

PARADISO MECHANICAL, INC.  
 GENERAL & PETROLEUM CONTRACTORS  
 2600 Williams Street, P.O. Box 1836  
 San Leandro, CA 94577  
 (510) 614-8390 FAX (510) 614-8396  
 Contractors License #677909

STIP 2047  
 SH

LETTER OF TRANSMITTAL  
 PROTECTION

98 DEC 17 PM 1:47

TO:

Alameda County Health Care Services

1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor

Alameda, CA 94612

DATE 12/14/98	JOB #
ATTN: Dept. of Environmental Health	
RE: Chevron Station	
5509 Martin Luther King	
Oakland, CA	

WE ARE SENDING YOU  Attached  Under Separate Cover via US MAIL the following items:

- Shop drawings       Prints       Plans       Sample       Specifications  
 Copy of Letter       Change Order       \_\_\_\_\_

COPIES	DATE	NO.	DESCRIPTION
1	12/7/98		Report of Soil Sampling below Fuel Dispensers from Geo-Logic.

THESE ARE TRANSMITTED as checked below:

- For approval       Approved as submitted       Resubmit \_\_\_\_\_ copies for approval  
 For your use       Approved as noted       Submit \_\_\_\_\_ copies for distribution  
 As requested       Returned for corrections       Return \_\_\_\_\_ corrected prints

For review and comment  \_\_\_\_\_

FOR BIDS DUE \_\_\_\_\_, 19\_\_\_\_  PRINTS RETURNED AFTER LOAN TO US

REMARKS PLEASE LET ME KNOW, IF YOU NEED ANY FURTHER INFORMATION.

COPY TO \_\_\_\_\_

SIGNED: Randa Adham

# geo - logic

*geotechnical and environmental consulting services*

1140 - 5th Avenue, Crockett, CA 94525

(510) 787-6867 - Fax (510) 787-1457

GL-98-122.R1  
December 7, 1998  
Paradiso Job No. 279

Paradiso Mechanical, Inc.  
P. O. Box 1836  
2600 Williams Street  
San Leandro, California 94577

Attention: Mr. Tracy Lum

RE: Report of Soil Sampling below Fuel Dispensers  
Chevron Service Station  
5509 Martin Luther King  
Oakland, California

Dear Mr. Lum:

This report summarizes the results of soil sampling performed by Geo-Logic at the referenced site. All work was performed in compliance with the guidelines established by the Regional Water Quality Control Board, the Alameda County Health Care Services Agency - Department of Environmental Health (ACDEH), and the City of Oakland Fire Services Agency (OFSA).

The scope of the work performed by Geo-Logic consisted of the following:

Coordination with the regulatory agencies

Collection of soil samples from beneath four fuel dispenser locations

Delivery of soil samples with properly executed Chain of Custody documentation to a certified analytical laboratory

Technical review of data and preparation of this report

## SITE DESCRIPTION

The subject site is an operating Chevron service station located at the northwestern corner of the intersection of Martin Luther King Boulevard and 55th Street in Oakland, California, as shown on Figure 1 attached to this report. The dispenser islands, where Geo-Logic's work was conducted, are also shown on Figure 1.

### FIELD ACTIVITIES

Geo-Logic's work at the site was conducted on December 3, 1998, during station upgrade work. Soil samples were collected adjacent to the fiberglass secondary containment trenches beneath four unleaded gasoline fuel dispensers. The fiberglass secondary containment trenches appeared to be in good condition. No odors or evidence of petroleum hydrocarbon leakage or spillage were observed within the excavations.

The four samples, designated as Disp 1/2 (3.5'), Disp 3/4 (3.5'), Disp 5/6 (3.5'), and Disp 7/8 (3.5'), were collected from the excavations at the depths indicated. The samples were each placed in clean, two-inch diameter brass tubes, sealed with teflon and plastic caps, and stored in a cooled ice chest for delivery to a certified laboratory. Mr. Leroy Griffin of the OFSA witnessed the soil sampling. Sample locations are shown on Figure 1.

### SUBSURFACE CONDITIONS

The soils encountered in the excavations consisted of pea gravel fill. Groundwater was not encountered in the dispenser excavations.

### ANALYTICAL RESULTS

The samples were analyzed by Calcoast Analytical in Emeryville, California, and were accompanied by properly executed Chain of Custody documentation. All of the samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline by EPA method 8015, and benzene toluene, ethylbenzene, and xylene (BTEX) and methyl-tert-butyl ether (MTBE) by EPA Method 8020. All of the samples yielded nondetectable results for these analytes.

The results of the soil analyses are summarized in Table 1. Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

### DISTRIBUTION

A copy of this report should be sent to Mr. Leroy Griffin of the OFSA, and to the ACDEH.

Geo-Logic  
GL-98-122.R1  
December 7, 1998  
Page 3

LIMITATIONS

Soil deposits and rock formations may vary in thickness, lithology, saturation, strength and other properties across any site. In addition, environmental changes, either naturally-occurring or artificially-induced, may cause changes in the extent and concentration of any contaminants. Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

The results of this study are based on the data obtained from the field and laboratory analyses obtained from a state certified laboratory. We have analyzed this data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, regarding the above, including laboratory analyses, except that our services have been performed in accordance with generally accepted professional principles and practices existing for such work.

Should you have any questions regarding this report, please feel free to call me at (510) 787-6867.

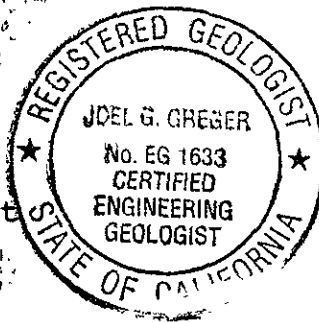
Sincerely,

Geo-Logic



Joel G. Greger, C.E.G.  
Certified Engineering Geologist

License No. EG 1633  
Exp. Date 8/31/2000



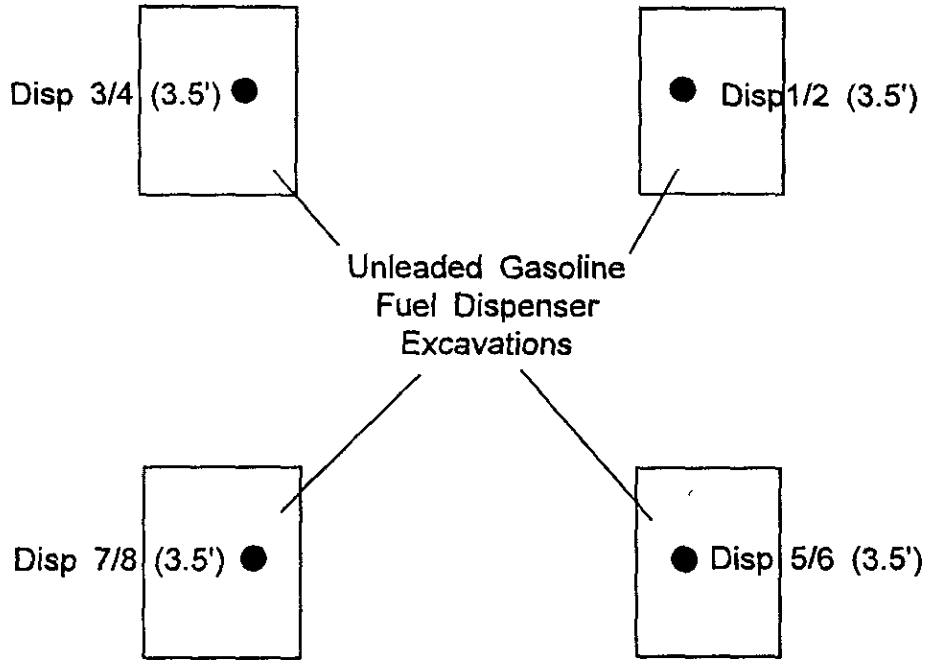
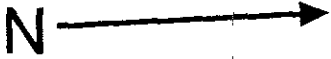
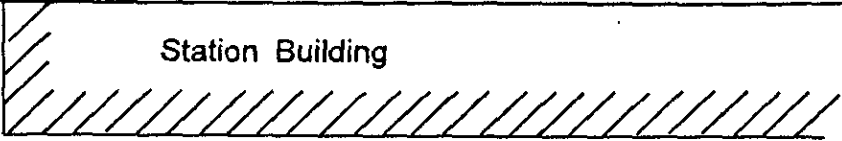
Attachments: Table 1  
Figure 1  
Laboratory Analyses and Chain of Custody

Geo-Logic  
GL-98-122.R1  
December 7, 1998

TABLE 1  
SUMMARY OF LABORATORY ANALYSES  
SOIL

<u>Sample/depth</u>	<u>TPH</u> <u>Gas</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-</u> <u>benzene</u>	<u>Xylenes</u>	<u>MTBE</u>
(Collected on December 3, 1998)						
Disp 1/2 (3.5')	<0.1	<0.005	<0.005	<0.005	<0.005	<0.1
Disp 3/4 (3.5')	<0.1	<0.005	<0.005	<0.005	<0.005	<0.1
Disp 5/6 (3.5')	<0.1	<0.005	<0.005	<0.005	<0.005	<0.1
Disp 7/8 (3.5')	<0.1	<0.005	<0.005	<0.005	<0.005	<0.1
Method Blank/ Detection Limit	<0.1	<0.005	<0.005	<0.005	<0.005	<0.1

Results are in milligrams per kilogram (mg/kg).



LEGEND

● Soil sample location (depth)

SCALE: 1" = 10'

Martin Luther King Blvd. at 55th Street

Chevron Service Station 5509 Martin Luther King Oakland, California	Figure No: <b>1</b>	Date: 12/7/98
		Drawn By: JG/Geo-Logic

Site Plan

# CALCOAST ANALYTICAL

## Materials Chemistry

Certified by  
*California Department of Health Services*  
*City of Los Angeles, Dept. of Building & Safety*

December 4, 1998

Geo-Logic  
1140 5<sup>th</sup> Avenue  
Crockett, CA 94525

Attn.: Mr. Joel Greger

Ref: Lab File #1203-3A/D-98

### 1. SAMPLE(S):

Four (4) soil cores from Chevron Job # 279; 5509 Martin Luther King, Oakland

- A. Disp 1 / 2 (3.5')
- B. Disp 3 / 4 (3.5')
- C. Disp 5 / 6 (3.5')
- D. Disp 7 / 8 (3.5')

*Collected: December 3, 1998 / Received: December 3, 1998*

### 2. ANALYSIS REQUIRED:

- A. Total Petroleum Hydrocarbons - gasoline (TPH-g) by Gas Chromatography (GC).
- B. Benzene, Toluene, Ethylbenzene and Xylene (BTEX) by GC.
- C. Methyl-tert-butyl ether (MTBE) by GC .

### 3. METHODS OF ANALYSIS:

- A. EPA Method 8015; SW-846
- B. EPA Method 8020; SW-846
- C. EPA Method 8020; SW-846.

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COATINGS • BUILDING MATERIALS • HAZARDOUS WASTE  
SPECTROSCOPY • CHROMATOGRAPHY • MICROSCOPY

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TELEPHONE (510) 652-2979  
FAX (510) 652-3085

P.O. BOX 8702 • EMERYVILLE, CA 94662  
4072 WATTS STREET • EMERYVILLE, CA 94608

4. RESULTS:

A. TPH - gasoline

SAMPLE		TPH - GASOLINE (mg/kg)
A.	Disp 1 / 2	< 0.1 (none detected)
B.	Disp 3 / 4	< 0.1 (none detected)
C.	Disp 5 / 6	< 0.1 (none detected)
D.	Disp 7 / 8	< 0.1 (none detected)

Method Blank / Detection Limit = < 0.1 mg/kg (none detected)  
 Mean Spike Recovery = 104%

B. BTEX

SAMPLE	CONCENTRATION (mg/kg)			
	BENZENE	TOLUENE	ETHYLBENZEN E	XYLENE
A. Disp 1 / 2 (3.5')	< 0.005 (ND)	< 0.005 (ND)	< 0.005 (ND)	< 0.005 (ND)
B Disp 3 / 4 (3.5')	< 0.005 (ND)	< 0.005 (ND)	< 0.005 (ND)	< 0.005 (ND)
C. Disp 5 / 6 (3.5')	< 0.005 (ND)	< 0.005 (ND)	< 0.005 (ND)	< 0.005 (ND)
D. Disp 7 / 8 (3.5)	< 0.005 (ND)	< 0.005 (ND)	< 0.005 (ND)	< 0.005 (ND)
Method Blank / Detection Limit	< 0.005 (ND)	< 0.005 (ND)	< 0.005 (ND)	< 0.005 (ND)
Mean Spike Recovery	109%	103%	107%	108%



4. RESULTS con't:

C. MBTE

Sample	MBTE (mg/kg)
A.. Disp 1 / 2 (3.5')	<0.1 (none detected)
B Disp 3 / 4 (3.5')	<0.1 (none detected)
C. Disp 5 / 6 (3.5')	<0.1 (none detected)
D. Disp 7 / 8 (3.5)	<0.1 (none detected)

\*Method Blank/Detection Limit = <0.1 mg/kg (none detected)



Ronald W. Shrewsbury  
Analytical Chemist  
RWS:ki(1)

ALL SAMPLES SUBMITTED FOR TESTING WILL BE HELD 30 DAYS FROM REPORT DATE AT WHICH TIME THEY WILL BE RETURNED TO CLIENT OR DESTROYED. CLIENT WILL BE RESPONSIBLE FOR ALL SHIPPING, HANDLING, AND DISPOSAL CHARGES. SAMPLES WILL BE STORED UPON WRITTEN INSTRUCTIONS AND FEE ARRANGEMENTS.

This report was made at the request of and for the use only of the purchaser of said report. Any use of or dissemination of information contained herein or reference to Calcoast Labs, Inc. without prior written consent of Calcoast Labs, Inc. is strictly prohibited.

# Caleos Analytical, Inc.

Proj. Mgr.: Joel Greger - Geo-Logic  
 Company: for Paradise Mechanical  
 Address: POB 1836  
2600 Williams St.  
San Leandro CA

Samples (signature) Joel Greger (Phone No.) 510 787 6867  
 (Fax No.) 510 787 1457

## Analysis Report

Sample ID	Type	Date	Time	Matrix	Prep. Loc.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (SC33, 8015) w/ BTEX (EPA 602, 8020)	TPH - Diesel, TEPH (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 8243)	BASENEUTRALS, ACIDS (EPA 625/827, 8270, 825)	TOTAL OIL & GREASE (EPA 5520, 9-5, E-F)	PCB (EPA 803, 8033)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	LUFT	METALS Cd, Cr, Pb, Zn, Ni	CA/M METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)	MTBE by 8020	Fuel Oxygenate by 8260	NUMBER OF CONTAINERS	
7isp 1/2 (3.5')		12/3/98	10:30 AM	Soil		X																				1
7isp 3/4 (3.5')						X																				1
7isp 5/6 (3.5')						X																				1
7isp 7/8 (3.5')						X																				1

Project Information		Sample Receipt			
Project Name <u>Chevron Job #279</u>	Total No. of Containers <u>4</u>	Head Space			
Project No <u>5509 Martin</u>	Rec'd Good Condition/Cold	Forms To Record			
PO # <u>Cuthbertson Oakland</u>	TAT <u>Standard</u> 5-Day	24	48	72	Other

Relinquished By: (Signature) <u>Joel Greger</u> (Printed Name) <u>Joel G. Greger</u> (Date) <u>12/3/98</u> (Time) <u>11:20 AM</u>	1. Relinquished By: (Signature) (Printed Name) (Date) (Time)	2. Relinquished By: (Signature) (Printed Name) (Date) (Time)	3.
--	---	---	----

Special Instructions / Comments:  
Put Job # + address on analytical sheets + invoice

Received By: (Signature) <u>Ronald Shrewsbury</u> (Printed Name) <u>Ronald Shrewsbury</u> (Date) <u>12/3/98</u> (Time) <u>11:20 AM</u>	1. Received By: (Signature) (Printed Name) (Date) (Time)	2. Received By: (Signature) (Printed Name) (Date) (Time)	3.
---	---	---	----

invoice - attention Tracy Lum

# Alcoast Analytical, Inc.

Proj. Mgr.: Joel Greger - Geo-Logic  
 Company: For Paradise Mechanical  
 Address: POB 1836  
2600 Williams St.  
San Leandro CA

Analyst Report

Sample ID	Type	Date	Time	Matrix	Prep
sp 1/2 (3.5')		12/3/98	10:30 am	Su1	
sp 3/4 (3.5')					
sp 5/6 (3.5')					
sp 7/8 (3.5')					

TPH - Gasoline (EPA 5030, 6015)	TPH - Gasoline (5030, 6015) w/ BTEX (EPA 602, 6020)	TPH - Diesel, TEPH (EPA 3510, 6550, 6015)	PURGEABLE AROMATICS BTEX (EPA 602, 6020)	PURGEABLE HALOCARBONS (EPA 601, 6010)	VOLATILE ORGANICS (EPA 624, 6240, 6242)	BASENEUTRALS ACIDS (EPA 625/627, 6270, 625)	TOTAL OIL & GREASE (EPA 5520, 5-F, 5-F)	PCB (EPA 603, 6030)	PESTICIDES (EPA 603, 6030)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)	MTBE by 8020	Fuel Oxygenates by 8260	NUM. OF CONTAINERS

Project Information		Sample Receipt			
Project Name <u>Chevron Job #279</u>	Total No. of Containers <u>4</u>	Rec'd Good Condition/Cold	Forms To Record	TAI	Other
Project No <u>5509 Martin</u>				<u>Standard</u>	
Job # <u>Luther King Oakland</u>				<u>5-Day</u>	

Relinquished By: (Signature) Joel Greger  
 (Printed Name) Joel G. Greger  
 (Date) 12/3/98 (Time) 11:20 AM

1. Relinquished By: (Signature) \_\_\_\_\_ (Date) \_\_\_\_\_ (Time) \_\_\_\_\_  
 2. Relinquished By: (Signature) \_\_\_\_\_ (Date) \_\_\_\_\_ (Time) \_\_\_\_\_  
 3. Relinquished By: (Signature) \_\_\_\_\_ (Date) \_\_\_\_\_ (Time) \_\_\_\_\_

Special Instructions / Comments:  
Put Job # + address on analytical sheets + invoice

Received By: (Signature) [Signature]  
 (Printed Name) Ronald Shrewsbury  
 (Date) 12/3/98 (Time) 11:20 AM

1. Received By: (Signature) \_\_\_\_\_ (Date) \_\_\_\_\_ (Time) \_\_\_\_\_  
 2. Received By: (Signature) \_\_\_\_\_ (Date) \_\_\_\_\_ (Time) \_\_\_\_\_  
 3. Received By: (Signature) \_\_\_\_\_ (Date) \_\_\_\_\_ (Time) \_\_\_\_\_

invoice - attention Tracy Lum

DISTRIBUTION LIST

Mr. Leroy Griffin  
City of Oakland Fire Services Agency  
505 - 14th Street, 7th floor  
Oakland, CA 94612

Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, CA 94502