

from ALT



Epigene International
CONSULTING GEOLOGISTS

4868

ALCO
HAZMAT
94 MAR 14 PM 2:56

February 14, 1994

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

Subject: Results of Soil Sampling During Removal of Two Underground Storage Tanks
Located at 1200 20th Ave., Oakland

Dear Mr. Brinker,

Two underground storage tanks were removed from the site on January 19, 1994. The tanks were reported to have been used for the storage of gasoline. Because of the age of the tanks, it is assumed that leaded gasoline had been stored in the tanks at one time.

The site is located at the southeast corner of 20th Avenue and Solano Way. Solano Way is an alley way approximately 150 feet east of 12th Street. The location is shown on Figure 1. The site vicinity is shown on Figure 2. A detailed map showing the portion of the site where the tanks were located is presented on Figure 3. The two tanks were in a common excavation and were oriented in a north-south direction. The two tanks were approximately the same size and measured 3.5 feet in diameter and 8 feet long. Based on these measurements the calculated capacity of each tank was approximately 600 gallons.

The tanks were single-wall steel construction. Both tanks showed evidence of holes from corrosion and the western of the tanks had significant corrosion holes and splits along the seam at the south end of the tank. The eastern tank was arbitrarily identified as tank

#1 and the western tank as tank #2.

The tanks were removed from the excavation by backhoe and after being inspected and photographed, were placed on a flatbed. They were taken from the site by H and H Ship Services under manifest for destruction. The bottom of the tanks were at a depth of approximately 8 feet. The native soils below the tanks consists primarily of clay to silty clay. Due to significant staining in the soil especially below tank #2, the excavation was extended to a depth of 15 feet. The lateral extent of the excavation was limited by 20th Avenue on the north, Solano Way on the west and an existing gas line and the foundation for the building on the south.

Soil samples were collected by having the backhoe dig at selected areas of the bottom and sidewalls of the excavation. A clean brass tube was driven into the soil in the backhoe bucket just above the teeth. Each tube was sealed, labeled and placed in a cooled ice chest for transport to a State-certified Laboratory under chain-of-custody control. Mr. Barney Chan of the Alameda County Dept. of Environmental Health was on site to observe the sampling activities. The locations of the samples are listed below.

S-1 was collected at a depth of 15 feet below the south end of tank #2 ✓

S-2 was collected at a depth of 15.5 feet below the center of tank #1 ✓

S-3 was collected at a depth of 9 feet in the northern sidewall for tank #1 ✓

S-4 was collected at a depth of 9 feet in the ^(SE) southern sidewall for tank #2 ✓

S-5 was collected at a depth of 9 feet in the southwest sidewall at tank #2 ✓

S-6 was collected at a depth of 9 feet in the northwest sidewall at tank #2 ✓

The results of the analysis and copies of Chain-of-custody documentation are presented

in the attached laboratory reports.

The spoil from the excavation was taken to a vacant property located on the east side of East 12th Street between 18th and 19th avenues. Plastic sheeting was placed on top of an existing concrete pad. The spoil was piled on the plastic. The pile was divided into quadrants and a soil sample was collected from each quadrant by hand excavating approximately 2 feet below the surface and driving a brass tube into the soil. The samples handled as described above. After the completion of the sampling, plastic sheeting was placed and anchored on top of the spoil pile.

The soil samples from the spoil pile were composited 2 to 1 by the laboratory and the results from the two composites are presented in the attached Certified Laboratory report.

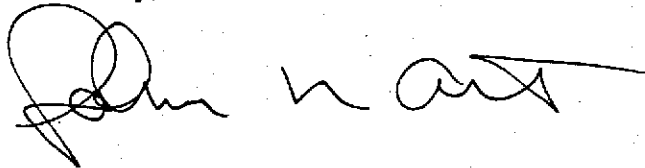
The over-excavation below the tanks has appeared to have removed the contaminated soil in this area. There is still contaminated soil along the western sidewall of the excavation but it is not possible to excavate any further without undermining both Solano Way and a portion of 20th Avenue.

Groundwater was not encountered in the excavation. Due to the relatively high levels of soil contamination that was observed, it is recommended that monitoring wells be installed on and/or adjacent to the site to assess the potential for groundwater contamination. A workplan to address this concern will be prepared and provided under separate cover.

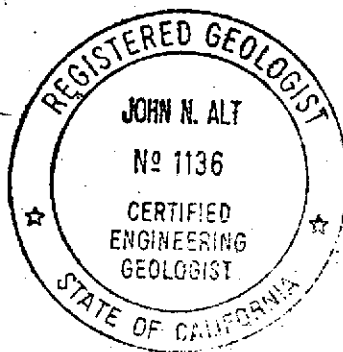
It was a pleasure to work with you on this project. Should you have any questions or require additional information, please contact the undersigned.

This report has not been distributed to any regulatory agencies and we recommend that you do so at your earliest convenience. Should you wish us to distribute the report, please notify us in that regard.

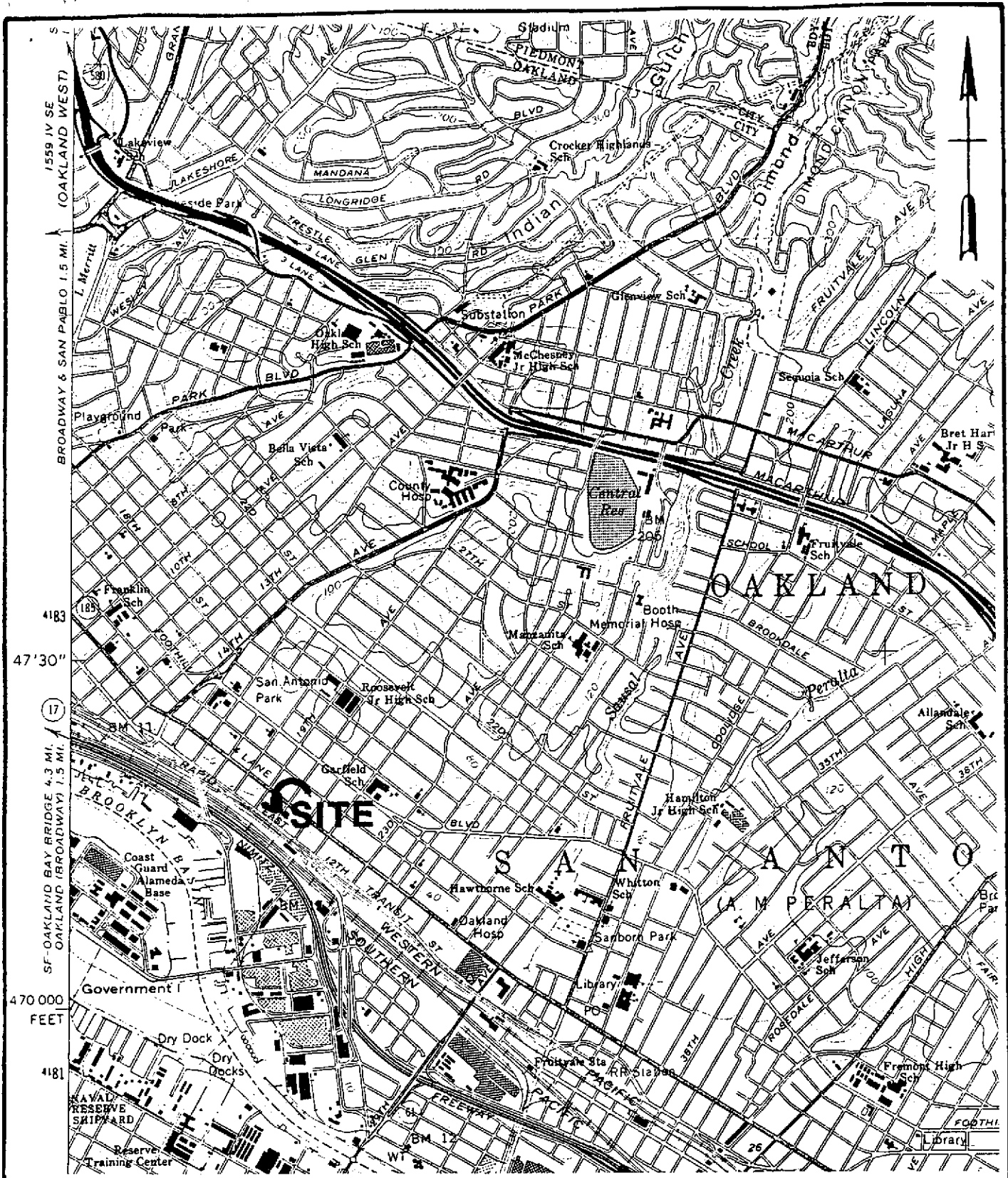
Sincerely,

A handwritten signature in cursive script, appearing to read "John N. Alt".

John N. Alt



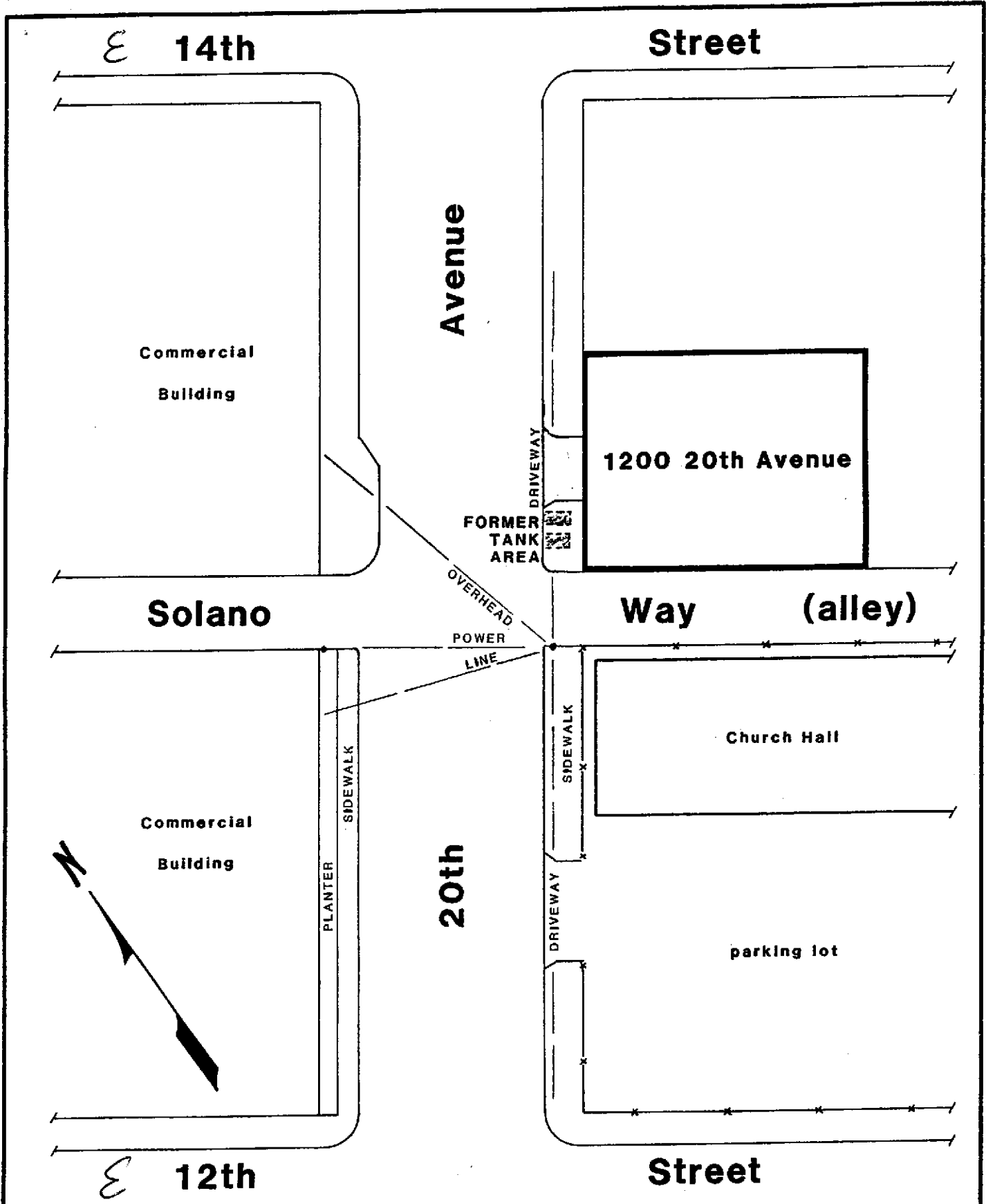
Attachments



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

EPIGENE
INTERNATIONAL
Project #94067
1200 20th Avenue,
Oakland, California.

Fig. 1
SITE LOCATION MAP



EPIGENE INTERNATIONAL	Project # 94067 1200 20th Avenue, Oakland, California
Fig. 2 SITE AREA	

20th Avenue

Driveway

Gas Line

Curb

Edge of Building

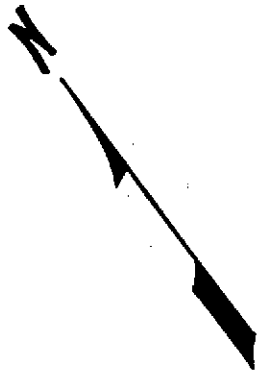
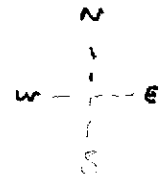
#1 Former Gasoline Tank

#2 Former Gasoline Tank

AREA OF LEAK

2300g Benzene

Sample #s & approx. location



Solano Way

EPIGENE INTERNATIONAL

Project #94067

1200 20th Avenue, Oakland, California

Fig. 3

SITE PLAN

Analytical Laboratory Report

EPA Methods 8015 Modified / 8020

Date Sampled: 1/19/94
Date Received: 1/19/94
TPHg/BTEX Analyzed: 1/24, 25/94
TPHd Extracted: NR
TPHd Analyzed: NR
Date Reported: 1/31/94

Proj Mgr: John Alt
Client: Epigene International
Project: 94-005, 1200-20th Ave.
Matrix: Soil
Lab #: 2A005
Report #: 401030.rpt

Lab ID No.	Field ID No.	TPHg/BTEX DL Factor	Benzene	Toluene	Ethyl benzene	Xylenes - Total	TPHg	TPHd	TPHd DL Factor
01	S-1	1	ND	ND	ND	ND	ND	NR	
02	S-2	1	ND	ND	ND	ND	ND	NR	
03	S-3	1	ND	ND	ND	ND	ND	NR	
04	S-4	1	0.080	0.011	0.020	0.071	8.5	NR	
05	S-5	1	0.042	0.13	0.072	0.38	11	NR	
06	S-6	10	2.9	33	28	1.3	23	NR	
07	P-1, P-2 COMPOSITE	1	0.045	0.094	0.67	2.1	52	NR	
08	P-3, P-4 COMPOSITE	1	0.064	0.17	0.60	2.1	37	NR	

Detection Limits (DL)	0.005 mg/kg	0.005 mg/kg	0.005 mg/kg	0.005 mg/kg	1.0 mg/kg	
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NOTES:

- NR - Analysis not requested.
- COC - Chain of custody
- ND - Analytes not detected at, or above the stated detection limit.
- TPHg - Total petroleum hydrocarbons as gasoline.
- TPHd - Total petroleum hydrocarbons as diesel #2.
- mg/kg - Milligrams per kilogram (PPM).
- ug/L - Microgram per Litre (PPB).
- DL - Detection limit.
- DF - Dilution Factor
- PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample.

PROCEDURES:

- BTEX - This analysis was performed using EPA Method 8020, and EPA Method 5030.
- TPHg - This analysis was performed using EPA Method 8015 Mod., and EPA Method 5030.
- TPHd - This analysis was performed using EPA Method 8015 Mod. and LUFT Manual.

CERTIFICATION:

California Department of Health Services ELAP Certificate #1842
Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538 (510) 490-8571

Emilia P. Pyle

Laboratory Director

1-31-94

Date



COAST-TO-COAST ANALYTICAL SERVICES, INC.

EXCELLENCE
IN ANALYSIS

NorCal Division (San Jose Laboratory)
2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

CLIENT: Lorna Powell
Onsite Environmental Laboratories
5500 Boscell Common
Fremont, CA 94538

Lab Number : JK-0217-1
Project : 94-005, 1200 20th Ave.

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE RECEIVED				
S-5	Soil	Unknown	01/19/94	01/21/94			
CONSTITUENT	*PQL	RESULT	UNITS	METHOD	ANALYZED	BY	NOTES
Lead, Total	1.	6.	mg/Kg	EPA 7420	01/28/94	KP	1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) Sample Preparation on 01/24/94 by NT using EPA 3050

01/31/94
NG/nfg
5094012401

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Nick Gaone
Inorganics Manager

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NorCal Division (San Jose Laboratory)
2059 Junction Ave.

San Jose, CA 95131
(408) 955-9077

CLIENT: Lorna Powell
Onsite Environmental Laboratories
5500 Boscell Common
Fremont, CA 94538

Lab Number : JK-0217-2
Project : 94-005, 1200 20th Ave.

REPORT OF ANALYTICAL RESULTS

Page 1 of 1

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY		SAMPLED DATE RECEIVED			
S-6	Soil	Unknown		01/19/94	01/21/94		
CONSTITUENT	*PQL	RESULT	UNITS	METHOD	ANALYZED	BY	NOTES
Lead, Total	1.	29.	mg/Kg	EPA 7420	01/28/94	KP	1

San Jose Lab Certifications: CAELAP #1204

*RESULTS listed as 'ND' were not detected at or above the listed PQL (Practical Quantitation Limit)

(1) Sample Preparation on 01/24/94 by NT using EPA 3050

01/31/94

NG/nfg
5094012401

Respectfully submitted,
COAST-TO-COAST ANALYTICAL SERVICES, INC.

Nick F. Gaone
Nick Gaone
Inorganics Manager

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CHAIN OF CUSTODY



Epigene International

CONSULTING GEOLOGISTS

38750 Paseo Padre Parkway, Suite B-4
Fremont, California, 94536

Business: (510) 791-1986 FAX: (510) 791-3306

Laboratory: Onsite Labs
SSoo Powell Comm.
Fremont, CA 94539
(510) 791-8572
Contact: Lorna Powell

Contact: John N. Ait	Sampler: A/P
Project Name: 1200 20th ave	No. 01-05
Date: 1/19/94	

Sample I.D.	Date/Time Sampled	Matrix Desc.	Container No. of	Type	Lab. #	Analyses Requested					Comments	
						TPH/Gasoline	BTEX	TPH/Diesel	601/8010	602/8020		Total Lead
1. S-1	1/19/94 12:15 P.M.	SOIL	1	BRASS		X	X					
2. S-2	1/19/94 12:15 P.M.	SOIL	1	BRASS								
3. S-3	1/19/94 12:15 P.M.	SOIL	1	BRASS								
4. S-4	1/19/94 12:15 P.M.	SOIL	1	BRASS								
5. S-5	1/19/94 12:15 P.M.	SOIL	1	BRASS						X		
6. S-6	1/19/94 12:15 P.M.	SOIL	1	BRASS						X		
7. P-1	1/19/94 1:30 AM	"	"	"								Composite to 1 sample composite to 1 sample
8. P-2	"	"	"	"								
9. P-3	"	"	"	"								
10. P-4	"	"	"	"								

Relinquished by: <i>M. P. Gilroy</i>	Date: 1/20/94	Time: 11:15 AM	Received by: <i>[Signature]</i>	Date: 1-20-94	Time: 12:23
Relinquished by: <i>[Signature]</i>	Date: 1/20/94	Time: 12:45 PM	Received by: <i>Lorna Powell</i>	Date: 1/20/94	Time: 12:45
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Turnaround Time: NORMAL
Additional Comments: Composite samples as shown above
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