ND< 0.5ug/L; soil, ND< 10ug/kg.

* water samples are reported in ug/L, soil samples in ug/kg and all TCLP extracts in ug/L

(1) IUPAC allows "ylene" or "ene"; ex. ethylene or ethene; (2) tribromomethane; (3) tetrachloromethane; (4) (2-chloroethoxy) ethene; (5) trichlormethane; (6) dichloromethane; (7) perchlorethylene, PCE or perclor; (8) chloroethene; (9) unidentified peak(s) present.

DHS Certification No. 1644

Edward Hamilton, Lab Director

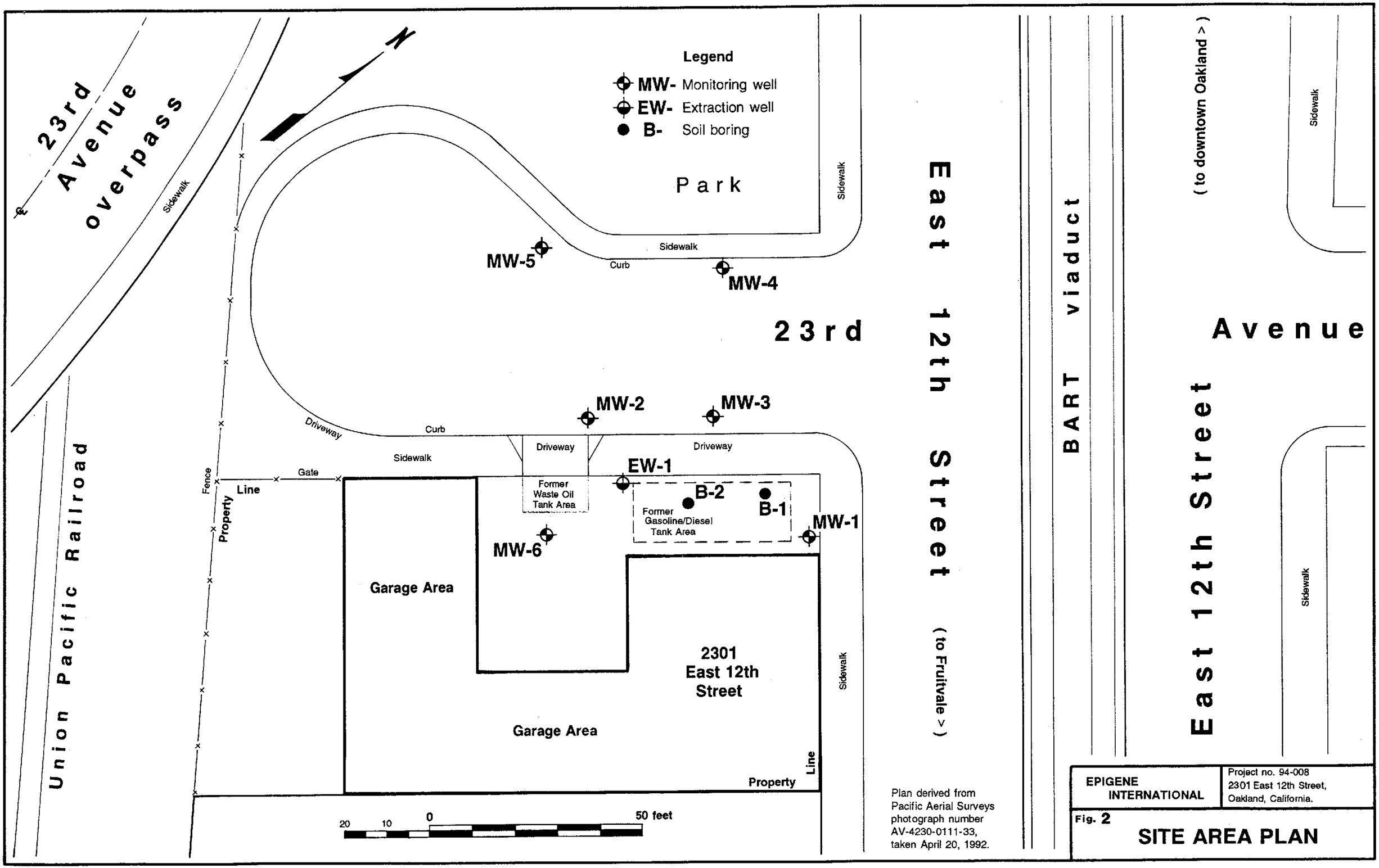


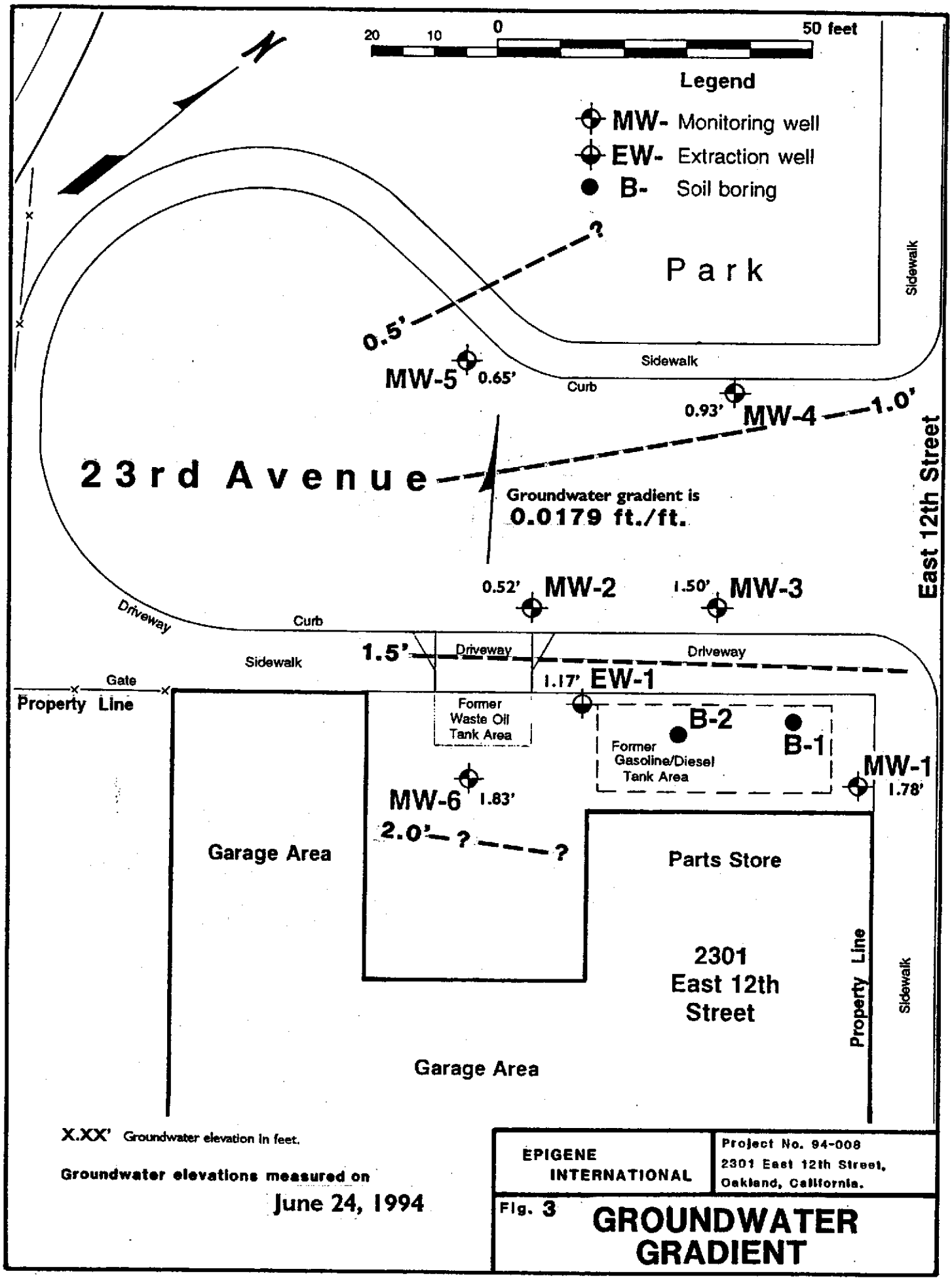
Base map from U.S.G.S. 7 1/2' series
Oakland East quadrangle, 1980.

EPIGENE INTERNATIONAL	East 12th Street, Oakland, California.

Fig. 1

SITE LOCATION MAP


Legend
MW- Monitoring well
EW- Extraction well
B- Soil boring
23rd Avenue overpass
Sidewalk
Park
Sidewalk
Curb
MW-5
MW-4
23rd
East 12th Street (to Fruitvale >)
(to downtown Oakland >)
Sidewalk
Avenue
East 12th Street
BART viaduct
MW-2
MW-3
Driveway
Curb
Sidewalk
Driveway
Driveway
EW-1
Gate
Fence
Line
Property
Former Waste Oil Tank Area
B-2
B-1
Former Gasoline/Diesel Tank Area
MW-1
MW-6
Garage Area
2301 East 12th Street
Sidewalk
Garage Area
Property
Line
Union Pacific Railroad
20 10 0 50 feet
Plan derived from Pacific Aerial Surveys photograph number AV-4230-0111-33, taken April 20, 1992.
EPIGENE INTERNATIONAL
Project no. 94-008
2301 East 12th Street,
Oakland, California.
Fig. 2
SITE AREA PLAN



X.XX' Groundwater elevation in feet.

Groundwater elevations measured on

June 24, 1994

EPIGENE INTERNATIONAL	Project No. 94-008 2301 East 12th Street, Oakland, California.

Fig. 3 **GROUNDWATER GRADIENT**

APPENDIX A

LABORATORY DATA

McCAMPBELL ANALYTICAL INC.	110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

07/05/94

Dear John:

Enclosed are:

1). the results of 7 samples from your **# 94-008; 2301 East 12th St.** project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: # 94-008; 2301 East 12th St.	Date Sampled: 06/24/94
		Date Received: 06/27/94
	Client Contact: John Alt	Date Extracted: 06/27-06/29/94
	Client P.O:	Date Analyzed: 06/27-06/29/94

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	Benzene	Toluene	Ethylben-zene	Xylenes	% Rec. Surrogate
36294	MW-1	W	9000,a	2300	44	260	170	102
36295	MW-2	W	15,000,b,c	2000	72	550	520	108
36296	MW-3	W	8400,b,c	230	13	93	7.6	128#
36297	MW-4	W	2300,d	2.9	1.6	2.8	4.6	89
36298	MW-5	W	6100,c,b	220	12	38	24	124#
36299	MW-6	W	8000,b,c	1200	21	210	54	130#
36300	EW-1	W	4600,b,c	410	5.6	78	22	101
Detection Limit unless other-wise stated; ND means Not Detected		W	50 ug/L	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.005	0.005	0.005	0.005	

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak co-elutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds are significant; no recognizable pattern; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible phase is present.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC. | 110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: # 94-008; 2301 East 12th St.	Date Sampled: 06/24/94
		Date Received: 06/27/94
	Client Contact: John Alt	Date Extracted: 06/27/94
	Client P.O:	Date Analyzed: 06/27/94

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	% Recovery Surrogate
36294	MW-1	W	1500,d	100
36295	MW-2	W	3000,d	99
36296	MW-3	W	1500,d	100
36297	MW-4	W	420,d	99
36298	MW-5	W	950,d	100
36299	MW-6	W	660,d	97
36300	EW-1	W	1200,d	100
Detection Limit unless otherwise stated; ND means Not Detected		W	50 ug/L	
		S	10 mg/kg	

*water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) modified diesel?; light(C_L) or heavy(C_H) diesel compounds are significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel(?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible phase is present.

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 06/27/94 Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
TPH (gas)	0.0	109.1	113.4	100	109.1	113.4	3.8
Benzene	0	10.7	9.9	10	107.0	99.0	7.8
Toluene	0	10.8	10	10	108.0	100.0	7.7
Ethyl Benzene	0	10.5	10.2	10	105.0	102.0	2.9
Xylenes	0	32.1	31.5	30	107.0	105.0	1.9
TPH (diesel)	0	145	146	150	97	97	0.7
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 06/29/94 Matrix: Water

Analyte	Concentration (ug/L)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
TPH (gas)	0.0	112.1	103.0	100	112.1	103.0	8.5
Benzene	0	10.3	9.6	10	103.0	96.0	7.0
Toluene	0	10.2	9.7	10	102.0	97.0	5.0
Ethyl Benzene	0	9.9	10	10	99.0	100.0	1.0
Xylenes	0	29.2	31.6	30	97.3	105.3	7.9
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

2541AEI16

CHAIN OF CUSTODY

Epigene International
CONSULTING GEOLOGISTS
38750 Paseo Padre Parkway, Suite B-4
Fremont, California, 94536
Business: (510) 791-1986 FAX: (510) 791-3306

Laboratory: McCampbell Analytical
110 2nd Ave. South, D-7
Pacheco, CA 94553
(510) 798-1620
Contact: Ed Hamilton

Contact: John Alt | Sampler: JNA/APA/MP
Project Name: 7301 E. 12th St. | No. 94-008
Date: 6/24/94

Sample I.D.	Date/Time Sampled	Matrix Desc.	Container No. of	Container Type	Lab. #	TPH/Gasoline	BTEX	TPH/Diesel	601/8010	602/8020	Comments
1. MW-1	6/24/94	H_2O	2	VOAs		X	X				
2.	"	"	1	1 liter bottle				X			36294
3. MW-2	"	"	2	VOAs		X	X				
4.	"	"	1	1 liter bottle				X			36295
5. MW-3	"	"	2	VOAs		X	X				
6.	"	"	1	1 liter bottle				X			36296
7. MW-4	"	"	2	VOAs		X	X				
8.	"	"	1	1 liter bottle				X			36297
9. MW-5	"	"	2	VOAs		X	X				
10.	"	"	1	1 liter bottle				X			36298

Analyses Requested

Relinquished by: John Alt	Date: 6/27/94	Time: 2:15PM	Received by: J R Hamilton	Date: 6/27/94	Time: 2:15
Relinquished by: J R Hamilton	Date: 6/27/94	Time: 3:35P	Received by: [illegible]	Date: 6/27/94	Time: 15:31
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Turnaround Time: Standard

Additional Comments:

ICE/T: GOOD CONDITION HEAD SPACE ABSENT
PRESERVATIVE APPROPRIATE CONTAINERS

2541AEI16

CHAIN OF CUSTODY

Epigene International
CONSULTING GEOLOGISTS
38750 Paseo Padre Parkway, Suite B-4
Fremont, California, 94536
Business: (510) 791-1986 FAX: (510) 791-3306

Laboratory: McCampbell Analytical

Contact:

Contact: John Alt | Sampler:

Project Name: 2301 E. 12th St. | No.

Date: 6/24/94

Sample I.D.	Date/Time Sampled	Matrix Desc.	Container No. of	Container Type	Lab. #	TPH/Gasoline	BTEX	TPH/Diesel	601/8010	602/8020				Comments
1. MW-6	6/24/94	H2O	2	VOAs		X	X							36299
2.	"	"	1	1 liter bottle				X						
3. EW-1	"	"	2	VOAs		X	X							36300
4.	"	"		1 liter bottle				X						
5.														
6.														
7.														
8.														
9.														
10.														

Analyses Requested

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
John Alt	6/27/94	2:15PM	J R Hamilton	6/27/94	2:15
J R Hamilton	6/27/94	3:35PM	[illegible]	6-27-94	15:31
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Turnaround Time: Standard

ICE: GOOD CONDITION / HEAD SPACE ABSENT

PRESERVATIVE APPROPRIATE / CONTAINERS

Additional Comments:

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

07/13/94

Dear John:

Enclosed are:

1). the results of 4 samples from your # **94-008; 2301 E.12th** St., Oakland project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton

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Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: # 94-008; 2301 E.12th St., Oakland	Date Sampled: 06/24/94
		Date Received: 07/06/94
	Client Contact: John Alt	Date Extracted: 07/08/94
	Client P.O:	Date Analyzed: 07/08/94

Total Recoverable Petroleum Hydrocarbons as Oil & Grease (with Silica Gel Clean-up) by Scanning IR Spectrometry*

EPA method 418.1 or 9073; Standard Methods 5520 C&F

Lab ID	Client ID	Matrix	TRPH+
36508	MW-2	W	7.9,a
Detection Limit unless otherwise stated; ND means Not Detected		W	5 mg/L
		S	50 mg/kg

*water samples are reported in mg/L and soils in mg/kg

+ If TPH(d) is not requested then one positive result is run by direct injection chromatography with FID detection. The following comments pertain to this GC result: a) gasoline-range compounds (C6-C12) present; b) diesel range compounds (C10-C23) present; c) oil-range compounds (> C18) present; d) other patterned solvent(?); e) isolated peaks; f) GC compounds are absent or insignificant relative to TRPH inferring that complex biologically derived molecules (lipids?)are the source of IR absorption.

DHS Certification No. 1644

EH Edward Hamilton, Lab Director

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Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: # 94-008; 2301 E.12th St., Oakland	Date Sampled: 06/24/94
		Date Received: 07/06/94
	Client Contact: John Alt	Date Extracted: 07/07/94
	Client P.O:	Date Analyzed: 07/07/94

Volatile Halocarbons

EPA method 601 or 8010

Lab ID	36508	36509	36510	36511
Client ID	MW-2	MW-3	MW-5	EW-1
Matrix	W	W	W	W
Compound(1)	Concentration*	Concentration*	Concentration*	Concentration*
Bromodichloromethane	ND< 5	ND	ND	ND
Bromoform(2)	ND< 5	ND	ND	ND
Bromomethane	ND< 5	ND	ND	ND
Carbon Tetrachloride(3)	ND< 5	ND	ND	ND
Chlorobenzene	6.5	ND	0.53	ND
Chloroethane	ND< 5	ND	ND	ND
2-Chloroethyl Vinyl Ether(4)	ND< 5	ND	ND	ND
Chloroform (5)	ND< 5	ND	ND	ND
Chloromethane	ND< 5	ND	ND	ND
Dibromochloromethane	ND< 5	ND	ND	ND
1,2-Dichlorobenzene	ND< 5	ND	ND	ND
1,3-Dichlorobenzene	ND< 5	ND	ND	ND
1,4-Dichlorobenzene	ND< 5	ND	ND	ND
1,1-Dichloroethane	ND< 5	ND	ND	ND
1,2-Dichloroethane	ND< 5	ND	ND	1.3
1,1-Dichloroethene	ND< 5	ND	ND	ND
cis 1,2-Dichloroethene	ND< 5	6.0	11	42
trans 1,2-Dichloroethene	ND< 5	1.5	3.1	11
1,2-Dichloropropane	ND< 5	ND	ND	ND
cis 1,3-Dichloropropene	ND< 5	ND	ND	ND
trans 1,3-Dichloropropene	ND< 5	ND	ND	ND
Methylene Chloride(6)	ND< 5	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND< 5	ND	ND	ND
Tetrachloroethene (7)	ND< 5	ND	ND	ND
1,1,1-Trichloroethane	ND< 5	ND	ND	ND
1,1,2-Trichloroethane	ND< 5	ND	ND	ND
Trichloroethene	ND< 5	ND	ND	68
Trichlorofluoromethane	ND< 5	ND	ND	ND
Vinyl Chloride(8)	ND< 5	ND	7.5	3.2
% Recovery Surrogate	101	119	111	101
Comments	high TPH			

Detection limit unless otherwise stated: water, ND< 0.5ug/L; soil, ND< 10ug/kg.

* water samples are reported in ug/L, soil samples in ug/kg and all TCLP extracts in ug/L

(1) IUPAC allows "ylene" or "ene"; ex. ethylene or ethene; (2) tribromomethane; (3) tetrachloromethane; (4) (2-chloroethoxy) ethene; (5) trichlormethane; (6) dichloromethane; (7) perchlorethylene, PCE or percior; (8) chloroethene; (9) unidentified peak(s) present.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Tele: 510-798-1620 Fax: 510-798-1622

Epigene International 38750 Paseo Padre Pkwy, # B4 Fremont, CA 94536	Client Project ID: # 94-008; 2301 E.12th St., Oakland	Date Sampled: 06/24/94
		Date Received: 07/06/94
	Client Contact: John Alt	Date Extracted: 07/11/94
	Client P.O:	Date Analyzed: 07/11/94

LUFT Metals*

EPA analytical methods				239.2,7420+	213.1,7130	218.1,7190	249.1,7520	289.1,7950
Lab ID	Client ID	Matrix	Extraction°	Lead*	Cadmium*	Chromium*	Nickel*	Zinc*
36508	MW-2	W	TTLC	ND	ND	ND	ND	ND
36511	EW-1	W	TTLC	ND	ND	ND	0.14	ND
Detection Limit unless otherwise stated; ND means Not Detected		W	TTLC	0.05mg/L	0.05	0.25	0.10	0.05
		S	TTLC	4.0 mg/kg	1.0	5.0	2.0	1.0
		—	STLC,TCLP	0.20 mg/L	0.05	0.25	0.10	0.05

* soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

+ Lead is analysed using EPA method 7420 (AA Flame)for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

° EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR AA METALS

Date: 07/11/94 Matrix: Water

Analyte	Concentration (mg/L)			Amount	% Recovery		RPD
	Sample	MS	MSD	Spiked	MS	MSD	
Total Lead	0.00	0.99	0.98	1.00	99	98	1.0
Total Cadmium	0.00	1.02	1.01	1.00	102	101	1.0
Total Chromium	0.00	2.98	2.86	3.00	99	95	4.1
Total Nickel	0.00	1.04	1.00	1.00	104	100	3.9
Total Zinc	0.00	3.06	3.00	3.00	102	100	2.0
STLC/TCLP Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

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QC REPORT FOR HYDROCARBON ANALYSES

Date: 07/07-07/08/94 Matrix: Water

Analyte	Concentration (ug/L)			Amount	% Recovery		RPD
	Sample	MS	MSD	Spiked	MS	MSD	
TPH (gas)	0.0	98.6	99.2	100	98.6	99.2	0.6
Benzene	0	10	10.2	10	100.0	102.0	2.0
Toluene	0	9.9	10.2	10	99.0	102.0	3.0
Ethyl Benzene	0	10.2	10.7	10	102.0	107.0	4.8
Xylenes	0	31.2	32.4	30	104.0	108.0	3.8
TPH (diesel)	0	171	170	150	114	114	0.3
TRPH (oil & grease)	0	21900	20400	20800	105	98	7.1

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

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QC REPORT FOR EPA 8010/8020/EDB

Date: 07/07/94 Matrix: Water

Analyte	Concentration (ug/L)				% Recovery		
	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
1,1-DCE	0.0	5.5	5.7	5.0	110	114	3.6
Trichloroethene	0.0	4.9	5.1	5.0	98	102	4.0
EDB	0.0	4.6	4.4	5.0	92	88	4.4
Chlorobenzene	0.0	5.0	5.3	5.0	100	106	5.8
Benzene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobz (PID)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

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CHAIN OF CUSTODY

Epigene International
CONSULTING GEOLOGISTS
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Fremont, California, 94536
Business: (510) 791-1986 FAX: (510) 791-3306

Laboratory: McCampbell Analytical
110 2nd Ave. South, D-7
Pacheco, CA 94553
(510) 798-1620
Contact: Ed Hamilton

Contact: John Alt | Sampler: JNA/APA/MD
Project Name: 2301 E. 12th St., Oakland | No. 94-008
Date: 6/24/94

Sample I.D.	Date/Time Sampled	Matrix Desc.	Container No. of	Container Type	Lab. #	TPH/Gasoline	BTEX	TPH/Diesel	601/8010	602/8020	Oil & Grease	5 metals +			Analyses Requested
1. MW-2	6/24/94 PM	H2O	2	VOAs					X						36508
2. "	"	"	1	liter bottle							X				
3. "	"	"	1	plastic bottle								+			
4. MW-3	"	"	2	VOAs					X						36509
5. MW-5	"	"	"	"					X						36510
6. EW-1	"	"	"	"					X						36510
7. "	"	"	1	plastic bottle								X			36511
8.		ICE/T ✓			PRESERVATIVE	VOAs O&G ✓		METALS ✓	OTHER						
9.		GOOD CONDITION ✓			APPROPRIATE										
10.		HEAD SPACE ABSENT ✓			CONTAINERS ✓										

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
John Alt	7/6/94	1:12 PM	Roy Hamilton	7/6/94	1:12 PM
Roy Hamilton	7/6/94	3:05	Hamid Rivai	7/6/94	3:05
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Turnaround Time: Standard

Additional Comments: * LUFT metals
note: samples maintained in sample refrigerator at Epigene office between the days they were collected and released for analysis

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