

October 10, 1994

Mr. Barney Chan Alameda County Department of Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502

Subject:

Results of Sampling and Analysis for Soil Samples Collected During the

Removal of Two Tanks and Two Hydraulic Lifts; 2417 Broadway, Oakland

Dear Mr. Chan;

The subject site is located at the northwest corner of the intersection of Broadway and 24th Street in Oakland. The general location is shown on Figure 1, which is modified from the Oakland West U. S. Geological Survey 7.5 Min. Quadrangle. The site is covered with an existing warehouse-type building with office/commercial space in the portion of the building that fronts on Broadway. The building is presently vacant. It is my understanding that the site had been used for an automobile dealership at some point in the past.

TANK REMOVAL

Two underground storage tanks were removed from the sidewalk area of 24th Street adjacent to the building on July 28, 1994. Two hydraulic lift cylinders were removed from inside the building on the same date. A site area plan showing the relative locations of the tanks and hydraulic lifts is shown on Figure 2. A more detailed plan of the portion of the site that includes the tanks and lifts is shown on Figure 3.

Prior to the removal of the tanks, a combined total of approximately 500 gallons of liquid

was pumped from the two tanks by a vacuum truck. The liquid was taken by Erickson under manifest to Gibson Oil in Redwood City. A copy of the manifest is included in Appendix A. The tanks were then rendered inert using dry ice to displace the petroleum vapors.

Tank number 1 was a steel waste oil tank, approximately 295 gallons in size. The tank was encased within a concrete vault that measured 7.5 ft. by 3 ft. in plan and was 7 ft. deep. The concrete floor of the vault is 6 in. thick. There were no obvious holes in the tank, however, the soil surrounding the tank in the vault was contaminated. The soil was removed and stockpiled inside the building (see Figure 2). A hole was jackhammered through the base of the vault and a sample was collected from native soil approximately 6 inches below the concrete (at a total depth of approximately 8 ft.). The vault was subsequently backfilled with gravel and the sidewalk repaved with concrete.

Tank number 2 was a steel tank reported to have been used for the storage of leaded gasoline. The tank was approximately 575 gallons in size. Upon removal, the tank was observed to be in relatively poor condition with numerous corrosion pits and holes up to 4 in. in size. The base of the tank was at a depth of approximately 8 ft. The soil below the tank was contaminated and contaminat approximately 11 to 12 feet. Groundwater was observed to be entering the base of the excavation at this depth. It was not possible to excavate any further in a north-south direction without undermining the building to the north and the street to the south. Four soil samples were collected from the sidewalls at depths of 8.5 to 10 ft. in the excavation. The approximate depth of each sample is listed in Table 1. The sample locations are shown on Figure 3.

The spoil from the tank removal and overexcavation were combined with the spoil from Tank 1 and stored on and under plastic sheeting inside the building (see Figure 2). The

excavation was backfilled with gravel and the sidewalk repaved with concrete.

The tanks were transported under manifest by Erickson to their facility in Richmond. A copy of the manifest is included in Appendix A.

SAMPLE ANALYSIS

The soil sample from Tank 1 was collected by driving a brass tube into native soil brown silty clay) approximately 6 in. below the base of the concrete vault. The samples from Tank 2 were collected by driving a brass tube into soil brought to the surface by the backhoe from the selected locations (see Figure 3). All samples were sealed, labeled and placed in a chilled ice chest and transported to a State Certified Laboratory for the requested analysis.

The analysis for the sample from Tank 1 (the waste oil tank) included the following: TPH as diesel, TPH as gasoline, BTEX, Total Oil and Grease (418.1) volatile halocarbons (EPA 8010), semi-volatile organics (EPA 8270), and TTLC of the five LUFT metals (lead, cadmium, chromium, nickel, zinc) plus copper. The results of the TPH and BTEX analysis are summarized in Table 1. The others are summarized below.

۲٫۴۰۱ Total Oil and Grease

3900 PPM

EPA 8010 (only compounds found are listed)

1,2-Dichlorobenzine

50 PPB

1.4-Dichlorobenzine

10 PPB /

EPA 8270

all ND

J

* 570 tPH-d 910 tVH-9 ND benzene

LUFT Metals (TTLC)

Lead
Cadmium
Chromium

Nickel Zinc

Copper

5 PPM, / 5.

ND 28 PPM

21 PPM / 20

25 PPM / 250

23 PPM / 25

The Certified Laboratory Report and the Chain of Custody documentation is presented in Appendix B.

The samples from Tank 2 were analyzed for TPH as gasoline, BTEX, and Total Lead (TTLC). The results of these analysis are summarized in Table 1. The samples identified as Tank 2 east and SW were first sent for analysis and based on the results of these analysis, the other two samples were sent. The Certified Laboratory Report for these data are also included in Appendix B.

HYDRAULIC LIFT SAMPLING

Soil samples were collected from the base of the rams for the hydraulic lifts on July 29, 1994. Because of sluffing into the pits, it was necessary to use a hand auger to collect samples from the native soil. The pits are identified as the north pit and the south pit. The locations are shown on Figure 3. The soil samples were analyzed for TPH as hydraulic oil. The results are shown on Table 1. The Certified Laboratory Report and Chain of Custody documentation is included in Appendix B.

SPOIL PILE SAMPLING AND ANALYSIS

The spoil pile which included soil from the excavation and overexcavation of the two tanks and the hydraulic lifts was sampled on August 5, 1994. A sample was collected from each quadrant of the pile and composited by the laboratory into one sample. The composite sample was analyzed for THP as gasoline, TPH as diesel and Total Lead. The results of these analysis are summarized in Table 1.

The initial analysis of the composite sample indicated that the lead concentration in the soil was too high for disposal at the BFI Vasco Road Facility, the originally proposed disposal site. The BFI Keller Canyon Facility would accept the spoil based on the results of additional analysis. These included: RCI, volatile organics (EPA 8240), and the TTLC for the 17 CAM Metals. The results of the 8240 analysis and the 17 CAM metals for the composite of the spoil pile are presented in tables 2 and 3 respectively. The Certified Laboratory Report and Chain of Custody documentation is included in Appendix B.

DISPOSITION OF THE SPOIL

Based on the results of the additional analysis, the soil was accepted by the Keller Canyon Facility for disposal. The soil was transported to that facility under a non-hazardous manifest on August 26 and 27, 1994. Copies of the manifests are included in Appendix C.

CONCLUSIONS AND RECOMMENDATIONS

1) Although Tank 1 appeared to be in relatively good condition when if was observed after removal, the analysis of the soil sample from below the vault indicated the presence of contamination. This may have resulted from overfilling of the tank and downward

migration of the contamination through joints in the concrete. The possible impact on groundwater is unknown.

Because of the contamination present below the vault, an UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE / CONTAMINATION SITE REPORT was completed and is included in Appendix D.

- 2) Tank 2 was reported to be used for the storage of leaded gasoline. The tank was observed to be in relatively poor condition and soil contamination was found to continue to the depth of groundwater. It is assumed that groundwater has been impacted. An UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE / CONTAMINATION SITE REPORT was completed and is included in Appendix D.
- 3) There was some contamination present in the soil samples from below the hydraulic lifts.
- 4) At least 3 monitoring wells should be installed on the site to better define the extent of soil contamination and to assess the impact on groundwater and stable installed down gradient of each of the tanks and the third well should be installed inside the building in the area of the hydraulic lifts. Attended to the south side of 24th Street adjacent to the site should be used to help determine the groundwater gradient for the site.

Prior to the installation of the wells, available data for the site area should be compiled and reviewed to help define possible background levels of contamination and regional groundwater gradients. A more detailed Workplan should be prepared to address any additional investigations.

It is a pleasure to provide you with this report. Should you have any questions, please contact the undersigned.

Sincerely,

John N. Alt, CEG No. 1136

JOHN N. ALT

Nº 1136

CERTIFIED
ENGINEEPING
GEOLOGIST

OF CAMEDINA

Attachments

cc: Mr. John Kao, Esq.

Mr. James Brinker

Table 1 - Summary of Results of Sample Analysis in PPM

Sample ID	Depth (FT)	TPH Gas	TPH Diesel	Benzene	Toluene	Ethyl- benzene	Xylene	Total Lead
T-1 Center	8	910	570	ND /	0.76	ND /	4.4	5.0
T-2 East	8.5	1500	NA	7.4	60	32	190	12 -
T-2 South	9	1500	NA	ND /	15	15	15	NA
T-2 S.W.	8.5	450	NA	0.49	1.4	5.9	22	5.8
T-2 North	10	280	NA	0.57	4.3	2.6	12	NA
Stockpile**/_4	-	120 /	51 /	0.16	0.86	0.89	4.9	28
Pit North	8	NA	450* /	NA	NA	NA	NA	NA
Pit South	7	NA	1800* /	NA	NA	NA	NA	NA
		39	660	NO			·-···	

^{*}TPH as hydraulic oil; ** four to one composite; NA is not analyzed, ND is not detected.

Plo: 28 TRPH Alec Pensauther landrada laft

Table 2 - Results of 8240 Analysis for Spoilpile

ANALYTE	RKSULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
ACETONE	47	25	Ņ.D.	
Benzene	42	5.0 5.0	N.D.	129
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	
BROMOFORM	N.D.	5.0	N.D.	~ -
BROMOMETHANE	M.D.	5-0	N.D.	
2-BUTANONE	N.D.	9.000000000000000000000000000000000000	N.D.	
CARBON TETRACHLORIDE	N.D.	5.0	Й.D.	55- /
CHLOROBENZENE	N.D. N.D.	5.0	N.D.	105 /
CHLOROETHANE	N.D.	5.0	Ŋ.D.	/
2-CHLOROBTHYLVINYLETHER	N.D.	5.0	M.D.	/
CHLOROFORM	N.D.	5.0	M.D.	• • 1
CHLOROMETHANE	N.D.	5.0	M.D.	/
DIBROMOCHLOROMETHANE	N.D.	<u>5</u> .0	N.D.	(
1,1-DICHLOROETHANE	N.D.	5.0 5.0 5.0	M.D.	 i
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	55.
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	120
1,2-DICHLOROETHENE (CIS)	N.D.	5,0 5.0	N.D.	
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	:
1,3-DICHLOROPROPENE (CIS)	N.D.	5.0 5.0 120	N.D.	
1,3-DICHLOROPROPENE (TRANS)	N.D.	5.0	N.D.	
ethyl benzene	2600	120	N.D.	
2-HEXANONE	N.D.	5.0	N.D.	~ -
METHYLENE CHLORIDE	N.D.	25	N.D.	~ •
4-METHYL-2-PENTANONE	N.D.	5.0	N.D.	
STYRENE	N.D.	5.0 5.0 5.0	N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	
TETRACHLOROETHENE	N.D.	5.0	N.D.	
TOLUENE	1600	370	N.D.	108
1,1,1-TRICHLOROETHANE	1600 N.D.	5.0	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	7
TRICHLOROSTHENE	N.D.	5.0	N.D.	95
TRICHLOROFLUORCMETHANE	N.D.	55555555555555555555555555555555555555	N.D.	
VINYL ACETATE	N.D.	5.0	Ŋ.D.	
VINYL CHLORIDE	N.D.	5.0	, й -Б.	
XYLENES (TOTAL)	19000	120	N.D.	

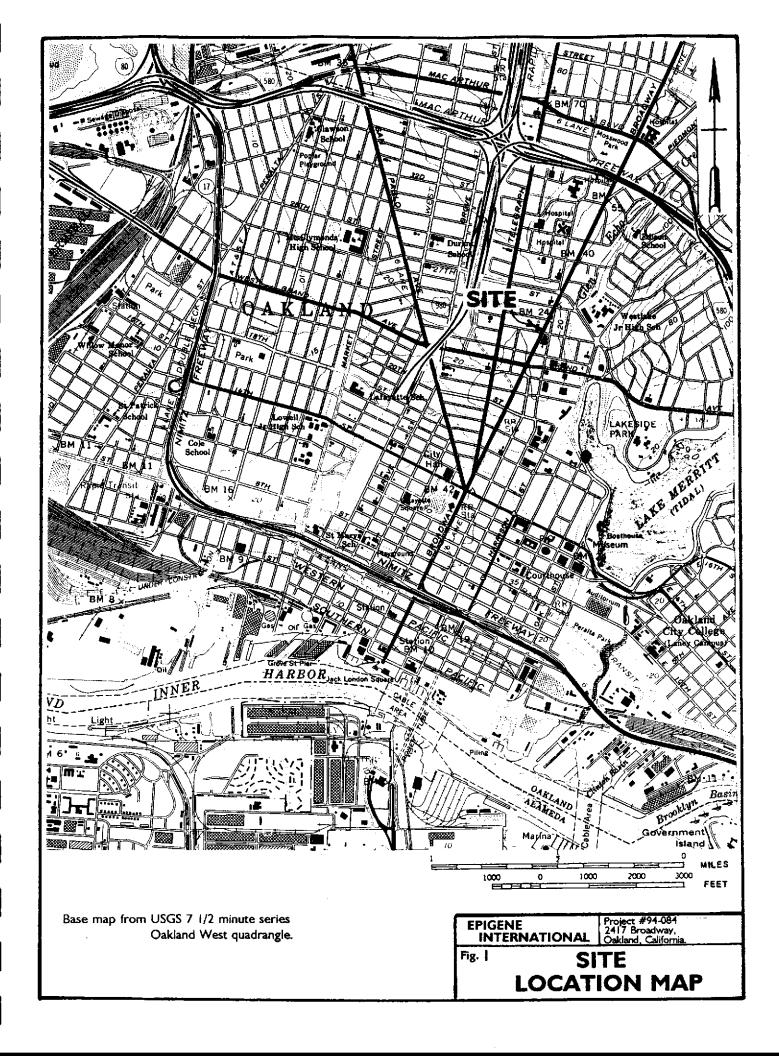
Table 3 - Results of CAM 17 Metals Analysis for Spoilpile

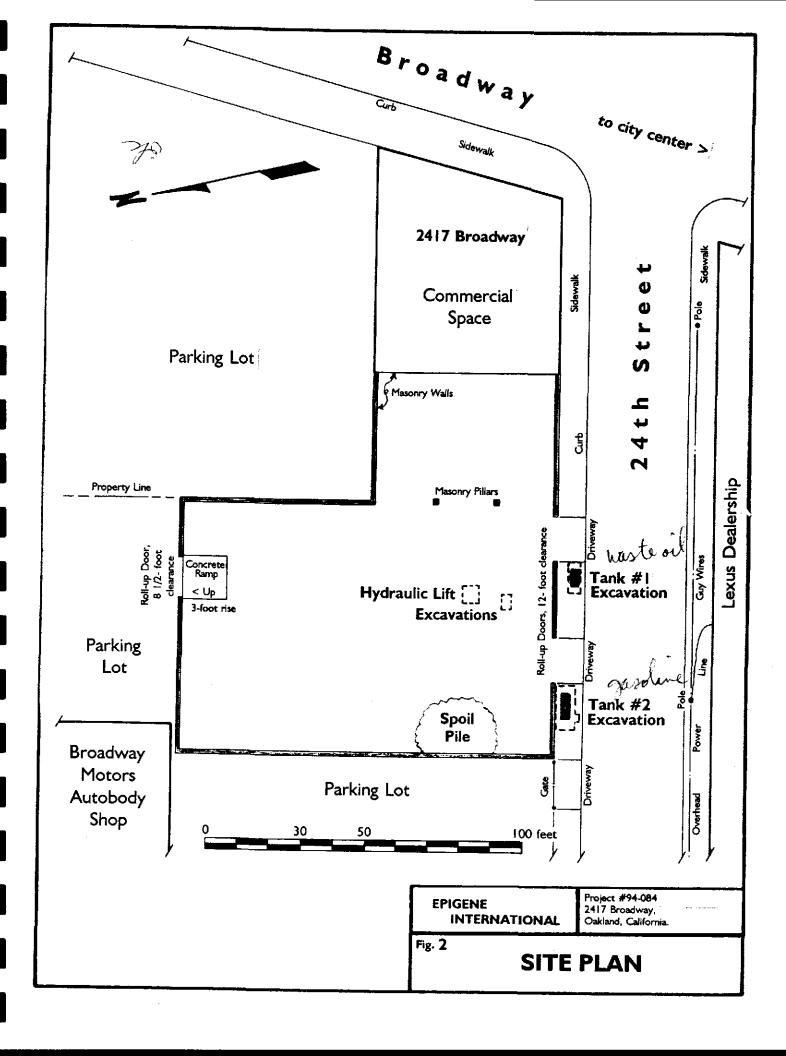
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Matrix	Soil				LIE	ш
Extraction					TTLC	STLC
Compound	Concentration*	Concentration*	Concentration*	Concentration*	mg/kg	mg/L
Antimony (Sb)	ND				1.00	0.05
Arsenic (As)	ND				2.5	0.25
Barium (Ba)	140				0.2	0.01
Beryllium (Be)	ND				0.2	0.01
Cadmium (Cd)	ND				0,2	0,01
Cobalt (Co)	9.4				0.4	0.02
Chromium (Cr)	39		·		0.02	0.005
Copper (Cu)	45				0.3	0.015
Lead (Pb)					0.6	0.03
Mercury (Hg)	ND				0.08	0.004
Molybdenum (Mo)	ND				0.4	0.02
Nickel (Ni)	44				0.4	0.02
Selenium (Se)	ND				5,0	0.1
Silver (Ag)	1.5				0.2	0.01
Thallium (Tl)	ND				2.00	0.1
Vanadinm (V)	29				0.4	0.02
Zinc (Zn)	70				0.2	0.01
% Recovery Surrogate						
Comments						

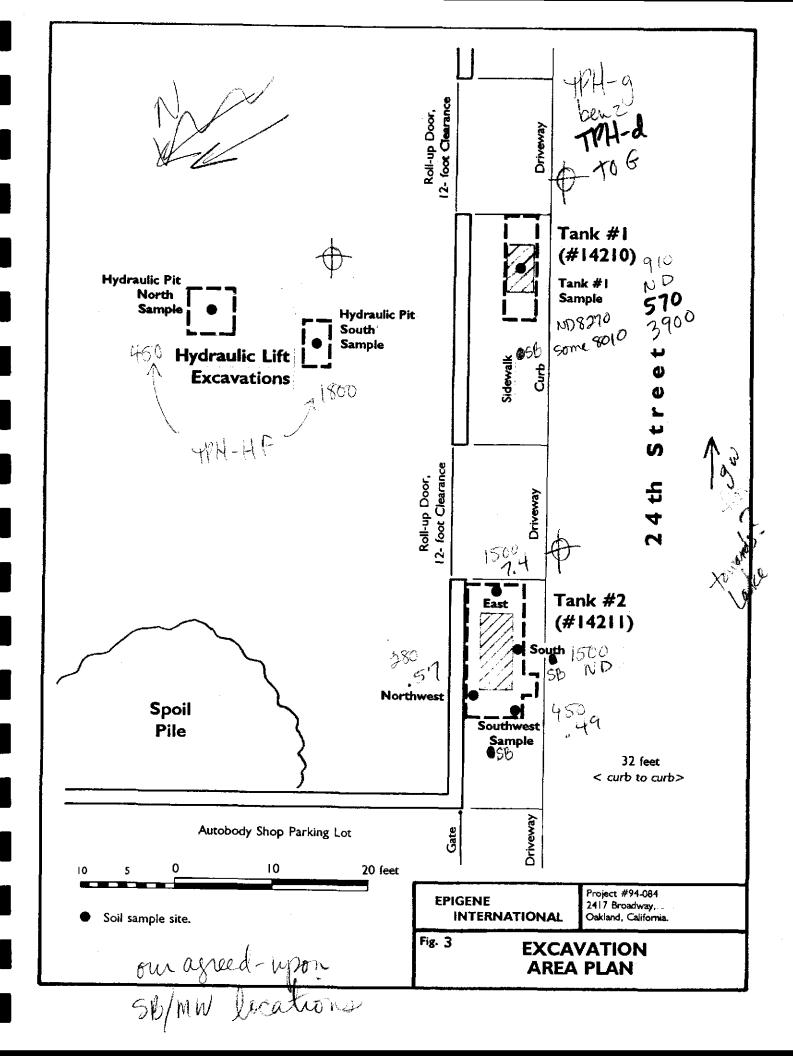
water samples are reported in mg/L, soil samples in mg/kg and all TCLP & STLC extracts in mg/L

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

a) aqueous sample that contains greater than ~ 2 vol. % sediments; the sediments are extracted with the liquid, in accordance with EPA methodologies, and can significantly increase reported metals values.







APPENDIX A

TANK DISPOSAL MANIFEST

		I. Generator's U	S EPA ID No	44 - 17 - P		Socramento, Califo
	HAZARDOUS MANIFEST	į		Manifest Document No		Information in the shaded of is not required by Federal I
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		i			Transporter's Phone	L SHADO T SHARE
7. Transparter 2 Con	npony Name		8. US EPA ID Numb	er E	Note Transporters ID.	
		1			rensported & Plants	
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Department of Taxic Substances Control Sacramento, California

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16. GENERATOR'S CERTIFICATION: I hereby a	declare that the contents of the consignment are to respects in proper condition for transport by high	ily and accurately describ	ped above by proper si	sipping name and are classified,
If I am a large quantity generator, I certify expressionically practicable and that I have sel	that I have a program in place to repluce the extending the practicable method of treatment, storages OR, if I am a small quantity generator, I have	valume and toxicity of w	raste generated to the available to me which	degree I have determined to be
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To:

CASE OF EMERGENCY OR

CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

Services Performed: TSD OF 2-50() STEEL TANKS Additional Information: COD CHECK FOR 34-35() 10 2-350 1-18-5E 3G BGC Ubculm Truck Driver's Comments: Waste Material: Profile/ W.S.#: /// Truck Material: No. of Loads: No. of Depart Profile/ W.S.#: /// Truck RMS ** No. of Loads: No. of Depart RMS ** No. of Loads: No. of Depart RMS ** No. of Loads: No. of Loads: No. of No. of Loads: No. of Loads: No. of No. of Loads: No. of Loa		
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APPENDIX B

LABORATORY DATA

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

08/05/94

Dear John:

Enclosed are:

- 1). the results of 3 samples from your 2417 Broadway 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 Inte	: International Client Project ID: 2417 Broadway			,	Date Sample	d: 07/28/94			
38750 Paseo	Padre Pkwy, # B4					Date Received: 07/29/94			
Fremont, CA	94536	Client Contact: John Alt				Date Extracted: 07/29/94			
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	Gasoline Ran								
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						1			
	imit unless other-	w	50 ug/L	0.5	0.5	0.5	0.5		
	; ND means Not etected	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.

McCAMPBELL ANALYTICAL INC.

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

Epigene International		Client Proje	ct ID: 2417 Broadway	Date Sampled: 07/28/94		
38750 Paseo I	Padre Pkwy, # B4			Date Received: 0	17/29/94	
Fremont, CA	94536	Client Conta	act: John Alt	Date Extracted:	07/29/94	
		Client P.O:		Date Analyzed: 07/30/94		
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 Matrix	TPH(d) ⁺	Gerib(3530) di Ge	% Recovery Surrogate	
40088	Tank 1- Center	S	570,g,d		89	
	mit unless other- ND means Not	w	50 ug/L			
De	tected	S	10 mg/kg			
# cluttered ch	romatogram; surr ng descriptions of ir their interpreta e significant; no re); d) gasoline rang ne to a few isolate	ogate and sar	mples in mg/kg, and all TCLP ex mple peaks co-elute or surrogat omatogram are cursory in natur lodified or weakly modified d attern; c) modified diese!?; light is are significant; e) medium boili sent; g) oil range compounds a	e peak is on eleva		

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

Epigene International		Client Pro	oject ID: 2417 Втоаdway	Date Sampled: 07/28/94
38750 Paseo	Padre Pkwy, # B4			Date Received: 07/29/94
Fremont, CA	94536	Client Co	ntact: John Alt	Date Extracted: 07/29/94
		Client P.C) :	Date Analyzed: 07/30/94
Total Recov	otal Recoverable Petroleum Hydrocarbons as Oil & Grease (with Silic			Gel Clean-up) by Scanning IR Spec-
EPA method 41	8.1 or 9073; Standard N	1ethods 5520	trometry*	
Lab ID	Client ID	Matrix	TRPH ⁺	
40088	Tank 1- Center	er S 3900		
			<u></u>	
			West was a second of the secon	the second secon
	imit unless other-	w	5 mg/L	
	; ND means Not etected	S	50 mg/kg	
+ 16 TD11/4\	is not requested in e following common ge compounds (Custolated peaks: f) (than all m	acitive regults are muchy direct i	injection chromatography with FID range compounds (C6-C12) present; > C18) present; d) other patterned ative to TRPH inferring that complex
biologically d	lerived molecules (lipids?)ar	e the source of IR absorption.	

Epigene International	Client Project ID: 2	417 Broadway	Date Sampled:	Date Sampled: 07/28/94			
38750 Paseo Padre Pkwy, # B4			Date Received:	07/29/94			
Fremont, CA 94536	Client Contact: Joh	n Alt	Date Extracted	Date Extracted: 07/31/94			
<u></u>	Client P.O:		Date Analyzed: 07/31/94				
	Volati	le Halocarbons	· · · · · · · · · · · · · · · · · · ·				
EPA method 601 of 8010							
Lab ID	40088						
Client ID	Tank 1- Center						
Matrix	S			0			
Compound ⁽¹⁾	Concentration*	Concentration*	Concentration*	Concentration*			
Bromodichloromethane (2)	ND						
Bromoform ⁽²⁾	ND						
Bromomethane (3)	ND						
Carbon Tetrachloride ⁽³⁾	ND						
Chlorobenzene	ND						
Chloroethane	ND						
2-Chloroethyl Viny l Ether (4)	ND						
Chloroform (5)	ND						
Chloromethane	ND						
Dibromochloromethane	ND /						
1,2-Dichlorobenzene	50						
1,3-Dichlorobenzene	ND						
1,4-Dichlorobenzene	10						
1,1-Dichloroethane	ND						
1,2-Dichloroethane	ND						
1,1-Dichloroethene	ND						
cis 1,2-Dichloroethene	ND ND						
trans 1,2-Dichloroethene	ND						
1,2-Dichloropropane	ND						
cis 1,3-Dichloropropene	ND						
trans 1,3-Dichloropropene	ND						
Methylene Chloride ⁽⁶⁾	ND						
1,1,2,2-Tetrachloroethane	ND						
Tetrachloroethene (7)	ND						
1,1,1-Trichloroethane	ND						
1,1,2-Trichloroethane	ND						
Trichloroethene	ND						
Trichlorofluoromethane	ND						
Vinyl Chloride ⁽⁸⁾	ND						
% Recovery Surrogate	90						
Comments	up's,same levels						

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

Epigene International		Client Pro	oject ID: 2417 E	Iroadway	Date Sampled: 07/28/94		
38750 Paseo	Padre Pkwy, # B4				Date Received: 07/29/94		
Fremont, CA	94536	Client Co	ntact: John Alt		Date Extracted: 07/29/94		
		Client P.O:			Date Analyzed: 07/30/94		
Lead*							
EPA analytical method 239.2 or 7420 ⁺							
Lab ID	Client ID	Matrix	Extraction		Lead*		
40089	Tank 2- Easr	S	S TTLC		12		
40090	Tank 2- SW	S	TTLC		5.8		
			-				
			,				
,							
	mit unless otherwise	w	TTLC		0.005mg/L		
stated; ND n	neans Not Detected	S	TTLC		4.0 mg/kg		
			STLC,TCLP	<u> </u>	0.20 mg/L		
Lead is analyse		7420 (AA Fla	me)for soils, STLC	& TCLP extracts	in mg/L s and method 239.2 (AA Furnace) for water samples s,TTLC), ·3050(solids,TTLC); STLC from CA Title		

Epigene International		Client Project ID: 2417 Broadway				Date Sampled: 07/28/94			
38750 Pased	Padre Pkwy, # B4			Dat	Date Received: 07/29/94				
Fremont, C.	A 94536	Client Co	ntact: John Al	t	Dat	e Extracted: 0	7/29/94		
		Client P.0	D:		Dat	e Analyzed: 0'	7/30/94		
			LUFT	/fetals*					
		EPA analy	tical 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*	
40088	Tank 1- Center	S	TTLC	5.0	ND	28	21 /	25 /	
			_						
									
			<u>. </u>						
·									
					_	'	_		
 -									
					: ·				
	mit unless otherwise	w	TTLC	0.005mg/L	0.05	0.25	0.10	0.05	
stated; ND r	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	

^{*} 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

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

Epigene International 38750 Paseo Padre Pkwy, # B4		Client	Client Project ID: 2417 Broadway				Date Sampled: 07/28/94 Date Received: 07/29/94			
		4								
Fremont, (CA 94536	Client	Contact: John	Alt		Date Extra	Date Extracted: 07/29/94			
		Client	P.O:	-		Date Anal	yze d : 07/30/9)4		
		N	letals by Flame	e Atomic Al	sorption*					
		EPA analy	ical methods	220.1,7210	272.1,7760	219.1,7200	279.1,7840	210.1,7090		
Lab ID	Client ID	Matrix	Extraction®	Copper	Silver	Cobalt*	Thallium*	Beryllium		
40088	Tank 1- Center	S	TTLC	23						
		ı								
			·							
			·····							
					-					
						<u> </u>				
	mit unless otherwise	w	TTLC	0.10 mg/L	0.05	0.25	0.25	0.05		
stated; ND:	means Not Detected	S	TTLC	2.0 mg/kg	2.0	5.0	5.0	1.0		
	ļ		STLC,TCLP	0.10 mg/L	0.10	0.25	0.25	0.1		

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

DHS Certification No. 1644

Edward Hamilton, Lab Director

QC REPORT FOR HYDROCARBON ANALYSES

Date: 07/30/94

Matrix: Soil

	Concentration (mg/kg)			% Recovery			
Analyte	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas)	0.000	1.702	1.801	2.03	84	89	5.6
Benzene Toluene	0.000	0.180	0.178	0.2	90	89	1.1
	0.000	0.182	0.182	0.2	91	91	0.0
Ethylbenzene	0.000		0.188	0.2	94	94	0.0
Xylenes	0.000	0.576	0.574	0.6	96	96	0.3
TPH (diesel)	0	315	315	300	105	105	0.0
TRPH (oil & grease)	0.0	21.6	20.7	20.8	104	100	4.3

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

RPO = (MS - MSD) / (MS + MSD) \times 2 \times 100

QC REPORT FOR AA METALS

Date: 07/29-07/30/94

Matrix: Soil

Analyte	Concent	ration g/kg,mg/	Γ.)	Amount	% Recovery		RPD
1111127	Sample	MS MS	MSD	Spiked	MS	MSD	111.2
Total Lead	0.0	0.9	0.9	1	90	94	4.3
Total Cadmium	0.0	1.0	1.0	1	95	99	4.1
Total Chromium	0.0	1.0	1.0	1	97	100	3.0
Total Nickel	0.0	0.9	1.0	1	94	98	4.2
Total Zinc	0.0	1.0	1.1	1	102	106	3.8
STLC LEAD	0.00	10.50	10.40	10.0	105	104	1.0
Total Copper	0.00	0.96	1.00	1.0	96	100	4.1

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

 $RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100$

QC REPORT FOR EPA 8010/8020/EDB

Date: 07/31/94

Matrix: Soil

	Conc	entrati	on (ug/k	3)	% Recovery		
Analyte	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
1,1-DCE	0	92	98	100	92	98	6.3
Trichloroethene	0	88	9 8	100	88	98	10.8
EDB	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene	0	94	110	100	94	110	15.7
Benzene	0	110	110	100	110	110	0.0
Toluene	0	92	106	100	92	106	14.1
Chlorobz (PID)	0	94	110	100	94	110	15.7

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

RPD = (MS - MSD) / (MS + MSD) $\times 2 \times 100$

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

McCAMPBELL ANALYTICAL 110 2ND AVE. SOUTH, #D7 PACHECO, CA 94553

EDWARD HAMILTON ATTN: CLIENT PROJ. ID: 2707

CLIENT PROJ. NAME: E/BROADWAY

REPORT DATE: 08/18/94

DATE(S) SAMPLED: 07/28/94

DATE RECEIVED: 07/29/94

AEN WORK ORDER: 9407353

PROJECT SUMMARY:

On July 29, 1994, this laboratory received 1 soil sample(s).

Client requested the sample be analyzed for organic parameters. identification, methodologies, results and dates analyzed are summarized on the following pages.

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.

Laboratory Director

McCAMPBELL ANALYTICAL

SAMPLE ID: TANK 1-CENTER AEN LAB NO: 9407353-01 AEN WORK ORDER: 9407353 CLIENT PROJ. ID: 2707

DATE SAMPLED: 07/28/94 DATE RECEIVED: 07/29/94 REPORT DATE: 08/18/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for BNAs	EPA 3550	-		Extrn Date	08/03/94
Semi-Volatile Organics Acenaphthene Acenaphthylene	EPA 8270 83-32-9 208-96-8	ND ND	330 330	ug/kg	08/04/94
Anthracene Benzidine	208-96-8 120-12-7 92-87-5	ND ND ND	330 330 1600	ug/kg ug/kg ug/kg	08/04/94 08/04/94 08/04/94
Benzoic Acid Benzo(a)anthracene Benzo(b)fluonanthene	65-85-0	ND	1600	ug/kg	08/04/94
	56-55-3	ND	330	ug/kg	08/04/94
Benzo(b)fluoranthene	205-99-2	ND	330	ug/kg	08/04/94
Benzo(k)fluoranthene	207-08-9	ND	330	ug/kg	08/04/94
Benzo(g,h,i)perylene	191-24-2	ND	330	ug/kg	08/04/94
Benzo(a)pyrene	50-32-8	ND	330	ug/kg	08/04/94
Benzyl Alcohol	100-51-6	ND	660	ug/kg	08/04/94
Bis(2-chloroethoxy)methane	111-91-1	ND	330	ug/kg	08/04/94
Bis(2-choroethyl) Ether	111-44-4	ND	330	ug/kg	08/04/94
Bis(2-chloroisopropyl) Ether	108-60-1	ND	330	ug/kg	08/04/94
Bis(2-ethylhexyl) Phthalate 4-Bromophenyl Phenyl Ether Butylbenzyl Phthalate	117-81-7 101-55-3 85-68-7	ND ND ND	330 330 330	ug/kg ug/kg	08/04/94 08/04/94
4-Chloroaniline 2-Chloronaphthalene	106-47-8 91-58-7	ND ND	660 330	ug/kg ug/kg ug/kg	08/04/94 08/04/94 08/04/94
4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)anthracene	7005-72-3	ND	330	ug/kg	08/04/94
	218-01-9	ND	330	ug/kg	08/04/94
	53-70-3	ND	330	ug/kg	08/04/94
Dibenzofuran	132-64-9	ND	330	ug/kg	08/04/94
Di-n-butyl Phthalate	84-74-2	ND	330	ug/kg	08/04/94
1.2-Dichlorobenzene	95-50-1	ND	330	ug/kg	08/04/94
1.3-Dichlorobenzene	541-73-1	ND	330	ug/kg	08/04/94
1,4-Dichlorobenzene	106-46-7	ND	330	ug/kg	08/04/94
3,3'-Dichlorobenzidine	91-94-1	ND	660	ug/kg	08/04/94
Diethyl Phthalate	84-66-2	ND	330	ug/kg	08/04/94
Dimethyl Phthalate	131-11-3	ND	330	ug/kg	08/04/94
2,4-Dinitrotoluene	121-14-2	ND	330	ug/kg	08/04/94
2,6-Dinitrotoluene	606-20-2	ND	330	ug/kg	08/04/94
Di-n-octyl Phthalate	117-84-0	ND	330	ug/kg	08/04/94
1,2-Diphenylhydrazine	122-66-7	ND	330	ug/kg	08/04/94
Fluoranthene	206-44-0	ND	330	ug/kg	08/04/94
Fluorene	86-73-7	ND	330	ug/kg	08/04/94
Hexachlorobenzene	118-74-1	ND	330	ug/kg	08/04/94
Hexachlorobutadiene	87-68-3	ND	330	ug/kg	08/04/94
Hexachlorocyclopentadiene	77-47-4	ND	330	ug/kg	08/04/94

McCAMPBELL ANALYTICAL

SAMPLE ID: TANK 1-CENTER AEN LAB NO: 9407353-01 AEN WORK ORDER: 9407353 CLIENT PROJ. ID: 2707

DATE SAMPLED: 07/28/94 DATE RECEIVED: 07/29/94 REPORT DATE: 08/18/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Hexachloroethane	67-72-1	ND	330	ug/kg	08/04/94
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ug/kg	08/04/94
Isophorone	78 - 59-1	ND	330	ug/kg	08/04/94
2-Methylnaphthalene	91-57-6	ND	330	ug/kg	08/04/94
Naphthalene	91-20-3	ND	330	ug/kg	08/04/94
2-Nitroaniline	88-74-4	ND	1600	ug/kg	08/04/94
3-Nitroaniline	99-09-2	ND	1600	ug/kg	08/04/94
4-Nitroaniline	100-01-6	ND	1600	ug/kg	08/04/94
Nitrobenzene	98-95-3	ND	330	ug/kg	08/04/94
N-Nitrosodimethylamine	62-75-9	ND	330	ug/kg	08/04/94
N-Nitrosodiphenylamine	86-30-6	ND	330	ug/kg	08/04/94
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ug/kg	08/04/94
Phenanthrene	85-01-8	ND	330	ug/kg	08/04/94
Pyrene	129-00-0	ND	330	ug/kg	08/04/94
1.2.4-Trichlorobenzene	120-82-1	ND	330	ug/kg	08/04/94
4-Chloro-3-methylphenol	59-50-7	ND	330	ug/kg	08/04/94
2-Chlorophenol	95-57-8	ND	330	ug/kg	08/04/94
2.4-Dichlorophenol	120-83-2	ND	330	ug/kg	08/04/94
2.4-Dimethylphenol	105-67-9	ND	330	ug/kg	08/04/94
4.6-Dinitro-2-methylphenol	534-52-1	ND	1600	ug/kg	08/04/94
2.4-Dinitrophenol	51-28-5	ND	1600	ug/kg	08/04/94
2-Methylphenol	95-48-7	ND	330	ug/kg	08/04/94
4-Methylphenol	106-44-5	ND	330	ug/kg	08/04/94
2-Nitrophenol	88-75-5	ND	330	ug/kg	08/04/94
4-Nitrophenol	100-02-7	ND	1600	ug/kg	08/04/94
Pentachlorophenol	87-86-5	ND	1600	ug/kg	08/04/94
Phenol	108-95-2	ND	330	ug/kg	08/04/94
2.4.5-Trichlorophenol	95-95-4	ND	330	ug/kg	08/04/94
2,4,6-Trichlorophenol	88-06-2	ND	330	ug/kg	08/04/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

AEN (CALIFORNIA) QUALITY CONTROL REPORT

AEN JOB NUMBER: 9407353

CLIENT PROJECT ID: 2707

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

<u>Definitions</u>

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration that can reliably be determined during routine laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix and method dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

- D: Surrogates diluted out.
- #: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

AEN JOB NO: 9407353

DATE EXTRACTED: 08/03/94 INSTRUMENT: 11

SURROGATE STANDARD RECOVERY SUMMARY METHOD: EPA 8270 (SOIL MATRIX)

SAMP Date	PLE IDENTIFICATION	N	Néma		ROGATE	RECOV		CENT)
Analyzed	Sample Id.	Lab Id.	Nitro- benzene-d _s	2.Fluoro. biphenyl	Terphenyl· d ₁₄	Pheno1-d ₅	2-Fluoro- phenol	2.4.6·Tribromo- phenol
08/04/94	TANK 1-CENTER	01	33	64	113	47	26	72

CURRENT QC LIMITS

<u>ANALYTE</u>	PERCENT RECOVERY
Nitrobenzene-d ₅ 2-Fluorobiphenyl Terphenyl-d ₁₄ Phenol-d ₅ 2-Fluorophenol 2,4,6-Tribromophenol	(23-120) (30-115) (18-137) (24-113) (25-121) (19-122)

QUALITY CONTROL DATA

AEN JOB NO: 9407353

DATE EXTRACTED: 08/03/94 DATE ANALYZED: 08/10/94 SAMPLE SPIKED: INSTRUMENT: 11 9407303-07

MATRIX SPIKE RECOVERY SUMMARY METHOD: EPA 8270 (SOIL MATRIX)

ANALYTE	Spike Added (ug/kg)	Average Percent Recovery	RPD
Phenol 2-Chlorophenol 1,4-Dichlorobenzene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene Pentachlorophenol Pyrene	3330 3330 3400 3320 3330 3270 3330 3330 3380 3380 3320	57 58 48 43 53 73 60 89 84 91 58	21 6 7 19 18 26 10 <1 1 7

CURRENT QC LIMITS

<u>Analyte</u>	Percent Recovery	<u>RPD</u>
Phenol 2-Chlorophenol 1.4-Dichlorobenzene 4-Nitroso-di-n-propylamine 1.2,4-Trichlorobenzene 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2.4-Dinitrotoluene Pentachlorophenol Pyrene	(26- 90) (25-102) (28-104) (41-126) (38-107) (26-103) (31-137) (11-114) (28- 89) (17-109) (35-142)	35 50 27 38 23 33 19 50 47 47 36

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

9407353 Assu 8-7,50

C	CHAIN O	F C	UST	OD	Y	RI	EC	0	RI	D					I (CII I	N A	ρn	1 161 1	, T	1445			-	7			Г]				 l	Ι Χ Ι	
	MeC	AMPB	ELL	۸N۸	LYT	1C	ΛL	,		 , ,													RU:			24	HE	JUR	₹	48			5 DAY	
(510) 790 <u>-</u>	1620	PACII	ed AVEN BCO, CA	8	1553	_	VAV	(E	101	Ne		100		-	Τ	S	Τ	Τ	AN	T	\$15	T R	EQ	UES		T	 	7	$ar{\Gamma}$	OTI	IER			
REPORT TO	d Hami	1/211	BILL 1	10'0	70,		wn	(5	h	//	(102	<u> </u>	8 618		F/423																		
PROJECT NUM	Ed Hami, IBERI COT CATIONI	-100	PROJEC	T N	AMEI RCIA	41. ds:		<u>pr</u>	1	<u>n (</u>				602\8020 1		C25/4G 650	を を を を を を を を を を を を を を								y a									
PROJECT LOC	CATION:		SAMPLE	R S	IGNAT	URE	π_{λ}				<u> </u>			in (60)		ğ	Hydrocurbons (418.1)				È				15	Series /							COMMENT	S
0445	¥	MAZ	PLING	283	DERS		M	ATR	ΊX		ME PRE	THO SER\		- 3	(801.5)	ä	5			1	ğ	6	 	1 3	y Pollut	21/239.						ı		ļ
SAMPLE ID	LOCATION	DATE	TJHE	# CONTABLERS	TYPE CONTAINERS	VATER	SOD.	AIR	A. UDGE	11EX	d	£03	THERIZE	BTEX & TPH	W Cs Des	otel Peroven	oted Petrol	PA 601/8010	EPA 642/8420	EPA 608/18080	EPA 608/8080	EPA 624/8240/8260	EPA 625/8270	CAM - 17 Metals	EPA - Priority Pollutant	LEAD (7246/7421/239.2/6010)	DRGANIC LEAD	11						
Twk 1- Center		7/28/74	PM	1	VOA		X				_		X	E .	1	<u> </u>	_	<u> </u>	3		3		X	3		<u>"</u>	В	2			1	_	40088	-
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LINQUISIED BY	Ricca	DATE 7/29/94	1600		A O	W.		- 1	! -				1	J	ŖE	ΜÀ	RK	ـــــــــــــــــــــــــــــــــــــ				L		L	L									1
EKINOUISHEN BY		DATE 1/2-1917	1610	PECEI	VED B	Y, \$	T		•																									
ELINDUISHED BY		DATE	TIME	V.	ruly	A	BUR	ATD	RYI	Z _																								

OIA

Epigene International 2707AEI19 CHAIN OF CUSTODY **CONSULTING GEOLOGISTS** 38750 Paseo Padre Parkway. Suite B-4 Laboratory: Fremont, California, 94536 Business: (510) 791-1986 FAX: (510) 791-3306 John N. Alt Contact: Sampler: JNA Project Name: 24/7 No. Contact: Date: Analyses Requested 601/8010 80218020 Date/Time Matrix Sample I.D. Container Sampled Lab. ≠ Desc. No. of | Type Comments 1. Tante 1-center 50, 2. tube * X 4. Tante 7 -L, 5. 40088 6. 40089 7. IS U & STATE THEN DITHER BOOD CONDITIONS 40090 APPROPRIATE HEAD SPACE ABSENT CONTAINERS ! 9. 10. Relinquished by 29/94 Time: 9: 50 AN Received by: Kin Willy Date: 7 19/40Time: 7:31 AM Relinquished by: 44 Time: 11:20 At Date: Received by Time: 11:20 Ara. Relinquished by: Date: Time: Received by Time: Turnaround Time: nour tor as Ce EVERYThing But 8270

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Additional Comments:

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

08/08/94

Dear John:

Enclosed are:

- 1). the results of 5 samples from your # 94-084; 2417 Broadway, 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

ld ful

Epigene Inter	rnational		ject ID:# 94	-084; 2417 E	roadway,	Date Sampled:07/28-07/29/94						
38750 Paseo l	Padre Pkwy, # B4	Oakland				Date Receive	ed:08/01/94	·				
Fremont, CA	94536	Client Co	ntact: John A	Alt		Date Extract	ed:08/01/94	1				
		Client P.C) :		Date Analyz	ed:08/01-08	3/02/94					
EDA methode Si	Gasoline Ran 030, modified 8015, and	ge (C6-C1	2) Volatile H	ydrocarbon OCB (SF Bay	line*, with B'	FEX* 30)						
Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethellon	Xylenes	% Rec. Surrogate				
40102	Tank 2 South	S	1500,b,d	ND< 0.1	15	15	81	137#				
40103	Tank 2 North	S	280,b,d	0.57	4.3	2.6	12	97				
40106	Stockpile	S	39,c,b	ND	0.48	0.12	0,008	105				
				<u> </u>		<u> </u>						
	imit unless other-	W	50 ug/L	0.5	0.5	0.5	0.5					
	etected	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.

Epigene Inter	rnational		D: # 94-084; 2417 Broadway,	Date Sampled:07	/28-07/29/94							
38750 Paseo I	Padre Pkwy, # B4	Oakland		Date Received:08	3/01/94							
Fremont, CA	94536	Client Contact:	John Alt	Date Extracted:0	8/04/94							
		Client P.O:		Date Analyzed:08	3/04/94							
EPA methods m		Range (C10-C23) Extractable Hydrocarbons as Diesel * or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)										
Lab ID	Client ID	Matrix	TPH(d) ⁺	GC11D(3550) 61 GC1	% Recovery Surrogate							
40106	Stockpile	S	660,d,g		#							
	· · · · · · · · · · · · · · · · · · ·											
	mit unless other- ND means Not	w	50 ug/L									
	tected	S	10 mg/kg									
# cluttered ch	romatogram; surre og descriptions of to r their interpreta e significant; no re significant; no re of gasoline rang ne to a few isolate	ogate and sample	s in mg/kg, and all TCLP extends to peaks co-elute or surrogate togram are cursory in nature fied or weakly modified dirn; c) modified diesel?; lightesignificant; e) medium boili; g) oil range compounds a	e peak is on elevat								

McCAMPBELL ANALYTICAL INC.

Epigene Inter		Client Project ID:#	94-084; 2417 Broadway,	Date Sampled:07	//28-07/29/94				
38750 Paseo P	adre Pkwy, # B4	Cakiand		Date Received:0	8/01/94				
Fremont, CA	94536	Client Contact: Joh	nn Alt	Date Extracted:08/04/94					
		Client P.O:		Date Analyzed:0	8/04/94				
EPA methods mo			tractable Hydrocarbons QCB (SF Bay Region) method						
Lab ID	Client ID	Matrix	TPH(ho) ⁺		% Recovery Surrogate				
40104	North Pit	S	450,g,d		#				
40105	South Pit	S	1800,g,d		106				
Detection Lin	nit unless other-	w	50 ug/L						
	ND means Not tected	S	10 mg/kg						

[#] 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.

McCAMPBELL ANALYTICAL INC.

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

Epigene Interi	national	Client Pro	ject ID: # 94-084; 2	417 Broadway,	Date Sampled:07/28-07/29/94
38750 Paseo P	adre Pkwy, # B4	Oakland			Date Received:08/01/94
Fremont, CA	94536	Client Co	ntact: John Alt		Date Extracted:08/02/94
		Client P.C);	Date Analyzed:08/02/94	
	<u></u>	<u> </u>			
EPA analytical me	ethod 239.2 or 7420 ⁺				
Lab ID	Client ID	Matrix	Extraction		Lead*
40106	Stockpile	S	TTLC		64
				<u>-</u>	
					
	it unless otherwise eans Not Detected	w	TTLC		0.005mg/L
Stated, ND M	cans not beterred	S	TTLC		4.0 mg/kg
		***	STLC,TCLP		0.20 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

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

1.6 0 1 1 1 1 1 1 1 1		
McCAMPBELL	ANALYTICAL	INC.

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

Epigene Interi 38750 Paseo P	national adre Pkwy, # B4	Client Project Oakland	et ID: # 94-084; 2417	Broadway,	Date Sampled:07/28-07/29/94 Date Received:08/01/94					
Fremont, CA	94536	Client Conta	ect: John Alt		Date Extracted					
		Client P.O:		·	Date Analyzed	1:08/02/94				
	·	k Ignitabilit	ty)							
Lab ID	on 66261.21-66261.23 Client ID	Matrix	Reactivity [†]	Corre	sivity (pH)	Ignitability ^o				
40106	Stockpile	S	negative		7.77	negative				
			-							
						· · · · · · · · · · · · · · · · · · ·				
			· 			,				
explosivity.						er, appears to conta hows no indication ability upon exposu				

Edward Hamilton, Lab Director

DHS Certification No. 1644

QC REPORT FOR HYDROCARBON ANALYSES

Date:

08/01-08/02/94 Matrix: Soil

	Concent	ration	(mg/kg)		% Reco	very	
Analyte	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas)	0.000	1.748	1.717	2.03	86	85	1.8
Benzene	0.000	0.192	0.160	0.2	96	80	18.2
Toluene	0.000	0.178	0.162	0.2	89	81	9.4
Ethylbenzene	0.000	0.182	0.162	0.2	91	81	11.6
Xylenes	0.000	0.576	0.514	0.6	96	86	11.4
TPH (diesel)	0	308	305	300	103	102	1.1
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: 08/03-08/04/94

Matrix: Soil

	Concent	ration	(mg/kg)	"	% Reco	very	
Analyte	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas)	0.000	1.659	1.674	2.03	82	82	0.9
Benzene Toluene	0.000	0.180	0.174 0.182	0.2	90 92	87 91	3.4
Ethylbenzene	0.000	0.184	0.182	0.2	92	91 91	1.1
Xylenes	0.000	0.576	0.572	0.6	96	95	0.7
TPH (diesel)	0	310	313	300	103	104	0.9
TRPH (oil & grease)	0.0	24.1	24.8	20.8	116	119	2.9

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

QC REPORT FOR AA METALS

Date: 08/02/94

Matrix: Soil

_		Concent				% Reco	very	
Ana	alyte	(me	g/kg,mg/	L)	Amount	•		RPD
		Sample	MS	MSD	Spiked	MS	MSD	
Total	Lead	0.0	10.0	9.9	10	100	99	1.0
Total	Cadmium	0.0	9.9	9.9	10	99	99	0.0
Total	Chromium	0.0	9.8	9.7	10	98	97	1.0
Total	Nickel	0.0	9.9	9.8	10	99	98	1.0
Total	Zinc	0.0	9.9	9.8	10	99	98	1.0
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

Relinquished by:

Relinquished by:

Laboratory: Mc Comp	sell Analytical Inc
110 2nd Ave 5	outly. D. 7
tacheco, CA	94553
(510) 798- 1620	
contact: Ed Han	il Han



Epigene International

CONSULTING GEOLOGISTS

38750 Paseo Padre Parkway, Suite 8-4 Fremont, California, 94536 Business: (510) 791-1986 FAX: (510) 791-3306

Contact: John N. Alt Sampler: JNA/JDA
Project Name: 2417 Broodway, Oakland No. 94-084
Date: 7/29/94

Analyses Requested

Date:

Time:

Sample I.D.	Date/Time Sampled	Matrix Desc.	Cont No. of	ainer Type	Lab. +	, i	A16860	STEP 201	10100	1801	Grod		80	
· Tank 2 south	7/28/94	50.1	١	bross tube		X	X					<u> </u>	7	40102
· Tankez north	7/28/84	ŀ	K	ų		K	X						 	40.103
i.north zit	7/29/94	ч	ч	И						٦,	<		+-{	No in
1. south pit	7/29/98 Pm	Le .	4	.,						,				40105
· stockpile-	7/29/94 PM	4	ŧ _f	4)						-		-	Annual Control of the
· Stockepile-	ι	ŧ,	4	ij	Compos	H 2	2	X			×	1		40106
·Stockpile	ч	ч	n	11	(4 to)							+		ing Aning #-
·Stockpile-	4	Ļ	14	11)						1	CLOE.	()	
•						IC //			er.	rere:				
D.						GOOD CI HIAD SI				PRI PRI NUMBE	Mile -	1	± 44-7	· · · · · · · · · · · · · · · · · · ·

Turnaround Time:			
Additional * TPH as hydraulic oil			
Comments:	Page	1 01	1

Received by:

Time: 350

Time:

08/15/94

Dear John:

Enclosed are:

- 1). the results of 1 samples from your 2417 Broadway 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		Client Pro	oject ID: 241	7 Broadway	. [Date Sampled:08/05/94			
38750 Paseo	Padre Pkwy, # B4					Date Received:08/05/94			
Fremont, CA	x 94536	Client Co	ntact: John A	Alt		Date Extracted:08/05/94			
		Client P.():			Date Analyz	ed:08/05/94		
EPA methods 5	Gasoline Ran 030, modified 8015, and								
Lab ID	Client ID	Matrix					Xylenes	% Rec. Surrogate	
40176	S-1 to 4	S	120,b	0.16	0.86	0.89	4.9	97	
,									
	imit unless other-	w	50 ug/L	0.5	0.5	0.5	0.5		
wise stated; ND means Not Detected		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.

McCAMPBELL ANALYTICAL INC.

Epigene International		Client Proj	ect ID: 2417 Broadway	Date Sampled:08/05/94			
38750 Paseo Pa	dre Pkwy, # B4			Date Received:08/05/94			
Fremont, CA 9	4536	Client Con	tact: John Alt	Date Extracted:08/05/94			
		Client P.O		Date Analyzed:08/06/94			
EPA methods mod	Diesel I ified 8015, and 3550	Range (C10 or 3510; Calif	-C23) Extractable Hydrocarbons fornia RWQCB (SF Bay Region) method	as Diesel * GCFID(3550) or GCI	FID(3510)		
Lab ID	Client ID	Matrix			% Recovery Surrogate		
40176	S-1 to 4	S	51,d,g		118#		
				_			
Detection Lim	it unless other-	w	50 ug/L				
wise stated; N	D means Not ected	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.

McCAMPBELL ANALYTICAL INC.

Epigene International		Client Pro	oject ID: 2417 Broadway	Date Sampled:08/05/94		
38750 Paseo F	adre Pkwy, # B4			Date Received:08/05/94		
Fremont, CA	94536	Client Co	ntact: John Alt	Date Extracted:08/06/94		
		Client P.0	D:	Date Analyzed:08/06/94		
Total Recover	rable Petroleum l	Hydrocarb	ons as Oil & Grease (with Silica (trometry*	Gel Clean-up) by Scanning IR Spec-		
EPA method 418	.1 or 9073; Standard M	Aethods 5520	-			
Lab ID	Client ID	Matrix	TRPH⁺			
40176	S-1 to 4	S	190			
				-		
			-			
		-				
						
Detection Lir	nit unless other-	w	5 mg/L			
wise stated;	ND means Not					
		S	50 mg/kg			
† If TPH(d) is	s are reported in a s not requested to following comme e compounds (Cl solated peaks; f) G rived molecules (I	hen all no	ocitive results are run by direct in	njection chromatography with FID ange compounds (C6-C12) present; C18) present; d) other patterned tive to TRPH inferring that complex		
				<u> </u>		

Epigene International		Client Pro	oject ID: 2417 E	Broadway	Date Sampled:08/05/94		
38750 Paseo I	Padre Pkwy, # B4				Date Received:08/05/94		
Fremont, CA	94536	Client Co	ntact: John Alt		Date Extracted:08/05/94		
		Client P.C):		Date Analyzed:08/07/94		
·			Lea	ď.			
EPA analytical m	ethod 239.2 or 7420 ⁺						
Lab ID	Client ID	Matrix	Extraction		Lead [*]		
40176	S-1 to 4	S	TTLC		28		
	· · · · · · · · · · · · · · · · · · ·						
					·		
			.,,,,	-			
	it unless otherwise	w	TTLC		0.005mg/L		
stated; ND m	eans Not Detected	s	TTLC		4.0 mg/kg		
			STLC,TCLP		0.20 mg/L		
* - '1 1.			1 DOTE O	e TOLD	ž.,/T		

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

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

Epigene International		Client	Client Project ID: 2417 Broadway			Date Sampled: 08/05/94			
38750 Paseo Padre Pkwy.,	Ste. B-4					ate Received: 08/0)5/94		
Fremont, Ca. 94536		Client	Client Contact: John Alt			Date Extracted: 08/09/94			
Clie			P.O:		Da	ate Analyzed: 08/0)9/94		
			CAM 17 META	ALS					
EPA methods 6010/7470	,					· · · · · · · · · · · · · · · · · · ·			
Lab Id	401	76			·	<u> </u>	D-4-	_4:	
Client ID	S-1 to	0 4					Lir	ction nit	
Matrix	Soi	1							
Extraction	TTL	C					TTLC	STLC	
Compound	Concenti	ation*	Concentration*	Concentrati	on*	Concentration*	mg/kg	mg/L	
Antimony (Sb)	ND)					1.00	0.05	
Arsenic (As)	ND)					2.5	0.25	
Barium (Ba)	140)					0.2	0.01	
Beryllium (Be)	ND						0.2	0.01	
Cadmium (Cd)	ND)					0.2	0.01	
Cobalt (Co)	9.4				_		0.4	0.02	
Chromium (Cr)	39			· · · · · ·			0.02	0.005	
Copper (Cu)	45						0.3	0.015	
Lead (Pb)							0.6	0.03	
Mercury (Hg)	ND						0.08	0.004	
Molybdenum (Mo)	ND	,					0.4	0.02	
Nickel (Ni)	44						0.4	0.02	
Selenium (Se)	ND						5.0	0.1	
Silver (Ag)	1.5						0.2	0.01	
Thallium (Tl)	ND						2.00	0.1	
Vanadium (V)	29						0.4	0.02	
Zinc (Zn)	70						0,2	0.01	
% Recovery Surrogate				.,					
Comments			-						

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

______Edward Hamilton, Lab Director

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

a) aqueous sample that contains greater than ~ 2 vol. % sediments; the sediments are extracted with the liquid, in accordance with EPA methodologies, and can significantly increase reported metals values.

16 011 (555		
McCAMPBELL.	ANALYTICAL	INC.

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

Epigene Inter	rnational	Client Proje	ct ID: 2417 Broadwa	Date Sampled:08/05/94				
38750 Paseo F	Padre Pkwy, # B4				Date Received:08/05/94			
Fremont, CA	94536	Client Conta	ict: John Alt	Date Extracte	Date Extracted:08/05/94			
		Client P.O:			Date Analyzed	1:08/05/94		
CA Title 22 Sect	ion 66261.21-66261.23		ctivity, Corrosivity &	k Ignitabili	ity)			
Lab ID	Client ID	Matrix	Reactivity [†]	Corre	osivity (pH)	Ignitability ^o		
40176	S-1 to 4	S	negative		7.57	negative		
								
negative me no reactive cy explosivity.	eans no obvious re vanide or suifide (action with w	ater, no evolution of by EPA SW-846, ch	gas upon c napter 7, m	ontact with wat lodified), and sl	er, appears to contain		
onegative for a to a naked flat	a soil means the ab me.	sence of spoi	ntaineous combustio	n and the al	bsence of flamm	ability upon exposur		

DHS Certification No. 1644

14

Edward Hamilton, Lab Director

QC REPORT FOR HYDROCARBON ANALYSES

Date: 08/05-08/06/94

Matrix: Soil

	Concent	ration	(mg/kg)		% Reco	very	
Analyte	Sample	MS	MSD	Amount Spiked	MS	MSD	RPD
TPH (gas)	0.000	1.934	1.941	2.03	95	96	0.4
Benzene Toluene	0.000	0.184	0.180 0.188	0.2	92 96	90 94	2.2
Ethylbenzene	0.000	0.196	0.190	0.2	98	95	3.1
Xylenes	0.000	0.598	0.584	0.6	100	97	2.4
TPH (diesel)	o	319	319	300	106	106	0.0
TRPH (oil & grease)	0.0	24.4	23.8	20.8	117	114	2.5

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

QC REPORT FOR AA METALS

Date: 08/06-08/07/94 Matrix: Soil

	Concent	ration			% Reco	very	
Analyte	(m	g/kg,mg/	L)	Amount	•		RPD
	Sample	MS	MSD	Spiked	MS	MSD	
Total Lead	0.0	0.9	0.9	1	93	92	1.1
Total Cadmium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Chromium	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Nickel	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Zinc	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STLC LEAD	0.00	0.95	0.92	1.0	95	92	3.2
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

QC REPORT FOR METALS

Date: 08/09/94 Matrix: SOIL

Extraction: TCLP

	Concent	ration		% Recovery			
Analyte	(m	g/kg,mg/	L)	Amount			RPD
	Sample	MS	MSD	Spiked	MS	MSD	
	.						
Arsenic	0.0	9.8	9.8	10.0	98	98	0.2
Selenium	0.0	10.0	10.0	10.0	100	100	0.3
Molybdenum	0.0	9.8	10.2	10.0	98	102	4.4
Silver	0.0	1.5	1.6	1.5	101	107	6.4
Thallium	0.0	9.5	9.6	10.0	95	96	0.2
Barium	0.0	9.9	9.9	10.0	99	99	0.5
Nickel	0.0	9.6	9.8	10.0	96	98	1.6
Chromium	0.0	9.8	9.9	10.0	98	99	0.5
Vanadium	0.0	10.1	10.1	10.0	101	101	0.4
Beryllium	0.0	9.7	9.8	10.0	97	98	1.4
Zinc	0.0	9.3	9.4	10.0	93	94	1.5
Copper	0.0	9.6	9.8	10.0	96	98	1.2
Antimony	0.0	9.9	9.9	10.0	99	99	0.8
Lead	0.0	9.5	9.4	10.0	95	94	0.4
Cadmium	0.0	9.4	9.6	10.0	94	96	2.4
Cobalt	0.0	9.4	9.5	10.0	94	95	1.2
Mercury	0.00	378.00	357.00	400.0	95	89	5.7
	1			l			

% Rec. = (MS - Sample) / amount spiked x 100 $RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100$

CHROMALAB, INC.

Environmental Services (SDB)

August 10, 1994

Submission #: 9408108

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton Project: E/BROADWAY

Project#: 2733

Received: August 9, 1994

re: One sample for Volatile Organic Compounds analysis.

Sample ID:S-1 - S-4

Matrix: SOIL

Sampled: August 5, 1994

Spl #:59885 Run: 3686 Analyzed: August 9, 1994

Method: EPA 8240/8260

		REPORTING	BLANK	BLANK SPIKE
•	RESULT	LIMIT	RESULT	RESULT
<u>ANALYTE</u>	(ug/Kg)	(ug/Kg)	(ug/Kg)	(%)
ACETONE	47	25	N.D.	
BENZENE	42	5.0	N.D.	129
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	
BROMOFORM	N.D.	5.0 5.0 5.0 5.0	N.D.	
BROMOMETHANE	N.D.	5.0	N.D.	
2-BUTANONE	N.D.	5.0	N.D.	
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	
CHLOROBENZENE CHLOROETHANE	N.D.	5.0 5.0	Ŋ.D.	105
	N.D.	5.0	N.D.	
2-CHLOROETHYLVINYLETHER	N.D.	5.0	N.D.	
CHLOROFORM CHLOROMETHANE	N.D.	5.0	N.D.	
CHLOROMETHANE	N.D.	5.0 5.0 5.0	N.D.	
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	
1,2-DICHLOROETHANE	Ŋ.D.	5.0	N.D.	
1,1-DICHLOROETHENE	N.D.	5.0 5.0 5.0 5.0 5.0 5.0	Ŋ.D.	120
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	Ŋ.D.	
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	Ŋ.D.	
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	
1,3-DICHLOROPROPENE (CIS)	N.D.	5.0	N.D.	
1,3-DICHLOROPROPENE (TRANS)	N.D.	5.0	N.D.	
ETHYL BENZENE	2600	120	N.D.	
2-HEXANONE	N.D.	5.0	N.D.	
METHYLENE CHLORIDE 4-METHYL-2-PENTANONE	N.D.	25	N.D. N.D.	
STYRENE	N.D.	5.0	N.D. N.D.	
1,1,2,2-TETRACHLOROETHANE	N.D. N.D. N.D.	5.0 5.0	N.D.	
TETRACHLOROETHENE	N.D. N.D.	5.0	N.D.	
TOLUENE	1600	120	N.D.	108
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	- -
TRICHLOROETHENE	N.D.	5.0	N.D.	95
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	
VINYL ACETATE	N.D.	5.0	N.D.	
VINYL CHLORIDE	N.D.	5.0	N.D.	
XYLENES (TOTAL)	19000	120	N.D.	
1122112	17000	100	14.4.	

ChromaLab, Inc.

Aaron McMichael

Chemist

Ali Want

Ali Kharrazi Organic Manager

GCAPP AARON 06:18:04

CLIENT: MCCAM CHAIN OF CUSTODY R DUE: 08/10/94 RUF #:17881 24 HOUR 48 HOUR 5 DAY McCAMPBELL ANALYTIC.... ANALYSIS REQUEST 110 2nd AVENUE, # D7 DTHER PACHECO, CA 94553 (510) 798-1620 FAX (510) 798-1622 REPORT TO BILL TO E. Ifamilla PROJECT NAME: PROJECT NUMBER PROJECT LOCATION SAMPLER SIGNATURE! PROJECT LOCATION COMMENTS The as Deset (8015) Total Petroleun DI & (EPA 601/8010

EPA 608/8080 - PCB4

EPA 608/8080 - PCB4

EPA 628/8240/8260 METHOD PRESER√ED MATRIX SAMPLING CONTADIERS SAMPLE LOCATION ID DATE TIME 3-1-5-4 £ 1-74 40176

RELINQUISHED DY DATE TIME RECEIVED BY DATÉ RELINQUISHED BY DATE RECEIVED BY LABORATORY RELINQUISHED BY Chronalas

REMARKS:

would like results by Twee spay

Q733AETQI AEIQIA

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CHAIN OF CUSTODY							Epigene International CONSULTING GEOLOGISTS											
Laboratory:	McCamp	bell	Ana	lytic	al			1	Frem	O Pat	seo Pa Califo	ndre F rnia, !	Park w 9453	vay, 9		B-4 10) 791-	-330	3
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Contact:	Fd Ho	nsi/7			· · · · · · · · · · · · · · · · · · ·			Nam				owo	4		No.]
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Semple J.D.	Date/Time Sampled	Matrix Desc.	Cont No. of		Lab. ≠	10	NIG/		DAI.	60)/	602/				AWIT	Commen	rt s	
1.5-1	8/5/94	soil	1	pross) [4_												
2·5-Z	11	١٢	l ("((compos	1	1×	人			1 _X	X	V	1		40176		
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9.				ਰ ਮ	OD CONDITION PAD STACE ABSE	NT		MININ		7								
10.																		
Relinquished	bystun	and	- Date:	8/5/94	Time: 12:30	Rec	oived	by:		. V	A		D	ite:	8/5/90	Time: 12	2:30	
			Time:	1					nto:									
Relinquished by: Date:			Time:	Received by: Date:						te:		Time:	<u> </u>					
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Additional <	stock pile															,	1	l

Comments:

APPENDIX C

SOIL DISPOSAL MANIFESTS

HOLE HALAME OU OFECIAL WASTE & ASBESTUS WANTEST

If waste is asbestos waste, complete Sections I, II, III and IV. If waste is $\underline{\text{NOT}}$ asbestos waste, complete only Sections I, II and III.

No. 529865

Section 1. GENERATOR GOVERNMENT	rator completes all of Section 1)
L. C. H.	Generating Location: Z4/7 BIOADW Ay
c. Address: Clo John KAO 650 CALICINIA St. d.	
27th Flow SAN FIGHEISCO, CA 99108	CAKLANO CA
e. Phone No.: (9/5) 392-5600	Phone No.: 4/5 392-5600
If owner of the generating facility differs from the generator, provide:	
g. Owner's Name: KA: C. M.	Owner's Phone No.: 9/5 392-5600
i. BFI WASTE CODE (A 405 082294	ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
Description of Waste: SOIL	k Quantity Units No. TYPE BA - 6 Mil. PLASTIC BAG or WRAP
GENERATOR'S CERTICICATION I LAND	O OTHER
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is no any applicable state law, has been properly described, classified and packaged, and applicable regulations; AND, if the weste is a treatment residue of a previously rest Restrictions. I certify and warrant that the waste has been leaded in accordance with a hazardous waste as defined by 40 CFR Part 261.	I is in proper condition for transportation according to P - POUNDS
Generator Authorized Agent Name	Shipment Date
Section II	Singulate Date /
TRANSPORTER I	TRANSPORTER []
a. Name: At Backles	h. Name:
b. Address: 352 Sulla sul.	i. Address:
- marling	
c. Driver Name / Title:	j. Driver Name/Title:
d. Phone No.: 229-41.33 e. Truck No.:	k. Phone No.: I. Truck Nb.:
f. Vehicle License No./State:	m. Vehicle License No./State:
Acknowledgement of Receipt of Materials.	Acknowledgement of Receipt of Materials.
5 Driver Sphane Black Shopment Bale	Oriver Signature Shipment Date
Section III DESTINATION Generate comp	The second district second sec
a. Site Name: Kriller Canyon	c. Phone No.:
b. Physical Address: 201 Bailey Rd.	d. Mailing Address:
Pittshurg, Ca	
et Discrepancy Indication Space:	
I hereby certify that the above named material has been accepted and to t	he best of my knowledge the foregoing is true and accurate.
Name of Authorized Agent Signature	OS2699
	te s.d. 1 (), Operator completes e.)
a. Operator's Name:	
:. Operator's * Address:	
Special Handling Instructions and additional information:	
PERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment packed, marked, and labeled, and are in all respects in proper condition for transport by	it are fully and accurately described above by proper shipping name and are classified,
	······································
Name and Address	Operator's * Signature Date
of Responsible Agency:	
Friable; Non-friable; Both % friable	% nonfriable
Operator refers to the company which owns, leases, operates, controls, or supervises the	a facility being demolished or renovated, or the demolition or renovation operation, or both.
. DETUD	260-7208 5/93

RETURN TO GENERATOR

NORTHALAMOUDO OF ELIAL WASTE & ASDESTON WATER LOT

If waste is asbestos waste, complete Sections 1, II, III and IV. If waste is NOT asbestos waste, complete only Sections 1, II and III.

No. 529867

Section I. GENERATOR GAL	and somption in all states in the second second second second
a. Generator Name: KA. C. MA b.	Generating Location: 29/7 Bloadway
c. Address: Go John K. KAD GO (ALTOINIA Sta	Address: 24/7 Broadway
29th Flow Sa FLONUSCO CA 99108	ORLIANO, CA
e. Phone No.: (4/5/39 2-5600)	Phone No.: (415) 392-5600
If owner of the generating facility differs from the generator, provide:	11000
	Owner's Phone No.: 4/5/392-5600
i. BFI WASTE CODE CA 405 0 PZZ94	ZZ/Z/Z4O Containers DM- METAL DRUM DP - PLASTIC DRUM B - BAG
j. Description of Waste: Sa/L	k, Quantity Units No. TYPE BA - 6 MIL. PLASTIC BAG or WRAP
the state of the s	T - TRUCK
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is a	not a hazardous waste as defined by 40 CFR Part 261 UNITS
or any applicable state law, has been properly described, classified and packaged, an applicable regulations; AND, if the waste is a treatment residue of a previously res	tricted hazardous waste subject to the Land Disposal Y - VARDS
Restrictions, I certify and warrant that the waste has been treated in accordance with	the requirements of 40 CFR Part 268 and is no longer M3 - CUBIC METERS
a hazardous waste as defined by 40 CFR Part 261.	Y' - CUBIC YARDS O - OTHER
- Sin Kac 1 20	\(\begin{align*} \begin{align*} \left \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Generator Authorized Agent Name Signature	Shipment Oate /
Section II	
JRANSPORJER I	TRANSPORTER II
a. Name: A. Backhe	h. Name:
b. Address: 352 Kills nee Martina	1
S. Autoria, 17 Walling	k. Address:
c. Driver Name/Title: A.S. BranaCom	
PRINTTYPE	J Driver Name/Title: PRINT/TYPE
d. Phone No.: 3077433 e. Truck No.: 1	k. Phone No.: 1. Truck No.:
f. Vehicle License No./State:	m, Vehicle License No./State:
Acknowledgement of Receipt of Materials.	Acknowledgement of Receipt of Materials.
A X 2 2 2 4 9 4	
Driver Signature Shipment Oate	Oriver Signature Shipment Date
Section III DESTINATION CLASS COM	offer the desiration and completes \$1.
a. Site Name: RFI KelleR CANY, and	c. Phone No.:
Oct Delege of	-
b. Physical Address: 70/ B4/129 Rd	d. Mailing Address:
P111120KG, (A. 44365	
e. Discrepancy Indication Space:	
I hereby certify that the above named material has been accepted and to	the best of my knowledge the foregoing is true and accurate.
\mathcal{L}	Marian
Name of Authorized Agent	Receipt Date
	ete a-d, 1, g, Operator completes e.)
Operator's* Name:	
. Operator's* Address:	
Special Handling Instructions and additional information:	
	nt are fully and accurately described above by proper shipping name and are classified,
packed, marked, and labeled, and are in all respects in proper condition for transport by	It are pury and accurately described above by proper shipping name and are classified, highway according to applicable international and government regulations.
Operator's Name & Title:	
Name and Address of Responsible Agency:	Operator's * Signisture Date
Friable; Non-friable; Both % friable	% nonfriable
Operator refers to the company which are a transfer to the company	`

or polytration or tellograming observing the properties of the deliminant or tellogramou observiou observiou observious

260-7208 5/93



NON-HAZARE US SPECIAL WASTE & SBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.

If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 517524

Section I. GENERAT	OR Control Control of Control
10 1/ 1/ 1/	
c. Address:	b. Generating Location:
C. Audiss.	d. Address: C) (a
e. Phone No.: If owner of the generating facility differs from the generator, provid	f. Phone No.:
g. Owner's Name: Ma Kaja and Kaja	16:
S. CALLET & LAND LOCAL COLOR CI	
i. BFI WASTE CODE	Containers DM. METAL DRUM
i Description of Waste: NON HOZON DOWS	DP - PLASTIC DRUM B - BAG
	or WRAP
CENEDATORIO CENTERATIONIO	Sudis VIII TO TRUCK
GENERATOR'S CERTIFICATION: I hereby certify that the above named nor any applicable state law, has been properly described, classified and parapplicable regulations; AND, if the waste is a treatment regulation of the control of the	material is not a hazardous waste as defined by 40 CFR Part 261 UNITS
applicable regulations; AND, if the waste is a treatment residue of a prev Restrictions, I certify and warrant that the waste has been treated in	viously restricted hazardous waste subject to the Land Disposel Y - YARDS
Restrictions, I certify and warrant that the waste has been treated in accord a hazardous waste as defined by 40 CFR Part 261.	dance with the requirements of 40 CFR Pert 268 and is no longer M3 - CUBIC METERS Y3 - CUBIC YARDS
Charlie Stiedman Charles	O OTHER
Generator Authorized Agent Name Signature	Shipment Date
Section II	
TRANSPORTER I	TRANSPORTER II
a. Name: TT.Y. ECCLOF FOUL	E h, Name:
D. Address: 552 6100 A.18.	i. Address:
Martinez (a. 8455	3
Driver Name/Title: AA MOVIO DOLLS	
Phone No.: 510 25-4135 e. Truck No.:	
Vehicle License No./State:	k. Phone No.: t. Truck No.:
Acknowledgement of Receipt of Materials.	m. Vehicle License No./State:
	Acknowledgement of Receipt of Materials.
Oriver Signature Shoment Day	
ection III	the Driver Signature Shipment Date
Site Name: Keller (Owyn)	
CO1 12 1 100	c. Phone No.:
With h	d. Mailing Address:
- Tribburg	
Discrepancy Indication Space:	
I hereby certify that the above named material has been accepted	and to the best of my knowledge the loregoing is true and accurate.
Name of Authorized Agent Signature	(A) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
ection IV ASBESTOS (General	or complete \$8.1 b. Operator completes \$1
Operator's Name:	and a character completes of
Operator's* Address:	b. Operator's* Phone No.:
Special Handling Instructions and additional Information:	
cked, marked, and labeled, and are in all respects in proper condition for tran	onsignment are fully and accurately described above by proper shipping name and are classified, applicable international and government regulations.
Operator's* Name & Title: Print/Type	and government legislators,
Print/Type Name and Address	Operator's * Signature Oate
of Responsible Agency:	
Friable: Non-friable; Both % friable	
Operator raters to the company which owns, leases, operates, controls, or supe	ervises the facility being demolished or renovated, or the demolition or renovation operation, or both.
	, an one operation is reintreason to the annual of DOID.

APPENDIX D

UNAUTHORIZED RELEASE FORMS

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT										
EME	RGENCY HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED ?	FOR LOCAL AGENCY USE ONLY								
	YES X NO YES X NO	I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.								
RSP(ORT DATE CASE #									
0	1 8 M O d 1 d 9 y 4 y	SIGNED	DATE							
	NAME OF INDIVIDUAL FILING REPORT PHONE	· \								
À	John N. Alt (51									
яероятер ву	REPRESENTING X OWNER/OPERATOR REGIONAL BOARD LOCAL AGENCY OTHER									
EP.	LOCAL AGENCY OTHER Epigene International									
	38750 Paseo Padre Parkway, Fremont, California, 94536									
E LE	NAME	CONTACT PERSON	PHONE							
Bisia Fi	X UNKNOWN		()							
RESPONSIBLE PARTY	ADDRESS									
ш	STREET	· · · · · · · · · · · · · · · · · · ·	STATE ZIP							
	FACILITY NAME (IF APPLICABLE)	OPERATOR	PHONE							
ŏ	unknown	<u></u>	1 1							
SITE LOCATION	2417 Broadway	72.1.2.1.0	ameda							
郞	CROSS STREET	спү	COUNTY ZIP							
	24th Street		:							
Ş.	LOCAL AGENCY AGENCY NAME	CONTACT PERSON	PHONE							
AENTIN NCIES	Alameda Co. Dept. of Environmental Heal	h Mr. Barney Chan	(510) 567-6700							
IMPLEMENTING AGENCIES	REGIONAL BOARD		PHONE							
			()							
SES	(1) NAME		QUANTITY LOST (GALLONS)							
SUBSTANCES INVOLVED	Unleaded gasoline X UNKNOWN									
OS 5			UNKNOWN							
EAY/ABATEMENT		ENTORY CONTROL SUBSURFACE MONITORING	NUISANCE CONDITIONS							
ATE	OM 7 M 2D 8D 9V 4V TANK TEST X TAN DATE DISCHARGE BEGAN	IK REMOVAL OTHER OTHER	ADD VI							
Y/AB		X REMOVE CONTENTS X CLOSE TANK & REMOVE								
	M M D D Y Y X UNKNOWN HAS DISCHARGE BEEN STOPPED ?	REPAIR TANK CLOSE TANK & FILL IN I								
DISCOV	YES NO IF YES, DATE	REPLACE TANK OTHER								
<u> </u>	SOURCE OF DISCHARGE CAUSE(S)	YI — — — — — — — — — — — — — — — — — — —								
SOURCE/ CAUSE	X TANK LEAK UNKNOWN D	/ERFILL AUPTURE/FAILURE	SPILL							
183	PIPING LEAK OTHER C	DRROSION UNKNOWN	OTHER							
CASE	CHECK ONE ONLY	· · · · · · · · · · · · · · · · · · ·								
3 ≿	X UNDETERMINED SOIL ONLY GROUNDWATER	DRINKING WATER - (CHECK ONLY IF WATER WELLS	HAVE ACTUALLY BEEN AFFECTED)							
= «	CHECK ONE ONLY									
CURRENT	NO ACTION TAKEN X PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED POLLUTION CHARACTERIZATION									
19 æ	REMEDIATION PLAN CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) CLEANUP UNDERWAY									
J.A.L.	CHECK APPROPRIATE ACTION(S)		ENHANCED BIO DEGRADATION (IT)							
	(SEE BACK FOR DETAILS) CAP SITE (CD) EXCAVATE & TREAT (E1)	PUMP & TREAT GROUNDWATER (GT)	REPLACE SUPPLY (RS)							
REMEDIAL ACTION	CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (No.		VENT SOIL (VS)							
<u>«</u>	VACUUM EXTRACT (VE) OTHER (OT) to be determined.									
										
,										
ENTS										
COMMENTS	_									

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT							
1-	RGENCY HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES X NO DRI DATE CASE #	FOR LOCAL AGENCY USE ONLY THEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.					
ο.	1 84 0 4 1 4 9 4 4 4	SKÄNED DATE					
	NAME OF INDIVIDUAL FILING REPORT PHONE	<u> </u>					
'n	John N. Alt (51)	0) 791-1986					
	REPRESENTING X OWNER/OPERATOR REGIONAL BOARD	COMPANY OR AGENCY NAME					
REPORTED	LOCAL AGENCY OTHER	Epigene International					
	STREET	Fremont, Cali	fornia, 94536				
RESPONSIBLE PARTY	NAME	CONTACT PERSON	PHONE				
ARTY	ADDRESS X UNKNOWN		()				
RESP	NO NECO						
F	STREET FACILITY NAME (IF APPLICABLE)	OPERATOR	STATE ZIP PHONE				
z	unknown) Signature	1)				
AT6	ADDDERG	<u> </u>					
SITE LOCATION	2417 Broadway	Oakland A	lameda				
SITE	CROSS STREET	GIT	COUNTY ZIP				
	24th Street						
S ING	LOCAL AGENCY AGENCY NAME	CONTACT PERSON	PHONE				
MENT	Alameda Co. Dept. of Environmental Healt	th Mr. Barney Chan	(510) 567-6700				
IMPLEMENTING AGENCIES	HEGIONAL BOARD		PHONE				
1-	(1) NAME		QUANTITY LOST (GALLONS)				
VED	Waste oil.		X UNKNOWN				
SUBSTANCES	(2)						
ઝ			UNKNOWN				
ENT		ENTORY CONTROL SUBSURFACE MONITORING	NUISANCE CONDITIONS				
IY/ABATEMENT	OM 7 M 20 8 0 9 4 V TANK TEST X TAN	IK REMOVAL OTHER METHOD USED TO STOP DISCHARGE (CHECK ALL THAT	- ADOLAN				
	ng ni pi ol ol ol ox onknown	X REMOVE CONTENTS X CLOSE TANK & REMOV	• •				
DISCOVER	HAS DISCHARGE BEEN STOPPED ?	-l	PLACE CHANGE PROCEDURE				
DSIG	YES NO IF YES, DATE MI DI DI VI	REPLACE TANK OTHER					
ij.,,	SOURCE OF DISCHARGE CAUSE(S)	Y					
SOURCE	X TANK LEAK UNKNOWN OV	/ERFILL RUPTURE/FAILURE	SPILL				
		DAROSION UNKNOWN	OTHER				
CASE	CHECK ONE ONLY						
	X UNDETERMINED SOIL ONLY GROUNDWATER CHECK ONE ONLY	DRINKING WATER - (CHECK ONLY IF WATER WELLS	S HAVE ACTUALLY BEEN AFFECTED)				
CURRENT	NO ACTION TAKEN X PRELIMINARY SITE ASSESSMENT	T WORKPLAN SUBMITTED TO POLLUTION CHA	ARACTERIZATION				
STAT	LEAK BEING CONFIRMED PRELIMINARY SITE ASSESSMENT		MONITORING IN PROGRESS				
0	REMEDIATION PLAN CASE CLOSED (CLEANUP COMPL	ETED OR UNNECESSARY) CLEANUP UNDE	RWAY				
_ ر	CHECK APPROPRIATE ACTION(S) INSERTION OF TAILS. EXCAVATE & DISPOSE (ED.	REMOVE FREE PRODUCT (FP)	ENHANCED BIO DEGRADATION (IT)				
RE1/JED.AL ACTION	CAP SITE (CD) EXCAVATE & TREAT (E1)	PUMP & TREAT GROUNDWATER (GT)	REPLACE SUPPLY (RS)				
AC AC	CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (NA		VENT SOIL (VS)				
	U VACUUM EXTRACT (VE) OTHER (OT) to be	determined.					
,TS			+				
COMMENTS							
8	•						
L :							