June 20, 2001
Job No. 43-26640

JUN 2 2 2001

Alameda County Healthcare Authority
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94205-6577

Attention: Susan L. Hugo
Hazardous Materials Specialist

Dear Ms. Hugo,

Powell Street Plaza
MTBE Sampling

On May 29, 2001 URS mobilized for sampling several existing monitoring wells for the purpose of determining if there was any MTBE present in groundwater near the location of the single gasoline tank formerly used by PIE. The tank was removed along with the other USTs in 1986.

There were 3 wells selected for sampling; MW-14, closest to the original tank location, MW-13, somewhat East of the former tank location, and MW-3, a well downgradient from either MW 13 or MW-14. MW-13 was sampled first and floating Hydrocarbons were encountered and that renders an MTBE sample worthless. We were unable to remove the threaded cover to sample MW-3. We were able to get a sample from MW-14 and that sample was sent to Curtis and Tompkins lab in Berkeley. The analytical method employed was 8260B. MTBE was not detected.

The results were received in our offices on June 18, 2001 and are attached to this letter. The results add evidence to the initial assumption that gasoline with MTBE added was probably not available the area until after the tank was removed.

I assume that this letter and the data package included satisfy the requirements for the Closure Summary. Should you have any questions please contact me at 415.342.3752.

Very truly yours,

URS CORPORATION

M. Lee Dodge, PE
Senior Civil Engineer

K:\WP\CD 01\MLD024.DOC

June 20, 2001
Job No. 43-26640

Alameda County Healthcare Authority
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94205-6577

Attention: Susan L. Hugo
Hazardous Materials Specialist

Dear Ms. Hugo,

Powell Street Plaza
MTBE Sampling

On May 29, 2001 URS mobilized for sampling several existing monitoring wells for the purpose of determining if there was any MTBE present in groundwater near the location of the single gasoline tank formerly used by PIE. The tank was removed along with the other USTs in 1986.

There were 3 wells selected for sampling; MW-14, closest to the original tank location, MW-13, somewhat East of the former tank location, and MW-3, a well downgradient from either MW 13 or MW-14. MW-13 was sampled first and floating Hydrocarbons were encountered and that renders an MTBE sample worthless. We were unable to remove the threaded cover to sample MW-3. We were able to get a sample from MW-14 and that sample was sent to Curtis and Tompkins lab in Berkeley. The analytical method employed was 8260B. MTBE was not detected.

The results were received in our offices on June 18, 2001 and are attached to this letter. The results add evidence to the initial assumption that gasoline with MTBE added was probably not available the area until after the tank was removed.

I assume that this letter and the data package included satisfy the requirements for the Closure Summary. Should you have any questions please contact me at 415.342.3752.

Very truly yours,

URS CORPORATION

M. Lee Dodge, PE
Senior Civil Engineer

K:\WP\CD\01MLD024.DOC

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

ANALYTICAL REPORT

Prepared for:

URS Corporation
221 Main St.
Suite 600
San Francisco, CA 94105

Date: 12-JUN-01
Lab Job Number: 152221
Project ID: N/A
Location: Emeryville

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by: _____
Project Manager

Reviewed by: _____
Operations Manager

This package may be reproduced only in its entirety.

Curtis & Tompkins, Ltd.

Purgeable Aromatics by GC/MS

Lab #:	152221	Location:	Emeryville
Client:	URS Corporation	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Field ID:	MW-14	Batch#:	63923
Lab ID:	152221-001	Sampled:	05/29/01
Matrix:	Water	Received:	05/29/01
Units:	ug/L	Analyzed:	05/30/01
Diln Fac:	1.000		

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	115	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	101	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Aromatics by GC/MS

Lab #:	152221	Location:	Emeryville
Client:	URS Corporation	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC146518	Batch#:	63923
Matrix:	Water	Analyzed:	05/29/01
Units:	ug/L		

Analyte	Result	RL
MTBE	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	101	80-115

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Purgeable Aromatics by GC/MS

Lab #:	152221	Location:	Emeryville
Client:	URS Corporation	Prep:	EPA 5030
Project#:	STANDARD	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	63923
Units:	ug/L	Analyzed:	05/29/01
Diln Fac:	1.000		

Type: BS Lab ID: QC146516

Analyte	Spiked	Result	%REC	Limits
MTBE	50.00	48.82	98	50-150

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	108	78-123
Toluene-d8	99	80-110
Bromofluorobenzene	96	80-115

Type: BSD Lab ID: QC146517

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
MTBE	50.00	45.12	90	50-150	8	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	104	78-123
Toluene-d8	100	80-110
Bromofluorobenzene	97	80-115

RPD= Relative Percent Difference

EXHIBIT #1

Signed Laboratory Reports

(Signed reports from Fireman's Fund and
Brown and Caldwell will be forwarded.)

APPENDIX D

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Earth Metrics	Client Project ID:	#7911WO, Paper Chase	Sampled: Apr 19, 1989
2855 Campus Drive	Matrix Descript:	Water	Received: Apr 21, 1989
San Mateo, CA 94403	Analysis Method:	EPA 5030/8015/8020	Analyzed: Apr 28, 1989
Attention: Gus Liljequist	First Sample #:	904-2139	Reported: May 1, 1989

TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons µg/L (ppb)	Benzene µg/L (ppb)	Toluene µg/L (ppb)	Ethyl Benzene µg/L (ppb)	Xylenes µg/L (ppb)
904-2139	1G	5,100	3.1	20	6.3	21
904-2140	2G	1,500	160	21	6.8	34
904-2141	3G	840	22	10	5.1	20
Detection Limits:		**30.0**	**0.3**	**0.3**	**0.3**	**0.3**

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard
Analytes reported as N D were not present above the stated limit of detection

SEQUOIA ANALYTICAL

Arthur G Burton
Laboratory Director

9042139 EAR <1>

SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Earth Metrics	Client Project ID:	Paper Chase, #7911 WO	Sampled:	Apr 28, 1989
2855 Campus Drive	Sample Descript:	Water, 4G	Received:	Apr 28, 1989
San Mateo, CA 94403				
Attention: Gus Liljequist	Lab Number:	904-3122 D	Reported:	May 2, 1989

E.P.A. PRIORITY POLLUTANTS: METALS

Analyte	Detection Limit µg/L (ppb)	Sample Results µg/L (ppb)
Antimony	500.0	N.D.
Arsenic	1.0	23
Beryllium	10.0	N.D.
Cadmium	10.0	N.D.
Chromium	5.0	21
Copper	10.0	53
Lead	5.0	61
Mercury	1.0	N.D.
Nickel	50.0	N.D.
Selenium	10.0	N.D.
Silver	10.0	40
Thallium	500.0	N.D.
Zinc	10.0	170

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

9043122.EAR <2>

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Earth Metrics	Client Project ID:	Paper Chase, #7911 WO	Sampled:	Apr 28, 1989
2855 Campus Drive	Sample Descript:	Water,4G	Received:	Apr 28, 1989
San Mateo, CA 94403	Analysis Method:	EPA 8080	Extracted:	May 2, 1989
Attention: Gus Liljequist	Lab Number:	904-1322 C	Analyzed:	May 2, 1989
			Reported:	May 2, 1989

ORGANOCHLORINE PESTICIDES AND PCB'S (EPA 8080)

Analyte	Detection Limit µg/L	Sample Results µg/L
Aldrin	0.10	N.D.
alpha-BHC	0.05	N.D.
beta-BHC	0.05	N.D.
delta-BHC	0.05	N.D.
gamma-BHC (Lindane)	0.40	N.D.
Chlordane	0.15	N.D.
4,4'-DDD	0.10	N.D.
4,4'-DDE	0.05	N.D.
4,4'-DDT	0.10	N.D.
Dieldrin	0.10	N.D.
Endosulfan I	0.15	N.D.
Endosulfan II	0.10	N.D.
Endosulfan sulfate	0.75	N.D.
Endrin	0.01	N.D.
Endrin aldehyde	0.25	N.D.
Heptachlor	0.10	N.D.
Heptachlor expoxide	0.10	N.D.
Methoxychlor	10.0	N.D.
Toxaphene	0.50	N.D.
PCB-1016	1.0	N.D.
PCB-1221	1.0	N.D.
PCB-1232	1.0	N.D.
PCB-1242	1.0	N.D.
PCB-1248	1.0	N.D.
PCB-1254	1.0	N.D.
PCB-1260	1.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

SEQUOIA ANALYTICAL
680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Earth Metrics	Client Project ID:	Paper Chase, #7911 WO	Sampled:	Apr 28, 1989
2855 Campus Drive	Matrix Descript:	Water	Received:	Apr 28, 1989
San Mateo, CA 94403	Analysis Method:	EPA 3510/8015	Analyzed:	May 1, 1989
Attention: Gus Liljequist	First Sample #:	904-3122 B	Reported:	May 2, 1989

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons µg/L (ppb)
904-3122	4G	250

Detection Limits:	50.0

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard.
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

9043122.EAR <1>

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
7911WO	PAPER CHASE

SAMPLERS: Signature G.T. Liljeguist

NO OF CONTAINERS

Analyses: TPH Gasoline w/BTEX 5030; TPH Diesel/EPA 3510; 13 Priority Metals; Organochlorine Herb + PCB

	STA NO	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO OF CONTAINERS	TPH Gasoline w/BTEX 5030	TPH Diesel/EPA 3510	13 Priority Metals	Organochlorine Herb + PCB				REMARKS
7911 -	1G	4/19/89	12:00			Emeryville, CA	1	X	X	X	X				Same for all 3.
7911 -	2G	"	"			" "	1	X	X	X	X				
7911 -	3G	"	"			" "	1	X	X	X	X				

Relinquished by: Signature	Date/Time	Received by: Signature	Date/Time	REMARKS:
G.T. Liljeguist	4/20 17:30	[signature]	4/20/89 5:30	Analyses on Liquid only
Relinquished by: Signature	Date/Time	Received by: Signature	Date/Time	
Relinquished by: Signature	Date/Time	Received by: Signature	Date/Time	

Earth Metrics Incorporated
2855 Campus Drive, Suite 300
San Mateo, CA 94403
(415) 578-9900

CHAIN OF CUSTO[illegible] CORD

PROJ. NO.	PROJECT NAME
7911WE	PACIFIC PURCHASE

SAMPLERS: Signature
G. J. Ligon

STA NO	DATE 1989	TIME	COMP.	GRAB	STATION LOCATION	NO OF CONTAINERS	TPH Diesel EPA 3510	13 Priority Metals	Organochlorine Pest + PCB EPA 8080	REMARKS
AG	4/28	14:15			Groundwater	4	X	X	X	from MW-18 existing well MP 6/14/89

Relinquished by:Signature	Date/Time	Received by:Signature	Date/Time
G. J. Ligon	4/28 14:20	Lawton S. Saunders	4/28 14:20
Relinquished by:Signature	Date/Time	Received by:Signature	Date/Time
Relinquished by:Signature	Date/Time	Received by:Signature	Date/Time

REMARKS:

Earth Metrics Incorporated
2855 Campus Drive, Suite 300
San Mateo, CA 94403
(415) 578-9900

ANATEC LABORATORIES INC.

435 Tesconi Circle • Santa Rosa, California 95401 • 707-526-7200

Mr. Paul Miller
Earth Metrics, Inc.
895 Cowan Road
Burlingame, CA 94010

September 22, 1987
ANATEC Log No: **1117** (1-7)
Series No: 366/007
Client Ref: P.O. #02738

Subject: Analysis of Seven Soil Samples Identified as "South of P.I.E.," Received on August 31, 1987.

Dear Mr. Miller:

Analysis of the samples referenced above has been completed. This report is written in confirmation of results transmitted verbally on September 21, 1987.

Samples were delivered to the laboratory under documented chain-of-custody. On receipt, sample custody was transferred to ANATEC sample control personnel who subsequently documented receipt and condition of the samples and placed them in secured storage at 4°C until analysis commenced.

The samples were analyzed to determine extractable organic halogen content. The method employed was "Determination of EOX Contents of Solids" (by) Riggin, R.M. et al., in "Development and Evaluation of Methods for Total Organic Halide and Purgeable Organic Halide in Wastewater," U.S. EPA 600/54-84-008, January 1984.

Briefly, the method involves the extraction of organic halogens from soil using ethyl acetate. An aliquot of the ethyl acetate is injected into a reaction chamber to convert organic halogens to halogen acids. The resulting acid is quantitated by micro-coulometric titration. Analysis of samples is accompanied by various quality control activities. These include method blanks, sample replicates and sample spikes.

Table 1 presents summarized analytical testing results. Attached is the sample custody document. Please feel welcome to contact us should you have questions regarding procedures or results.

Submitted by:

John Henbrow-Beach
Project Chemist

Approved by:

Greg Anderson, Director
Analytical Laboratories

/mh

Enclosure: Sample custody document

TABLE 1. ANALYTICAL RESULTS OF SEVEN SOIL SAMPLES IDENTIFIED AS "SOUTH OF P.I.E.," RECEIVED ON AUGUST 31, 1987.

Lab No.	Descriptor	EOX (ppm)[a]
1117-1	N2 08/18/87 1800, South of Convey at 8'	<25
1117-2	N4 08/18/87 1800, Tip yard	<25
1117-3	N5 08/28/87 0900, Allied 5'	<25
1117-4	N6 08/28/87 1000, N.E. Corner 5'	<25
1117-5	N7 08/28/87 1030, South R.R. 8'	34
1117-6	N9 08/28/87 1200, Pumps 10'	42
1117-7	N10 08/28/87 1200, Mid R.R. 9'	83

[a]EOX--Extractable organic halogens (parts-per-million).

TABLE 1. SUMMARIZED ANALYTICAL RESULTS FOR ONE SOIL SAMPLE IDENTIFIED AS "#N-10 8/28/87 9' MID RR SOUTH PIE" RECEIVED ON AUGUST 31, 1987; INSTRUCTIONS RECEIVED SEPTEMBER 22, 1987

Parameter	MDL[a] (ug/Kg)	Results (ug/Kg)[b] (1261-1)
Aldrin	1,000	ND[c]
alpha-BHC	1,000	ND
beta-BHC	2,000	ND
gamma-BHC	1,000	ND
delta-BHC	2,000	ND
Chlordane	10,000	ND
4,4'-DDD	2,000	ND
4,4'-DDE	2,000	ND
4,4'-DDT	2,000	ND
Dieldrin	1,000	ND
Endosulfan I	1,000	ND
Endosulfan II	1,000	ND
Endosulfan Sulfate	2,000	ND
Endrin	1,000	ND
Endrin aldehyde	2,000	ND
Heptachlor	1,000	ND
Heptachlor epoxide	1,000	ND
Toxaphene	10,000	ND
PCB-1016	1,000	ND
PCB-1221	1,000	ND
PCB-1232	1,000	ND
PCB-1242	1,000	ND
PCB-1248	1,000	ND
PCB-1254	1,000	2,300
PCB-1260	1,000	ND

[a]MDL--Method detection limit.
[b]ug/Kg--Data are expressed in units of micrograms analyte per kilogram sample, as-received basis.
[c]ND--Not detected at the listed method detection limit.

ANATEC LABORATORIES INC.

435 Tesconi Circle
Santa Rosa, CA 95401
707-526-7200
Fax 707-526-9623

Paul Miller
Earth Metrics, Inc.
859 Cowan Road
Burlingame, CA 94010

September 28, 1987
ANATEC Log No. **1261** (-1)
Series No: 366/007
Client Ref: (V) P. Miller

Subject: ASAP Priority Analysis of One Sample Identified as "N-10 8/28/87 9' Mid RR South PIE" Received on August 31, 1987.

Dear Mr. Miller:

Analysis of the sample referenced above has been completed. This report is written in confirmation of results transmitted verbally on September 24 and 25, 1987. The sample was one of a set of samples submitted August 31, 1987. Subsequent to the report for that set of samples, additional work was requested for the above sample on September 22, 1987.

The sample was re-logged in and prepared for organochlorine pesticides and polychlorinated biphenyls (PCBs) measurements. A portion of sample was extracted three successive times with methylene chloride in the presence of ultrasonic agitation. The extracts were combined, passed through a column of partially-deactivated Florisil PR to remove method intereferences, and reduced in volume by evaporation of the solvent. The extract was then analyzed by gas chromatography with electron capture detection in accord with Method 8080, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. EPA, SW-846, 3rd edition, revised 1986. Qualitative and quantitative interpretation of sample chromatograms was based on analyses of analytical-grade pesticide and PCB standards.

Attached as Table 1 are summarized results. Please feel welcome to contact us should you have questions regarding procedures or results.

Submitted by:

for
John Hembrow-Beach
Project Chemist

Approved by:

Greg Anderson, Director
Analytical Laboratories

/hs

1117

earth metrics incorporated

CHAIN OF CUSTODY

Client Name: MARTIN COMPANY

Project Name: South of PIE Job Number: 7023

Project Manager: PAUL MILLER Day Phone: 415-697-7103

Sample Collector: PAUL MILLER Day Phone: 415-697-7103

Sample #	Date	Time	Type of Sample	Description
N2	Aug 18,87	6 PM	Soil	South Conveyor 8'
N4	Aug 18,87	6 PM	"	IFP YARD 9'
N5	Aug 28,87	9 AM	"	Allied 5'
N6	"	10 AM	"	NE CORNER 5'
N7	"	10:30 AM	"	South RR 8'
N9	"	12 PM	"	Pumps 10'
N10	"	12 PM	"	Mid RR 9'

	Date	Time	Signature	Company
Relinquished by	8/31/87	3:34	Paul Miller	EARTH METRICS
Received by	8/31/87	17:41	[illegible]	[illegible]
Relinquished by	8/31/87	17:45	[illegible]	Anatec
Received by	8/31/87	1750	[illegible]	ANATEC
Relinquished by				
Received by				
Relinquished by				
Received by				

859 COWAN ROAD, BURLINGAME, CALIFORNIA 94010 (415) 697 7103

Trace Analysis Laboratory, Inc.
3423 Investment Boulevard, #8 • Hayward, California 94545 *(415) 783-6960*

DATE: 9/30/87

LOG NO.: 5237

DATE SAMPLED: 9/25/87

DATE RECEIVED: 9/25/87

CUSTOMER: Earth Metrics Incorporated

REQUESTER: Paul Miller

PROJECT: Emeryville

		Sample Type: Soil			
		P4.7		P10.8	
Method and Constituent	Units	Concentration	Detection Limit	Concentration	Detection Limit
EPA Method 8010:					
Benzyl chloride	mg/kg	< 0.1	0.1	< 0.1	0.1
Bis (2-chloroethoxy) methane	mg/kg	< 0.1	0.1	< 0.1	0.1
Bis (2-chloroisopropyl) ether	mg/kg	< 0.1	0.1	< 0.1	0.1
Bromobenzene	mg/kg	< 0.1	0.1	< 0.1	0.1
Bromodichloromethane	mg/kg	< 0.1	0.1	< 0.1	0.1
Bromoform	mg/kg	< 0.1	0.1	< 0.1	0.1
Bromomethane	mg/kg	< 0.1	0.1	< 0.1	0.1
Carbon tetrachloride	mg/kg	< 0.1	0.1	< 0.1	0.1
Chloracetaldehyde	mg/kg	< 0.1	0.1	< 0.1	0.1
Chloral	mg/kg	< 0.1	0.1	< 0.1	0.1
Chlorobenzene	mg/kg	< 0.1	0.1	< 0.1	0.1
Chloroethane	mg/kg	< 0.1	0.1	< 0.1	0.1
Chloroform	mg/kg	< 0.1	0.1	< 0.1	0.1
1-Chlorohexane	mg/kg	< 0.1	0.1	< 0.1	0.1
2-Chloroethyl vinyl ether	mg/kg	< 0.1	0.1	< 0.1	0.1
Chloromethane	mg/kg	< 0.1	0.1	< 0.1	0.1

DATE: 9/30/87
LOG NO.: 5237
DATE SAMPLED: 9/25/87
DATE RECEIVED: 9/25/87
PAGE: Two

Method and Constituent	Units	Sample Type: Soil P4.7 Concentration	P4.7 Detection Limit	P10.8 Concentration	P10.8 Detection Limit
EPA Method 8010 (continued):					
Chloromethyl methyl ether	mg/kg	< 0.1	0.1	< 0.1	0.1
Chlorotoluene	mg/kg	< 0.1	0.1	< 0.1	0.1
Dibromochloromethane	mg/kg	< 0.1	0.1	< 0.1	0.1
Dibromomethane	mg/kg	< 0.1	0.1	< 0.1	0.1
1,2-Dichlorobenzene	mg/kg	< 0.1	0.1	< 0.1	0.1
1,3-Dichlorobenzene	mg/kg	< 0.1	0.1	< 0.1	0.1
1,4-Dichlorobenzene	mg/kg	< 0.1	0.1	< 0.1	0.1
Dichlorodifluoromethane	mg/kg	< 0.1	0.1	< 0.1	0.1
1,1-Dichloroethane	mg/kg	< 0.1	0.1	< 0.1	0.1
1,2-Dichloroethane	mg/kg	< 0.1	0.1	< 0.1	0.1
1,1-Dichloroethylene	mg/kg	< 0.1	0.1	< 0.1	0.1
trans-1,2-Dichloroethylene	mg/kg	< 0.1	0.1	< 0.1	0.1
Dichloromethane	mg/kg	< 0.1	0.1	< 0.1	0.1
1,2-Dichloropropane	mg/kg	< 0.1	0.1	< 0.1	0.1
1,3-Dichloropropylene	mg/kg	< 0.1	0.1	< 0.1	0.1
1,1,2,2-Tetrachloroethane	mg/kg	< 0.1	0.1	< 0.1	0.1
1,1,1,2-Tetrachloroethane	mg/kg	< 0.1	0.1	< 0.1	0.1
Tetrachloroethylene	mg/kg	< 0.1	0.1	< 0.1	0.1
1,1,1-Trichloroethane	mg/kg	< 0.1	0.1	< 0.1	0.1
1,1,2-Trichloroethane	mg/kg	< 0.1	0.1	< 0.1	0.1
Trichloroethylene	mg/kg	< 0.1	0.1	< 0.1	0.1
Trichlorofluoromethane	mg/kg	< 0.1	0.1	< 0.1	0.1
Trichloropropane	mg/kg	< 0.1	0.1	< 0.1	0.1
Vinyl chloride	mg/kg	< 0.1	0.1	< 0.1	0.1

DATE: 9/30/87
LOG NO.: 5237
DATE SAMPLED: 9/25/87
DATE RECEIVED: 9/25/87
PAGE: Three

Method and Constituent	Units	Sample Type: Soil P11.6 Concentration	P11.6 Detection Limit	P13.8 Concentration	P13.8 Detection Limit
EPA Method 8010:					
Benzyl chloride	mg/kg	< 0.1	0.1	< 0.1	0.1
Bis (2-chloroethoxy) methane	mg/kg	< 0.1	0.1	< 0.1	0.1
Bis (2-chloroisopropyl) ether	mg/kg	< 0.1	0.1	< 0.1	0.1
Bromobenzene	mg/kg	< 0.1	0.1	< 0.1	0.1
Bromodichloromethane	mg/kg	< 0.1	0.1	< 0.1	0.1
Bromoform	mg/kg	< 0.1	0.1	< 0.1	0.1
Bromomethane	mg/kg	< 0.1	0.1	< 0.1	0.1
Carbon tetrachloride	mg/kg	< 0.1	0.1	< 0.1	0.1
Chloracetaldehyde	mg/kg	< 0.1	0.1	< 0.1	0.1
Chloral	mg/kg	< 0.1	0.1	< 0.1	0.1
Chlorobenzene	mg/kg	< 0.1	0.1	< 0.1	0.1
Chloroethane	mg/kg	< 0.1	0.1	< 0.1	0.1
Chloroform	mg/kg	< 0.1	0.1	< 0.1	0.1
1-Chlorohexane	mg/kg	< 0.1	0.1	< 0.1	0.1
2-Chloroethyl vinyl ether	mg/kg	< 0.1	0.1	< 0.1	0.1
Chloromethane	mg/kg	< 0.1	0.1	< 0.1	0.1
Chloromethyl methyl ether	mg/kg	< 0.1	0.1	< 0.1	0.1
Chlorotoluene	mg/kg	< 0.1	0.1	< 0.1	0.1
Dibromochloromethane	mg/kg	< 0.1	0.1	< 0.1	0.1
Dibromomethane	mg/kg	< 0.1	0.1	< 0.1	0.1
1,2-Dichlorobenzene	mg/kg	< 0.1	0.1	< 0.1	0.1
1,3-Dichlorobenzene	mg/kg	< 0.1	0.1	< 0.1	0.1
1,4-Dichlorobenzene	mg/kg	< 0.1	0.1	< 0.1	0.1
Dichlorodifluoromethane	mg/kg	< 0.1	0.1	< 0.1	0.1
1,1-Dichloroethane	mg/kg	< 0.1	0.1	< 0.1	0.1
1,2-Dichloroethane	mg/kg	< 0.1	0.1	< 0.1	0.1

DATE: 9/30/87
LOG NO.: 5237
DATE SAMPLED: 9/25/87
DATE RECEIVED: 9/25/87
PAGE: Four

Method and Constituent	Units	Sample Type: Soil P11.6 Concentration	P11.6 Detection Limit	P13.8 Concentration	P13.8 Detection Limit
EPA Method 8010 (continued):					
1,1-Dichloroethylene	mg/kg	< 0.1	0.1	< 0.1	0.1
trans-1,2-Dichloroethylene	mg/kg	< 0.1	0.1	< 0.1	0.1
Dichloromethane	mg/kg	< 0.1	0.1	< 0.1	0.1
1,2-Dichloropropane	mg/kg	< 0.1	0.1	< 0.1	0.1
1,3-Dichloropropylene	mg/kg	< 0.1	0.1	< 0.1	0.1
1,1,2,2-Tetrachloroethane	mg/kg	< 0.1	0.1	< 0.1	0.1
1,1,1,2-Tetrachloroethane	mg/kg	< 0.1	0.1	< 0.1	0.1
Tetrachloroethylene	mg/kg	< 0.1	0.1	< 0.1	0.1
1,1,1-Trichloroethane	mg/kg	< 0.1	0.1	< 0.1	0.1
1,1,2-Trichloroethane	mg/kg	< 0.1	0.1	< 0.1	0.1
Trichloroethylene	mg/kg	< 0.1	0.1	< 0.1	0.1
Trichlorofluoromethane	mg/kg	< 0.1	0.1	< 0.1	0.1
Trichloropropane	mg/kg	< 0.1	0.1	< 0.1	0.1
Vinyl chloride	mg/kg	< 0.1	0.1	< 0.1	0.1

DATE: 9/30/87
LOG NO.: 5237
DATE SAMPLED: 9/25/87
DATE RECEIVED: 9/25/87
PAGE: Five

Method and Constituent	Units	Sample Type: Soil P16.9 Concentration	Detection Limit
EPA Method 8010:			
Benzyl chloride	mg/kg	< 0.1	0.1
Bis (2-chloroethoxy) methane	mg/kg	< 0.1	0.1
Bis (2-chloroisopropyl) ether	mg/kg	< 0.1	0.1
Bromobenzene	mg/kg	< 0.1	0.1
Bromodichloromethane	mg/kg	< 0.1	0.1
Bromoform	mg/kg	< 0.1	0.1
Bromomethane	mg/kg	< 0.1	0.1
Carbon tetrachloride	mg/kg	< 0.1	0.1
Chloracetaldehyde	mg/kg	< 0.1	0.1
Chloral	mg/kg	< 0.1	0.1
Chlorobenzene	mg/kg	< 0.1	0.1
Chloroethane	mg/kg	< 0.1	0.1
Chloroform	mg/kg	< 0.1	0.1
1-Chlorohexane	mg/kg	< 0.1	0.1
2-Chloroethyl vinyl ether	mg/kg	< 0.1	0.1
Chloromethane	mg/kg	< 0.1	0.1
Chloromethyl methyl ether	mg/kg	< 0.1	0.1
Chlorotoluene	mg/kg	< 0.1	0.1
Dibromochloromethane	mg/kg	< 0.1	0.1
Dibromomethane	mg/kg	< 0.1	0.1
1,2-Dichlorobenzene	mg/kg	< 0.1	0.1
1,3-Dichlorobenzene	mg/kg	< 0.1	0.1
1,4-Dichlorobenzene	mg/kg	< 0.1	0.1
Dichlorodifluoromethane	mg/kg	< 0.1	0.1
1,1-Dichloroethane	mg/kg	< 0.1	0.1
1,2-Dichloroethane	mg/kg	< 0.1	0.1

DATE: 9/30/87
LOG NO.: 5237
DATE SAMPLED: 9/25/87
DATE RECEIVED: 9/25/87
PAGE: Six

Method and Constituent	Units	Sample Type: Soil P16.9 Concentration	Detection Limit
EPA Method 8010 (continued):			
1,1-Dichloroethylene	mg/kg	< 0.1	0.1
trans-1,2-Dichloroethylene	mg/kg	< 0.1	0.1
Dichloromethane	mg/kg	< 0.1	0.1
1,2-Dichloropropane	mg/kg	< 0.1	0.1
1,3-Dichloropropylene	mg/kg	< 0.1	0.1
1,1,2,2-Tetrachloroethane	mg/kg	< 0.1	0.1
1,1,1,2-Tetrachloroethane	mg/kg	< 0.1	0.1
Tetrachloroethylene	mg/kg	< 0.1	0.1
1,1,1-Trichloroethane	mg/kg	< 0.1	0.1
1,1,2-Trichloroethane	mg/kg	< 0.1	0.1
Trichloroethylene	mg/kg	< 0.1	0.1
Trichlorofluoromethane	mg/kg	< 0.1	0.1
Trichloropropane	mg/kg	< 0.1	0.1
Vinyl chloride	mg/kg	< 0.1	0.1

DATE: 9/30/87
LOG NO.: 5237
DATE SAMPLED: 9/25/87
DATE RECEIVED: 9/25/87
PAGE: Seven

Method and Constituent	Units	Detection Limit	Sample Type: Soil P10.8 Concentration	Sample Type: Soil P13.8 Concentration
EPA Method 8080 for PCB:				
Aroclor 1016	mg/kg	0.02	< 0.02	< 0.02
Aroclor 1221	mg/kg	0.02	< 0.02	< 0.02
Aroclor 1232	mg/kg	0.02	< 0.02	< 0.02
Aroclor 1242	mg/kg	0.02	< 0.02	< 0.02
Aroclor 1248	mg/kg	0.02	< 0.02	< 0.02
Aroclor 1254	mg/kg	0.02	< 0.02	< 0.02
Aroclor 1260	mg/kg	0.02	< 0.02	< 0.02

Hugh R. McLean
Supervisory Chemist

HRM:mln

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

log 5237

CHAIN OF CUSTODY RECORD

PROJ. NO. 7023.W1 | PROJECT NAME EMERYVILLE, CA

SAMPLERS (Signature) [signature]

STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS							REMARKS
P9.3	9/25/87	09 15		✓		1							Soil
P9.6				✓		1							
P9.9				✓		1							
P10.4				✓		1							
P10.8				✓		1							
P11.6		10:45		✓		1							
P4.4		11:25		✓		1							
P4.7				✓		1							
Q26.4		12:10		✓		1							
P18.4				✓		1							
P23.1		13:00		✓		1							
P22.3				✓		1							
P28.2				✓		1							
P29.3				✓		1							
P19.3	9/25/87			✓		1							

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	9/25/87 5:17 PM	[signature], TAL			
Relinquished by: (Signature)	**Date / Time**	**Received by: (Signature)**	**Relinquished by: (Signature)**	**Date / Time**	**Received by: (Signature)**
Relinquished by: (Signature)	**Date / Time**	**Received for Laboratory by: (Signature)**	**Date / Time**	**Remarks**	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3-0605

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

CHAIN OF CUSTODY RECORD

log 5237

PROJ NO	PROJECT NAME
7023-W1	EMERYVILLE, CA

SAMPLERS (Signature): Mark McLaughlin

STA NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	REMARKS
P13.A	9/24/87	15 00		✓		1	
P13.8				✓		1	
P16.5				✓		1	
P16-9	9/25/87	15·55		✓		1	

Relinquished by (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
M McLaughlin	9/25/87 5:17 PM	Tom DeVaney, TAL			
Relinquished by (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3-0605

Trace Analysis Laboratory, Inc.
3423 Investment Boulevard, #8 • Hayward, California 94545 *(415) 783-6960*

TAL

DATE: 10/14/87
LOG NO.: 5286
DATE SAMPLED: 8/28/87
DATE RECEIVED: 10/9/87

CUSTOMER: Earth Metrics Incorporated

REQUESTER: Paul Miller

PROJECT: PCB

Sample Type: Soil

Method and Constituent	Units	N7, 8/28/87 Concentration	N7, 8/28/87 Detection Limit	N9, 8/28/87 Concentration	N9, 8/28/87 Detection Limit
EPA Method 8080 for PCB:					
Aroclor 1016	mg/kg	< 0.1	0.1	< 0.1	0.1
Aroclor 1221	mg/kg	< 0.1	0.1	< 0.1	0.1
Aroclor 1232	mg/kg	< 0.1	0.1	< 0.1	0.1
Aroclor 1242	mg/kg	0.63	0.1	< 0.1	0.1
Aroclor 1248	mg/kg	< 0.1	0.1	< 0.1	0.1
Aroclor 1254	mg/kg	3.8	0.1	< 0.1	0.1
Aroclor 1260	mg/kg	< 0.1	0.1	< 0.1	0.1

Method and Constituent	Units	N10, 8/28/87 Concentration	N10, 8/28/87 Detection Limit
Aroclor 1016	mg/kg	< 0.1	0.1
Aroclor 1221	mg/kg	< 0.1	0.1
Aroclor 1232	mg/kg	< 0.1	0.1
Aroclor 1242	mg/kg	< 0.1	0.1
Aroclor 1248	mg/kg	< 0.1	0.1
Aroclor 1254	mg/kg	0.18	0.1
Aroclor 1260	mg/kg	< 0.1	0.1

Hugh R. McLean
Supervisory Chemist

HRM:tlh

Trace Analysis Laboratory, Inc.
3423 Investment Boulevard, #8 • Hayward, California 94545 *(415) 783-6960*

TAL

DATE: 10/14/87
LOG NO.: 5237A
DATE SAMPLED: 9/25/87
DATE RECEIVED: 9/25/87

CUSTOMER: Earth Metrics Incorporated

REQUESTER: Paul Miller

PROJECT: Emeryville, CA

Sample Type: Soil

Method and Constituent	Units	P16.5 Concentration	P16.5 Detection Limit	P22.3 Concentration	P22.3 Detection Limit
EPA Method 8080 for PCB:					
Aroclor 1016	mg/kg	< 0.1	0.1	< 0.1	0.1
Aroclor 1221	mg/kg	< 0.1	0.1	< 0.1	0.1
Aroclor 1232	mg/kg	< 0.1	0.1	< 0.1	0.1
Aroclor 1242	mg/kg	< 0.1	0.1	2.7	0.1
Aroclor 1248	mg/kg	< 0.1	0.1	< 0.1	0.1
Aroclor 1254	mg/kg	< 0.1	0.1	5.3	0.1
Aroclor 1260	mg/kg	< 0.1	0.1	< 0.1	0.1

		P23.1 Concentration	P23.1 Detection Limit
Aroclor 1016	mg/kg	< 0.1	0.1
Aroclor 1221	mg/kg	< 0.1	0.1
Aroclor 1232	mg/kg	< 0.1	0.1
Aroclor 1242	mg/kg	3.8	0.1
Aroclor 1248	mg/kg	< 0.1	0.1
Aroclor 1254	mg/kg	11	0.1
Aroclor 1260	mg/kg	< 0.1	0.1

Hugh R. McLean
Supervisory Chemist

HRM:tlh

SUPERIOR ANALYTICAL LABORATORY, INC.
1385 FAIRFAX ST., STE D • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 50108
CLIENT: Earth Metrics, Inc.
CLIENT ID: Marketplace

DATE RECEIVED: 1/18/88
DATE REPORTED: 1/22/88
JOB NO.: 7506.10

ANALYSIS FOR PCB
by Modified Method 8080

Sample Identification	Concentration (ppm)
Monitoring Well 4th N.E. corner of Sale Marketplace	ND < 1
Boring B-3 South of PIE Emeryville	ND < 0.1

OUTSTANDING QUALITY AND SERVICE

FIREMAN'S FUND
INSURANCE COMPANIES
Environmental Laboratory
3700 Lakeville Highway
Petaluma, CA 94952
(707) 778-4160

ENVIRONMENTAL LABORATORY

Paul Miller
Earth Metrics
859 Cowan Road
Burlingame, CA 94010

L A B O R A T O R Y R E S U L T S

Supply/Order No.:
Client's Survey No.:
Contract/PO No.: 02739
Release No.:

Laboratory Job No.: 872889
Date Received: 08/31/87
Date Reported: 09/17/87
Client Code: EART2

ASSAY:pH(ISE-EPA 150.1)

LABNO	SMPLNO	pH
18357	N-1	8.95
18358	N-2	10.00
18359	N-3	10.90
18360	N-4	10.35
18361	N-5	10.95
18362	N-6	11.65
18363	N-7	10.85
18364	N-8	7.95
18365	N-9	8.4
18366	N-10	10.70

ANALYST:DAVE BUSCH

AUDIT COPY

451844 2 86

FIREMAN'S FUND
INSURANCE COMPANIES
Environmental Laboratory
3700 Lakeville Highway
Petaluma, CA 94952
(707) 778-4160

ENVIRONMENTAL LABORATORY

L A B O R A T O R Y R E S U L T S

Laboratory Job No.: 872889

ASSAY:METAL SCAN BY ICP(EPA 6010)

LABNO	SMPLNO-ID	RESULTS			DET. LIM.
18357	N1 SOIL			CA TTLC	
	AG	<0.4	MG/KG	500.000	0.4
	AS	19.2	MG/KG	500.000	4.0
	BA	162.9	MG/KG	10000.000	2.0
	BE	0.8	MG/KG	75.000	0.2
	CD	4.32	MG/KG	100.000	0.10
	CO	6.0	MG/KG	8000.000	0.4
	CR	66.9	MG/KG	2500.000	0.4
	CU	59.3	MG/KG	2500.000	0.2
	HG	<7.3	MG/KG	20.000	7.3
	MN	547.0	MG/KG		0.2
	MO	DETECTED	MG/KG	3500.000	1.0
	NI	33.5	MG/KG	2000.000	1.0
	PB	94.5	MG/KG	1000.000	1.0
	SB	<10.0	MG/KG	500.000	10.0
	SE	<4.0	MG/KG	100.000	4.0
	TL	<10.0	MG/KG	700.000	10.0
	V	31.7	MG/KG	2400.000	1.0
	ZN	2138.2	MG/KG	5000.000	1.0
18358	N2 SOIL			CA TTLC	
	AG	DETECTED	MG/KG	500.000	0.4
	AS	19.3	MG/KG	500.000	4.0
	BA	176.2	MG/KG	10000.000	2.0
	BE	1.2	MG/KG	75.000	0.2
	CD	4.29	MG/KG	100.000	0.10
	CO	6.0	MG/KG	8000.000	0.4
	CR	124.1	MG/KG	2500.000	0.4
	CU	45.0	MG/KG	2500.000	0.2
	HG	<4.9	MG/KG	20.000	4.9
	MN	1796.4	MG/KG		0.2
	MO	<1.0	MG/KG	3500.000	1.0

AUDIT COPY

FIREMAN'S FUND
INSURANCE COMPANIES
Environmental Laboratory
3700 Lakeville Highway
Petaluma, CA 94952
(707) 778-4160

ENVIRONMENTAL LABORATORY

L A B O R A T O R Y R E S U L T S

Laboratory Job No.: 872889

LABNO	SMPLNO-ID		RESULTS			DET. LIM.
		NI	29.0	MG/KG	2000.000	1.0
		PB	98.2	MG/KG	1000.000	1.0
		SB	<10.0	MG/KG	500.000	10.0
		SE	<4.0	MG/KG	100.000	4.0
		TL	<10.0	MG/KG	700.000	10.0
		V	46.3	MG/KG	2400.000	1.0
		ZN	280.6	MG/KG	5000.000	1.0
18359	N3 SOIL				CA TTLC	
		AG	DETECTED	MG/KG	500.000	0.4
		AS	20.0	MG/KG	500.000	4.0
		BA	422.7	MG/KG	10000.000	2.0
		BE	1.4	MG/KG	75.000	0.2
		CD	18.30	MG/KG	100.000	0.10
		CO	8.5	MG/KG	8000.000	0.4
		CR	1119.6	MG/KG	2500.000	0.4
		CU	844.2	MG/KG	2500.000	0.2
		HG	<6.9	MG/KG	20.000	6.9
		MN	9970.2	MG/KG		0.2
		MO	8.9	MG/KG	3500.000	1.0
		NI	83.7	MG/KG	2000.000	1.0
		PB	212.2	MG/KG	1000.000	1.0
		SB	<10.0	MG/KG	500.000	10.0
		SE	<40.0	MG/KG	100.000	40.0
		TL	42.8	MG/KG	700.000	10.0
		V	60.8	MG/KG	2400.000	1.0
		ZN	5320.4	MG/KG	5000.000*	1.0
18361	N5 SOIL				CA TTLC	
		AG	DETECTED	MG/KG	500.000	0.4
		AS	DETECTED	MG/KG	500.000	4.0
		BA	264.5	MG/KG	10000.000	2.0
		BE	1.7	MG/KG	75.000	0.2
		CD	14.50	MG/KG	100.000	0.10
		CO	3.6	MG/KG	8000.000	0.4
		CR	2228.1	MG/KG	2500.000	0.4
		CU	166.4	MG/KG	2500.000	0.2
		HG	<6.3	MG/KG	20.000	6.3
		MN	13552.2	MG/KG		0.2
		MO	6.0	MG/KG	3500.000	1.0

AUDIT COPY

FIREMAN'S FUND
INSURANCE COMPANIES
Environmental Laboratory
3700 Lakeville Highway
Petaluma, CA 94952
(707) 778-4160

ENVIRONMENTAL LABORATORY

L A B O R A T O R Y R E S U L T S

Laboratory Job No.: 872889

LABNO	SMPLNO-ID	RESULTS			DET. LIM.
	NI	29.3	MG/KG	2000.000	1.0
	PB	241.8	MG/KG	1000.000	1.0
	SB	<10.0	MG/KG	500.000	10.0
	SE	<19.1	MG/KG	100.000	19.1
	TL	DETECTED	MG/KG	700.000	10.0
	V	81.3	MG/KG	2400.000	1.0
	ZN	2316.4	MG/KG	5000.000	1.0
18362	N6 SOIL			CA TTLC	
	AG	DETECTED	MG/KG	500.000	0.4
	AS	DETECTED	MG/KG	500.000	4.0
	BA	221.9	MG/KG	10000.000	2.0
	BE	2.3	MG/KG	75.000	0.2
	CD	6.82	MG/KG	100.000	0.10
	CO	5.3	MG/KG	8000.000	0.4
	CR	319.6	MG/KG	2500.000	0.4
	CU	137.4	MG/KG	2500.000	0.2
	HG	<7.4	MG/KG	20.000	7.4
	MN	9140.2	MG/KG		0.2
	MO	6.4	MG/KG	3500.000	1.0
	NI	44.2	MG/KG	2000.000	1.0
	PB	160.4	MG/KG	1000.000	1.0
	SB	<10.0	MG/KG	500.000	10.0
	SE	<4.0	MG/KG	100.000	4.0
	TL	<10.0	MG/KG	700.000	10.0
	V	61.9	MG/KG	2400.000	1.0
	ZN	998.8	MG/KG	5000.000	1.0
18364	N8 SOIL			CA TTLC	
	AG	<0.4	MG/KG	500.000	0.4
	AS	DETECTED	MG/KG	500.000	4.0
	BA	219.9	MG/KG	10000.000	2.0
	BE	1.1	MG/KG	75.000	0.2
	CD	4.51	MG/KG	100.000	0.10
	CO	11.1	MG/KG	8000.000	0.4
	CR	57.7	MG/KG	2500.000	0.4
	CU	38.1	MG/KG	2500.000	0.2
	HG	<7.7	MG/KG	20.000	7.7
	MN	478.7	MG/KG		0.2
	MO	<1.0	MG/KG	3500.000	1.0

AUDIT COPY

FIREMAN'S FUND
INSURANCE COMPANIES
Environmental Laboratory
3700 Lakeville Highway
Petaluma, CA 94952
(707) 778-4160

ENVIRONMENTAL LABORATORY

L A B O R A T O R Y R E S U L T S

Laboratory Job No.: 872889

LABNO	SMPLNO-ID	RESULTS			DET. LIM.
	NI	45.5	MG/KG	2000.000	1.0
	PB	36.2	MG/KG	1000.000	1.0
	SB	<10.0	MG/KG	500.000	10.0
	SE	<4.0	MG/KG	100.000	4.0
	TL	<10.0	MG/KG	700.000	10.0
	V	44.1	MG/KG	2400.000	1.0
	ZN	96.4	MG/KG	5000.000	1.0
18365	N9 SOIL			CA TTLC	
	AG	<0.4	MG/KG	500.000	0.4
	AS	32.4	MG/KG	500.000	4.0
	BA	193.8	MG/KG	10000.000	2.0
	BE	1.5	MG/KG	75.000	0.2
	CD	4.29	MG/KG	100.000	0.10
	CO	9.4	MG/KG	8000.000	0.4
	CR	66.1	MG/KG	2500.000	0.4
	CU	28.6	MG/KG	2500.000	0.2
	HG	<7.6	MG/KG	20.000	7.6
	MN	296.1	MG/KG		0.2
	MO	<1.0	MG/KG	3500.000	1.0
	NI	47.3	MG/KG	2000.000	1.0
	PB	51.8	MG/KG	1000.000	1.0
	SB	<10.0	MG/KG	500.000	10.0
	SE	<4.0	MG/KG	100.000	4.0
	TL	<10.0	MG/KG	700.000	10.0
	V	50.2	MG/KG	2400.000	1.0
	ZN	162.1	MG/KG	5000.000	1.0

DETECTED=DETECTED BUT NOT QUANTITATED
QUANTITATION LIMIT=3.3- DETECTION LIMIT.
ANALYST:NANCY S.TESCHE

AUDIT COPY

FIREMAN'S FUND
INSURANCE COMPANIES
Environmental Laboratory
3700 Lakeville Highway
Petaluma, CA 94952
(707) 778-4160

ENVIRONMENTAL LABORATORY

L A B O R A T O R Y R E S U L T S

Laboratory Job No.: 872889

ASSAY:SOLVENTS IN SOIL/WASTE BY EXTRACTION(GC/FID)
MATRIX:SOIL

LABNO SMPLNO-ID	RESULTS	DET.LIM
18357 N1		
TOTAL PETROLEUM HYDR	<14.600 UG/GM	0.015 MG/GM
18358 N2		
TOTAL PETROLEUM HYDR	<15.300 UG/GM	0.015 MG/GM
18360 N4		
TOTAL PETROLEUM HYDR	764.400 UG/GM	0.015 MG/GM
18363 N7		
TOTAL PETROLEUM HYDR	70.600 UG/GM	0.015 MG/GM
18364 N8		
TOTAL PETROLEUM HYDR	<15.700 UG/GM	0.016 MG/GM
18365 N9		
TOTAL PETROLEUM HYDR	<15.500 UG/GM	0.016 MG/GM
18366 N10		
TOTAL PETROLEUM HYDR	<15.200 UG/GM	0.015 MG/GM

ANALYST:JEAN M.BONITE

AUDIT COPY

FIREMAN'S FUND
INSURANCE COMPANIES
Environmental Laboratory
3700 Lakeville Highway
Petaluma, CA 94952
(707) 778-4160

ENVIRONMENTAL LABORATORY

Paul Miller
Earth Metrics
859 Cowan Road
Burlingame, CA 94010

L A B O R A T O R Y R E S U L T S

Supply/Order No.:
Client's Survey No.:
Contract/PO No.: 7023
Release No.: REF. JOB #872889

Laboratory Job No.: 873263
Date Received: 09/23/87
Date Reported: 09/24/87
Client Code: EART2

CHROMIUM HEXAVALENT,(COLOR ASSAY SM 117A,EPA 7196)

MATRIX:SOIL

LABNO SMPLNO	COMPOUND	FOUND MG/LT	CA STLC MG/LT	DET.LIM. MG/LT
20239 N3	CR(6+)	0.16 MG/KG		0.010
20240 N5	CR(6+)	<0.1 MG/KG		0.010

ANALYST:DAVE BUSCH

AUDIT COPY

FIREMAN'S FUND INSURANCE COMPANIES

ENVIRONMENTAL LAB
3700 Lakeville Highway
Petaluma, California 94952
IN CALIFORNIA 800/227-5889
NATIONWIDE 800/227-0765

SAMPLING DATA - ANALYSIS REQUEST

2889-87

C/C

RECEIVED AUG 31 1987

PART 2

P.O. NUMBER:	7023
RELEASE NO:	
SURVEY NO:	

NAME OF COMPANY	SAMPLE COLLECTED BY	DATE COLLECTED
Earth Metrics Inc.	Paul Miller	8-28-87

MAILING ADDRESS	SPECIAL INSTRUCTIONS
Attn: Paul Miller 859 Cowan Rd. Burlingame, CA 94010 TELEPHONE NO: (415) 697-7103	if any questions, call Paul Miller See attached pages

LAB USE ONLY	SAMPLE NUMBER	SAMPLE LOCATION OR DESCRIPTION	VOLUME OF AIR SAMPLED	ANALYZE FOR (GIVE SPECIFIC SUBSTANCES)
018357	N-1	South Conveyor 3'	Soils	1, 2, 3
018358	N-2	South Conveyor 8'		1, 2, 3
018359	N-3	North Hz Bldg 3'		1, 2,
018360	N-4	TIP yard 9'		1, , 3
018361	N-5	Allied 5'		1, 2,
018362	N-6	NE corner 5'		1, 2,
018363	N-7	South RR 8'		1, 3
018364	N-8	Pumps 5'		1, 2, 3
018365	N-9	Pumps 10'		1, 2, 3
018366	N-10	Mid RR 9'		1, 3
		(10 soils)		
		Tests 1 = pH		
		2 = CAM Metals	ICP	(Toxic Scan)
		3 = total Petroleum	HC	by extraction GC/FID

RECEIVED FIREMAN'S FUND ENVIRONMENTAL LABORATORY 1987 AUG 31 AM 12:49

AUTHORIZED SIGNATURE [signature] Pres.

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY LAB BY (SIGNATURE)
C. Michael [signature]		[signature]
RELINQUISHED FROM LAB BY (SIGNATURE)	DATE/TIME 8-31-87 12:45 PM	RECEIVED BY (SIGNATURE)
[signature]		

520004-10-86

ORIGINAL - LABORATORY

8/31/87 AJ.

FIREMAN'S FUND INSURANCE COMPANIES

SAMPLING DATA - ANALYSIS REQUEST

RUSH

#3263-87

ENVIRONMENTAL LAB
3700 Lakeville Highway
Petaluma, California 94952
IN CALIFORNIA 800/227-5889
NATIONWIDE 800/227-0765

RECEIVED SEP 23 1987 ENVIRONMENTAL LAB

P.O. NUMBER: 1 of 3
RELEASE NO: Ref. Job #872889
SURVEY NO:

part 2

NAME OF COMPANY	SAMPLE COLLECTED BY	DATE COLLECTED
Earth Metrics Inc.		

MAILING ADDRESS
859 Cowan Rd.
Burlingame, Ca. 94010

TELEPHONE NO: (415) 697-7103

SPECIAL INSTRUCTIONS
Ref. to Job# 2889 attn: Paul Miller
2-DAY RUSH

LAB USE ONLY	SAMPLE NUMBER	SAMPLE LOCATION OR DESCRIPTION	VOLUME OF AIR SAMPLED	ANALYZE FOR (GIVE SPECIFIC SUBSTANCES)
020239	N3			Cr +6
020240	N5			"
		Note: if can be		
		done in one day		
		RUSH paul Miller		
		would prefer.		
		A.J.		
		(2 soils)		

RUSH
RECEIVED FIREMAN'S FUND ENVIR. LABORATORY SEP 23 AM 10:15

AUTHORIZED SIGNATURE

RELINQUISHED BY (SIGNATURE)	DATE/TIME 9-23-87 10:10am	RECEIVED BY LAB BY (SIGNATURE) Amy Kay
RELINQUISHED FROM LAB BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)

520004-10-86

ORIGINAL - LABORATORY

ATTACHMENT C
LABORATORY ANALYTICAL DATA

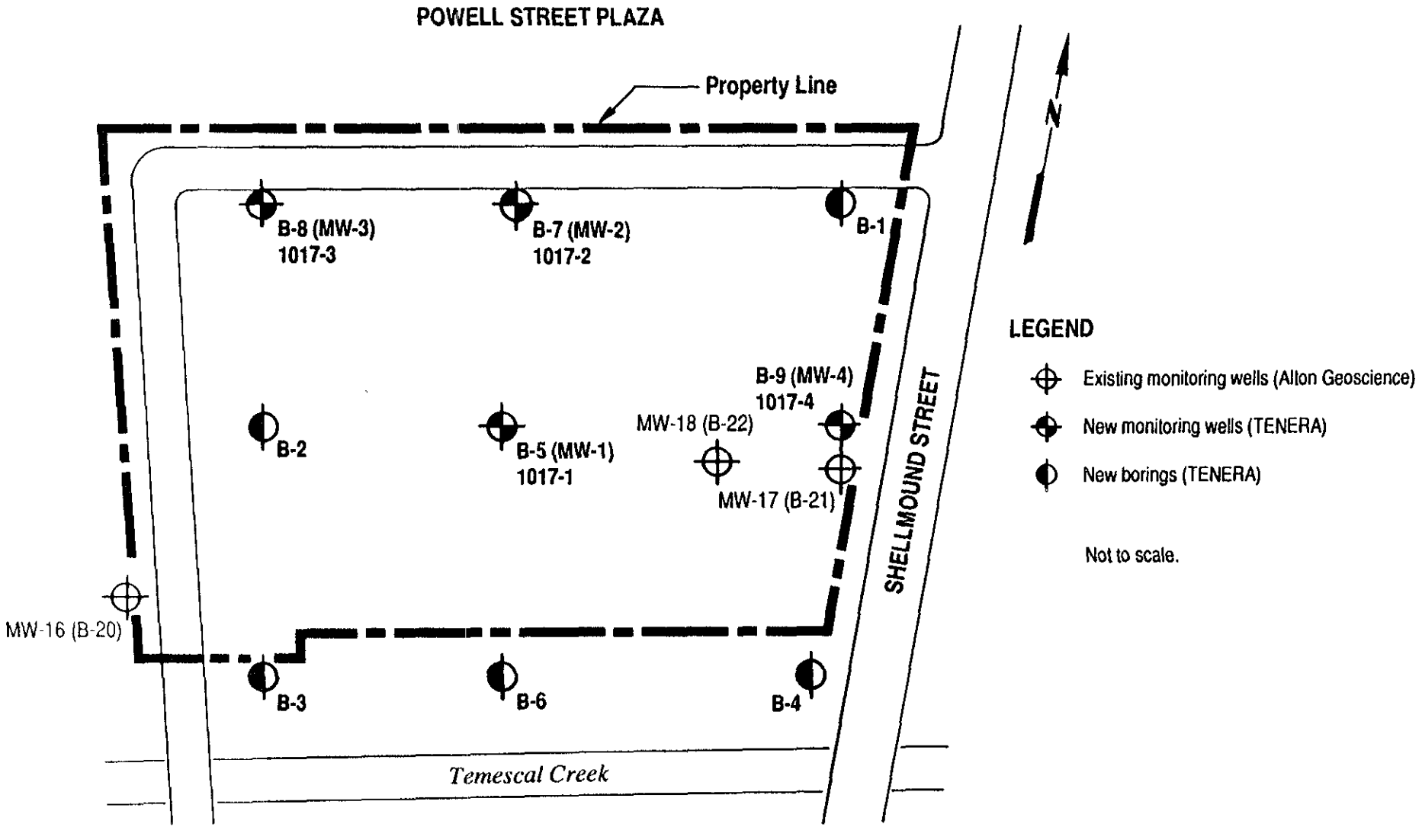

Figure 2-1

Plan of Borings

BROWN AND CALDWELL LABORATORIES

1256 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

ANALYTICAL REPORT

LOG NO: E89-04-469

Received: 18 APR 89
Reported: 10 MAY 89

Mr. Jim Saucerman
Tenera Environmental
1995 University
Berkeley, California 94704

Project: Emeryville 8089-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-469-1	B-1	17 APR 89
04-469-2	B-2	17 APR 89
04-469-3	B-3	17 APR 89

PARAMETER	04-469-1	04-469-2	04-469-3
Fourteen CAM Metals by ICAP			
Silver, mg/L	<0.02	<0.02	<0.02
Barium, mg/L	0.48	0.33	0.12
Beryllium, mg/L	<0.01	<0.01	<0.01
Cadmium, mg/L	<0.04	<0.04	<0.04
Cobalt, mg/L	<0.03	<0.03	<0.03
Chromium, mg/L	<0.05	<0.05	<0.05
Copper, mg/L	<0.08	<0.08	<0.08
Molybdenum, mg/L	<0.08	0.12	0.11
Nickel, mg/L	<0.03	<0.03	<0.03
Lead, mg/L	<0.3	<0.3	<0.3
Antimony, mg/L	<0.06	<0.06	0.07
Thallium, mg/L	<0.2	<0.2	<0.2
Vanadium, mg/L	<0.03	<0.03	0.04
Zinc, mg/L	<0.01	<0.01	0.04
Arsenic, mg/L	1.7	0.003	0.005
Mercury, mg/L	<0.0001	<0.0001	<0.0001
Selenium, mg/L	0.001	<0.001	0.001
CAM Digestions, Date	04.25.89	04.25.89	04.25.89

BROWN AND CALDWELL LABORATORIES

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

ANALYTICAL REPORT

LOG NO: E89-04-469

Received: 18 APR 89
Reported: 10 MAY 89

Mr. Jim Saucerman
Tenera Environmental
1995 University
Berkeley, California 94704

Project: Emeryville 8089-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-469-1	B-1	17 APR 89
04-469-2	B-2	17 APR 89
04-469-3	B-3	17 APR 89

PARAMETER	04-469-1	04-469-2	04-469-3
Aromatic Hydrocarbons			
Date Analyzed	04.26.89	05.01.89	04.26.89
Dilution Factor, Times 1	1	1	1
Benzene, ug/L	0.5	2.6	0.8
Ethylbenzene, ug/L	<0.3	<0.3	<0.3
Toluene, ug/L	1.0	0.7	0.5
Total Xylene Isomers, ug/L	6.0	3.5	1.4
TPH - Semivolatile Hydrocarbons			
Date Analyzed	04.19.89	04.19.89	04.20.89
C12 to C25 Hydrocarbons, mg/L	<1.0	37	13
Fuel Characterization, .	---	OIL	OIL
Other TPH - Semivolatile Hydrocarbons	---	---	---

This fuel characterization is a qualitative identification based upon a visual comparison of sample chromatograms with those from authentic standards.

BROWN AND CALDWELL LABORATORIES

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

ANALYTICAL REPORT

LOG NO: E89-04-469

Received: 18 APR 89
Reported: 10 MAY 89

Mr. Jim Saucerman
Tenera Environmental
1995 University
Berkeley, California 94704

Project: Emeryville 8089-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
04-469-4	B-1 @ 2.5	17 APR 89
04-469-5	B-2 @ 1.0	17 APR 89
04-469-6	B-3 @ 2.0	17 APR 89

PARAMETER	04-469-4	04-469-5	04-469-6
Fourteen CAM Metals by ICAP			
Silver, mg/kg	<0.4	0.9	1
Barium, mg/kg	950	350	230
Beryllium, mg/kg	<0.2	<0.2	<0.2
Cadmium, mg/kg	12	36	32
Cobalt, mg/kg	14	13	18
Chromium, mg/kg	92	1500	290
Copper, mg/kg	96	400	490
Molybdenum, mg/kg	3.7	14	11
Nickel, mg/kg	29	130	150
Lead, mg/kg	1000	400	690
Antimony, mg/kg	<2	8.1	1.3
Thallium, mg/kg	<4	<4	<4
Vanadium, mg/kg	24	100	54
Zinc, mg/kg	810	2300	1800
Arsenic, mg/kg	23	7.3	38
Mercury, mg/kg	0.58	<0.01	0.24
Selenium, mg/kg	0.2	0.4	0.2
CAM Digestions, Date	04.28.89	04.28.89	04.28.89

BROWN AND CALDWELL LABORATORIES

1255 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

ANALYTICAL REPORT

LOG NO: E89-04-633

Received: 21 APR 89
Reported: 09 MAY 89

Mr. Jim Saucerman
Tenera Environmental
1995 University
Berkeley, California 94704

Purchase Order: 8089-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-633-1	1017-16	21 APR 89
04-633-2	1017-17	21 APR 89
04-633-3	1017-4	21 APR 89
04-633-4	1017-3	21 APR 89
04-633-5	1017-2	21 APR 89

PARAMETER	04-633-1	04-633-2	04-633-3	04-633-4	04-633-5
Fourteen CAM Metals by ICAP					
Silver, mg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Barium, mg/L	0.16	0.58	0.10	1.0	1.4
Beryllium, mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Cadmium, mg/L	<0.04	<0.04	<0.04	<0.04	<0.04
Cobalt, mg/L	<0.03	<0.03	<0.03	<0.03	<0.03
Chromium, mg/L	<0.05	<0.05	<0.05	<0.05	<0.05
Copper, mg/L	<0.08	<0.08	<0.08	<0.08	<0.08
Molybdenum, mg/L	<0.08	<0.08	<0.08	<0.08	<0.08
Nickel, mg/L	<0.03	<0.03	<0.03	<0.03	<0.03
Lead, mg/L	<0.3	<0.3	<0.3	<0.3	<0.3
Antimony, mg/L	<0.03	<0.06	<0.06	<0.03	<0.06
Thallium, mg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Vanadium, mg/L	<0.03	<0.03	<0.03	<0.03	<0.03
Zinc, mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Arsenic, mg/L	0.006	0.003	0.028	0.002	0.19
Mercury, mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Selenium, mg/L	0.002	<0.001	<0.001	<0.001	<0.001
CAM Digestions, Date	05.04.89	05.04.89	05.04.89	05.04.89	05.04.89

BROWN AND CALDWELL LABORATORIES

1255 POWELL STREET EMERYVILLE CA 94608 • (415) 428-2300

ANALYTICAL REPORT

LOG NO: E89-04-633

Received: 21 APR 89
Reported: 09 MAY 89

Mr. Jim Saucerman
Tenera Environmental
1995 University
Berkeley, California 94704

Purchase Order: 8089-01

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED
04-633-1	1017-16	21 APR 89
04-633-2	1017-17	21 APR 89
04-633-3	1017-4	21 APR 89
04-633-4	1017-3	21 APR 89
04-633-5	1017-2	21 APR 89

PARAMETER	04-633-1	04-633-2	04-633-3	04-633-4	04-633-5
Aromatic Hydrocarbons					
Date Analyzed	04.26.89	05.01.89	05.01.89	05.01.89	05.01.89
Dilution Factor, Times 1	1	1	1	1	1
Benzene, ug/L	0.9	<0.3	0.3	100	90
Ethylbenzene, ug/L	0.4	<0.3	<0.3	<0.3	<0.3
Toluene, ug/L	2.6	<0.3	<0.3	2.3	2.7
Total Xylene Isomers, ug/L	4.1	<0.3	1.3	8.9	1.7
TPH - Semivolatile Hydrocarbons					
Date Analyzed	04.24.89	04.24.89	04.24.89	04.24.89	04.24.89
C12 to C25 Hydrocarbons, mg/L	<1.0	<1.0	<1.0	<1.0	<1.0
Other TPH - Semivolatile Hydrocarbons	---	---	---	---	---