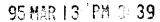
# ENVIRONMENTAL PROTECTION





March 6, 1995

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, First Quarter 1995

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 first 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. A site plan is shown on Figure 2. The former tenant at the site, Alejo Auto Repair Shop vacated the property in June 1994 and the site continues to be vacant.

### **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 February 13, 1995 prior to any purging of the wells. An electronic probe was used to measure the depth to

Quarterly Monitoring Report 2301 East 12th Street, Oakland March 6, 1995 Page 2

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.

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 generally consistent with the groundwater elevation contouring. The direction of the gradient is more northerly than previous calculations. The reason for the change may be related to the heavy rains in January.

#### **GROUNDWATER SAMPLING**

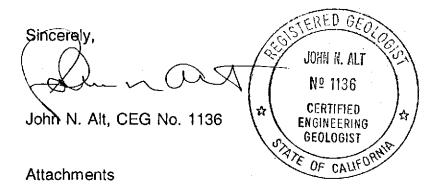
Groundwater samples were collected on February 13/14 from all of the project wells. The wells were purged of approximately five casing volumes prior to sampling by bailing or pumping with a purge pump. Purge water was placed in new 55 gallon drums and left on the site. The samples were collected using a dedicated bailer for each well. The samples were placed in appropriate sample containers provided by the laboratory. After labeling each sample, it was stored 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, amendment and the results of the past quarter sampling and analysis. The results of the water samples are summarized in Table 2 (hydrocarbons) and Table 3 (volatile halocarbons). In addition, LUFT metals were run for the samples from MW-2, MW-3 and EW-1. These results are presented in Table 4. The Certified Laboratory Report and chain-of custody documentation are included in Appendix A. Significant levels of contamination continue to be present in all of the project wells.

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Mr. Barney Chan of Alameda County Department of Environmental Health has requested that a Remedial Action Plan be prepared during this quarter. A proposal was presented ( 1 Salmuted on 6/23/95-1 to you on February 24, 1995 outlining the scope of work required for the preparation of the plan. We await your authorization.

Should you have any questions, please contact the undersigned.



cc: Mr. Barney Chan, Alameda County Dept. of Environmental Health

Mr. Rich Hiett, RWQCB

Mr. Robert Shapiro, Esq.

Ms. Virginia Tracy, Silveira Properties

6/9/95 Con w/ J Alt.

TABLE 1 Groundwater Elevations; 2301 East 12th Street, Oakland February 13, 1995

Well Number	Elevation Top of Casing (ft)*	Groundwater Elevation (ft)	
MW-1	10.00	7.67	2.33
MW-2	8.22	5.31	2.91
MW-3	8.71	6.52	2.19
MW-4	8.46	6.99	1.47
MW-5	8.48	7.40	1.08
MW-6	9.05	5.39	3.66
EW-1	8.63	5.88	2.75
	`		

<sup>\*</sup> Based on assummed elevation of 10.00 feet for MW-1

Table 2 - Summary of Groundwater Sample Analysis TPH and BTEX; 2301 East 12th Street, Oakland February 13/14, 1995
Results Presented in Parts Per Billion(PPB)

Analysis	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	EW-1
TPH Diesel	2500	4900	1600	630	1200	1000	1000
TPH Gas	16000	18000	7500	2600	4600	5500	3900
Benzene	3200	2000	220	_ 100	130	1000	380
Toluene	110	120	17	100	7.9	17	5.9
Ethylben.	460	660	110	3.8	39	210	41
Xylenes	260	900	22	7.1	29	55	22
O&G 418.1	NA	20000	8300	NA	NA	NA	ND

Note: NA indicates Not Analyzed; ND indicated Not Detected within Detection Limits

Table 3 - Summary of Groundwater Sample Analysis, Volatile Halocarbons; 2301 East 12th Street, Oakland February 13, 1995
Results Presented in Parts Per Billion(PPB)

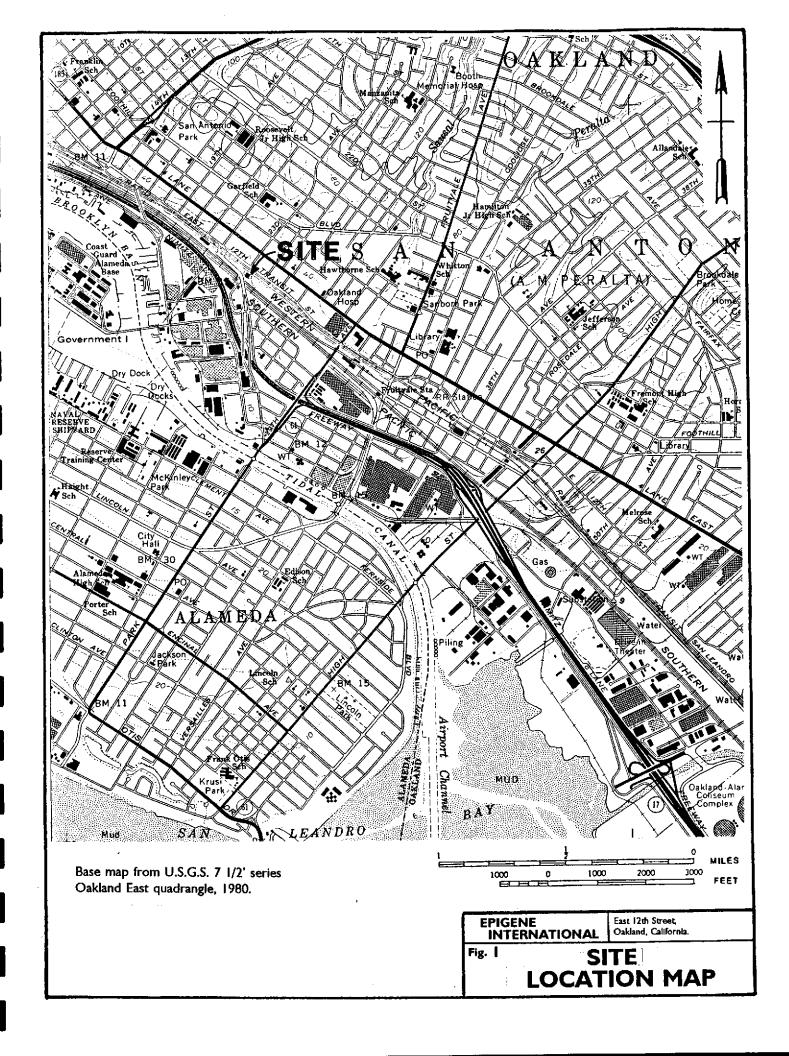
COMPOUND	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	EW-1
Chlorobenzene	ND	12	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND
cis 1,2-Dichloroethene	1.3	ND	4.3	ND	20	40	13
trans 1,2-Dichloroethene	ND	ND	1.3	ND	5.1	13	4.4
t.* 1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	5.1	ND	ND	99 (	53
Vinyl Chloride	ND	ND	ND	ND	8.4	(87)	ND
Detection limits	< 1	< 5	< 0.5	<0.5	< 1	< 5	< 2

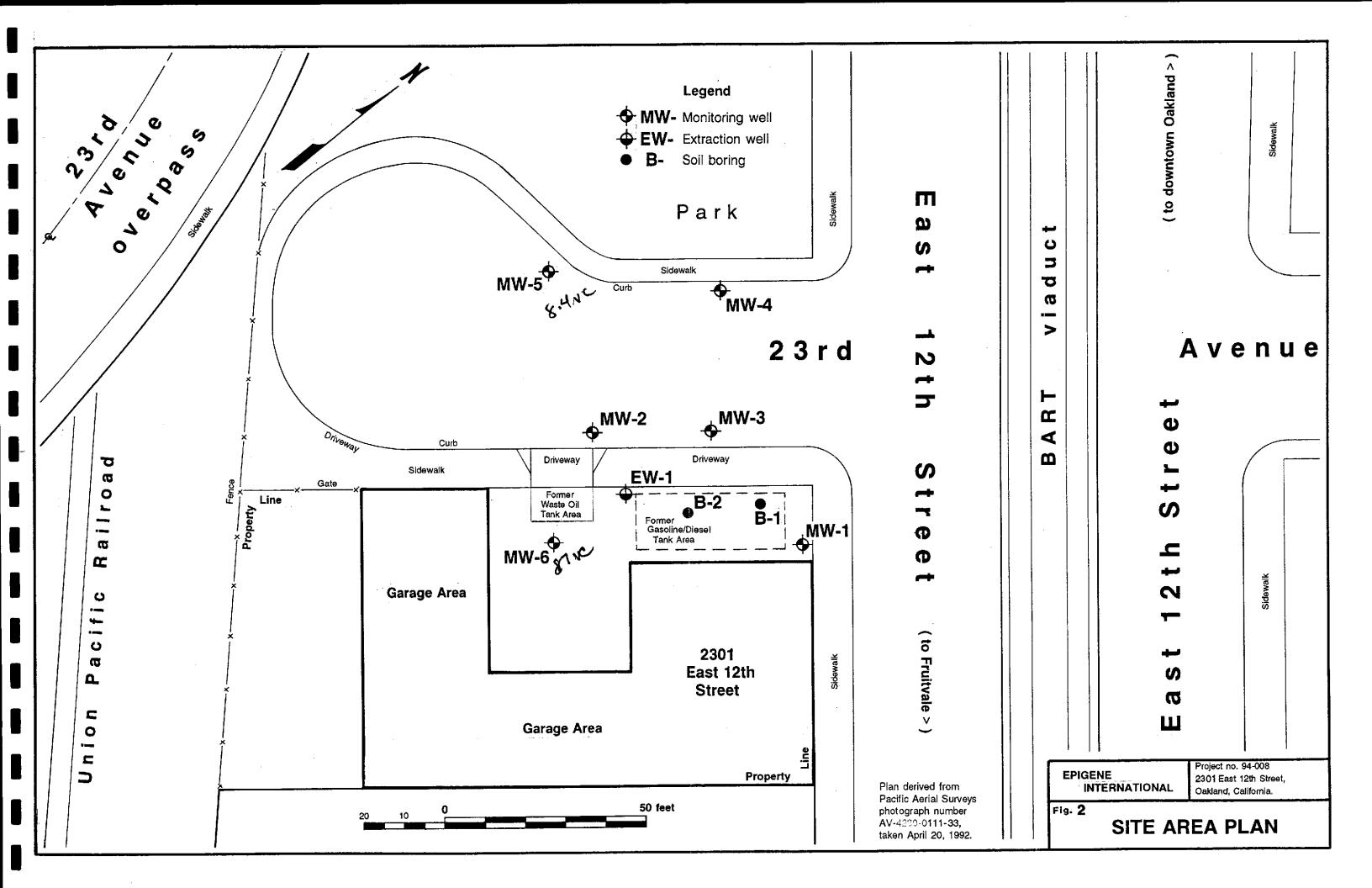
<sup>\*</sup> t. indicates trans; ND indicates Not Detected

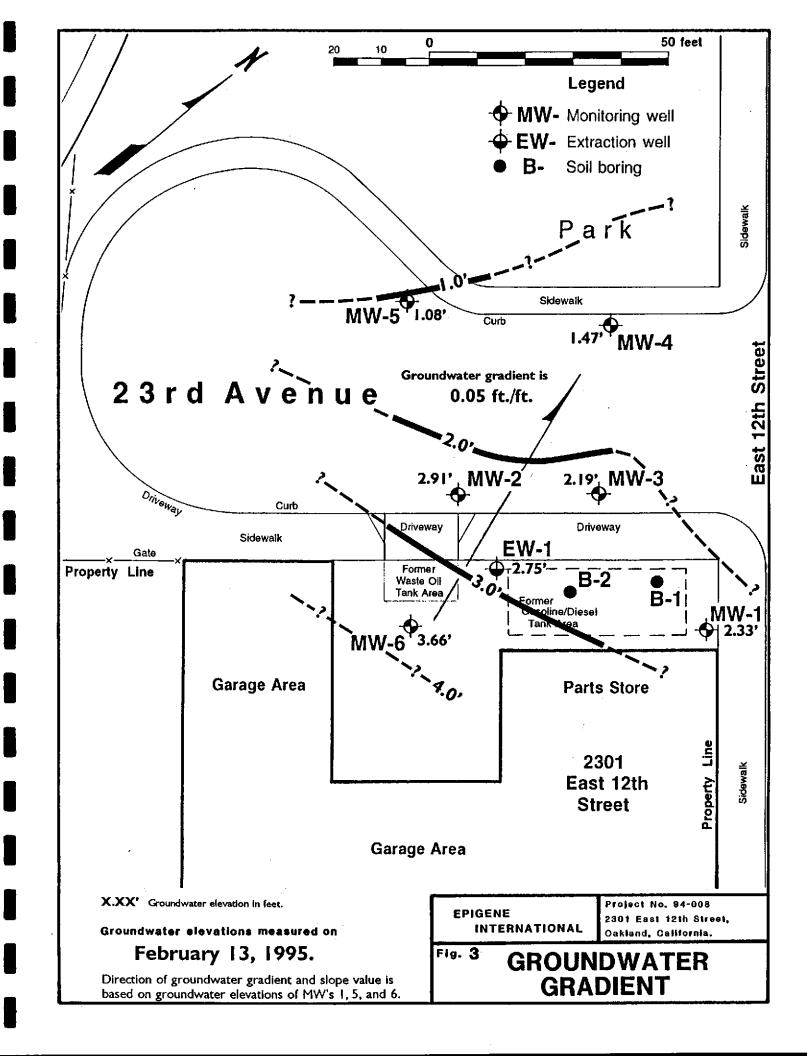
Table 4 - Summary of Groundwater Sample Analysis, LUFT Metals; 2301 East 12th Street, Oakland February 13, 199
Results Presented in Parts Per Million (PPM)

Analysis	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	EW-1
Lead	NA	0.008	ND	NA	NA	NA	ND
Cadmium	NA	ND	ND	NA	NA	NA	ND
Chromium	NA	ND	0.016	NA	NA	NA	0.085
Nickel	NA	0.032	0.053	NA	NA	NA	0.170
Zinc	NA	ND	ND	NA	NA	NA	ND

NA indicates Not Analyzed, ND indicates Not Detected







# APPENDIX A CERTIFIED LABORATORY REPORT

02/24/95

Dear John:

Enclosed are:

- 1). the results of 10 samples from your # 95-008; 2301 E. 12th Street 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** 

Epigene International		1	•	# 95-008; 23	01 E. 12th	Date Sampled: 02/13-02/14/95			
38750 Paseo I	Padre Pkwy, # A11	Stree				Date Receiv	ed: 02/15/95	5	
Fremont, CA	94536	Clien	t Contact: Jol	n Alt	Date Extract	ted: 02/18-0	2/19/95		
		Clien	t P.O:			Date Analyz	ed: 02/18-02	2/19/95	
EPA methods 50	Gasoline Rang 330, modified 8015, and								
Lab ID	Client ID	Matrix		Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate	
50287	EW-1	W	3900,c,d	380	5.9	41	22	106	
50288	MW-1	w	16,000,c,b	3200	110	460	260	105	
50289	MW-2	w	18,000,c,b,h	2000	120	660	900	100	
50290	MW-3	w	7500,d	220	17	110	22	98	
50291	MW-4	w	2600,d	100	100	3.8	7.1	93	
50292	MW-5	W	4600,c,b	130	7.9	38	29	105	
50293	MW-6	w	5500,b,c	1000	17	210	55	114#	

50 ug/L

1.0 mg/kg

W

S

0.5

0.005

0.5

0.005

0.5

0.005

0.5

0.005

Edward Hamilton, Lab Director

Detection Limit unless otherwise stated; ND means Not Detected

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

<sup>#</sup> cluttered chromatogram; sample peak co-elutes with surrogate peak

<sup>&</sup>lt;sup>+</sup> 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 sheen is present.

Epigene Inter	Epigene International		Project ID: # 95-008; 2301 E. 12th	Date Sampled: 02/13-02/14/95		
38750 Paseo I	Padre Pkwy, # A11	Street		Date Received: 02	2/15/95	
Fremont, CA	94536	Client	Contact: John Alt	Date Extracted: 02/16/95		
		Client	P.O:	Date Analyzed: 02	2/16-02/17/95	
EPA mathods m			0-C23) Extractable Hydrocarbons ifornia RWQCB (SF Bay Region) method		(ID/3516)	
				GCI ID(3330) or GCI	% Recovery	
Lab ID	Client ID	Matrix	TPH(d) <sup>+</sup>		Surrogate	
50287	EW-1	w	1000,d	1000,d		
50288	MW-1	w	2500,d		99	
50289	MW-2	w	4900,d,a,h		99	
50290	MW-3	W	1600,d		102	
50291	MW-4	W	630, <b>d</b>	630,d		
50292	MW-5	w	1200,d		100	
50293	MW-6	w	1000,d		101	
			.,			
	imit unless other-	w	50 ug/L			
wise stated Do	; ND means Not etected	s	10 mg/kg			

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

<sup>#</sup> cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline

<sup>&</sup>lt;sup>+</sup> 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<sub>L</sub>) or heavy(c<sub>H</sub>) 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 sheen is present.

		_				
Epigene International		I	roject ID: # 95-008; 2301 E. 12th	Date Sampled: 02/13-02/14/95		
38750 Paseo F	Padre Pkwy, # A11	Street		Date Received: 02/15/95		
Fremont, CA	94536	Client C	ontact: John Alt	Date Extracted: 02/21/95		
		Client P	.0:	Date Analyzed: 02/21/95		
Total Recove	rable Petroleum H	ydrocarbo	ns as Oil & Grease (with Silica (	Gel Clean-up) by Scanning IR Spec-		
EPA method 418	3.1 or 9073; Standard M	ethods 5520 (	trometry* C&F			
Lab ID	Client ID	Matrix	TRPH <sup>+</sup>			
50294	MW-2	w	20			
50295	EW-1	w	ND			
50296	MW-3	w	8.3			
				AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		
			11,			
		-	# 47 · · · · · · · · · · · · · · · · · ·			
			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	imit unless other-	w	5 mg/L	2000-00-00-00-00-00-00-00-00-00-00-00-00		
	wise stated; ND means Not Detected		50 mg/kg			
*water sampl	es are reported in 1	mg/L and s	oils in mg/kg			
† If TPH(d) detection. Th b) diesel ran solvent(?); e) biologically d	is not requested t e following comme ge compounds (CI isolated peaks; f) G erived molecules (I	hen all po nts pertain 0-C23) pr C compou ipids?)are	sitive results are run by direct to these GC results: a) gasoline- esent; c) oil-range compounds ( inds are absent or insignificant rel the source of IR absorption.	injection chromatography with FID range compounds (C6-C12) present; > C18) present; d) other patterned ative to TRPH inferring that complex		

Epigene International	_	Client Project ID: # 95-008; 2301 E. 12th Date Sampled: 02/13-02/14/95				
38750 Paseo Padre Pkwy, # A11	Street		Date Received:	Date Received: 02/15/95		
Fremont, CA 94536	Client Contact: J	ohn Alt	Date Extracted	Date Extracted: 02/16/95		
	Client P.O:		Date Analyzed:	02/16/95		
	Volati	le Halocarbons				
EPA method 601 or 8010  Lab ID	50287	50288	50289	50290		
Client ID	<del></del>	MW-1	MW-2	MW-3		
	EW-1	W W	W	W W		
Matrix (1)	W					
Compound <sup>(1)</sup>	Concentration*	Concentration*	Concentration*	Concentration*		
Bromodichloromethane (2)	ND< 2	ND< 1	ND< 5	ND ND		
Bromoform <sup>(2)</sup>	ND< 2	ND< 1	ND< 5	ND		
Bromomethane (3)	ND< 2	ND< 1	ND< 5	ND		
Carbon Tetrachloride <sup>(3)</sup>	ND< 2	ND< 1	ND< 5	ND ND		
Chlorobenzene	ND< 2	ND< 1	12	ND		
Chloroethane	ND< 2	ND< 1	ND< 5	ND		
2-Chloroethyl Viny l Ether (4)	ND< 2	ND< 1	ND< 5	ND		
Chloroform (5)	ND< 2	ND< 1	ND< 5	ND		
Chloromethane	ND< 2	ND< 1	ND< 5	ND		
Dibromochloromethane	ND< 2	ND< 1	ND< 5	ND		
1,2-Dichlorobenzene	ND< 2	ND< 1	ND< 5	ND		
1,3-Dichlorobenzene	ND< 2	ND< 1	ND< 5	ND		
1,4-Dichlorobenzene	ND< 2	ND< 1	ND< 5	ND		
1,1-Dichloroethane	ND< 2	ND< 1	ND< 5	ND		
1,2-Dichloroethane	ND< 2	ND< 1	ND< 5	ND		
1,1-Dichloroethene	ND< 2	ND< 1	ND< 5	ND		
cis 1,2-Dichloroethene	13	1.3	ND< 5	4.3		
trans 1,2-Dichloroethene	4.4	ND< 1	ND< 5	1.3		
1,2-Dichloropropane	ND< 2	ND< 1	ND< 5	ND		
cis 1,3-Dichloropropene	ND< 2	ND< I	ND< 5	ND		
trans 1,3-Dichloropropene	ND < 2	ND< 1	ND< 5	ND		
Methylene Chloride <sup>(6)</sup>	ND < 2	ND< 1	ND< 5	ND		
1,1,2,2-Tetrachloroethane	ND < 2	ND< I	ND< 5	ND		
Tetrachloroethene (7)	ND < 2	ND<1	ND< 5	ND		
1,1,1-Trichloroethane	ND < 2	ND< 1	ND < 5	ND		
1,1,2-Trichloroethane	ND< 2	ND< 1	ND< 5	ND		
Trichloroethene	53	ND< 1	ND < 5	5.1		
Trichlorofluoromethane	ND< 2	ND< 1	ND< 5	ND		
Vinyl Chloride <sup>(8)</sup>		ND< 1	ND< 5	ND		
	ND< 2			115		
% Recovery Surrogate	108	108	105			
Comments	high TPH	high TPH,sheen	high TPH	high TPH		

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

<sup>•</sup> water samples are reported in ug/L, soil samples in ug/kg and all TCLP extracts in ug/L

<sup>(1)</sup> 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.

Epigene International 38750 Paseo Padre Pkwy, # A11	Street	D: # 95-008; 2301 E. 1	2th Date Sampled: Date Received:	
Fremont, CA 94536	Client Contact: J	John Alt	Date Extracted	: 02/16/95
	Client P.O:		Date Analyzed:	02/16/95
	Volati	le Halocarbons		
EPA method 601 or 8010  Lab ID	50291	50292	50293	1
Client ID	MW-4	MW-5	MW-6	
Matrix	W	W	W	
Compound <sup>(1)</sup>	Concentration*	Concentration*	Concentration*	Concentration*
Bromodichloromethane	ND	ND< 1	ND< 5	Concentration
Bromoform <sup>(2)</sup>	ND ND	ND< 1	ND< 5	
Bromomethane	ND	ND< 1	ND< 5	
Carbon Tetrachloride <sup>(3)</sup>	ND	ND< 1	ND< 5	
Chlorobenzene	ND ND	ND< 1	ND< 5	
Chloroethane	ND	ND<1	ND< 5	
2-Chloroethyl Viny l Ether <sup>(4)</sup>	ND ND	ND< 1	ND< 5	
Chloroform (5)	ND	ND<1	ND< 5	-
Chloromethane	ND ND	ND<1	ND< 5	
Dibromochloromethane	ND	ND< 1	ND< 5	
1,2-Dichlorobenzene	ND ND	ND< 1	ND< 5	
1,3-Dichlorobenzene	ND	ND< 1	ND< 5	
1,4-Dichlorobenzene	ND	ND< 1	ND< 5	
1,1-Dichloroethane	ND ND	ND< 1	ND< 5	
1,2-Dichloroethane	ND ND	ND< 1	ND< 5	<u> </u>
1,1-Dichloroethene	ND	ND< 1	ND< 5	
cis 1,2-Dichloroethene	ND ND	20	40	
trans 1,2-Dichloroethene	ND ND	5.1	13	
1,2-Dichloropropane	ND	ND< 1	ND< 5	
cis 1,3-Dichloropropene	ND ND	ND< 1	ND< 5	
trans 1,3-Dichloropropene	ND ND	ND< 1	ND< 5	
Methylene Chloride <sup>(6)</sup>	ND	ND< 1	ND < 5	
1,1,2,2-Tetrachloroethane	ND ND	ND< 1	ND< 5	
Tetrachloroethene (7)	ND	ND< 1	ND< 5	
1,1,1-Trichloroethane	ND ND	ND< 2	ND< 5	
1,1,2-Trichloroethane	ND ND	ND< 1	ND < 5	
Trichloroethene	ND ND	ND< 1	99	<u> </u>
Trichlorofluoromethane	ND ND	ND< 1	ND< 5	
Vinyl Chloride <sup>(8)</sup>	ND ND	8.4	87	·
% Recovery Surrogate	104	115	97	
		high TPH	****	
Comments	high TPH	TUKU TEU	high TPH	I

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

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

<sup>(1)</sup> 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.

Epigene Inter	rnational		Client Project ID; # 95-008; 2301 E. 12th Date Sampled: 02/13-02/14/95							
38750 Paseo I	Padre Pkwy, # A11	Street			Date	Received: 02	/15/95			
Fremont, CA	94536	Client	Contact: John	Alt	Date	Extracted: 02	2/16/95			
		Client	P.O:		Date	Analyzed: 02	/16-02/17	1/95		
			LUFT N	Aetals*						
	, , , , , , , , , , , , , , , , , , , ,	EPA analyt	tical methods	239.2,7420	213.1,7130	218.1,7190	249.1,7520	289.1,7950		
Lab ID	Client ID	Matrix	Extraction <sup>o</sup>	Lead	Cadmium	Chromium*	Nickel	Zinc*		
50287	EW-1	w	TTLC	ND	ND	0,085	0.17	ND		
50289	MW-2	w	TTLC	0.008	ND	ND	0.032	ND		
50290	MW-3	w	TTLC	ND	ND	0.016	0.053	ND		
								-		
	nit unless otherwise	w	TTLC	0.005mg/L	0.01	0.005	0.02	0.05		
stated; ND m	neans Not Detected	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		

<sup>\*</sup> 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

<sup>&</sup>lt;sup>o</sup> EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title

## QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/16-02/17/95 Matrix: Water/TCLP

	Concent	Concentration (ug/L)			% Recovery		
Analyte	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas)	0.0	94.4	96.8	100	94.4	96.8	2.6
Benzene	0	10.5	9.7	10	105.0		7.9
Toluene	0	11	10	10	110.0	100.0	9.5
Ethyl Benzene	0	10.3	9.8	10	103.0	98.0	5.0
Xylenes	0	31.8	30.1	30	106.0	100.3	5.5
TPH (diesel)	0	162	172	150	108	115	6.0
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

#### QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/18-02/19/95

Matrix: Water

	Concentration (ug/L)				% Reco		
Analyte	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas)	0.0	104.6	93.5	100	104.6	93.5	11.2
Benzene	0	9.4	9.3	10	94.0	93.0	1.1
Toluene	0	9.7	9.5	10	97.0	95.0	2.1
Ethyl Benzene	0	9.9	9.7	10	99.0	97.0	2.0
Xylenes	0	30.5	30	30	101.7	100.0	1.7
TPH (diesel)	o	156	160	150	104	107	2.1
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

# QC REPORT FOR HYDROCARBON ANALYSES

Date: 02/21-02/22/95 Matrix: Water

·	Concent	ration	(ug/L)		very	<u> </u>	
Analyte	Sample MS		MSD	Amount Spiked	MS	MSD	RPD
TPH (gas)	0.0	95.6	93.0	100	95.6	93.0	2.8
Benzene	0	8.8	9.7	10	88.0	97.0	9.7
Toluene	0	9.2	9.9	10	92.0	99.0	7.3
Ethyl Benzene	0	9.2	10	10	92.0	100.0	8.3
Xylenes	0	28.5	31.1	30	95.0	103.7	8.7
TPH (diesel)	0	154	149	150	103	99	3.4
TRPH (oil & grease)	o	23100	23400	23700	97	99	1.3

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

## QC REPORT FOR EPA 8010/8020/EDB

Date: 02/16/95

Matrix: Water

	Conce	entrati	% Reco				
Analyte	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
1,1-DCE	0.0	11.1	11.2	10.0	111	112	0.9
Trichloroethene	0.0	9.5	9.6	10.0	95	96	1.0
EDB	0.0	9.6	9.5	10.0	96	95	1.0
Chlorobenzene	0.0	10.3	10.2	10.0	103	102	1.0
Benzene	0.0	10.7	11.1	10.0	107	111	3.7
Toluene	0.0	10.2	9.6	10.0	102	96	6.1
Chlorobz (PID)	0.0	9.9	9.6	10.0	99	96	3.1

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

#### QC REPORT FOR AA METALS

Date: 02/17/95

Matrix: Water

	Concent	ration	(mg/L)		% Reco		
Analyte	Sample MS		MSD	Amount	MS	MSD	RPD
Total Lead	0.00	5.26	5.15	5.00	105	103	2.1
Total Cadmium Total Chromium	0.00	5.20 5.29	5.10 5.18	5.00	104	102	1.9
Total Nickel	0.00	5.29	5.19	5.00 5.00	106 105	104 104	2.1 1.3
Total Zinc	0.00	5.22	5.10	5.00	104	102	2.3
STLC 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

# CHAIN OF CUSTODY

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# Epigene International

CONSULTING GEOLOGISTS

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

rea heco (A. 94553						Contact: John Alt								Sampler: APA/MD		
(510) 798-1620						Project Name: 2301 8.12th Street								No.	95-008	
contact: 82 Hamilton							Date: 2/13/95 : 2/14/95									
VOAS   D.G. A. PRESERVATIVE   D.G. APPROPRIATE   D.							er cii				A	naly	• • • R •	equest	• d	<del></del>
Sample I.D.		ate/Time	Matrix Desc.		ainer	Lab. +	/ 2	HIGH	*/ <sub>4</sub>	SKIN 6	07/6	2/4	CNA	//	//	Comments
1-EW-1	J,	3/0/2	H-0	4	VOAS		X	X		X						F000F
2.		רורו	11	1	liter bottle				X						Ti i	50287
3.		דורו	11	1	plastic							X				
4. MW-1		1336	H, 0	4	VOAS		×	×		×						FOOR
5.		1336	) ]	1	liter bottk				X							5023 <b>8</b>
5-MW-3		1457	H2 0	4	240		×	×		×						50289
7.		1657	11	1	liter bottle				×			Ħ				90203 I
8.		1657	11	1	plastic bottle				•			X				
9.MW-3		1512	H20	4	VOAS		×	×		X						50290
10.	V	4512	. 11	1	liter		囊	*	X	•					_	
Relinquished	b y ŧ	77		Date:	2/15/9	rime:Z:55	Rec	eived	by:	Bob	Jor	reis	n	Date	· 415l95	Time: 2:55
				Time: / 800								ate: 2/15/15 Time: 18:0				
, , , , , , , , , , , , , , , , , , ,			Time:	1. // // // // // // // // // // // // //							Date: Time:					
Turnaround Ti	me	: Stand	and	<del></del>			-							-		
Additional A	Additional Note: All VOAS contain HClas a preservative															