2169 E. FRANCISCO BOULEVARD, SUITE B SAN RAFAEL, CALIFORNIA 94901 415/457-7595 FAX: 415/457-8521

SUBSURFACE INVESTIGATION

Former Chevron Service Station #90020 17th and Harrison Oakland, CA

Prepared For

Chevron USA 2410 Camino Ramon San Ramon, CA

JUL 1 2 '89 H.C.H.

June 1989



Chevron U.S.A. Inc.

2410 Camino Ramon, San Ramon, California • Phone (415) 842-9500 Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

Marketing Operations

July 20, 1989

D. Moller Manager, Operations S. L. Patterson Area Manager, Operations C. G. Trimbach Manager, Engineering

> Alameda County Environmental Health Attn: Rafat Shahid 80 Swan Way, Room 200 Oakland, CA 94621

Re:

Former Chevron Facility #9-0020

17th and Harrison Oakland, California

Dear Mr. Shahid:

Enclosed are the results of the latest subsurface investigation dated June 1989 conducted by our consultant, Western Geological Resources, at the above reference site. As indicated in the report, there appears to be an offsite source of chlorinated hydrocarbons migrating on site and a petroleum hydrocarbon contaminant plume near the downgradient corner. We have instructed our consultant to research and attempt to determine the source of the chlorinated plume and install additional wells downgradient of the site to further define the extent of petroleum hydrocarbon contamination.

If you have any questions or comments, please contact John Randall at (415) 842-9625.

I declare under penalty of perjury that the information contained in the attached report is true and correct, and that any recommended actions are appropriate under the circumstances, to the best of my knowledge.

Sincerely,

C.G. TRIMBACH

JMR/jsp:V4-041 Enclosure

cc:

Regional Water Quality Control Board 1111 Jackson Street, Room 6040

Oakland, California 94607

7.45.89

SUBSURFACE INVESTIGATION

Former Chevron Service Station #90020 17th and Harrison Oakland, CA

Prepared For

Chevron USA 2410 Camino Ramon San Ramon, CA

Prepared By

Western Geologic Resources, Inc. 2169 E. Francisco Blvd. San Rafael, CA

June 1989

JUL 12 '89 H.C.H.

Thomas M. Howard Project Geologist

Sherwood Lovejoy Jr.

President/ Senior Hydrogeologist

John E. Crawford Senior Geologist CRG# 2635

No.002635 Exp. 6-30-90

Exp. 6-30-90

OF CALIFORNIA

CONTENTS

- 1. Introduction
 - 1.1 Scope of Work
- 2. Background
 - 2.1 Site Setting
 - 2.2 Site History
- 3. Subsurface Investigation
 - 3.1 Soil Borings and Geology
 - 3.2 Monitoring Well Installation and Development
 - 3.3 Soil Sampling
 - 3.4 Water Sampling
- 4. Well Survey
- 5. Hydrogeology and Groundwater Flow
- 6. Analytic Results
 - 4.1 Soils Samples
 - 4.2 Water Samples
- 7. Well Canvass
- 8. Summary

FIGURES

- 1. Site Location Map
- 2. Site Vicinity Map
- 3. Site Map with Monitoring Well and Boring Locations
- 4. Potentiometric Map for Shallow Groundwater in the First Water-Bearing Zone
- 5. Distribution of Tetrachloroethene in Shallow Groundwater
- 6. Distribution of Total Halocarbons including Chloroform, Carbon Tetrachloride, trans-1,2-Dichloroethene, Trichloroethene, and Tetrachloroethene

TABLES

- 1. Water Elevations
- 2. Analytic Results for Soil
- 3. Analytic Results for Water

iii

APPENDICES

- A. Standard Operating Procedures
- B. Boring Logs
- C. Analytic Reports
- D. Chain-of-Custody Forms

iv

1 INTRODUCTION

This report presents the results of the subsurface investigation conducted by Western Geologic Resources, Inc. (WGR), at the former Chevron service station #90020, located at 17th and Harrison, Oakland, California (Figure 1). This investigation was designed to further investigate the horizontal and vertical extent of petroleum hydrocarbons and halocarbons in the subsurface.

1.1 SCOPE OF WORK FOR SUBSURFACE INVESTIGATION

- 1. Drill 4 soil borings along the upgradient property line and sample at 5-ft intervals;
- 2. Install 5 additional groundwater monitoring wells across the site and sample at 5-ft intervals;
- 3. Analyze selected soil samples for total purgeable petroleum hydrocarbons (TPPH), aromatic hydrocarbons, and halocarbons by EPA Method 8260, oil and grease by EPA Method 503E and metals cadmium (Cd), chromium (Cr), lead (Pb) and zinc (Zn) by EPA Methods 7131/7191/7421/7950;
- 4. Survey the top-of-casing elevations for the new monitoring wells and determine groundwater elevations in the new and pre-existing wells, take liquid level measurements and produce a potentiometric map for shallow groundwater;
- 5. Review all field and laboratory data and prepare a report of the investigation.

2 BACKGROUND

2.1 SITE SETTING

Former Chevron service station #90020 is located in a residential and commercial district at the west corner of the intersection of 17th Street and Harrison Street in Oakland, California (Figure 2). The site is presently used as a commercial parking lot.

2.2 SITE HISTORY

Information concerning the operation of the site and it's destruction was not available to WGR as of this report writing.

In January of 1988, EA Engineering, Science and Technology of Lafayette, California, performed a soil vapor survey on the site. Total volatile hydrocarbons were detected in concentrations from 1 to 140 parts-per-million-volume (ppmv) in 22 samples from 11 locations.

WGR installed 3 groundwater monitoring wells onsite in October 1988. Aromatic hydrocarbons were not detected in any soil samples analyzed from any borings. Total fuel hydrocarbons (TFH) were detected at 12 ppm in one soil sample collected at a depth of 19 ft from boring B-2. Total fuel hydrocarbons were not detected in groundwater samples from monitoring wells MW-1, MW-2 and MW-3, however halocarbons were detected in all 3 wells at concentrations up to 84 parts-per-billion (ppb) tetrachlorethene (PCE).

Monitoring wells MW-1, MW-2 and MW-3 were resampled in February 1989. Halocarbons, up to 53 ppb PCE, were detected in all 3 monitoring wells.

2

3 SUBSURFACE INVESTIGATION

3.1 SOIL BORINGS AND GEOLOGY

Soil borings B-4 through B-11 were drilled at locations across the site (Figure 3) as determined by access and project personnel, with hollow-stem augers by Exploration Geoservices of San Jose, California from April 11 through April 14, 1989 and on April 19, 1989. Boreholes were logged by WGR geologists Mike Edmonson, Dave Reichard, and Richard Baldwin. Soil samples were collected at 2.5 ft intervals according to WGR's standard operating procedure for soil sampling included as Appendix A. Thirty eight selected samples were sent under chain-of-custody to Central Coast Analytical Services (CCAS) of San Luis Obispo, California for analysis for TPPH and purgeable priority pollutants by EPA Method 8260 and one selected sample for analysis for oil and grease by EPA Method 503E and metals by EPA Methods 7131/7191/7421/7950.

Boring logs are included in Appendix B. The borings B-4 through B-12 penetrated similar lithologic materials, also similar to those encountered in the previously drilled 3 borings. Borings B-4 through B-7, drilled to investigate the vadose zone along the upgradient property line, were terminated after reaching first water at approximately twenty three to twenty four feet below ground level. These borings were abandoned and grouted to the surface with neat cement after reaching total depth. Borings B-8 through B-12, drilled at various locations across the site (Figure 3), were terminated 31 ft to 36 ft below ground level in confining layers. Groundwater was first encountered in boreholes between 21 ft and 23 ft below ground level and appeared to be unconfined. Alternating beds of low and low-to moderate-estimated permeability silty sands and clayey sands were encountered from 1 ft to about 12 to 15 ft below ground level. Moderate-to high-estimated permeability sands were encountered from about 12 ft to about 27 ft below ground level. These sands were underlain by various low-estimated permeability clayey sands and silty clays from about 27 ft to 36 ft below ground level.

Hydrocarbon odors were noted in soil samples from borings B-4, B-8, B-9, B-10, B-11 and B-12, most notably in the vadose zone from 10 ft to 21 ft below ground level and just above first water, at about 21 ft below ground level.

3.2 MONITORING WELL INSTALLATION AND DEVELOPMENT

The WGR standard operating procedure for monitoring well installation and development is included in Appendix A, Borings B-8, B-9, B-10, B-11 and B-12 were completed as 4-inch diameter monitoring wells MW-4, MW-5, MW-6, MW-7 and MW-8, respectively. Well construction details are shown on the boring logs in Appendix B. Well screens varied in length from 7.5 ft to 14.5 ft, with about 2 ft of screen set above static water level to allow for water table fluctuations.

Monitoring wells MW-4 through MW-8 were developed on 23 April 1989 by WGR technicians Beverley Baldwin and Dan Bockus until relatively clear, sand-free water was produced. Development techniques for this site included air-lift, air-surge and water-injection techniques and are described in the WGR standard operating procedure in Appendix A. Development flow rates ranged from 0.5 gallons per minute (gpm) to 2.0 gpm. A total of about 300 gallons of groundwater were purged and stored temporarily onsite pending analytic results.

3.3 WATER SAMPLING

Water samples from monitoring wells MW-1 through MW-8 were collected on 24 April 1989 according to WGR's standard operating procedure included in Appendix A. Three well-casing volumes of groundwater were purged from wells MW-1 through MW-8 by dedicated bladder pumps prior to sampling. The water samples and a laboratory supplied trip blank were sent to Central Coast Analytical Services (CCAS) of San Luis Obispo, California, under chain-of-custody, for analysis by EPA Method 8260, formerly referred to as EPA Method 524.2.

4 WELL SURVEY

Monitoring wells MW-4 through MW-8 were surveyed for top-of-casing (TOC) elevations on 4 May 1989 by John E. Koch, land surveyor, California State license #LS4811. Monitoring wells MW-1 through MW-3 were previously surveyed during the initial site investigation. Groundwater elevations for shallow groundwater were determined from depth-to-water measurements collected on 24 May 1989 (Table 1).

5 HYDROGEOLOGY AND GROUNDWATER FLOW

The site is underlain by relatively homogeneous, stratified, low-to-high-estimated permeability unconsolidated sediments, which appear to correlate between borings. The vadose zone is characterized as having overall low-to-moderate-estimated permeability and is composed of alternating silty sands and clayey sands. The first water-bearing zone appears to be unconfined, as of the time of well completion and is composed of sand, with some interbedded silty sands. It is characterized as having overall moderate-to-high-estimated permeability. The lower confining layer of the first water-bearing zone consists of low-estimated permeability silty clays and silty sands.

A potentiometric map for shallow groundwater in the first water bearing zone is shown in Figure 4. The groundwater elevation in well MW-7 was not used for the potentiometric map because it was considered to be anomalously high. Groundwater flow direction is determined to be to the east with a gradient of 0.004 ft/ft.

6 ANALYTIC RESULTS

6.1 SOIL SAMPLES

Analytic results for soil samples are presented in Table 2. Laboratory reports and QA/QC documentation are included in Appendix C. Chain-of-custody forms are included in Appendix D.

TPPH reported as diesel #2, were detected in 2 soil samples from boring B-8, and 2 soil samples from B-11. TPPH were detected in soil samples collected at 4.5 ft and 9.6 ft from boring B-8, both at 600 parts-per-million (ppm). 1,1,1-trichloroethane (TCA) was detected at 0.1 ppm in the soil sample from boring B-8 at 9.6 ft. A duplicate analysis of the sample collected at 9.6 ft from boring B-8 yielded a concentration of 450 ppm TPPH and 0.09 ppm TCA. TPPH were detected at 680 ppm in a sample from boring B-11 at 19.25 ft. This sample also contained 0.950 ppm total xylenes, 0.140 ppm ethylbenzene, and 0.070 ppm chlorobenzene. TPPH were detected at 45,000 ppm in a sample from boring B-11 collected at 23.5 ft. This sample also contained 4.0 ppm toluene, 12.0 ppm total xylenes, 3.5 ppm ethylbenzene, and 0.2 ppm TCA. A duplicate analysis of this sample from 23.5 ft from boring B-11 indicated TPPH concentrations at 50,000 ppm; toluene, total xylenes, and ethylbenzene were detected at 4.1 ppm, 20.0 ppm, and 5.0 ppm, respectively.

Toluene was detected at a concentration of 0.003 ppm for soil samples collected at 9.5 ft and 21.0 ft from boring B-12.

Oil and grease were detected at 80 ppm in a soil sample collected at 21.0 ft from boring B-9. This sample also contained total chromium (Cr) at 27 ppm and zinc (Zn) at 17 ppm. Cadmium (Cd) was below the detection limit of 10 ppm, and total lead (Pb) was below the detection limit of 1 ppm.

6.2 WATER SAMPLES

Analytic results are presented in Table 3. Chain-of-custody forms, analytic reports, and laboratory QA/QC runs are included in Appendices C, D and E respectively.

TPPH, characterized as gasoline, were detected in the ground water sample from monitoring well MW-7 at 8400 ppb. Groundwater samples from all other wells were below the detection limit of 50 ppb for TPPH. The groundwater sample from well MW-7 also contained benzene, toluene, ethylbenzene, and total xylenes (BTEX) at 100 ppb, 260 ppb, 1300 ppb and 160 ppb, respectively.

Oil and grease were detected at 3 ppm for groundwater samples from monitoring wells MW-7 and MW-8. Groundwater samples from all other wells were below the detection limit of 3 ppm for oil and grease.

Carbon tetrachloride was detected in groundwater samples from all monitoring wells in concentrations ranging from 2.0 ppb to 35.0 ppb. Chloroform was also detected in all samples from all monitoring wells ranging from 7.0 ppb to 11.0 ppb. Tetrachloroethene (PCE) and 1,2-Dichloroethene (1,2-DCE) were detected in groundwater samples from wells MW-2, MW-3, MW-5, and MW-8 in concentrations ranging from 2.0 ppb to 110.0 ppb. Trichloroethene (TCE) was detected in samples from wells MW-2 and MW-3 at concentrations of 3.0 ppb.

Cd was detected at 0.008 ppm in the groundwater samples from well MW-8. Cr was detected in samples from all wells at low levels ranging from 0.005 ppm to 0.031 ppm. Pb was detected in samples from wells MW-1, MW-7, and MW-9 at 0.018 ppm, 0.18 ppm, and 0.007 ppm, respectively. Zn was detected in samples from all wells at concentrations ranging from 0.087 ppm to 7.5 ppm.

Distribution maps of PCE and halocarbons including chloroform, carbon tetrachloride, t-1,2-DCE, TCE and PCE are shown in Figures 5 and 6, respectively.



A well canvass for a one-quarter mile radius area around the site was performed by the Alameda County Water Conservation and Flood Control District for all registered wells, during the previous investigation in December 1988 (WGR). No wells were found.

012R1JN9 9

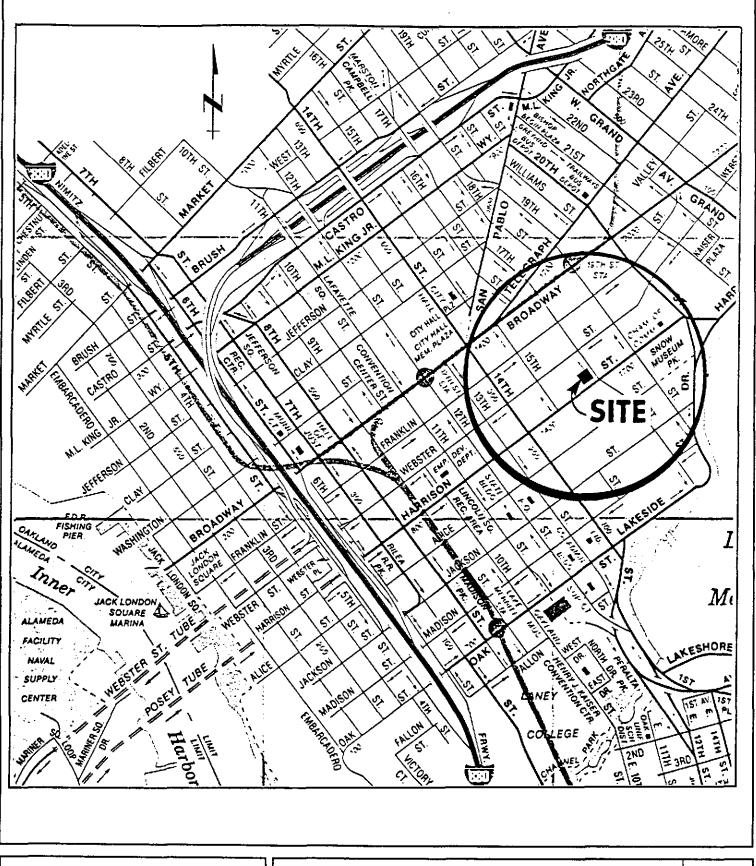
8 SUMMARY

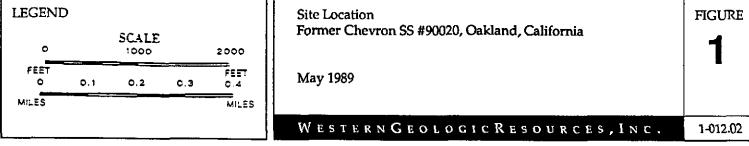
TPPH reported as diesel #2 were detected in soil samples collected at 4.5 ft and 9.6 ft from boring B-8, both at 600 ppm. TCA was detected at 0.1 ppm in the soil sample from 9.6 ft. TPPH were detected in soil samples collected at 19.25 ft and 23.5 ft from boring B-11 at 680 ppm and 50,000 ppm, respectively. The soil sample from 19.25 ft also contained total xylenes, ethylbenzene and chlorobenzene at 0.95 ppm, 0.14 ppm, and 0.17 ppm, respectively. The soil sample from 23.5 ft also contained toluene, ethylbenzene, and total xylenes at 4.1 ppm, 20.0 ppm, 50.0 ppm, respectively. Toluene was detected at a concentration of 0.003 ppm for soil samples collected at 9.5 ft and 21.0 ft from boring B-12. Oil and grease were detected in a soil sample from B-9. This sample also contained low concentrations of Cr and Zn.

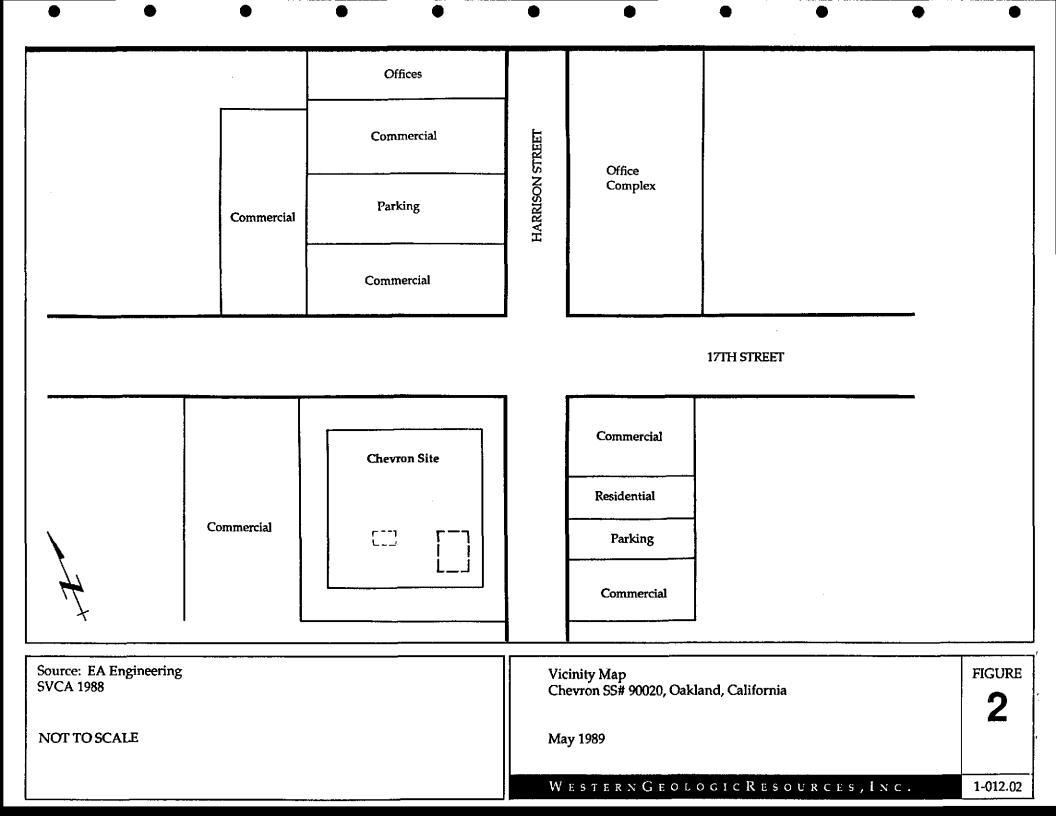
TPPH, characterized as gasoline, were detected in the groundwater sample from well MW-7 at 8,400 ppb. This sample also contained BTEX at 100 ppb, 260 ppb, 1300 ppb, and 160 ppb, respectively. Various halocarbons were noted in all of the monitoring wells, at concentrations of 2 ppb to 110 ppb including carbon tetrachloride, chloroform, 1,2-dichloroethene, trichloroethene, and tetrachloroethene. Oil and grease were detected in water samples from wells MW-7 and MW-8, both at 3 ppm. The metals Cr and Zn were detected in low concentrations in samples from all of the wells. Cd and Pb were detected in low concentrations in some of the wells.

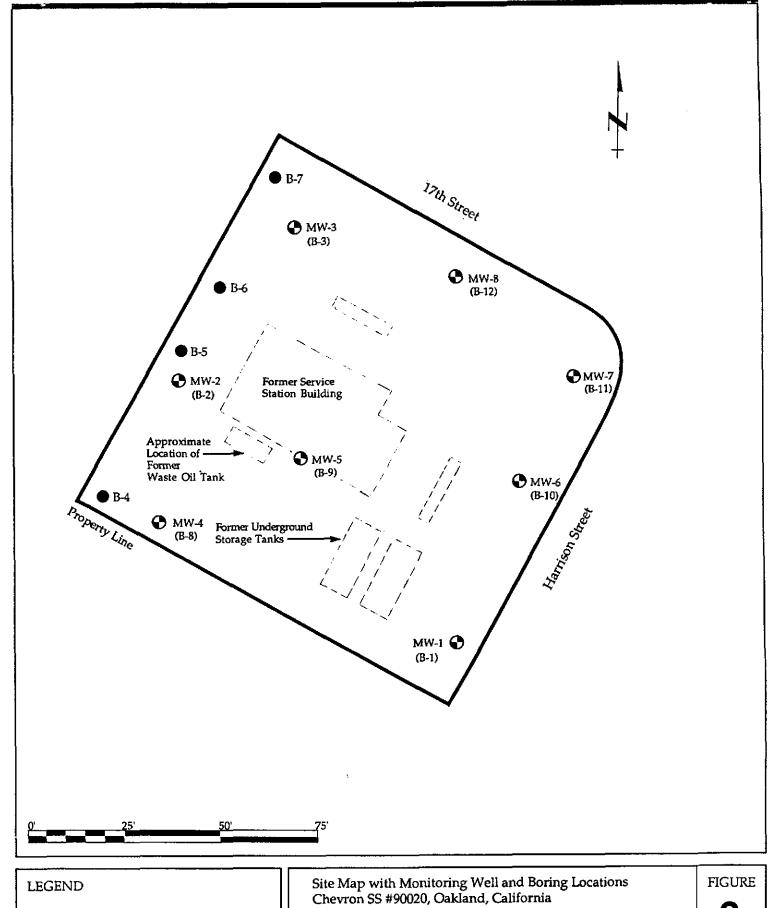
No registered wells were found inside a one-quarter mile radius around the site. Groundwater flow direction is to the east, at a gradient of 0.004 ft/ft.

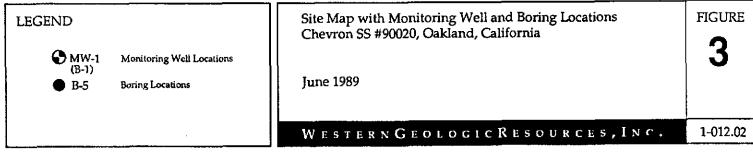
10

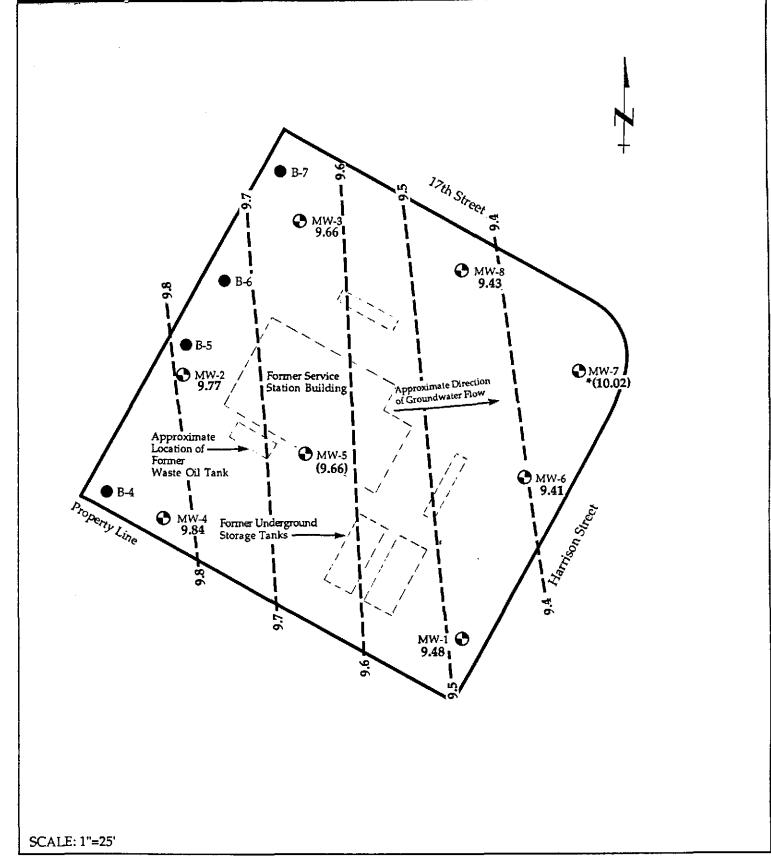




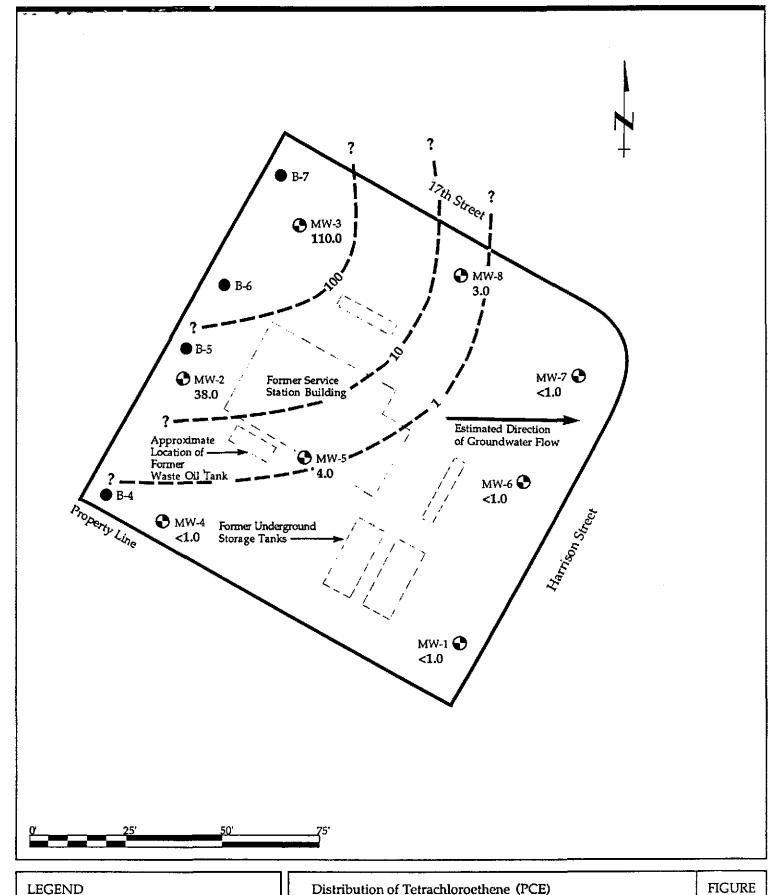


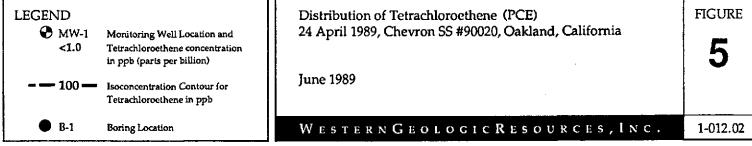


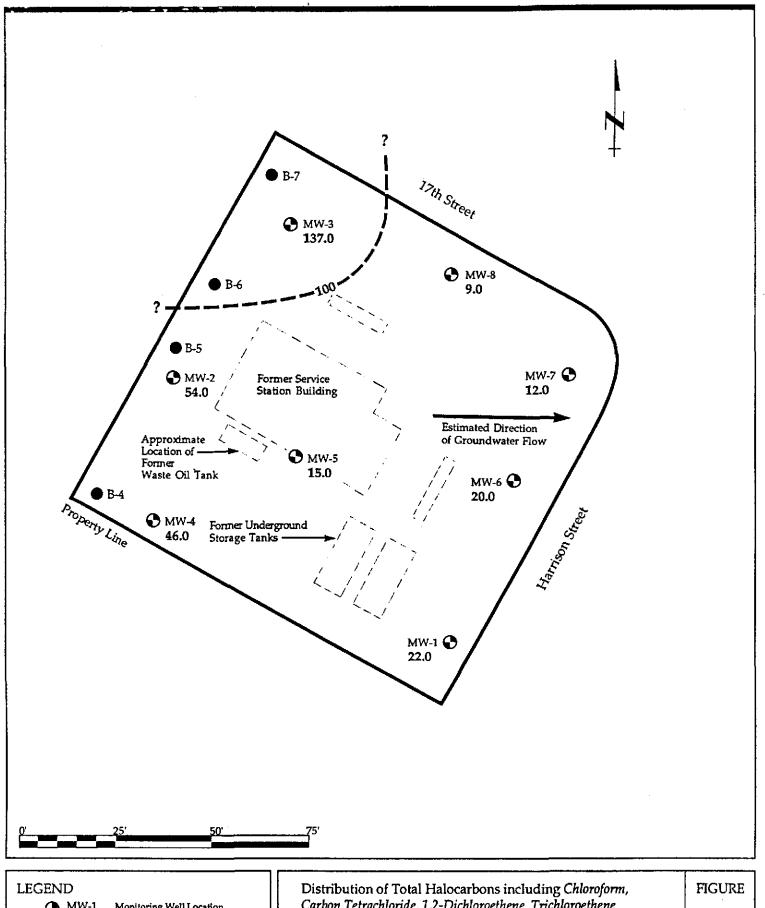




LEGEND FIGURE Potentiometric Surface of the Shallow Water-Bearing Zone Monitoring Well Location Static Water Level Elevation (MSL) ♠ MW-1 23 April 1989, Chevron SS #90020, Oakland, California 9.48 23 April 1989 4 **B**−4 Boring Location Groundwater Elevation Contour, Feet Above Mean Sea Level, Dashed 9.4 Where Inferred WESTERN GEOLOGIC RESOURCES, INC. 1-012.02 Anomalous Elevation Not Used







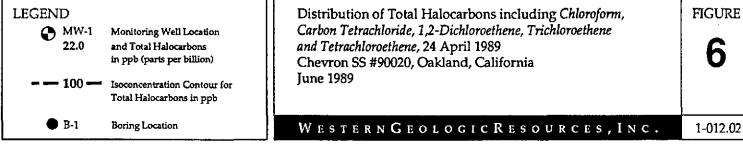


TABLE 1. Groundwater and Top-of-Casing Elevations Chevron Service Station #90020, Oakland, California WGR Job # 1-012.02

Monit Well		Date		TOC	DTW	ElevW
MW-1	23	Apr	89	29.82	20.34	9.48
MW-2	23	Apr	89	30.59	20.82	9.77
MW-3	23	Apr	89	30.09	20.43	9.66
MW-4	23	Apr	89	31.17	21.33	9.84
MW-5	23	Apr	89	30.28	20.62	9.66
MW-6	23	Apr	89	29.46	20.05	9.41
MW-7	23	Apr	89	29.01	18.99	10.02
MW-8	23	Apr	89	29.57	20.14	9.43

Notes:

TOC = Top Of Casing Elevation, feet above mean sea level

DTW = Depth To Water

Elev.-W = Elevation Of Water, feet above mean sea level

Table 2. ANALYTIC RESULTS FOR SOIL SAMPLES
Former Chevron SS #90020
Oakland, California
WGR Project # 1-012.01

SAMPLE	DEPTH	TPPH	BENZENE	TOLUENE	XYLENES	E-BENZENE	CT	PCE	TCE	TCA
ID	(ft)	<			PPM					
8-4	6.0	<5.0	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005
B-4	16.0	<2.0	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
B-4	23.2	<2.0	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
B-5	9.5	<2.0	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
B-5	14.5	<2.0	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
B-5	22.0	<2.0	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
B-6	9.5	<2.0	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
B-6	14.5	<1.0	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
B-6	22.0	<1.0	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
B-7	4.2	<1.0	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.00
B-7	9.2	<1.0	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.00
B-7	14.0	<0.5	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.00
B-7	21.6	<0.5	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.00
B-8	4.5	600	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.00
B-8	9.6	600	<0.01	<0.01	<0.020	<0.01	<0.01	<0.01	<0.01	(0.1
B-8	9.6	450	<0.02	<0.02	<0.040	<0.02	<0.02	<0.02	<0.02	0.09
B-8	14.5	<1.0	<0.02	<0.02	<0.004	<0.02	<0.02	<0.02	<0.02	<0.002
B-8	22.5	<1.0	<0.02	<0.02	<0.004	<0.02	<0.02	<0.02	<0.02	<0.002
B-8	29.5	<1.0	<0.02	<0.02	<0.004	<0.02	<0.02	<0.02	<0.02	<0.00
B-8	34.5	<1.0	<0.02	<0.02	<0.004	<0.02	<0.02	<0.02	<0.02	<0.00
B-9	9.0	<0.5	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.00
B-9	14.0	<0.5	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.00
B-9	21.0	<0.1	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.00
B-9	29.5	<0.5	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.00
B-9	33.5	<5.0	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.00

Table 2 (continued)

SAMPLE	DEPTH	TPPH	BENZENE	TOLUENE	XYLENES	E-BENZENE	CT	PCE	TCE	TCA
ID	(ft)	<			PPM					>
B-10	9.5	<1.0	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
B-10	14.5	<1.0	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
B-10	21.5	<1.0	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
B-10	27.0	<1.0	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
B-11	9.5	<0.1	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
B-11	14.25	<2.0	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
B-11	19.25	680	<0.01	<0.01	0.950	0.140	<0.010	<0.010	<0.010	<0.010
B-11	23.50	45,000	<0.1	4.0	12	3.500	<0.1	<0.1	<0.1	(0.2)
B-11	23.50	50,000	<0.2	4.1	20	5.0	<0.2	<0.2	<0.2	<0.2
B-11	29.50	<1.0	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001
B-12	9.50	<1.0	<0.002	0.003	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
B-12	14.50	<2.0	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005
8-12	21.00	<1.0	<0.002	0.003	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
B-12	24.25	<1.0	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
B-12	27.50	<1.0	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002
SAMPLE	DEPTH	0 & G	Cd	- Cr	Pb	Zn				
10	(ft)	<	рр	M	• • • • • • • • • • • • • • • • • • • •	>				
B-9	21.0	80	<10	27	<1	17				

NOTES

E-Benzene = Ethylbenzene

TPPH = Total purgeable petroleum hydrocarbons analyzed by Central Coast

PPB = Parts per billion

PPM = Parts per million

CT = Carbon Tetrachloride

PCE = Tetrachloroethene

TCE = Trichloroethene

TCA = 1,1,1-Trichloroethane

O&G = Oil and gas

Cd = Cadmium

Cr = Chromuim

Pb = Lead

Zn = Zinc

* = Chlorobenzene at 0.07 ppm

TABLE 3. Analytic Results for Groundwater
Former Chevron Service Station 90020
Oakland, California

Monitor Well	Date	FC	THF/TPPH <		Benzene	Toluene	Xylenes	E-Benzene ppb	Carb Tet	Chlor	PCE	TCE	t-1,2-DCE	c-1,2-DCE
MW-1	3 Nov 88		<1000.0		<1.0	<1.0	<1.0	<1.0	18.0	7.0	<1.0	<1.0	<1.0	
MW-1	10 Feb 89		<100.0		<0.2	<0.2	<0.4	<0.2	17.0	6.0	<0.2	<0.2	<0.2	<0.2
MW-1	24 Apr 89		<50.0		<0.5	<1.0	<1.0	<1.0	16.0	6.0	<1.0	<1.0	<1.0	
MW-2	3 Nov 88		<1000.0		<1.0	<1.0	<1.0	<1.0	3.0	2.0	34.0	3.0	10	?
MW-2	10 Feb 89		<100.0		<0.2	<0.2	<0.4	<0.2	1.4	1.0	17.0	<0.2	<0.2	6.3
MM-5	24 Apr 89	•••	<50.0		<0.5	<1.0	<1.0	<1.0	2.0	2.0	38.0	3.0	9.0*	
MU-3	3 Nov 88		<1000.0		<1.0	<1.0	<1.0	<1.0	8.0	6.0	84.0	3.0	5.0	
MW-3	10 Feb 89		<100.0		<0.2	<0.2	<0.4	<0.2	5.8	4.0	53.0	1.9	<0.2	9.0
MU-3	24 Apr 89		<50.0		<0.5	<1.0	<1.0	<1.0	7.0	6.0	110.0	3.0	11.0*	
MW-4	24 Apr 89		<50.0	•••	<0.5	<1.0	<1.0	<1.0	35.0	11.0	<1.0	<1.0	<1.0	
MW-5	24 Apr 89		<50.0		<0.5	<1.0	<1.0	<1.0	4.0	5.0	4.0	<1.0	2.0*	•••
MW-6	24 Apr 89		<50.0		<0.5	<1.0	<1.0	<1.0	13.0	7.0	<1.0	<1.0	<1.0	***
MW-7	24 Apr 89		8400.0	3	** 100.0	260.0	1300.0	160.0	3.0	9.0	<1.0	<1.0	<1.0	
8-WM	24 Apr 89	•••	<50.0	3	<0.5	<1.0	<1.0	<1.0	2.0	3.0	3.0	<1.0	4.0*	
ТВ	10 Feb 89		<50.0		<0.1	<0.1	<0.2	<0.1	<0.1	<0.5	<0.1	<0.1	<0.1	<0.1

Table 3, Continued

Monitor	Date	CAD IUM	CHROMUIM	LEAD	ZINC
MW-1	24 Apr 89				
MW-2	24 Apr 89	<0.001	0.031	<0.005	1.1
MW-3	24 Apr 89	<0.001	0.020	<0.005	0.087
MW-4	24 Apr 89	<0.001	0.029	<0.005	1.2
MW-5	24 Apr 89	<0.001	0.022	<0.005	0.40
MW-6	24 Apr 89	<0.001	0.006	<0.005	1.2
MW-7	24 Apr 89	0.008	0.006	0.18	140
MW-8	24 Apr 89	<0.001	0.005	0.007	0.38

Notes:

** - Acetone 50 ppb, 2-Butanone 160 ppb

FC - Fuel characterization

TFH/TPPH - Total fuel hydrocarbons/Total purgeable petroleum hydrocarbons

TB - Travel blank

E-Benzene - Ethyl benzene

Carbon Tet - Carbon Tetrachloride

* = cis and trans isomers

Chlor - Chloroform

PCE - Tetrachloroethene

TCE - Trichloroethene

1,2 DCE - 1,2-Dichloroethene

t = trans

c = cis

ATTACHMENT A

STANDARD OPERATING PROCEDURES

STANDARD OPERATING PROCEDURES RE: SOIL SAMPLING SOP-2

Soil samples for chemical analysis are collected in thin-walled brass tubes, 4-inches long by 2-inches outside diameter. Four of these tubes and a spacer tube are set in a 2-inch inside diameter 18-inch split-barrel sampler.

The split-barrel sampler is driven its entire length either hydraulically or using a 140-pound drop hammer. The sampler is extracted from the borehole and the brass tubes, containing the soil samples, are removed. Upon removal from the sampler, the selected brass tubes are immediately trimmed and capped with aluminum foil and plastic caps. They are then hermetically sealed with duct tape, labeled and refrigerated for delivery, under chain-of-custody, to the analytic laboratory. These procedures minimize the potential for cross-contamination and volatilization of volatile organic compounds (VOC) prior to chemical analysis.

One soil sample collected at each sampling interval is analyzed in the field using either a photoionization detector (PID), a flame ionizing detector (FID), or an explosimeter. The purpose of this field analysis is to qualitatively determine the presence or absence of hydrocarbons and to establish which soil samples will be analyzed at the laboratory. The soil sample is sealed in a zip-lock plastic bag and placed in the sun to enhance volatilization of the hydrocarbons from the sample. The data is recorded on the drill logs at the depth corresponding to the sampling point.

Other soil samples are collected to document the stratigraphy and estimate relative permeability of the subsurface materials. All drilling and sampling equipment are steam-cleaned prior to use at each site and between boreholes to minimize the potential for cross-contamination.

STANDARD OPERATING PROCEDURES RE: HOLLOW-STEM AUGER MONITORING WELL INSTALLATION AND DEVELOPMENT SOP-3

The boreholes for monitoring wells are drilled using a truck-mounted hollow-stem auger drill rig. The outside diameter (OD) of the borehole will be a minimum of two inches larger than the casing OD when installing 4-inch well screen. The hollow-stem auger provides minimal interruption of drilling while permitting soil sampling at desired intervals. Soil samples are collected by hammering a conventional split-barrel sampler containing pre-cleaned 2-inch brass sample tubes. A geologist from Western Geologic Resources continuously logs each borehole during drilling and constantly checks drill cuttings for odors. The sampler is rinsed between samples and steam-cleaned with all other drilling equipment between borings to prevent cross-contamination.

Monitoring wells are cased with threaded, factory-perforated and blank Schedule 40 PVC. The perforated interval consists of slotted casing, generally 0.020-inch wide by 1.5-inch long slot size, with 42 slots per foot. A PVC cap is fastened to the bottom of the casing with stainless steel screws; no solvents or cements are used. Centering devices may be fastened to the casing to assure even distribution of filter material and grout within the borehole annulus. The well casing is thoroughly washed and steam-cleaned prior to installation.

After setting the casing inside the hollow stem, sand or gravel filter material is poured into the annular space to fill from the bottom of the boring to 1 foot above the perforated interval. A 1- to 2-foot thick bentonite plug is placed above this filter material to prevent grout from infiltrating down into the filter material. Neat cement, containing about 5% bentonite, is then tremied into the annular space from the top of the bentonite plug to the surface. A lockable PVC cap is placed on each wellhead. Traffic-rated Christy boxes are installed around the wellhead for wells in parking lots and driveways while steel stove pipes are usually set over wellheads in landscaped areas.

After installation, the wells are thoroughly developed to remove residual drilling materials from the wellbore, and to improve well performance by removing any fine material in the filter pack that can pass from the formation into the well. Well development techniques used include pumping, bailing, surging, swabbing, jetting, flushing, and airlifting. All development water is collected in 55-gallon drums for temporary storage, and is then disposed of properly depending on analytic results. To assure that cross-contamination does not occur between wells during drilling and development, all development equipment is steam-cleaned.

STANDARD OPERATING PROCEDURES RE: GROUNDWATER PURGING AND SAMPLING SOP-4

Prior to water sampling, each well is purged by evacuating a minimum of three well-casing volumes of groundwater or until the discharge water temperature, conductivity, and pH stabilize. The groundwater sample should be taken when the water level in the well recovers to 80% of its static level.

The sampling equipment used consists of either a teflon bailer or a stainless steel bladder pump with a teflon bladder. If the sampling system is dedicated to the well, then the bailer is made of teflon, but the bladder pump is PVC with a polypropylene bladder. Forty milliliter (ml) glass volatile-organic-analysis (VOA) vials, with teflon septa, are used as sample containers.

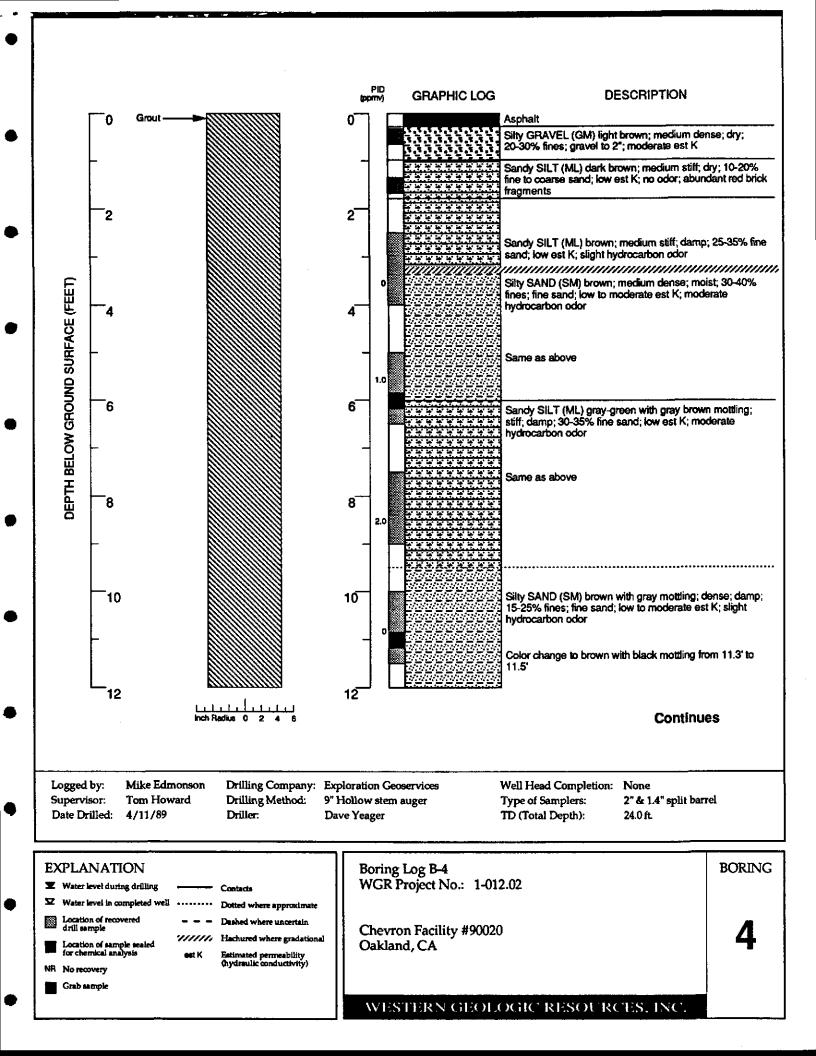
The groundwater sample is decanted into each VOA vial in such a manner that there is a meniscus at the top of the vial. The cap is quickly placed over the top of the vial and securely tightened. The VOA vial is then inverted and tapped to see if air bubbles are present. If none are present, the sample is labeled and refrigerated for delivery under chain-of-custody to the laboratory. Label information should include a sample identification number, job identification number, date, time, type of analysis requested, and the sampler's name.

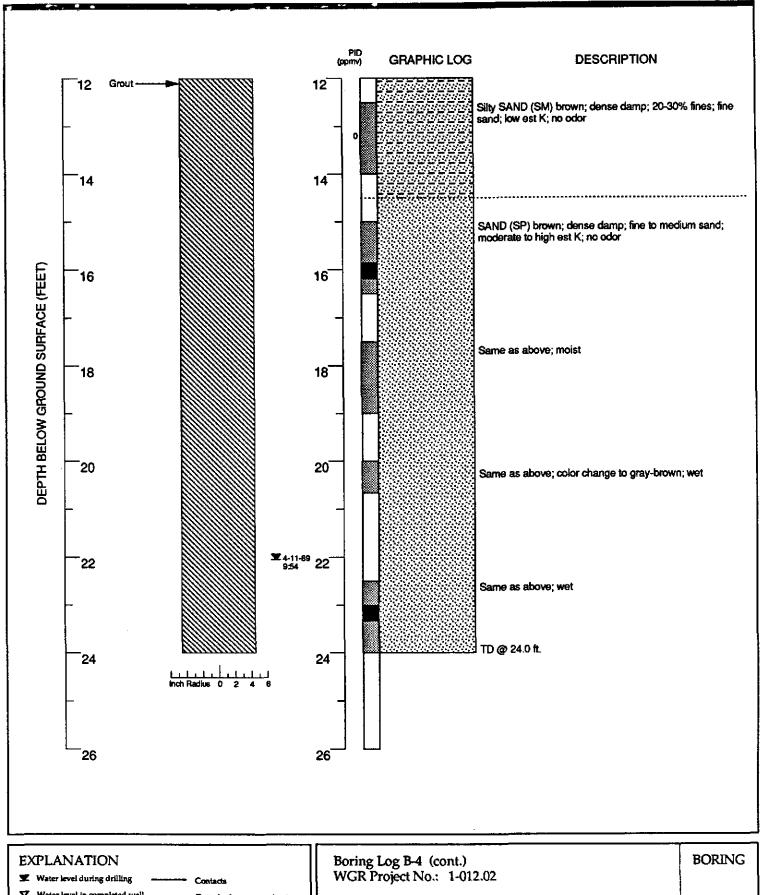
For quality control purposes, a duplicate water sample is collected for each well. This sample is held at the laboratory unless needed. A trip blank is prepared at the laboratory and placed in the transport cooler. It remains with the cooler and is analyzed by the laboratory along with the groundwater samples. A field blank is prepared in the field when sampling equipment is not dedicated. The field blank is prepared after a pump or bailer has been steam-cleaned, prior to use in a second well, and is analyzed along with the other samples. The field blank demonstrates the quality of in-field cleaning procedures to prevent cross-contamination.

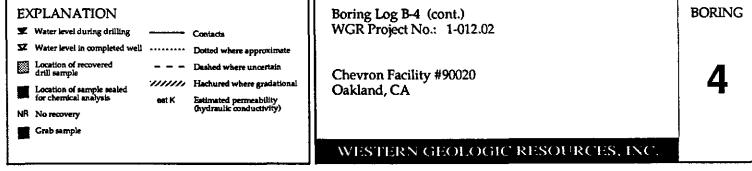
To minimize the potential for cross-contamination between wells, all the well-development and water-sampling equipment that is not dedicated to a well is steam-cleaned between each well. As a second precautionary measure, wells will be sampled in order of least to highest concentrations as established by previous analyses.

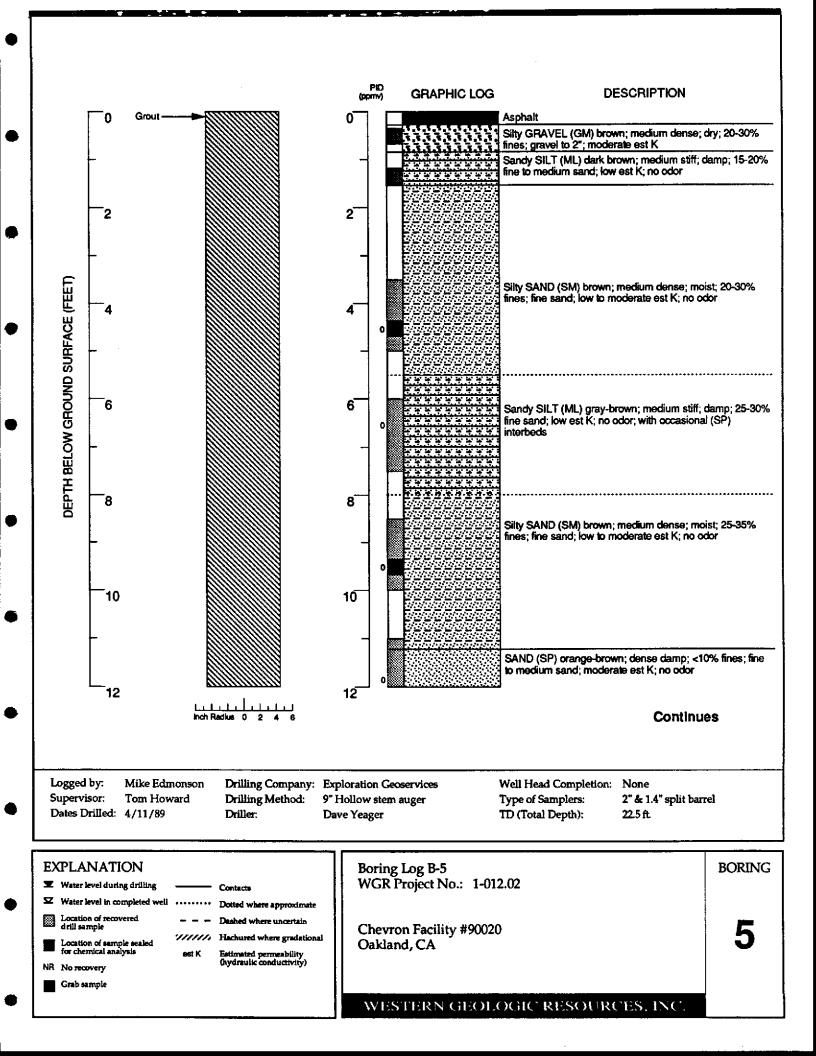
ATTACHMENT B

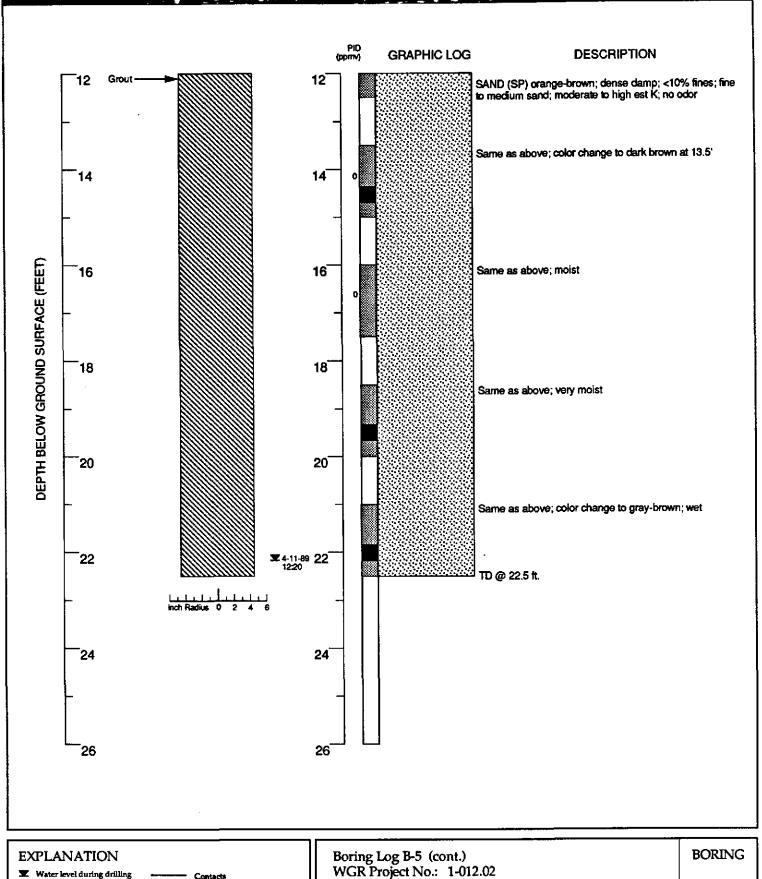
BORING LOGS

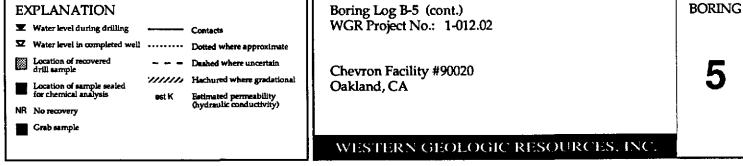


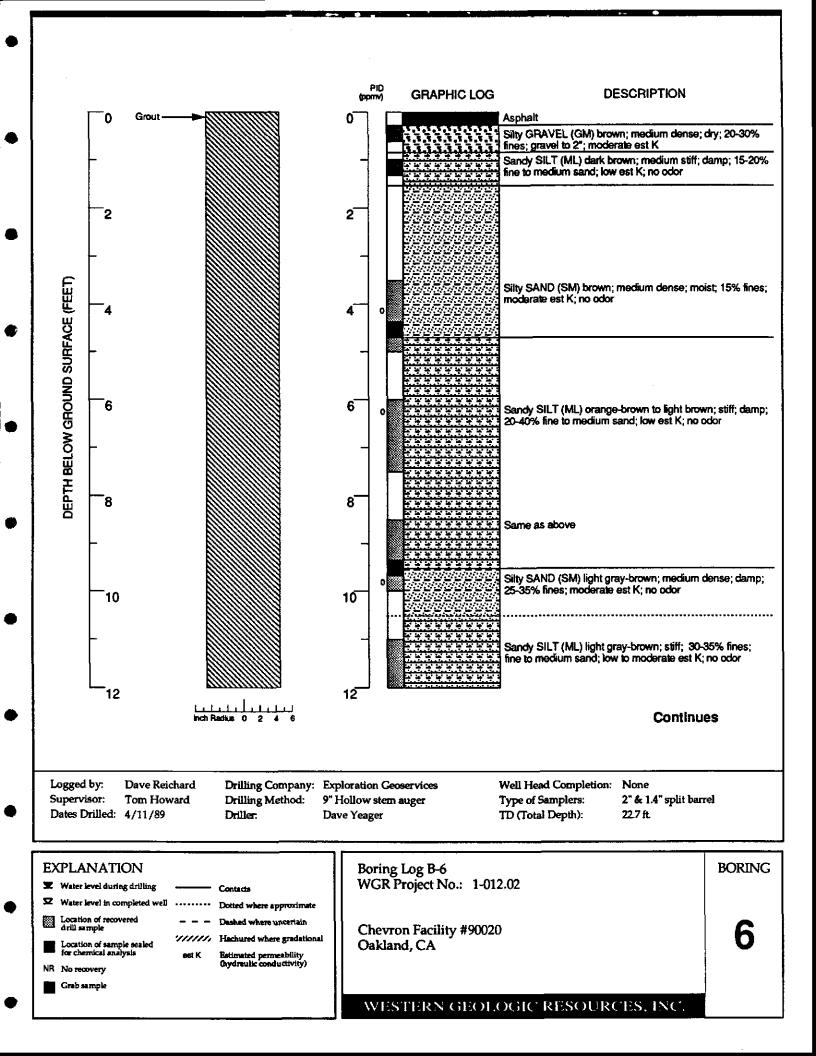


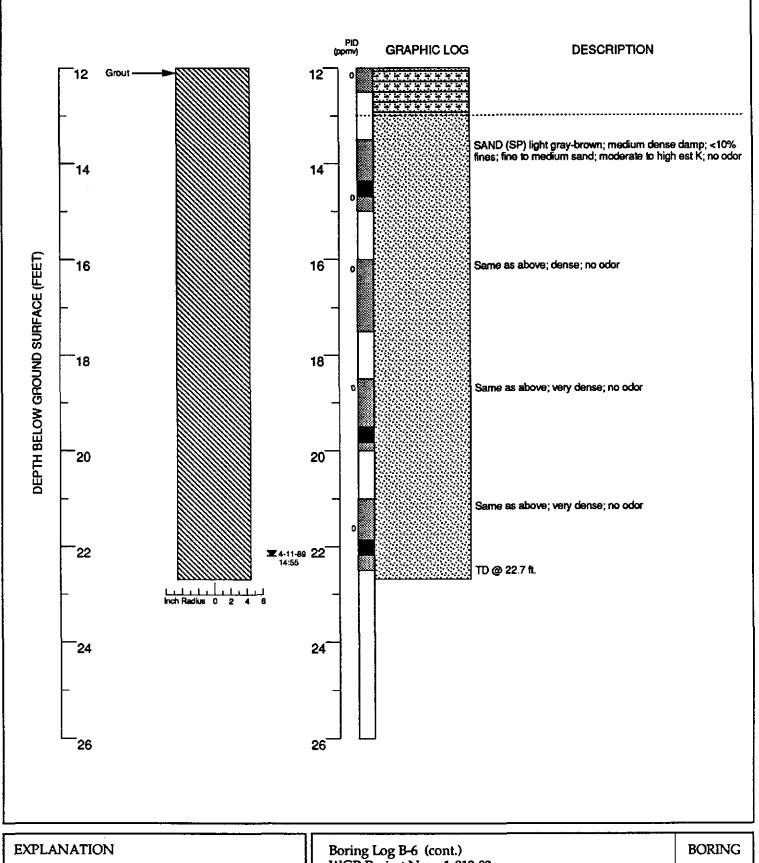


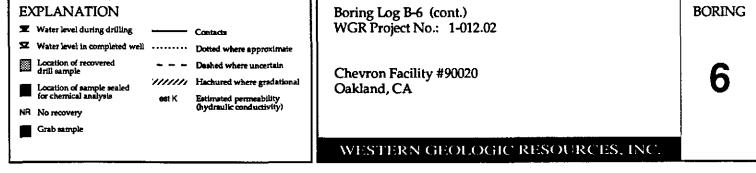


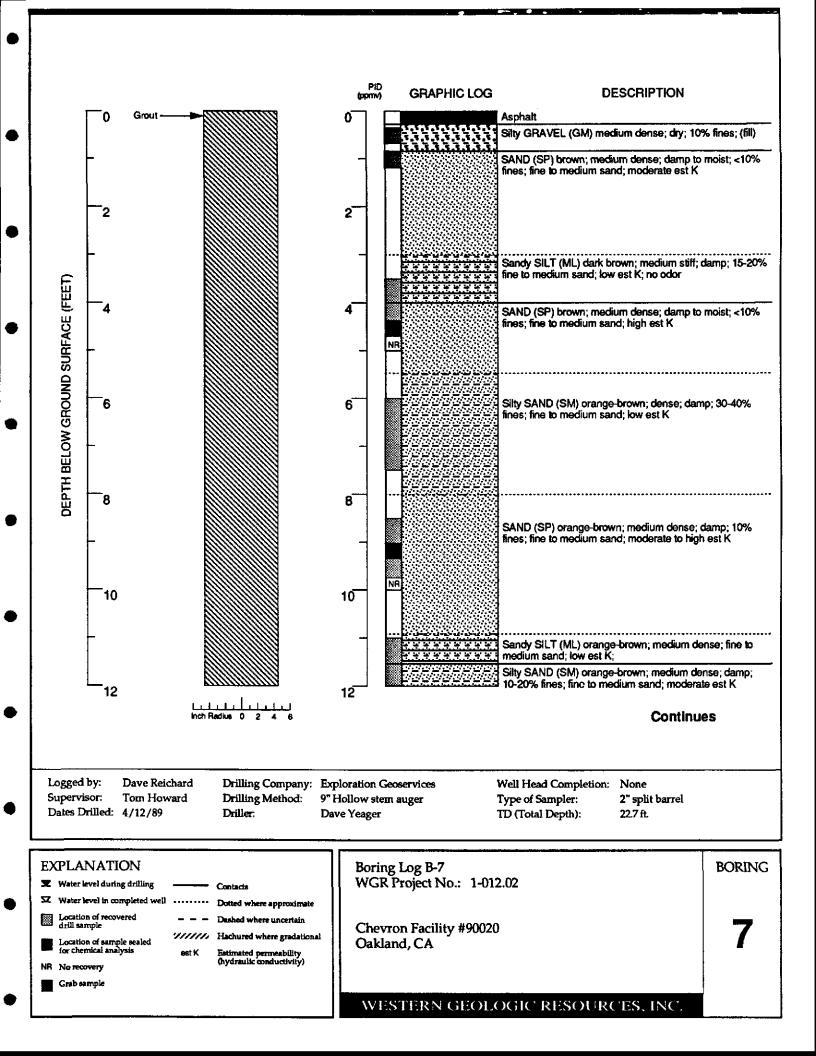


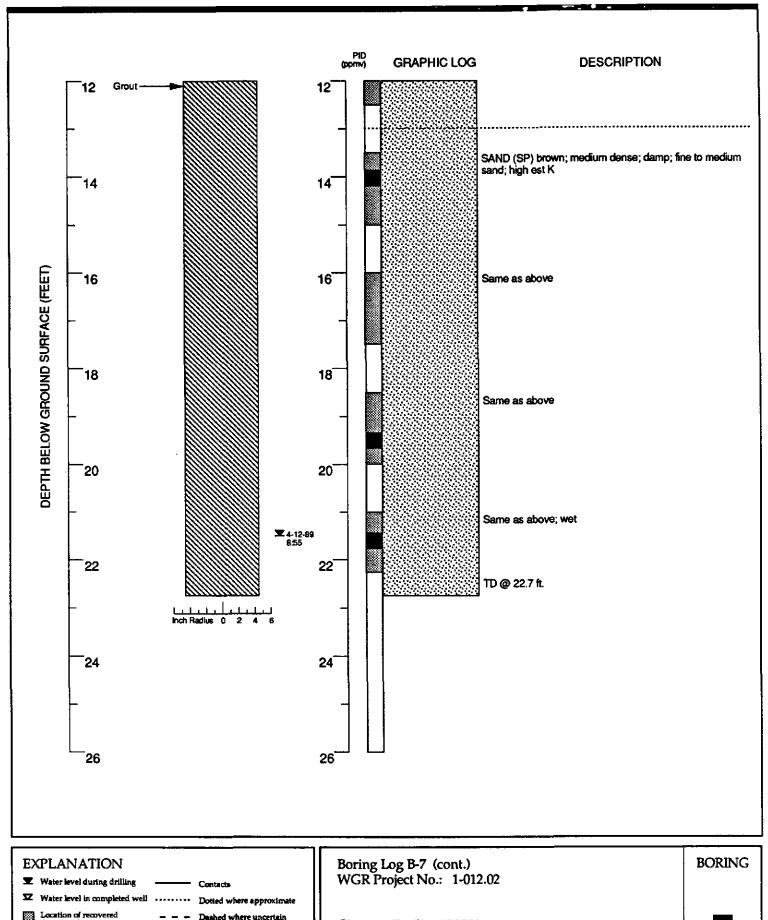


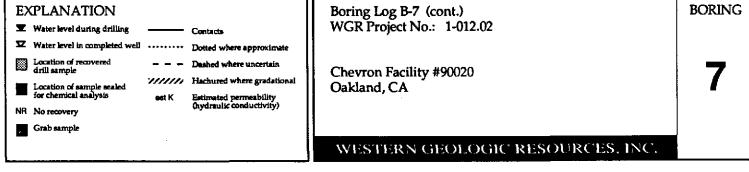


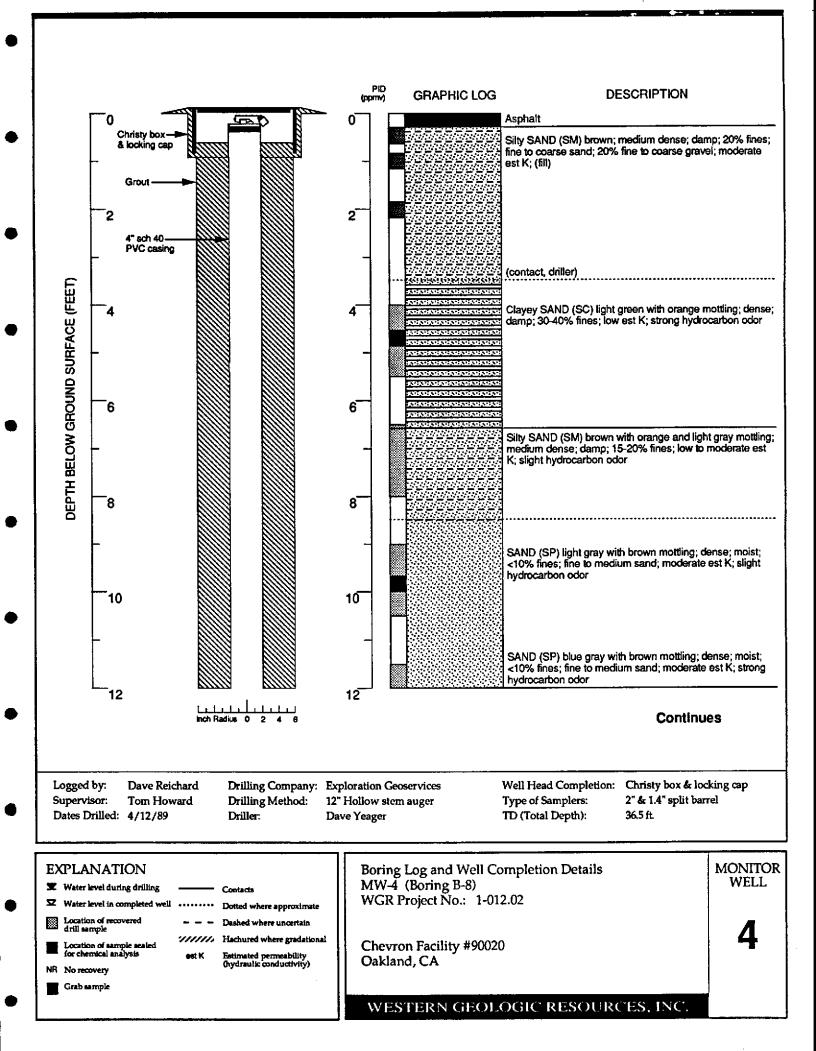


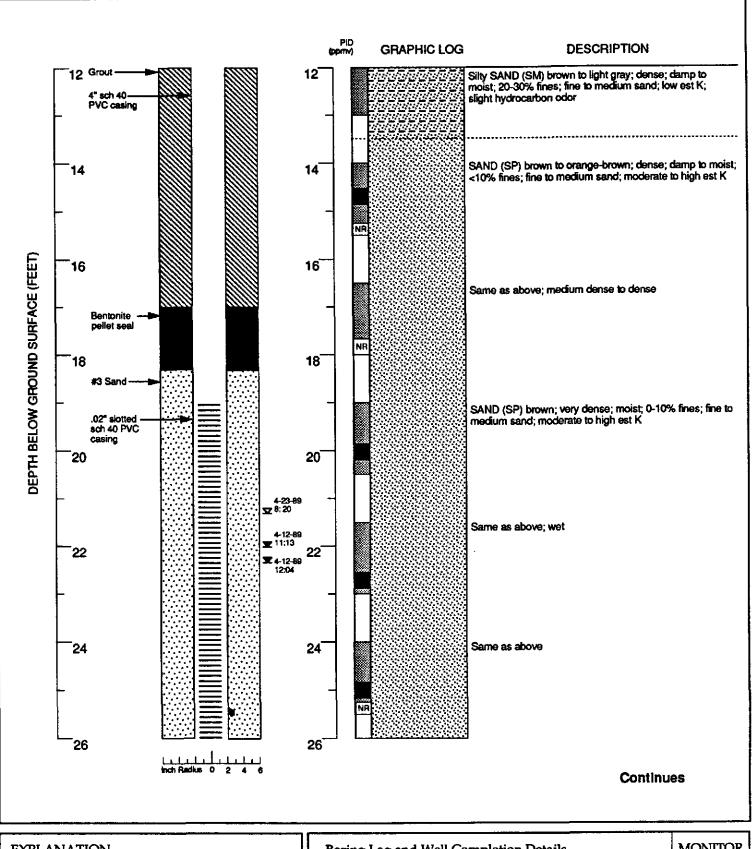


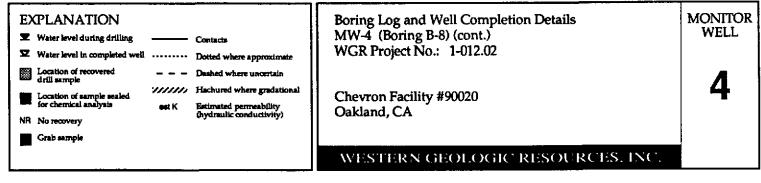


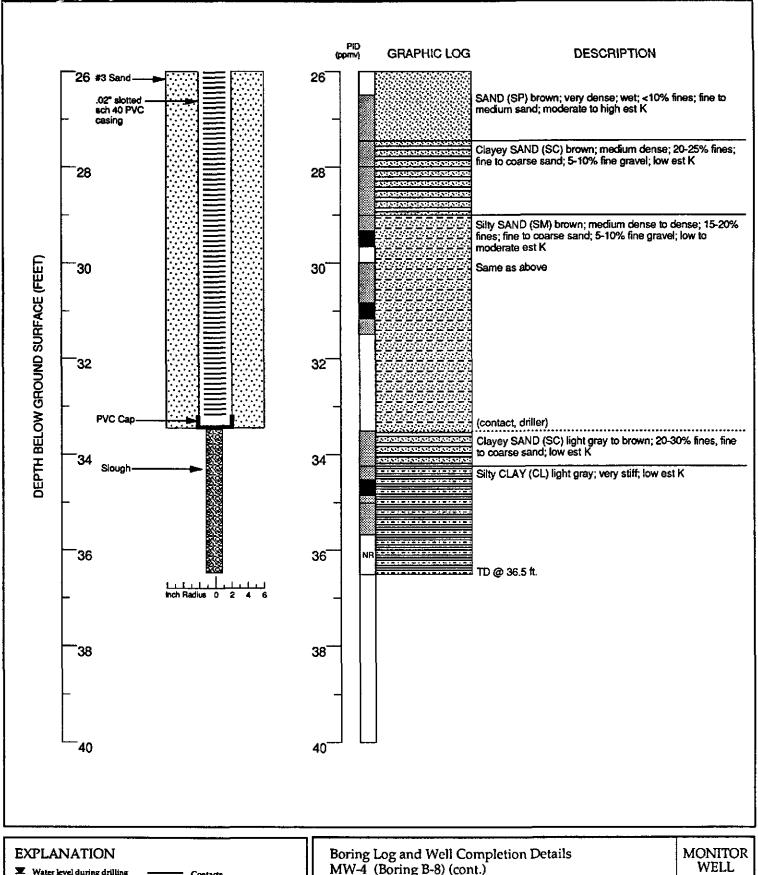


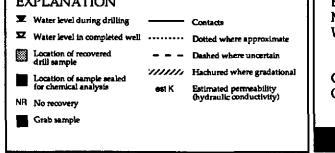








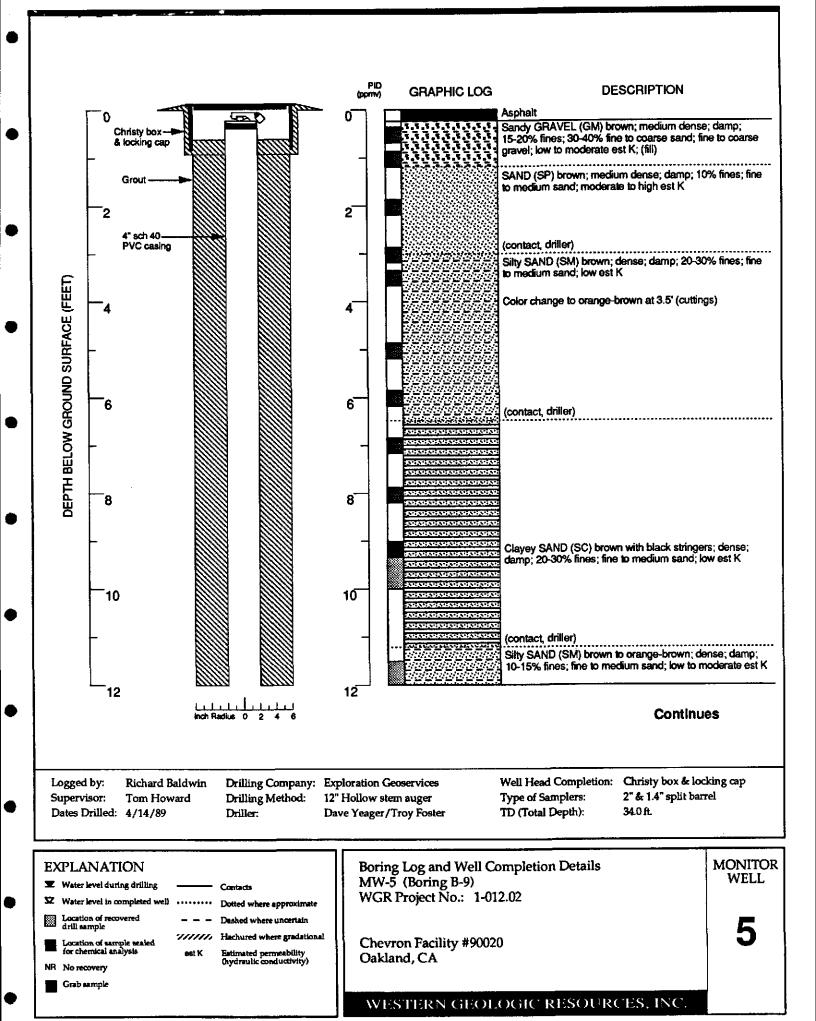


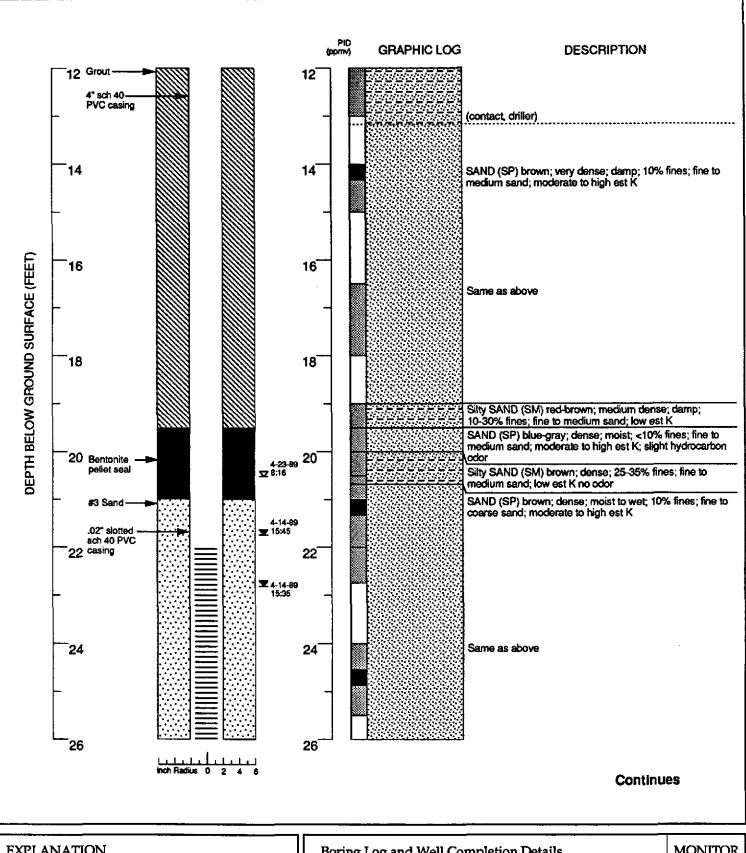


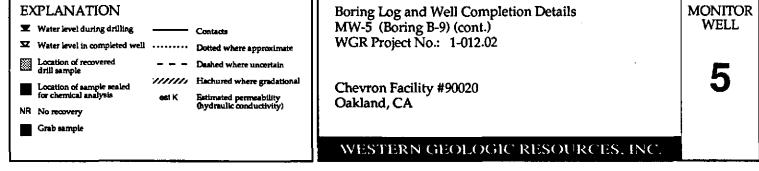
MW-4 (Boring B-8) (cont.) WGR Project No.: 1-012.02

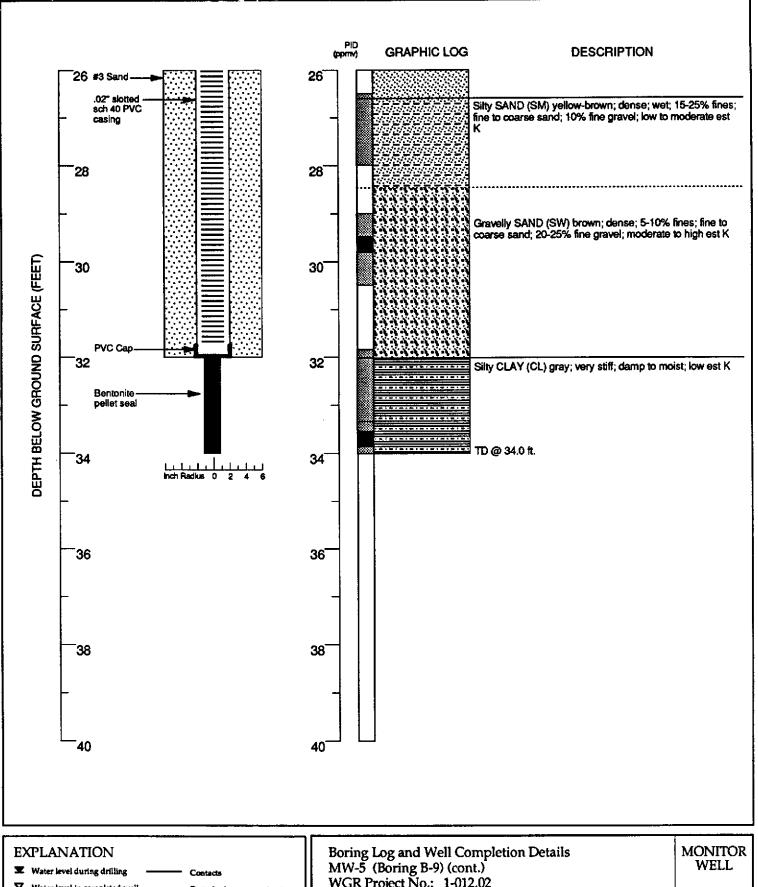
Chevron Facility #90020 Oakland, CA

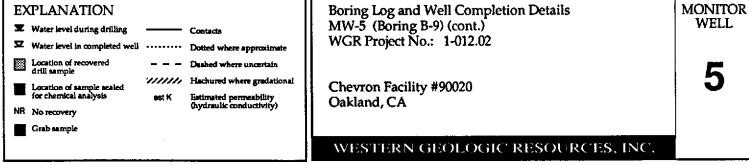
WESTERN GEOLOGIC RESOURCES, INC.

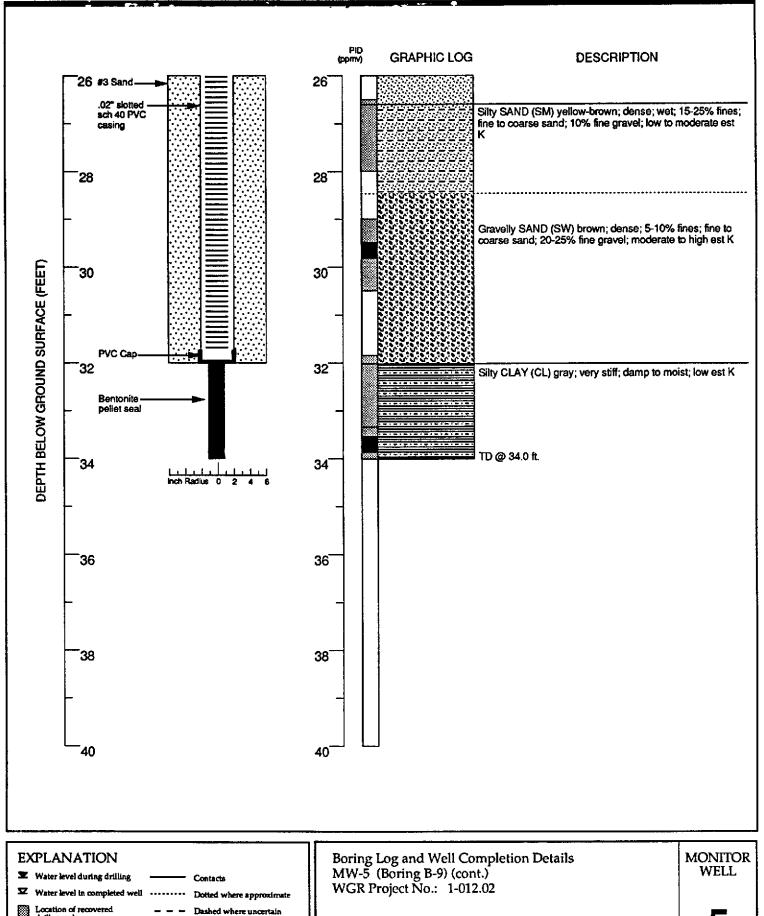


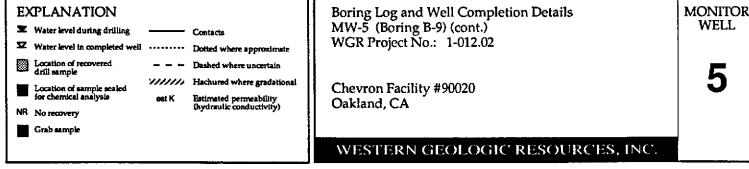


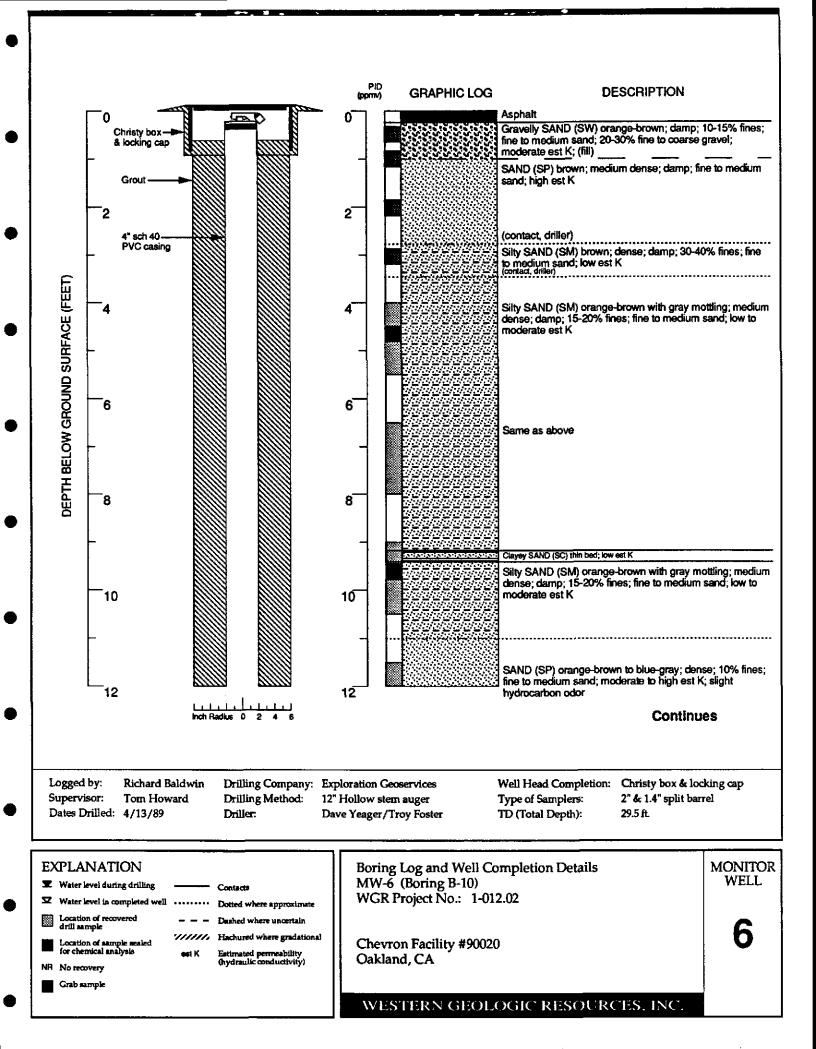


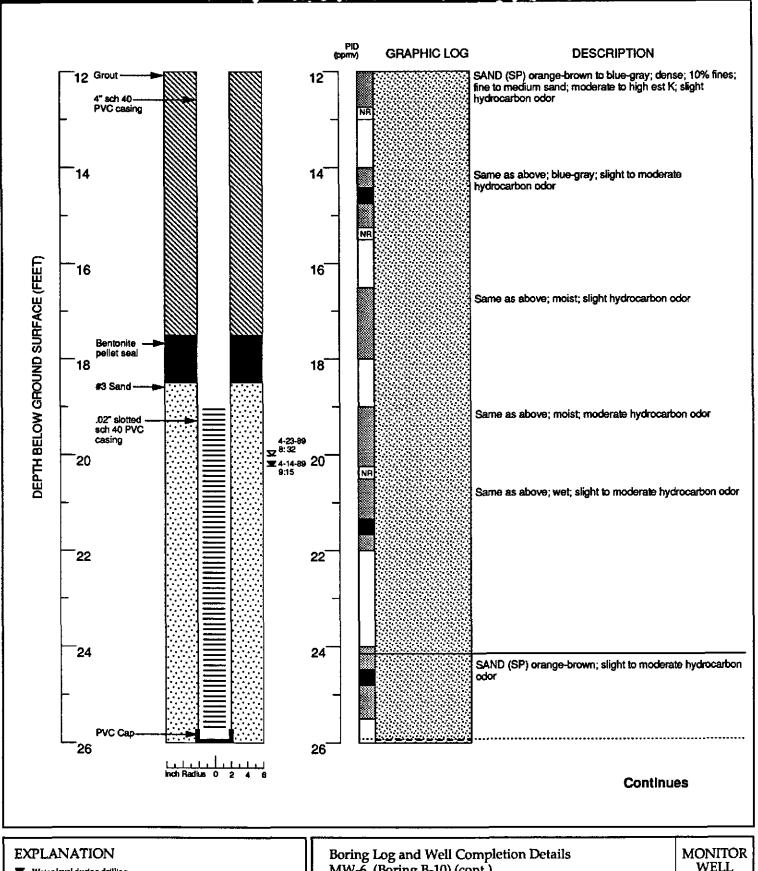


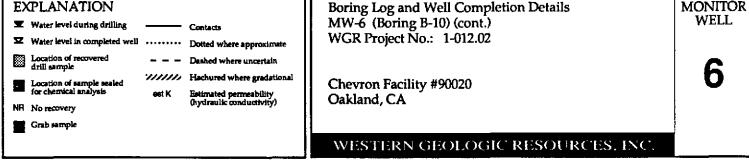


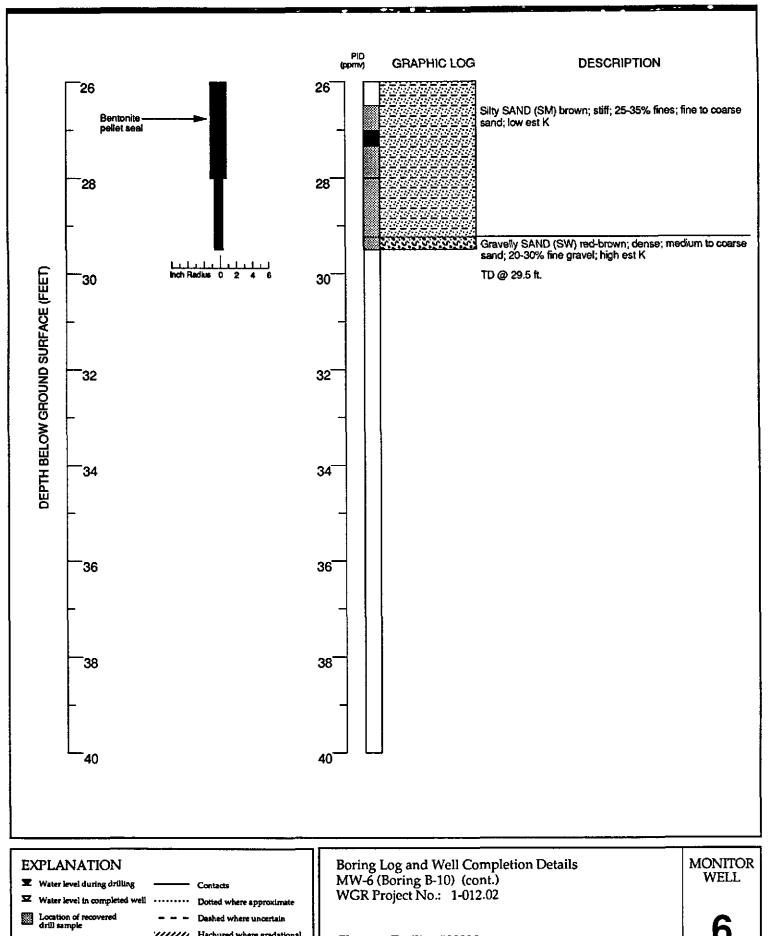


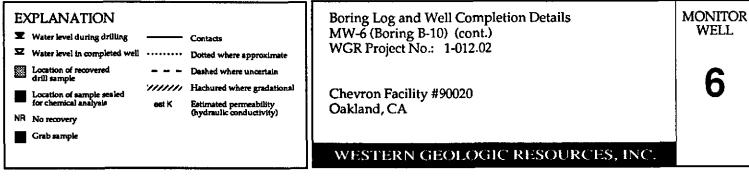


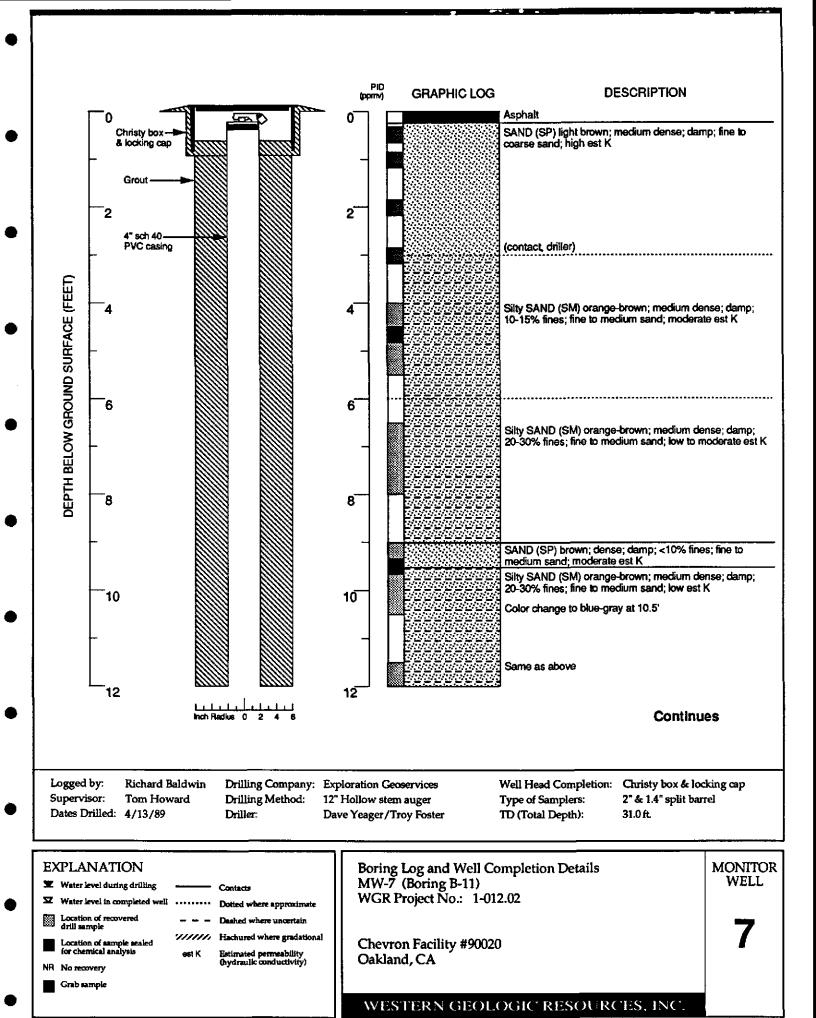


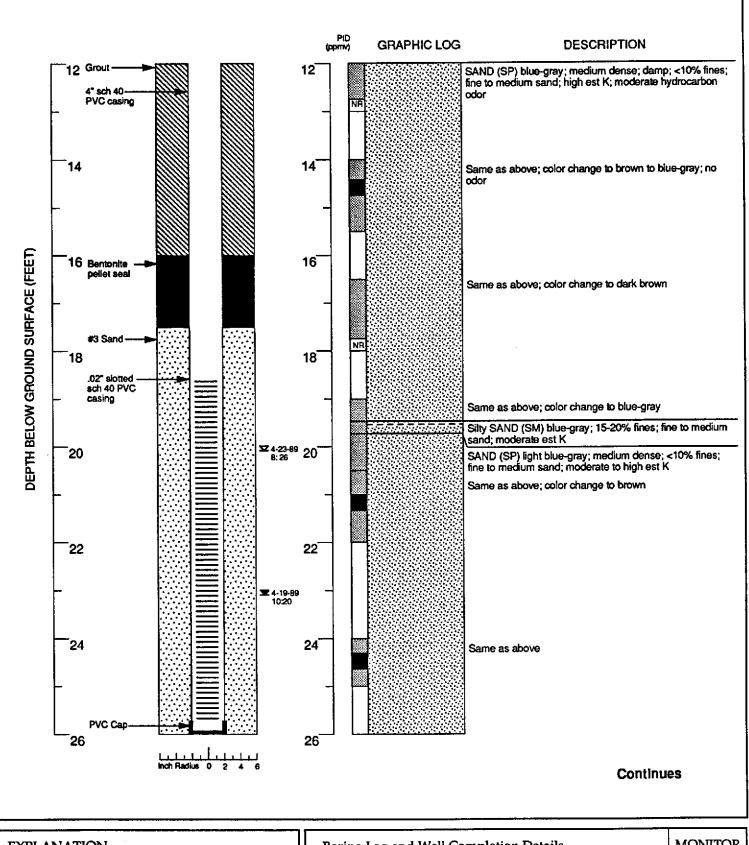


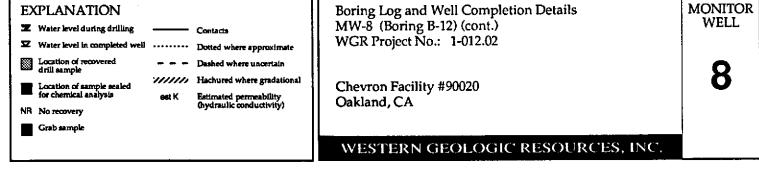


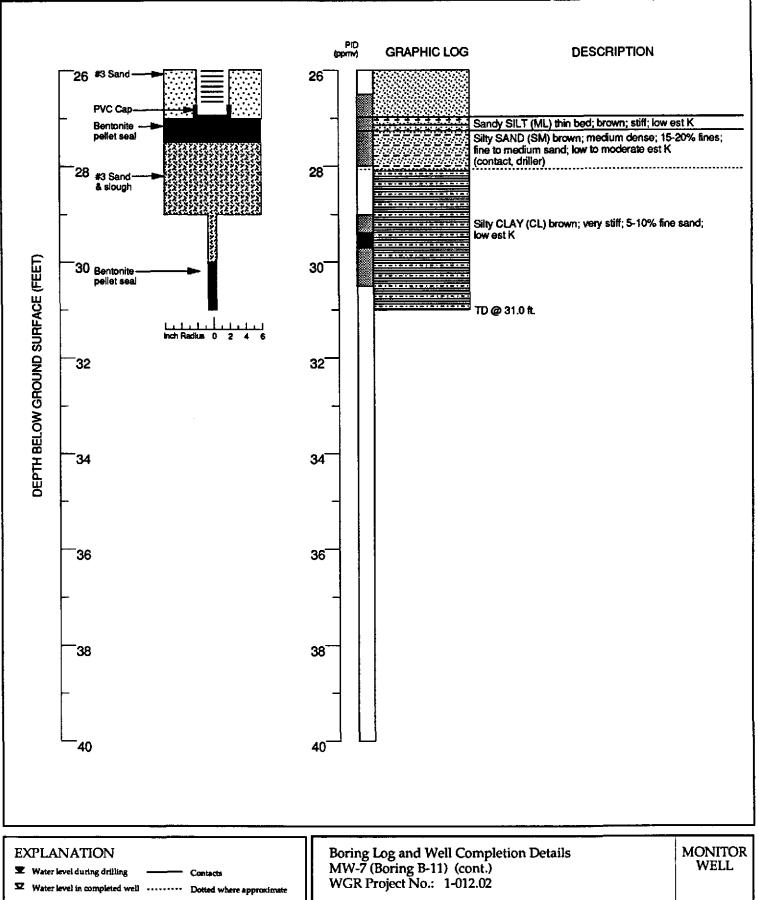


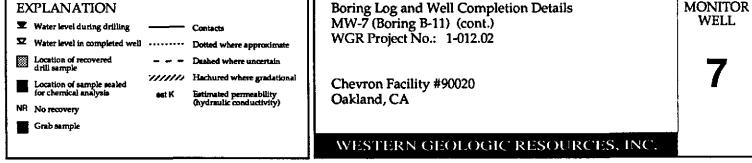


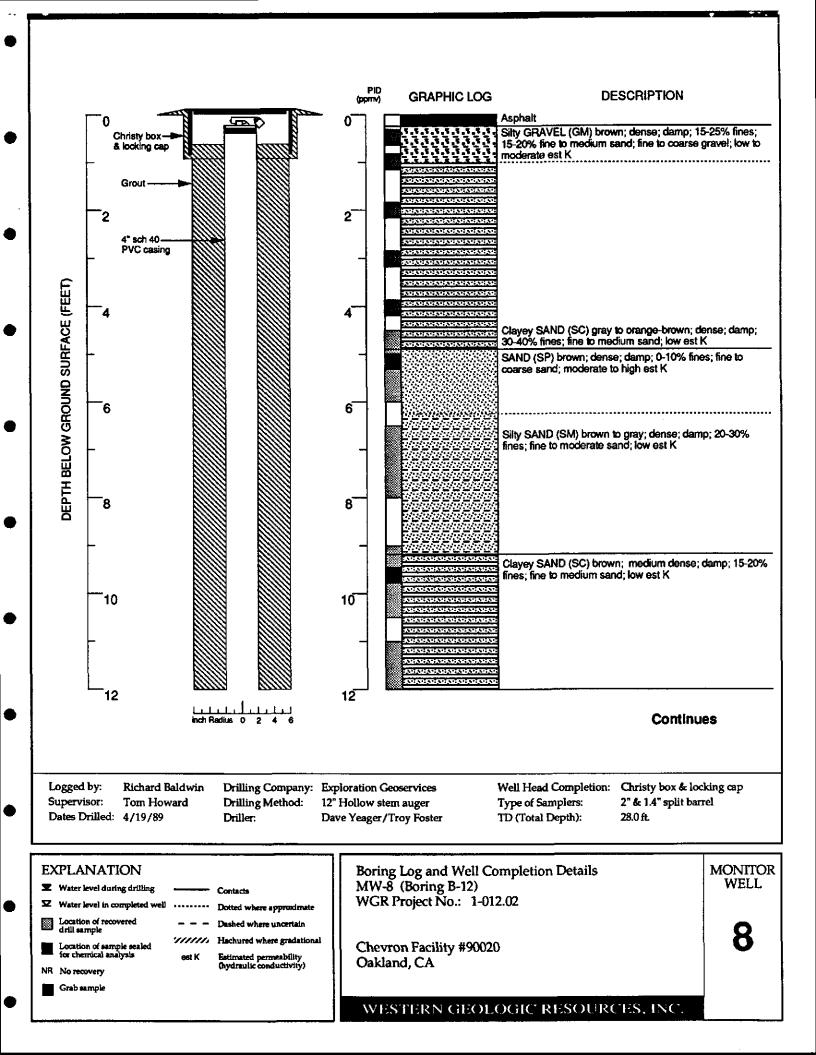


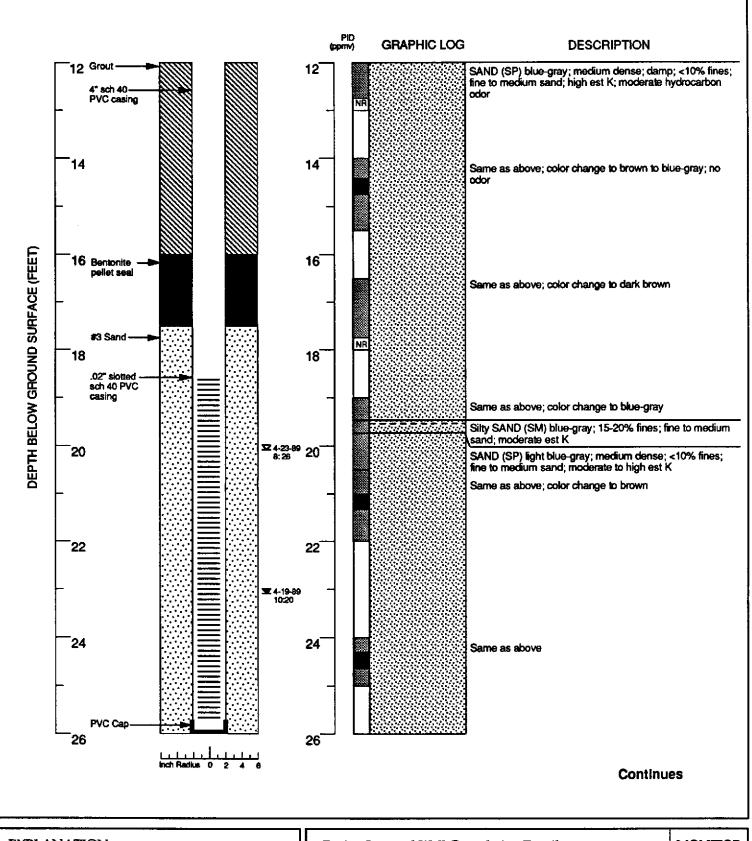


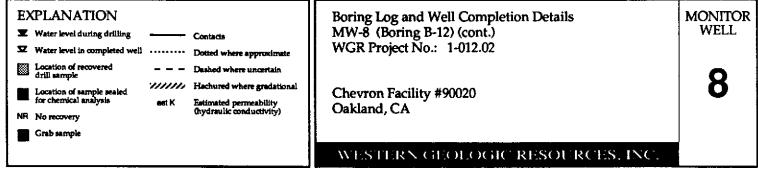


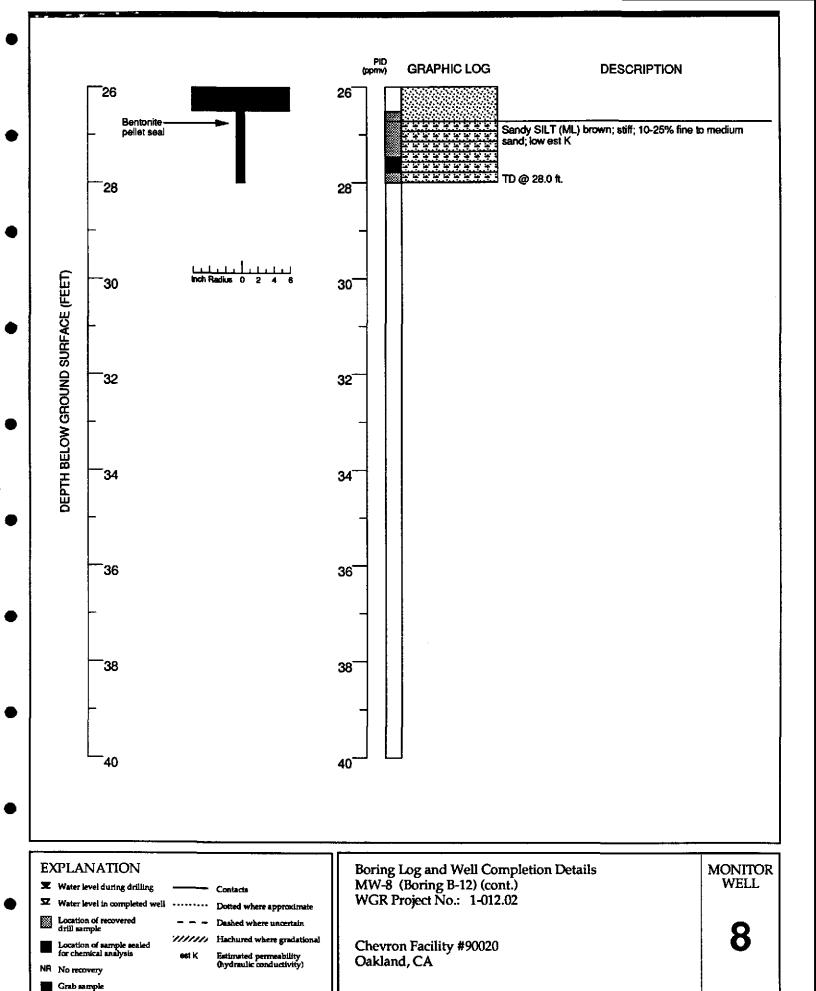












WESTERN GEOLOGIC RESOURCES, INC.

WESTERN GEOLOGIC RESOURCES, INC.

ATTACHMENT C

ANALYTIC REPORTS

REPORT

Central Coast Analytical Services Central Coast
Analytical Services
141 Suburban Road, Suite C-4
San Luis Obispo, California 93401
(805) 543-2553

Lab Number: As Listed

Collected: **Ø4/24/89 @** 1535 Received: **Ø4/26/89 @** 1**Ø**52

Tested: As Listed Collected by: D.B./B.B.

ATTN: Tom Howard/Ed Buskirk Western Geologic Resources 2169 E. Francisco Blvd. Suite B

San Rafael, CA 949Ø1

Sample Description:

Oakland, 17th/Harrison, Proj. #Ø12.Ø3, Filtered Water Samples As Listed

12200100 Maco. Campion An Electric

LAB NUMBER SAMPLE DESCRIPTION

DISSOLVED LEVEL FOUND (mg/L)

Digested by EPA 3005 on 05/05/89 by JJ.

EPA METHOD DETECTION LIMIT(PQL)* DATE/ANALYST	*	CADMIUM 7131 Ø.ØØ1 5/Ø9/89 MM	CHROMIUM 7191 Ø.ØØ5 Ø5/Ø9/89 MM	LEAD 7421 Ø.ØØ5 Ø5/Ø9/89 MM	ZINC 795Ø Ø.ØØ5 Ø5/11/89 KRW
F-5196	12Ø1	<0.001	Ø.Ø3Ø	Ø.Ø18	7.5
F-5197	1202	<Ø.ØØ1	Ø.Ø31	<Ø.ØØ5	1.1
F-5198	12Ø3	<Ø.ØØ1	Ø.Ø2Ø	<Ø.ØØ5	Ø.Ø87
F-5199	1204	<Ø.ØØ1	Ø.Ø29	<Ø.ØØ5	1.2
F-52ØØ	12Ø5	<Ø.ØØ1	Ø.Ø22	<Ø.ØØ5	Ø.4Ø
F-52Ø1	1206	<Ø.ØØ1	Ø.ØØ6	<Ø.ØØ5	1.2
F-52Ø2	1207	Ø.ØØ8	Ø.ØØ6	Ø.18	140.
F-52Ø3	1208	<Ø.ØØ1	< Ø.ØØ5	Ø.ØØ7	Ø.38
QD-52Ø3	DUPLICATE	<Ø.ØØ1	<Ø.ØØ5	Ø.ØØ7	Ø.26
QS-52Ø3	SPIKED AT % SPIKE RECOVERY		Ø.1Ø 1Ø9.	Ø.1Ø 85.	1.Ø 8Ø.

**Practical Quantitation Limit

Ø6-Ø2-89
FØ5196DE.WR1/#54
MH/ah/ke

Many Evanders

Central Coast Analytical Services 141 Suburban Road, Suite C-4 San Luis Obispo, California 934Ø1 (8Ø5) 543-2553

Lab Number: As Listed Ø4/24/89 Collected:

Ø4/26/89 @ 1Ø52 Received:

As Listed Tested: Collected by: DB/BB

ATTN: Tom Howard/Ed Buskirk Western Geologic Resources 2169 E. Francisco Blvd. Suite B San Rafael, CA 949Ø1

Sample Description:

Proj.#1-Ø12.Ø3, Oakland, 17th/Harrison

Water Samples As Listed

REPORT

LAB NUMBER	SAMPLE DESCRIPTION	LEVEL FOUND
		OIL & GREASE -mg/l
EPA METHOD~ DETECTION LIMIT(PQL)** DATE/ANALYST		5Ø3E 3. Ø5/Ø4/89 LAP
F-5196	1201 @ 1535	<3 .
F-5197	1202 @ 1014	<3.
F-5198	1203 @ 1054	₹3.
F-5199	1204 @ 1423	<3.
F-52ØØ	1205 @ 1700	₹3.
F-52Ø1	12Ø6 @ 1437	<3.
F-52Ø2	1207 @ 1715	3.
F-52Ø3	1208 @ 1338	3.

Ø5-12-89 FØ51960G.WR1/#47 MH/kc

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES Mary Havlicek, Ph.D., President

Central Coast Analytical Services, Inc. 141 Suburban Road, Suite C San Luis Obispo, CA 934Ø1

(805) 543-2553

: \$4/24/89 Collected : \$4/26/89 Received : \$5/\$5/89 Tested

Lab Number : F-5196

Collected by: DB/BB EPA METHOD 524.2/8260

Western Geologic Resources 2169 E. Francisco Blvd. Suite B San Rafael, CA 949Ø1

Sample Description:

Project # 1-\$12.\$3, Oakland 17th/Harrison

1201 water

Compound Analyzed	Detection Limit *PQL (ug/1)	Concent (ug/l		Compound Analyzed	Detection *PQL (u		Concentration (ug/1)
Acetone	2Ø.	ND	1,2-Die	chloroethe	ene	1.	ND
■ Benzene	Ø.5	ND	1,2-Di	chloroprop	ane	1.	ND
Bromodichloromethane	1.	ND	c-1,3-	Dichloropr	opene	1.	ND
Bromoform	1,	ND	t-1,3-	Dichloropr	opene	1.	ND
Bromomethane	1.	ND	Ethylb	enzene		1.	ND
2-Butanone	1Ø.	ND	2-Hexa	none :		5.	N D
Carbon Disulfide	1.	ND	Methyl	Isobutyl	Ketone	5.	ND
Carbon Tetrachloride	1.	16.	Methyl	ene Chlori	ide	5.	ND
Chlorobenzene	1.	ND	Styren			1.	ND
Chloroethane	1.	ND	1,1,2,	2-Tetracii)	Loroethane	3.	ND
•						_	
2-Chloroethylvinylet		ND		hloroether	ne	1.	ND
Chloroform	2.	6.	Toluen	- i		1.	ND
Chloromethane	1.	ND		Trichloro		1.	ND
Dibromochloromethane	1.	ND		Trichloro	ethane	1.	ND
1,2-Dichlorobenzene	1.	ND	Trichl	oroethene		1.	ND
1,3-Dichlorobenzene	1.	ND	Trichl	orofluorom	nethane	1.	ND
1,4-Dichlorobenzene	1.	ND	Trichl	orotriflu	proethane	1.	ND
1,1-Dichloroethane	1.	ND	Vinyl	Acetate		5.	ND
1,2-Dichloroethane	1.	ND	Vinyl	Chloride		1.	ND
● 1.1-Dichloroethene	1.	ND	Xylene	s		1.	ND
Total Purgeable Petr	roleum Hydrocarb	ons (Gas	oline)			5Ø.	ND

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 92/82/118

Constituents reported as ND would have been reported if present at or above the detection limit.

finn/Ø5/Ø9/89 f5196v.wr1 MH/brp/mc

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

Lab Number : F-5197 Central Coast Collected : \$4/24/89 Analytical Services, Inc. 141 Suburban Road, Suite C San Luis Obispo, CA 934Ø1

(8Ø5) 543-2553

: Ø4/26/89 Received Tested : \$5/\$5/89

Collected by: DB/BB EPA METHOD 524.2/826#

Western Geologic Resources 2169 E. Francisco Blvd. Suite B San Rafael, CA 949Ø1

Sample Description:

Project # 1-012.03, Oakland 17th/Harrison

1202 water $\langle |$

Compound Analyzed D	etection Limit *PQL (ug/l)	Concent (ug/l	•	PQL (ug/l)	Concentration (ug/1)
Acetone	2ø.	ND	1,2-Dichloroether	ne 1.	9.
Benzene	Ø.5	ND	1,2-Dichloropropo	ne 1.	ND
Bromodichloromethane	1.	ND	c-1,3-Dichloropro	opene 1.	ND
Bromoform	1.	ND	t-1,3-Dichloropro	opene 1.	ND
Bromomethane	1.	ND	Ethylbenzene	1.	ND
2-Butanone	1ø.	ND	2-Hexanone	5.	N D
Carbon Disulfide	1.	ND	Methyl Isobutyl	Cetone 5.	ND
Carbon Tetrachloride	1.	2.	Methylene Chlorid	te 5.	ND
Chlorobenzene	1.	ND	Styrene	1.	ND
Chloroethane	1.	ND	1,1,2,2-Tetrachlo	proethane 3.	ND
			j		
2-Chloroethylvinyleth	ier 2.	ND	Tetrachloroethene	1.	38 .
Chloroform	2.	2.	Toluene	1.	ND
Chloromethane	1.	ND	1,1,1-Trichloroet	thane 1.	ND
Dibromochloromethane	1.	ND	1,1,2-Trichloroet	thane 1.	ND
1,2-Dichlorobenzene	1.	ND	Trichloroethene	1.	3.
1,3-Dichlorobenzene	1.	ND	Trichlorofluorome	ethane 1.	ND
1,4-Dichlorobenzene	1.	ND	Trichlorotrifluo		ND
1,1-Dichloroethane	1.	ND	Vinvl Acetate	5.	ND
1,2-Dichloroethane	1.	ND	Vinyl Chloride	1.	ND
1,1-Dichloroethene	1.	ND	Xylenes	1.	ND
Total Purgeable Petro	oleum Hydrocarb	ons (Gas	oline)	5Ø.	ND

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 92/84/122

Constituents reported as ND would have been reported if present at or above the detection limit.

finn/Ø5/Ø9/89 f5197v.wr1 MH/brp/mc

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

Central Coast Analytical Services, Inc. Collected: 94/24/89 141 Suburban Road, Suite C

Received

Lab Number : F-5198 : Ø4/26/89

San Luis Obispo, CA 934Ø1 (805) 543-2553

: Ø5/Ø5/89 Tested Collected by: DB/BB

EPA METHOD 524.2/8260

Western Geologic Resources 2169 E. Francisco Blvd. Suite B San Rafael, CA 949Ø1

Sample Description:

Project # 1-012.03, Oakland 17th/Harrison

1203 water

	Compound Analyzed	Detection Limit *PQL (ug/l)	Concent (ug/l		Compound Analyzed	Detection *PQL (u		Concentration (ug/1)
	Acetone	2Ø.	ND	1,2-Dic	hloroethe	ene	1.	11.
•	Benzene	Ø.5	ND	1,2-Dic	hloroprop	oane	1.	ND
•	Bromodichloromethane	1.	ND	c-1,3-0	1chloropr	ropene	1,	ND
	Bromoform	1.	ND	t-1,3-0	ichloropr	ropene	1.	ND
	Bromomethane	1.	ND	Ethylbe	enzene		1.	ND
_	2-Butanone	1Ø.	ND	2-Hexar	ione ;		5.	ND
•	Carbon Disulfide	1.	ND	Methyl	Isobutyl	Ketone	5.	ND
	Carbon Tetrachloride	1.	7.	Methyle	ene Chlor	1de	5.	ND
	Chlorobenzene	1.	ND	Styrene) ji		1.	ND
	Chloroethane	1.	ND	1,1,2,2	?-Tetrach:	loroethane	3.	ND
•	2-Chloroethylvinylet	her 2.	ND	Tetraci	loroethe	ne	1.	11Ø.
	Chloroform	2.	6.	Toluene	•		1.	ND
	Chloromethane	1.	ND	1,1,1-1	richloro	ethane	1.	ND
	Dibromochloromethane	1.	ND	1,1,2-1	[richloroe	ethane	1.	ND
	1,2-Dichlorobenzene	1.	ND	Trichle	proethene		1.	3.
•								
	1,3-Dichlorobenzene	1.	ND	Trichle	profluoro	methane	1.	ND
	1,4-Dichlorobenzene	1.	ND	Trichle	protriflu	oroethane	1.	ND
	1,1-Dichloroethane	1.	ND	Vinyl A	Acetate		5.	ND
	1,2-Dichloroethane	1.	ND	Vinyl (Chloride		1.	ND
Þ	1,1-Dichloroethene	1.	ND	Xylene	,		1.	ND
	Total Purgeable Peti	oleum Hydrocarb	ons (Gas	oline)			5Ø.	ND

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 96/82/117

Constituents reported as ND would have been reported if present at or above the detection limit.

finn/Ø5/Ø9/89 f5198v.wr1 MH/brp/mc

Respectfully submitted,

CENTRAL COAST ANALYTICAL SERVICES

Central Coast
Analytical Services, Inc.
141 Suburban Road, Suite C
San Luis Obispo, CA 93401
(805) 543-2553

Lab Number : F-5199
Collected : \$\pi4/24/89
Received : \$\pi4/26/89
Tested : \$\pi5/85/89
Collected by: \$\text{DB/8B}\$

Collected by: DB/8B EPA METHOD 524.2/826Ø

Western Geologic Resources 2169 E. Francisco Blvd. Suite B San Rafael, CA 94901 Sample Description:
Project # 1-012.03, Oakland 17th/Harrison
1204 water

Compound Analyzed D	etection Limit *PQL (ug/1)	Concent (ug/l		Compound Analyzed		on Limit (ug/l)	Concentration (ug/l)
Acetone	20.	ND	1,2-Di	chloroethe	ene	1.	· ND
Benzene	Ø.5	ND	1,2-Di	chloroprop	ane	1.	ND
Bromodichloromethane	1.	ND	c-1,3-	Dichloropr	opene	1.	ND
Bromoform	1.	ND	t-1,3-	Dichloropr	opene	1.	ND
Bromomethane	1.	ND	Ethylb	enzene ,		1.	ND
2-Butanone	1Ø.	ND	2-Hexo			5.	ND ·
	เพ. 1.				Katana	5. 5.	ND
Carbon Disulfide		ND	•	Isobutyl		5. 5.	ND ND
Carbon Tetrachloride	1.	35.	•	ene Chlori	Lae		
Chlorobenzene	1.	ND	Styren			1. ne 3.	ND ND
Chloroethane	1.	ND	1,1,2,	2-Tetrach]	torbetha	ne J.	NU
2-Chloroethylvinyleth	er 2.	ND	Tetrac	hloroether	16	1.	ND
Chloroform	2.	11.	Toluen	е		1.	ND
Chloromethane	1.	ND	1,1,1-	Trichloroe	thane	1.	ND
Dibromochloromethane	1.	ND	1,1,2-	Trichloroe	thane	1.	ND
1,2-Dichlorobenzene	1.	ND	Trichl	oroethene		1.	ND
1,3-Dichlorobenzene	1.	ND	Trichl	orofluorom	methane	1.	ND
1,4-Dichlorobenzene	1.	ND	Trichl	orotrifluo	proethan		ND
1,1-Dichloroethane	1.	ND	Vinyl	Acetate ;		5.	ND
1,2-Dichloroethane	1.	ND	Vinyl	Chloride,		1.	ND
1,1-Dichloroethene	1.	ND	Xylene	s /		1.	ND
Total Purgeable Petro	leum Hydrocarb	ons (Gas	oline)	, 1		5Ø.	ND

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 92/81/115

Constituents reported as ND would have been reported if present at or above the detection limit.

finn/Ø5/Ø9/89 f5199v.wr1 MH/brp/mc Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

Central Coast
Analytical Services, Inc.
141 Suburban Road, Suite C
San Luis Obispo, CA 93401
(805) 543-2553

Lab Number : F-5200 Collected : 04/24/89 Received : 04/26/89 Tested : 05/05/89 Collected by: DB/BB

EPA METHOD 524.2/8269

Western Geologic Resources 2169 E. Francisco Blvd. Suite B San Rafael, CA 94901 Sample Description:
Project # 1-012.03, Oakland 17th/Harrison
1205 water

Compound Analyzed	Detection Limit *PQL (ug/1)	Concent (ug/l		Compound Analyzed		on Limit (ug/l)	Concentration (ug/1)
Acetone	20.	ND	1,2-D1	chloroethe	ene	1.	2.
Benzene	Ø.5	ND	1,2-Di	.chloroprop	ane	1.	ND
Bromodichloromethan	e 1.	ND	c-1,3-	Dichlorop	ropene	1.	ND
Bromoform	1.	ND	t-1,3-	Dichloropr	ropene	1.	ND
Bromomethane	1.	ND	Ethylt	enzene ,	,	1.	ND
				, 1			
2-Butanone	1Ø.	ND	2-Hexc	inone		5.	ND
Carbon Disulfide	1.	ND	Methy]	Isobutyl	Ketone	5.	ND
Carbon Tetrachlorid	e 1.	4.	Methy]	ene Chlori	ide	5.	ND
Chlorobenzene	1.	ND	Styrer	e		1.	ND
Chloroethane	1.	ND	1,1,2,	2-Tetroch]	Loroetha	ne 3.	ND
	_						
2-Chloroethylvinyle		ND		hloroether	10	1.	4.
Chloroform	2.	5.	Toluer	:		1.	ND ND
Chloromethane	1.	ND		Trichloroe		1.	ND ND
Dibromochloromethan		ND	•	Trichloroe	ethane	1.	ND
1,2-Dichlorobenzene	1.	ND	Trichl	.oroethene		1.	ND
1,3-Dichlorobenzene	1.	ND	Trichl	orofluoron	nethane	1.	ND
1,4-Dichlorobenzene	1.	ND	Trich]	orotrifluo	proethan		ND
1,1-Dichloroethane	1.	ND	Vinyl	Acetate		5.	ND
1,2-Dichloroethane	1.	ND	Vinyl	Chloride		1.	ND
1,1-Dichloroethene	1.	ND	Xylene	s		1.	ND
Total Purgeable Pet	roleum Hydrocarb	ons (Gas	oline)			5∅.	ND

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 96/84/118

Constituents reported as ND would have been reported if present at or above the detection limit.

finn/Ø5/Ø9/89 f52ØØv.wr1 MH/brp/mc Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

Central Coast
Analytical Services, Inc.
141 Suburban Road, Suite C
San Luis Obispo, CA 93401
(805) 543-2553

Lab Number : F-5201
Collected : 04/24/89
Received : 04/26/89
Tested : 05/05/89
Collected by: DB/BB

EPA METHOD 524.2/8260

Western Geologic Resources 2169 E. Francisco Blvd. Suite B San Rafael, CA 94901 Sample Description:
Project # 1-012.03, Oakland 17th/Harrison
1206 water

Compound Analyzed De	etection Limit *PQL (ug/l)	Concent (ug/1	·		oncentration (ug/1)
Acetone	20.	ND	1,2-Dichloroethene	1.	ND
Benzene	Ø.5	ND	1,2-Dichloropropane	1.	NĎ
Bromodichloromethane	1.	ND	c-1,3-Dichloropropene	1.	ND
Bromoform	1.	ND	t-1,3-Dichloropropene	1.	ND
Bromomethane	1.	ND	Ethylbenzene	1.	ND
2-Butanone	1Ø.	ND	2-Hexanone	5.	ND
Carbon Disulfide	1.	ND	Methyl Isobutyl Ketone	5.	N D
Carbon Tetrachloride	1.	13.	Methylene Chloride	5.	ND
Chlorobenzene	1.	ND	Styrene	1.	ND
Chloroethane	1.	ND	1,1,2,2-Tetrachloroethane	3.	ND
2-Chloroethylvinylethe	er 2.	ND	Tetrachloroethene	1.	ND
Chloroform	2.	7.	Toluene	1.	ND
Chloromethane	1.	ND	1,1,1-Trichloroethane	1.	ND
Dibromochloromethane	1,	ND	1,1,2-Trichloroethane	1.	ND
1,2-Dichlorobenzene	1.	ND	Trichloroethene	1.	ND
1,3-Dichlorobenzene	1.	ND	Trichlorofluoromethane	1,	ND
1,4-Dichlorobenzene	1.	ND	Trichlorotrifluoroethane	1.	ND
1,1-Dichloroethane	1.	ND	Vinyl Acetate	5.	ND
1,2-Dichloroethane	1.	ND	Vinyl Chloride	1.	ND
1,1-Dichloroethene	1.	ND	Xylenes	1.	ND
Total Purgeable Petro	leum Hydrocarbo	ons (Gas	oline)	5Ø.	ND

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 95/89/122

Constituents reported as ND would lave been reported if present at or above the detection limit.

finn/#5/#9/89 f52#iv.wr1 MH/brp/mc Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

Central Coast Analytical Services, Inc. Collected: \$4/24/89 141 Suburban Road, Suite C

Received Tested

Lab Number : F-5202

: 04/26/89 : Ø5/Ø5/89

San Luis Obispo, CA 934Ø1 (8Ø5) 543-2553

Collected by: DB/BB

EPA METHOD 524.2/826Ø

Western Geologic Resources 2169 E. Francisco Blvd. Suite B San Rafael, CA 949Ø1

Sample Description:

Project # 1-012.03, Oakland 17th/Harrison

1207 water

i	Compound Analyzed	Detection Limit *PQL (ug/l)	Concent (ug/1		Compound Analyzed		on Limit (ug/l)	Concentration (ug/l)
4	Acetone	2Ø.	5Ø.	1,2-D1	chloroethe	ene	1.	NĎ
6	Benzene	Ø.5	1ØØ.	1,2-Di	chloroprop	ane	1.	ND
	Bromodichloromethane	1.	ND	c-1,3-	Dichloropr	opene	1.	ND
į	Bromoform	1.	ND	t-1,3-	Dichloropr	opene	1,	ND
	Bromomethane	1.	ND	Ethylb	enzene		1.	16Ø.
_	2-Butanone	1Ø.	16Ø.	2-Hexc	inone		5.	ND
•	Carbon Disulfide	1.	ND	Methy1	Isobutyl	Ketone	5.	ND
	Carbon Tetrachloride	1.	3.	Methy]	ene Chlori	de	5.	ND
	Chlorobenzene	1.	ND	Styrer	ie		1.	ND
İ	Chloroethane	1.	ND	1,1,2,	2-Tetrach]	loroetha	ne 3.	ND
•	2-Chloroethylvinylet	her 2.	ND	Tetrac	hloroether	ne	1.	ND
	Chloroform	2.	9.	Toluer	e		1.	26Ø.
	Chloromethane	1.	ND	1,1,1-	Trichloroe	ethane	1.	ND
	Dibromochloromethane	1.	ND	1,1,2-	Trichloroe	thane	1.	ND
	1,2-Dichlorobenzene	1.	ND	Trich]	oroethene		1.	ND
	1,3-Dichlorobenzene	1.	ND	Trich]	lorofluorom	nethane	1.	ND
	1,4-Dichlorobenzene	1.	ND	Trich!	orotrifluo	proethan	e 1.	ND
	1,1-Dichloroethane	1.	. ND	Vinyl	Acetate		5.	ND
	1,2-Dichloroethane	1.	ND	Vinyl	Chloride		1.	ND
•	1,1-Dichloroethene	1.	ND	Xylene	es		1,	13ØØ.
_=	Total Purgeable Pet	roleum Hydrocarb	ons (Gas	oline)			5Ø.	84ØØ.

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 121/94/118

Constituents reported as ND would have been reported if present at or above the detection limit.

finn/Ø5/Ø9/89 f52Ø2v.wr1 MH/brp/mc

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

Central Coast Analytical Services, Inc. 141 Suburban Road, Suite C

Received Tested

Collected : Ø4/24/89 : Ø4/26/89

: Ø5/Ø5/89

San Luis Obispo, CA 934Ø1 (805) 543-2553

Collected by: DB/BB

Lab Number : F-5203

EPA METHOD 524.2/8269

Western Geologic Resources 2169 E. Francisco Blvd. Suite B San Rafael, CA 94901

Sample Description:

Project # 1-\$12.\$3, Oakland 17th/Harrison

1208 water

Compound Analyze	d Detection Limi *PQL (ug/1)	t Concent (ug/l	•			Concentration (ug/1)
Acetone	20.	ND	1,2-Dichloroe	thene	1.	4.
Benzene	Ø.5	ND	1,2-Dichlorop	ropane	1.	ND
Bromodichloromet	hane 1.	ND	c-1,3-Dichlor	opropene	1.	ND
Bromoform	1,	ND	t-1,3-Dichlor	opropene	1.	ND
Bromomethane	1.	ND	Ethylbenzene		1.	ND
2-Butanone	1ø.	ND	2-Hexanone		5.	ND
Carbon Disulfide	1.	ND	Methyl Isobut	yl Ketone	5.	ND
Carbon Tetrachla	ride 1.	2.	Methylene Chl	cride	5.	ND
Chlorobenzene	1.	ND	Styrene		1.	ND
Chloroethane	1.	ND	1,1,2,2-Tetra	chloroethan	∋ 3.	ND
		ND	Takunahi amask		1.	6.
2-Chloroethylvin	•	ND *	Tetrachloroet	nene	1.	ND
Chloroform	2.	3.	Toluene	1	1.	ND ND
Chloromethane	1,	ND	1,1,1-Trichlo		1.	ND
Dibromochloromet 1,2-Dichlorobenz		ND ND	1,1,2-Trichlo		1.	ND
•	· · ·	140	1, 1911201 00 0110		• • •	
1,3-Dichlorobenz	ene 1.	ND	Trichlorofluo	romethane	1.	ND
1,4-Dichlorobenz	ene 1.	ND	Trichlorotrif	luoroeth o ne	1.	ND
1,1-Dichloroetho	ne 1.	ND	Vinyl Acetate		5.	ND
1,2-Dichloroetho	ne 1.	ND	Vinyl Chlorid	e	1.	ND
1,1-Dichloroethe	ne 1,	ND	Xγlenes		1.	ND
Total Purgeable	Petroleum Hydrocar	bons (Gas	oline)		5Ø.	ND

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 92/82/104

Constituents reported as ND would have been reported if present at or above the detection limit.

finn/Ø5/Ø9/89 f52Ø3v.wr1 MH/brp/mc

Respectfully submitted,

CENTRAL COAST ANALYTICAL SERVICES

Central Coast Analytical Services, Inc. 141 Suburban Road, Suite C San Luis Obispo, CA 934#1

Lab Number : F-52Ø3dup Collected : **@4/24/89** Received Tested

: Ø4/26/89 : \$5/\$5/89

(805) 543-2553

Collected by: DB/BB EPA METHOD 524.2/8260

Sample Description:

 i^{1}

Western Geologic Resources 2169 E. Francisco Blvd. Suite B San Rafael, CA 949Ø1

Project # 1-012.03, Oakland 17th/Harrison

1208 water (duplicate)

	Compound Analyzed I	Detection Limit *PQL (ug/l)	Concent (ug/l		Compound Analyzed	Detection *PQL (ug		Concentration (ug/1)
	Acetone	2Ø.	ND	1,2-Di	chloroethe	ene	1.	3.
5	Benzene	Ø.5	ND	1,2-Di	chloropro	pane	1.	ND
	Bromodichloromethane	1.	ND	c-1,3-	Dichlorop	ropene	1.	ND
	Bromoform	1.	ND	t-1,3-	Dichlorop	ropene	1.	ND
-	Bromomethane	1.	ND	Ethylb	enzene	·	1.	ND
-	2-Butanone	1Ø.	ND	2-Hexa	none		5.	ND
_	Carbon Disulfide	1.	ND	Methvl	Isobutyl	Ketone	5.	ND
	Carbon Tetrachloride	1.	2.	•	ene Chlor:		5.	ND
	Chlorobenzene	1.	ND	Styren			1.	ND
	Chloroethane	1.	ND	1,1,2,	2-Tetrach	loroethane	3.	ND
_								
	2-Chloroethylvinyleth	her 2.	ND	Tetrac	hloroethe	ne	1.	6.
	Chloroform	2.	2.	Toluen	e		1.	ND
	Chloromethane	1.	ND	1,1,1-	Trichloro	ethane	1.	ND
	Dibromochloromethane	1.	ND	1,1,2-	Trichloro	ethane	1.	ND
	1,2-Dichlorobenzene	1.	ND	Trichl	oroethene		1.	ND
•								
	1,3-Dichlorobenzene	٦.	ND	Trichl	orofluoro	methane	1.	ND
	1,4-Dichlorobenzene	1.	ND	Trichl	orotriflu	oroethane	1.	ND
	1,1-Dichloroethane	1.	ND	Vinyl	Acetate		5.	ND
	1,2-Dichloroethane	1.	ND	Vinyl	Chloride		1.	ND
	1,1-Dichloroethene	1.	ND	Xylene	s		1.	ND
	Total Purgeable Petro	oleum Hydrocarbo	ns (Gas	oline)			5Ø.	ND

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 94/81/112

Constituents reported as ND would have been reported if present at or above the detection limit.

finn/Ø5/Ø9/89 f52Ø3vd.wr1 MH/brp/mc

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

Central Coast
Analytical Services, Inc.
141 Suburban Road, Suite C
San Luis Obispo, CA 934Ø1
(8Ø5) 543-2553

Lab Number : F-5204
Collected : 03/07/89
Received : 04/26/89
Tested : 05/05/89

Collected by: B. Pabst of CCAS

EPA METHOD 524.2/826Ø

Western Geologic Resources 2169 E. Francisco Blvd. Suite B San Rafael, CA 949\$1 Sample Description: Project # 1-012.03, Oakland 17th/Harrison

92/79/112

12TB, TBØ3Ø789BPØ4

Compound Analyzed 1	Petection Limit *PQL (ug/l)	Concent (ug/l	•	_		Concentration (ug/1)
Acetone	2Ø.	ND	1,2-Dichloroeth	ene	1.	ND
Benzene	Ø.5	ND	1,2-Dichloropro	pane	1.	ND
Bromodichloromethane	1.	ND	c-1,3-Dichlorop	ropene	1.	ND
Bromoform	1.	ND	t-1,3-Dichlorop	ropene	1.	ND
Bromomethane	1.	ND	Ethylbenzene		1.	ND
▲ 2-Butanone	10.	ND	2-Hexanone		5.	ND
Carbon Disulfide	1.	ND	Methyl Isobutyl	Ketone	5.	ND
Carbon Tetrachloride	1.	ND	Methylene Chlor	ide	5.	ND
Chlorobenzene	1.	ND	Styrene	•	1.	ND
Chloroethane	1.	ND	1,1,2,2-Tetrach	loroethane	e 3.	ND
• 2-Chloroethylvinyleth	ner 2.	ND	Tetrachloroethe	ne	1.	ND
Chloroform	2.	ND	Toluene		1.	ND
Chloromethane	1.	ND	1,1,1-Trichloro	ethane	1.	ND
Dibromochloromethane	1.	ND	1,1,2-Trichloro	ethane	1.	ND
1,2-Dichlorobenzene	1.	ND	Trichloroethene	:	1.	ND
1,3-Dichlorobenzene	1.	ND	Trichlorofluoro	methane	1.	ND
1,4-Dichlorobenzene	1.	ND	Trichlorotriflu	oroethane	1.	ND
1,1-Dichloroethane	1.	ND	Vinyl Acetate		5.	ND
1,2-Dichloroethane	1.	ND	Vinyl Chloride		1.	ND
• 1,1-Dichloroethene	1.	ND	Xylenes		1.	ND
Total Purgeable Petro	oleum Hydrocarb	ons (Gas	oline)	•	5Ø.	ND

Constituents reported as ND would have been reported if present at or above the detection limit.

Percent Recoveries of Sample-Specific Quality Assurance Spikes are:

finn/Ø5/Ø9/89 f52Ø4v.wr1 • MH/brp/mc Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

Central Coast

Central Analytical Services, Inc. Lab Number : F-#4786

Coast 141 Suburban Road, Suite C-4 Collected : #4/11/89

Analytical San Luis Obispo, California 93481 Received : #4/18/89

Services (885) 543-2553 Tested : #4/21/89

Collected by: M. Edmonson

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5939 (purge-and-trap)
Western Geologic Resources EPA METHOD 8269

2169 E. Francisco Blvd.

Suite B

San Rafael, CA 949#1

Sample Description: Project #1-#12.#2, B-4-6.#',

Chevron, Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	5.	not found
Bromodichloromethane	5.	not found
Bromoform	1Ø.	not found
Carbon Tetrachloride	5.	not found
Chlorobenzene	5.	not found
2-Chloroethyl Vinyl Ether	5Ø.	not found
Chloroform	20.	not found
Dibromochloromethane	5.	not found
1,2-Dichlorobenzene	5.	not found
1,3-Dichlorobenzene	5 .	not found
1,4-Dichlorobenzene	5.	not found
1,1-Dichloroethane	5.	not found
1,2-Dichloroethane (EDC)	5.	not found
1,1-Dichloroethene	5.	not found
c-1,2-Dichloroethene	5.	not found
t-1,2-Dichloroethene	5.	not found
1,2-Dichloropropane	5.	not found
c-1,3-Dichloropropene	5.	not found
t-1,3-Dichloropropene	5.	not found
Ethylbenzene	5.	not found
Ethyl Chloride	5.	not found
Ethylene Dibromide	5.	not found
Methyl Bromide	5.	not found
Methyl Chloride	5.	not found
Methylene Chloride	5Ø.	not found
1,1,2,2-Tetrachloroethane	20.	not found
Tetrachloroethylene (PCE)	5.	not found
Toluene	5 .	not found
1,1,1-Trichloroethane (TCA)	5 .	not found
1,1,2-Trichloroethane	5.	not found
Trichloroethene (TCE)	5.	not found
Trichlorotrifluoroethane (f	113) 20.	not found
Trichlorofluoromethane(F-11) 20.	not found
Vinyl Chloride	5.	not found
Xylenes	1Ø.	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	5000.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 120/82.

#4/28/89/MSD#7 F#4786v.wr1/4# MH/jl/gb/tl

Respectfully submitted

Mary Havlicek, Ph.D., President

Central Coast

Central	Analytical Services, Inc.	Lab Number : F- # 4788
Coast	141 Suburban Road, Suite C-4	Collected : #4/11/89
Analytical	San Luis Obispo, California 934Ø1	Received : #4/18/89
Services	(8Ø5) 543-2553	Tested : #4/21/8 9
		Collected by: M. Edmonson

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5030 (purge-and-trap)
Western Geologic Resources EPA METHOD 8260

2169 E. Francisco Blvd.

San Rafael, CA 949Ø1

Sample Description: Project #1-#12.#2, B-4-16.#', Chevron, Oakland, Soil

Compound Anglyzed Detection Limit (ug/kg) Concentration (Practical Quantitation Limit) (ug/kg) Benzene 2. not found Bromodichloromethane 2. not found Bromoform 4. not found Carbon Tetrachloride 2. not found Chlorobenzene 2. not found 2-Chloroethyl Vinyl Ether 2Ø. not found Chloroform 1Ø. not found Dibromochloromethane 2. not found 1,2-Dichlorobenzene 2. not found 1,3-Dichlorobenzene 2. not found 1,4-Dichlorobenzene 2. not found 1,1-Dichloroethane 2. not found 1,2-Dichloroethane (EDC) 2. not found 1,1-Dichloroethene 2. not found c-1,2-Dichloroethene 2. not found t-1,2-Dichloroethene 2. not found 1,2-Dichloropropane 2. not found c-1,3-Dichloropropene 2. not found t-1,3-Dichloropropene 2. not found Ethylbenzene 2. not found Ethyl Chloride 2. not found Ethylene Dibromide 2. not found Methyl Bromide 2. not found Methyl Chloride 2. not found Methylene Chloride 20. not found 1, 1, 2, 2-Tetrachloroethane 1Ø. not found Tetrachloroethylene (PCE) 2. not found Toluene 2. not found 1,1,1-Trichloroethane (TCA) 2. not found 1,1,2-Trichloroethane 2. not found Trichloroethene (TCE) 2. not found Trichlorotrifluoroethane (f113) 1Ø. not found Trichlorofluoromethane(F-11) 10. not found Vinyl Chloride 2. not found Xylenes 4. not found Total Purgeable Petroleum 2000. not found Hydrocarbons (Gasoline)

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 120/95.

#4/28/89/MSD#7 F#4788v.wr1/4# MH/j1/gb/t1

Respectfully submitted,

May Daulack

Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number: F-#4789
Coast 141 Suburban Road, Suite C-4 Collected: #4/11/89
Analytical San Luis Obispo, California 934#1 Received: #4/18/89
Services (8#5) 543-2553 Tested: #4/21/89

Tested : #4/21/89 Collected by: M. Edmonson

ATTN: Tom Howard EXTRAC

EXTRACTED BY EPA METHOD 5030 (purge-and-trap)
EPA METHOD 8260

Western Geologic Resources 2169 E. Francisco Blvd.

Sample Description:

Suite B

Project #1-\$12.\$2, B-4-23.2',

San Rafael, CA 949Ø1

Chevron, Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2.	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	20.	not found
Chloroform	10.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropane	2 . ·	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	20.	not found
1,1,2,2-Tetrachloroethane	1Ø.	not found
Tetrachloroethylene (PCE)	2.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA) 2.	not found
1,1,2-Trichloroethane	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f113) 1Ø.	not found
Trichlorofluoromethane(F-1	1) 1Ø.	not found
Vinyl Chloride	2.	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	2000.	not found
	le-Specific Quality Assurance Sp	oikes are: 12Ø.

Respectfully submitted,

May Wave Control

Mary Havlicek, Ph.D., President

Analytical Services, Inc. Lab Number : F-#4791
141 Suburban Road, Suite C-4 Collected : #4/11/89 Central Coast Analytical San Luis Obispo, California 93401 Received : 04/18/89 (8\$5) 543-2553 : #4/21/89 Services Tested Collected by: M. Edmonson

EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

ATTN: Tom Howard Western Geologic Resources EPA METHOD 8260 Sample Description:

2169 E. Francisco Blvd.

Suite B

Project #1-#12.#2, B-5-9.5',

San Rafael, CA 94901 Chevron, Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2.	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	20.	not found
Chloroform	10.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropone	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	20.	not found
1,1,2,2-Tetrachloroethane	1Ø.	not found
Tetrachloroethylene (PCE)	2.	not found
Toluene	2.	not found
1,1,1-Trichloroethone (TCA)	2.	not found
1,1,2-Trichloroethone	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f	f113) 1Ø.	not found
Trichlorofluoromethone(F-11	10	not found
Vinyl Chloride	2.	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	2000.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 110/84.

94/28/89/MSD#7 FØ4791v.wr1/4Ø MH/j1/gb/t1

Respectfully submitted. Mary Haviscek, Ph.D., President

Central Analytical Services, Inc. Lab Number: F-#4792
Coast 141 Suburban Road, Suite C-4 Collected: #4/11/89
Analytical San Luis Obispo, California 934#1 Received: #4/18/89
Services (8#5) 543-2553 Tested: #4/21/89

Collected by: M. Edmonson

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5636 (purge-and-trap)
Western Geologic Resources EPA METHOD 8266

Western Geologic Resources 2169 E. Francisco Blvd. Suite B

Sample Description: Project #1-012.02, B-5-14.5',

San Rafael, CA 949Ø1

Chevron, Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg)	Concentration
	(Proctical Quantitation Limit)	(un/ka)

	(Proceed Quantitation Limit)	(ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2.	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	20.	not found
Chloroform	1Ø.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2 .	not found
1,2-Dichloropropane	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	20.	not found
1,1,2,2-Tetrachloroethane	10.	not found
Tetrachloroethylene (PCE)	2.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	2.	not found
1,1,2-Trichloroethane	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f		not found
Trichlorofluoromethane(F-11	l) 1Ø.	not found
Vinyl Chloride	2.	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	2ØØØ.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 110/83.

64/28/89/MSD#7
64792v.wr1/4#

Respectfully submitted,

Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number: F-#4794

Coast 141 Suburban Road, Suite C-4 Collected: #4/11/89

Analytical San Luis Obispo, California 934#1 Received: #4/18/89

Services (8#5) 543-2553 Tested: #4/21/89

Collected by: M. Edmonson

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5939 (purge-and-trap)
Western Geologic Resources EPA METHOD 8269

Western Geologic Resources 2169 E. Francisco Blvd. Suite B

Sample Description: Project #1-912.02, B-5-22.0;

San Rafael, CA 949\$1 Chevron, Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg)	Concentration
•	(Practical Quantitation Limit)	(ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2.	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	20.	not found
Chloroform	1Ø.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
·1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropane	2 .	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	2Ø.	not found
1,1,2,2-Tetrachloroethane	1Ø.	not found
Tetrochloroethylene (PCE)	2.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	2.	not found
1,1,2-Trichloroethane	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethone (f)		not found
Trichlorofluoromethane(F-11)	1 Ø,	not found
Vinyl Chloride	2.	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	2000.	not found
Percent Decovering of Comple	C	

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 120/88.

#4/28/89/MSD#7 F#4794v.wr1/4# MH/j1/gb/t1

Respectfully submitted,

May Hawlick,
Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number : F-04796 141 Suburban Road, Suite C-4 Coast Analytical San Luis Obispo, California 93401

Collected : **Ø**4/11/89 Received : #4/18/89 Tested : **6**4/21/89

Services (805) 543-2553

Collected by: M. Edmonson

ATTN: Tom Howard Western Geologic Resources

EXTRACTED BY EPA METHOD 5030 (purge-and-trap) EPA METHOD 826Ø

2169 E. Francisco Blvd.

Sample Description:

Suite B San Rafael, CA 949ø1

Project #1-012.02, B-6-9.5',

Chevron, Oakland, Soil

Compound Analyzed Detection Limit (ug/kg) Concentration (Practical Quantitation Limit) (ug/kg) Benzene 2. not found Bromodichloromethane " 2. not found Bromoform 4. not found Carbon Tetrachloride 2. not found Chlorobenzene 2. not found 2-Chloroethyl Vinyl Ether 2Ø. not found Chloroform 1Ø. not found Dibromochloromethane 2. not found 1,2-Dichlorobenzene 2. not found 1.3-Dichlorobenzene 2. not found 1,4-Dichlorobenzene 2. not found 1,1-Dichloroethane 2. not found 1,2-Dichloroethane (EDC) 2. not found 1,1-Dichloroethene 2. not found c-1,2-Dichloroethene 2. not found t-1,2-Dichloroethene 2. not found 1,2-Dichloropropane 2. not found c-1,3-Dichloropropene 2. not found t-1,3-Dichloropropene 2. not found Ethylbenzene 2. not found Ethyl Chloride 2. not found Ethylene Dibromide 2. not found Methyl Bromide 2. not found Methyl Chloride 2. not found Methylene Chloride 2Ø. not found 1,1,2,2-Tetrochloroethane 10. not found Tetrachloroethylene (PCE) 2. not found Toluene 2. not found 1.1,1-Trichloroethane (TCA) 2. not found 1,1,2-Trichloroethane 2. not found Trichloroethene (TCE) 2. not found Trichlorotrifluoroethane (f113) 1Ø. not found Trichlorofluoromethane(F-11) 10. not found Vinyl Chloride 2. not found Xylenes 4. not found Total Purgeable Petroleum 2ØØØ. not found Hydrocarbons (Gasoline)

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 110/82.

Ø4/28/89/MSD#7 FØ4796v.wr1/4Ø MH/jl/gb/tl

Respectfully submitted,

Man Haulevel Mary Havlicek, Ph.D., President

Analytical Services, Inc. Lab Number : F-Ø4797 141 Suburban Road, Suite C-4 Collected : Ø4/11/89 Central Coast Analytical San Luis Obispo, California 93401 Received : **Ø4/18/89** Services (8Ø5) 543-2553 Tested : \$4/22/89

Collected by: M. Edmonson

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5030 (purge-and-trap) EPA METHOD 826Ø

Western Geologic Resources 2169 E. Francisco Blvd.

Suite B

San Rafael, CA 949Ø1

Sample Description:

Project #1-#12.#2, Chevron, Oakland,

B-6-14.5, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Br om oform	4.	not found
Carbon Tetrachloride	2.	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	20.	not found
Chloroform	1Ø.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2 .	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropane	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	20.	not found
1,1,2,2-Tetrachloroethane	1Ø.	not found
Tetrachloroethylene (PCE)	2.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	2.	not found
1,1,2-Trichloroethane	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f		not found
Trichlorofluoromethane(F-11) 1ø.	not found
Vinyl Chloride	2.	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	1000.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 104/105/111.

Ø5/Ø2/89/MSD#7 FØ4797v.wr1/42 MH/jg/jc/tl

Respectfully submitted May Havlice Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number: F-#4799
Coast 141 Suburban Road, Suite C-4 Collected: #4/11/89
Analytical San Luis Obispo, California 934#1 Received: #4/18/89

(8Ø5) 543-2553 Tested : **64/22/89**

Collected by: M. Edmonson

ATTN: Tom Howard Western Geologic Resources

EXTRACTED BY EPA METHOD 5#3# (purge-and-trap)

2169 E. Francisco Blvd.

EPA METHOD 826Ø Sample Description:

Suite B

Services

Project #1-#12.#2, Chevron, Oakland,

San Rafael, CA 949#1

B-6-22.0, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2.	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	2Ø.	not found
Chloroform	1ø.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropane	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	20.	not found
1,1,2,2-Tetrachloroethane	1Ø.	not found
Tetrochloroethylene (PCE)	2.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	2.	not found
1,1,2-Trichloroethane	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f	113) 1ø.	not found
Trichlorofluoromethane(F-11) 1ø.	not found
Vinyl Chloride	2.	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	1000.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 107/117/107.

Ø5/Ø2/89/MSD#7 FØ4799v.wr1/42 MH/jg/jc/tl

Respectfully submitted, Mus Daviell Mary Havlicek, Ph.D., President

Central Analytical Services, Inc.
Coast 141 Suburban Road, Suite C-4
Analytical San Luis Obispo, California 93481

(805) 543-2553

Lab Number : F-\$48\$\$ Collected : \$4/11/89 Received : \$4/18/89 Tested : \$4/22/89

Collected by: M. Edmonson

ATTN: Tom Howard

Services

EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

Western Geologic Resources 2169 E. Francisco Blvd.

EPA METHOD 826Ø Sample Description:

2169 E. Francisco Blvd. Suite B

Project #1-812.82, Chevron, Oakland,

San Rafael, CA 949Ø1

B-7-4.2, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	1.	not found
Bromodichloromethane	1.	not found
Bromoform	2.	not found
Carbon Tetrachloride	1.	not found
Chlorobenzene	1.	not found
2-Chloroethyl Vinyl Ether	10.	not found
Chloroform	5.	not found
Dibromochloromethane	1.	not found
1,2-Dichlorobenzene	1.	not found
1,3-Dichlorobenzene	1.	nat found
1,4-Dichlorobenzene	1.	not found
1,1-Dichloroethane	1.	not found
1,2-Dichloroethane (EDC)	1.	not found
1,1-Dichloroethene	1.	not found
c-1,2-Dichloroethene	1.	not found
t-1,2-Dichloroethene	1.	not found
1,2-Dichloropropane	1.	not found
c-1,3-Dichloropropene	1.	not found
t-1,3-Dichloropropene	1.	not found
Ethylbenzene	1.	not found
Ethyl Chloride	1.	not found
Ethylene Dibromide	1,	not found
Methyl Bromide	1.	not found
Methyl Chloride	1.	not found
Methylene Chloride	10.	not found
1,1,2,2-Tetrachloroethane	5 .	not found
Tetrochloroethylene (PCE)	1.	not found
Toluene	1.	not found
1,1,1-Trichloroethane (TCA)	1.	not found
1,1,2-Trichloroethane	1.	not found
Trichloroethene (TCE)	1.	not found
Trichlorotrifluoroethane (f	113) 5.	not found
Trichlorofluoromethane(F-11) 5.	not found
Vinyl Chloride	1.	not found
Xylenes	2.	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	1000.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 114/107/107.

#5/#2/89/MSD#7
F#48##v.wr1/42
MH/jg/jc/tl

Respectfully submitted,

Name of the submitted of the sub

Central Analytical Services, Inc. Lab Number : F-#48#1 Coast 141 Suburban Road, Suite C-4 Collected : Ø4/11/89 Analytical San Luis Obispo, California 93401 Received : **#**4/18/89 Services (8Ø5) 543-2553 : \$4/22/89 Tested

Collected by: M. Edmonson ATTN: Tom Howard EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

Western Geologic Resources EPA METHOD 826Ø

2169 E. Francisco Blvd. Sample Description: Suite B

Project #1-\$12.\$2, Chevron, Oakland, San Rafael, CA 949#1 B-7-9.2, Soil

Compound Analyzed Detection Limit (ug/kg) Concentration (Practical Quantitation Limit) (ug/kg) Benzene 1. not found Bromodichloromethane 1. not found Bromoform 2. not found Carbon Tetrachloride 1. not found Chlorobenzene 1. not found 2-Chloroethyl Vinyl Ether 10. not found Chloroform 5. not found Dibromochloromethane 1. not found 1,2-Dichlorobenzene 1. not found 1,3-Dichlorobenzene 1. not found 1.4-Dichlorobenzene 1. not found 1,1-Dichloroethane 1. not found 1,2-Dichloroethane (EDC) 1. not found 1,1-Dichloroethene 1. not found c-1,2-Dichloroethene 1. not found t-1,2-Dichloroethene 1. not found 1,2-Dichloropropane 1, not found c-1,3-Dichloropropene 1. not found t-1,3-Dichloropropene 1. not found Ethylbenzene 1. not found Ethyl Chloride 1. not found Ethylene Dibromide 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methylene Chloride 10. not found 1,1,2,2-Tetrachloroethane 5. not found Tetrachioroethylene (PCE) 1. not found not found 1. 1,1,1-Trichloroethane (TCA) 1. not found 1,1,2-Trichloroethane 1. not found Trichloroethene (TCE) 1. not found Trichlorotrifluoroethane (f113) 5. not found Trichlorofluoromethane(F-11) 5. not found Vinyl Chloride 1. not found Xylenes 2. not found Total Purgeable Petroleum 1ØØØ. not found Hydrocarbons (Gasoline)

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 105/104/97.

05/02/89/MSD#7 FØ48Ø1v.wr1/42 MH/jg/jc/tl

Respectfully submitted. Mun Salux

Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number: F-\$48\$2
Coast 141 Suburban Road, Suite C-4 Collected: \$4/11/89
Analytical San Luis Obispo, California 934\$1 Received: \$4/18/89
Services (8\$5) 543-2553 Tested: \$4/22/89

Collected by: M. Edmonson EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

ATTN: Tom Howard Western Geologic Resources

EPA METHOD 826Ø Sample Description:

2169 E. Francisco Blvd. Suite B

Project #1-812.82, Chevron, Oakland,

San Rafael, CA 949Ø1

B-7-14.0, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	1.	not found
Bromodichloromethane	1.	not found
Bromoform	2.	not found
Carbon Tetrachloride	1.	not found
Chlorobenzene	1.	not found
2-Chloroethyl Vinyl Ether	1 Ø.	not found
Chloroform	5.	not found
Dibromochloromethane	1.	not found
1,2-Dichlorobenzene	1.	not found
1,3-Dichlorobenzene	1.	not found
1,4-Dichlorobenzene	1.	not found
1,1-Dichloroethane	1.	not found
1,2-Dichloroethane (EDC)	1,	not found
1,1-Dichloroethene	1,	not found
c-1,2-Dichloroethene	1.	not found
t-1,2-Dichloroethene	1.	not found
1,2-Dichloropropane	1,	not found
c-1,3-Dichloropropene	1.	not found
t-1,3-Dichloropropene	1.	not found
Ethylbenzene	1.	not found
Ethyl Chloride	1.	not found
Ethylene Dibromide	1.	not found
Methyl Bromide	1.	not found
Methyl Chloride	1,	not found
Methylene Chloride	1Ø.	not found
1,1,2,2-Tetrachloroethane	5.	not found
Tetrachloroethylene (PCE)	1.	not found
Toluene	1.	not found
1,1,1-Trichloroethane (TCA)	1,	not found
1,1,2-Trichloroethane	1.	not found
Trichloroethene (TCE)	1.	not found
Trichlorotrifluoroethane (f	113) 5.	not found
Trichlorofluoromethane(F-11	•	not found
Vinyl Chloride	1.	not found
Xylenes	2.	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	5ØØ.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 115/117/93.

Ø5/Ø2/89/MSD#7 FØ48Ø2v.wr1/42 MH/jg/jc/t1

Respectfully submitted,

Many Saules

Mary Havlicek, Ph.D., President

Central Coast Services

Analytical Services, Inc. Lab Number : F-\$48\$4 141 Suburban Road, Suite C-4 Collected : \$4/11/89 Analytical San Luis Obispo, California 93401 (8Ø5) 543-2553

Received : \$4/18/89 Tested : \$4/22/89

Collected by: M. Edmonson

Concentration

ATTN: Tom Howard Western Geologic Resources

EXTRACTED BY EPA METHOD 5#3# (purge-and-trap) EPA METHOD 8260

2169 E. Francisco Blvd.

Sample Description:

Suite B San Rafael, CA 949Ø1

Compound Analyzed

Project #1-#12.#2, Chevron, Oakland,

B-7-21.6, Soil

Detection Limit (ug/kg)

Compound Analyzed	(Practical Quantitation Limit)	(ug/kg)
Benzene	1.	not found
Bromodichloromethane	1.	not found
Bromoform	2.	not found
Carbon Tetrachloride	1,	not found
Chlorobenzene	1.	not found
2-Chloroethyl Vinyl Ether	1ø.	not found
Chloroform	5.	not found
Dibromochloromethane	1,	not found
1,2-Dichlorobenzene	1.	not found
1,3-Dichlorobenzene	1.	not found
1,4-Dichlorobenzene	1.	not found
1,1-Dichloroethane	1.	not found
1,2-Dichloroethane (EDC)	1.	not found
1,1-Dichloroethene	1.	not found
c-1,2-Dichloroethene	1.	not found
t-1,2-Dichloroethene	1.	not found
1,2-Dichloropropane	1.	not found
c-1,3-Dichloropropene	1.	not found
t-1,3-Dichloropropene	1,	not found
Ethylbenzene	1.	not found
Ethyl Chloride	1,	not found
Ethylene Dibromide	1,	not found
Methyl Bromide	1.	not found
Methyl Chloride	1.	not found
Methylene Chloride	1Ø.	not found
1,1,2,2-Tetrachloroethane	5 <i>.</i>	not found
Tetrachloroethylene (PCE)	1.	not found
Toluene	1.	not found
1,1,1-Trichloroethane (TCA)	1.	not found
1,1,2-Trichloroethane	1.	not found
Trichloroethene (TCE)	1,	not found
Trichlorotrifluoroethane (1	f113) 5.	not found
Trichlorofluoromethane(F-11	1) 5.	not found
Vinyl Chloride	1.	not found
Xylenes	2.	not found
Total Purgeable Petroleum	5ØØ.	not found
Hydrocarbons (Gasoline)		

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 108/96/78.

\$5/\$2/89/MSD#7 FØ48Ø4v.wr1/42 MH/jg/jc/tl

Respectfully submitted, Many Scalaril Mary Haviicek, Ph.D., President

Central Analytical Services, Inc. Lab Number: F-\$48\$5
Coast 141 Suburban Road, Suite C-4 Collected: \$4/12/89
Analytical San Luis Obispo, California 934\$1 Received: \$4/18/89
Services (8\$5) 543-2553 Tested: \$4/22/89

Collected by: M. Edmonson

ATTN: Tom Howard Western Geologic Resources

EXTRACTED BY EPA METHOD 5030 (purge-and-trop)
EPA METHOD 8260

2169 F Francisco Rivd

Sample Description:

2169 E. Francisco Blvd. Suite B

Project #1-#12.#2, Chevron, Oakland,

San Rafael, CA 949#1 B-8-4.5, Soil

Compound Analyzed	Detection Limit (ug/kg) (Proctical Quantitation Limit)	Concentration (ug/kg)
Benzene	1.	not found
Bromodichloromethane	1.	not found
Bromoform	2.	not found
Carbon Tetrachloride	1.	not found
Chlorobenzene	1.	not found
2-Chloroethyl Vinyl Ether	1 Ø.	not found
Chloroform	5.	not found
Dibromochloromethane	1.	not found
1,2-Dichlorobenzene	1.	not found
1,3-Dichlorobenzene	1.	not found
1,4-Dichlorobenzene	1.	not found
1,1-Dichloroethane	1.	not found
1,2-Dichloroethane (EDC)	1,	not found
1,1-Dichloroethene	1.	not found
c-1,2-Dichloroethene	1.	not found
t-1,2-Dichloroethene	1.	not found
1,2-Dichloropropane	1.	not found
c-1,3-Dichloropropene	1.	not found
t-1,3-Dichloropropene	1.	not found
Ethylbenzene	1.	not found
Ethyl Chloride	1.	not found
Ethylene Dibromide	1.	not found
Methyl Bromide	1.	not found
Methyl Chloride	1.	not found
Methylene Chloride	10.	not found
1,1,2,2-Tetrachloroethane	5.	not found
Tetrachloroethylene (PCE)	1.	not found
Toluene	1.	not found
1,1,1-Trichloroethane (TCA)	1.	not found
1,1,2-Trichloroethane	1.	not found
Trichloroethene (TCE)	1.	not found
Trichlorotrifluoroethane (f		not found
Trichlorofluoromethane(F-11) 5.	not found
Vinyl Chloride	1.	not found
Xγlenes	2.	not found
Total Purgeable Petroleum Hydrocarbons (Diesel #2)	1000.	600000.

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 110/98/120.

Ø5/Ø2/89/MSD#7
FØ48Ø5v.wr1/42
MH/jg/jc/t1

Respectfully submitted,

Mary Havlicek, Ph.D., President

Analytical Services, Inc. Lab Number : F-#48#6
141 Suburban Road, Suite C-4 Collected : #4/12/89 Central Coast Analytical San Luis Obispo, California 93491 Received Services (805) 543-2553

: #4/18/89 Tested : \$4/22/89 Collected by: R. Baldwin

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5#3# (purge-and-trap)

Western Geologic Resources 2169 E. Francisco Blvd.

EPA METHOD 8260 Sample Description:

Suite B

Project #1-#12.#2, B-8-9.6',

San Rafael, CA 949Ø1 Chevron, Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	1Ø.	not found
Bromodichloromethane	1Ø.	not found
Bromoform	20.	not found
Carbon Tetrachloride	1Ø.	not found
Chlorobenzene	1Ø.	not found
2-Chloroethyl Vinyl Ether	100.	not found
Chloroform	5Ø.	not found
Dibromochloromethane	1Ø.	not found
1,2-Dichlorobenzene	1Ø.	not found
1,3-Dichlorobenzene	1ø.	not found
1,4-Dichlorobenzene	1ø.	not found
1,1-Dichloroethane	1Ø.	not found
1,2-Dichloroethane (EDC)	1Ø.	not found
1,1-Dichloroethene	1Ø.	not found
c-1,2-Dichloroethene	1Ø.	not found
t-1,2-Dichloroethene	1Ø.	not found
1,2-Dichloropropane	1Ø.	not found
c-1,3-Dichloropropene	1Ø.	not found
t-1,3-Dichloropropene	1Ø.	not found
Ethylbenzene	1Ø,	not found
Ethyl Chloride	1Ø.	not found
Ethylene Dibromide	1Ø.	not found
Methyl Bromide	1Ø.	not found
Methyl Chloride	10.	not found
Methylene Chloride	2000.	not found
1,1,2,2-Tetrachloroethane	5Ø.	not found
Tetrachloroethylene (PCE)	1Ø.	not found
Toluene	1Ø.	not found
1,1,1-Trichloroethane (TCA) 1ø.	100.
1,1,2-Trichloroethane	1Ø.	not found
Trichloroethene (TCE)	1Ø.	not found
Trichlorotrifluoroethane (not found
Trichlorofluoromethane(F-1	1) 5Ø.	not found
Vinyl Chloride	1Ø.	not found
Xylenes	2Ø.	not found
Total Purgeable Petroleum Hydrocarbons (Diesel #2)	20000. le-Specific Ouglity Assurance Sp	600000.

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 100/91/73.

\$4/28/89/MSD#7 F#48#6v.wr1/4# MH/jl/re/tl

Respectfully sybmitted, Man Havleal Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number: F-#48#6dup
Coast 141 Suburban Road, Suite C-4 Collected: #4/12/89
Analytical San Luis Obispo, California 934#1 Received: #4/18/89
Services (8#5) 543-2553 Tested: #4/22/89
Collected by: R. Baldwin

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5939 (purge-and-trap)

Western Geologic Resources 2169 E. Francisco Blvd.

ic Resources EPA METHOD 826ø sco Blvd. Sample Description:

Suite B San Rafael, CA 94901

Project #1-#12.#2, B-8-9.6', Chevron, Oakland, Soil Duplicate Analysis

	nabilicate vuolikis	
Compound Analyzed	Detection Limit (ug/kg)	Concentration
	(Practical Quantitation Limit)	(ug/kg)
Benzene	20.	not found
Bromodichloromethane	20.	not found
Bromoform	40.	not found
Carbon Tetrachloride	20.	not found
Chlorobenzene	20.	not found
2-Chloroethyl Vinyl Ether	200.	not found
Chloroform	100.	not found
Dibromochloromethane	20.	not found
1,2-Dichlorobenzene	20.	not found
1,3-Dichlorobenzene	20.	not found
1,4-Dichlorobenzene	20.	not found
1,1-Dichloroethane	20.	not found
1,2-Dichloroethane (EDC)	20.	not found
1,1-Dichloroethene	20.	not found
c-1,2-Dichloroethene	20.	not found
t-1,2-Dichloroethene	20.	not found
1,2-Dichloropropane	20.	not found
c-1,3-Dichloropropene	20.	not found
t-1,3-Dichloropropene	20.	not found
Ethylbenzene	2 Ø.	not found
Ethyl Chloride	20.	not found
Ethylene Dibromide	2Ø.	not found
Methyl Bromide	2Ø.	not found
Methyl Chloride	2Ø.	not found
Methylene Chloride	2ØØ.	not found
1,1,2,2-Tetrachloroethane	1ØØ.	not found
Tetrachloroethylene (PCE)	20.	not found
Toluene	2Ø.	not found
1,1,1-Trichloroethone (TCA	•	9Ø.
1,1,2-Trichloroethane	2 Ø.	not found
Trichloroethene (TCE)	20.	not found
Trichlorotrifluoroethane (not found
Trichlorofluoromethane(F-1	•	not found
Vinyl Chloride	20.	not found
Xylenes	4Ø.	not found
Total Purgeable Petroleum Hydrocarbons (Diesel #2)	2000.	450000.
	_	

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 88/115/120.

%4/28/89/MSD#7 FØ48Ø6vd.wr1/4Ø MH/jm/re/t1

Respectfully submitted,

Illan Danker

Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number : F-#48#7 141 Suburban Road, Suite C-4 Collected Coast : **9**4/12/89 Analytical San Luis Obispo, California 934\$1 Received : **∮**4/18/89 (8Ø5) 543-2553 Tested : **#4/22/89**

Collected by: R. Baldwin

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

Western Geologic Resources 2169 E. Francisco Blvd.

Sample Description:

EPA METHOD 826Ø

Suite B Project #1-\$12.\$2, B-8-14.5',

San Rafael, CA 94901 Chevron, Oakland, Soil

Detection Limit (ug/kg) Compound Analyzed Concentration (Practical Quantitation Limit) (ug/kg) Benzene 2. not found Bromodichloromethane 2. not found Bromoform 4. not found Carbon Tetrachloride 2. not found Chlorobenzene 2. not found 2-Chloroethyl Vinyl Ether 20. not found **Chloroform** 1Ø. not found Dibromochloromethane 2. not found 1,2-Dichlorobenzene 2. not found 1,3-Dichlorobenzene 2. . not found 1,4-Dichlorobenzene 2. not found 1,1-Dichloroethane 2. not found 1,2-Dichloroethane (EDC) 2. not found 1,1-Dichloroethene 2. not found c-1,2-Dichloroethene 2. not found t-1,2-Dichloroethene 2. not found 1,2-Dichloropropane 2. not found c-1,3-Dichloropropene 2. not found t-1,3-Dichloropropene 2. not found 2. Ethylbenzene not found Ethyl Chloride 2. not found Ethylene Dibromide 2. not found Methyl Bromide 2. not found Methyl Chloride 2. not found Methylene Chloride 2Ø. not found 1,1,2,2-Tetrachloroethane 1Ø. not found Tetrachloroethylene (PCE) 2. not found 2. Toluene not found 1,1,1-Trichloroethane (TCA) 2. not found 1,1,2-Trichloroethane 2. not found Trichloroethene (TCE) 2. not found Trichlorotrifluoroethane (f113) 1Ø. not found Trichlorofluoromethane(F-11) 1Ø. not found Vinyl Chloride 2. not found Xylenes 4. not found Total Purgeable Petroleum 1000. not found Hydrocarbons (Diesel #2)

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 102/86/91.

#4/28/89/MSD#7 FØ48Ø7v.wr1/4Ø MH/jl/re/tl

Respectfully submitted,

Many Caule of Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number: F-#48#9

Coast 141 Suburban Road, Suite C-4 Collected: #4/12/89

Analytical San Luis Obispo, California 934#1 Received: #4/18/89

Services (8#5) 543-2553 Tested: #4/22/89

Collected by: R. Baldwin EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

ATTN: Tom Howard Western Geologic Resources

2169 E. Francisco Blvd.

Suite B

San Rafael, CA 949Ø1

EPA METHOD 826Ø Sample Description:

Project #1-#12.#2, B-8-22.5',

Chevron, Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2.	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	2Ø.	not found
Chloroform	1Ø.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropane	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2 .	not found
Methyl Chloride	2.	not found
Methylene Chloride	2Ø.	not found
1,1,2,2-Tetrachloraethane	10.	not found
Tetrachloroethylene (PCE)	2.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	2.	not found
1,1,2-Trichloroethane	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f	113) 1ø.	not found
Trichlorofluoromethane(F-11		not found
Vinyl Chloride	2.	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Diesel #2)	1000.	not found
Percent Recoveries of Samol	e-Specific Quelity tocum C-	: h 45240

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 103/81.

Respectfully submitted,

Man Daules

Mary Havlicek, Ph.D., President

Analytical Services, Inc. Lab Number : F-#4811 141 Suburban Road, Suite C-4 Collected : #4/12/89 Central Coast Analytical San Luis Obispo, California 93491 Received

Services (8\$5) 543-2553 Tested : \$4/22/89

Collected by: R. Baldwin

: Ø4/18/89

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5#3# (purge-and-trap)

Western Geologic Resources 2169 E. Francisco Blvd.

Suite B

San Rafael, CA 949Ø1

EPA METHOD 8260 Sample Description:

Project #1-#12.#2, B-8-29.5',

Chevron, Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2.	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	2Ø.	not found
Chloroform	1Ø.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropane	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	· 2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	20.	not found
1,1,2,2-Tetrachloroethane	10.	not found
Tetrachloroethylene (PCE)	2.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	2.	not found
1,1,2-Trichloroethane	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f	— ·	not found
Trichlorofluoromethane(F-11		not found
Vinyl Chloride	2.	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Diesel #2)	1000.	not found
Same and Sam		

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 104/78.

Ø4/28/89/MSD#7 FØ4811v.wr1/4Ø MH/jl/re/tl

Respectfully submitted, Man Hauliak

Mary Havlicek, Ph.D., President

Analytical Services, Inc. Lab Number : F-#4813
141 Suburban Road, Suite C-4 Collected : #4/12/89 Central Coast Analytical San Luis Obispo, California 934Ø1 Received : **#4/18/89** Services (8Ø5) 543-2553 Tested : **64/22/89**

Collected by: R. Baldwin EXTRACTED BY EPA METHOD 5030 (purge-and-trap) ATTN: Tom Howard

Western Geologic Resources 2169 E. Francisco Blvd.

Suite B

Son Rofael, CA 949Ø1

Sample Description: Project #1-\$12.\$2, B-8-34.5',

EPA METHOD 826Ø

Chevron, Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2,	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	20.	not found
Chloroform	1Ø.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropane	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	2 Ø.	not found
1,1,2,2-Tetrachloroethane	1Ø.	not found
Tetrachloroethylene (PCE)	2.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	2.	not found
1,1,2-Trichloroethane	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f	`113) 1Ø.	not found
Trichlorofluoromethane(F-11		not found
Vinyl Chloride	2.	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Diesel #2)	1ØØØ.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 107/76.

Ø4/28/89/MSD#7 F#4813v.wr1/4# MH/jl/re/tl

Respectfully submitted, Man Daulicel Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number: F-Ø4814
Coast 141 Suburban Road, Suite C-4 Collected: Ø4/14/89
Analytical San Luis Obispo, California 934Ø1 Received: Ø4/18/89
Services (8Ø5) 543-2553 Tested: Ø4/26/89

Tested : #4/26/89 Collected by: R. Boldwin

ATTN: Tom Howard E Western Geologic Resources

EXTRACTED BY EPA METHOD 5#3# (purge-and-trap)

Western Geologic Resources 2169 E. Francisco Blvd.

EPA METHOD 826Ø Sample Description:

Suite B San Rafael, CA 949Ø1 Project #1-#12.#2, B-9-9.#, Chevron Oakland, Soil

Compound Analyzed Detection Limit (ug/kg) Concentration

	(Practical Quantitation Limit)	(ug/kg)
Benzene	5.	not found
Bromodichloromethane	5.	not found
Bromoform	1Ø.	not found
Carbon Tetrachloride	5.	not found
Chlorobenzene	5.	not found
2-Chloroethyl Vinyl Ether	5Ø.	not found
Chloroform	20.	not found
Dibromochloromethane	5.	not found
1,2-Dichlorobenzene	5.	not found
1,3-Dichlorobenzene	5.	not found
1,4-Dichlorobenzene	5.	not found
1,1-Dichloroethane	5.	not found
1,2-Dichloroethane (EDC)	5.	not found
1,1-Dichloroethene	5.	not found
c-1,2-Dichloroethene	5.	not found
t-1,2-Dichloroethene	5.	not found
1,2-Dichloropropane	5.	not found
c-1,3-Dichloropropene	5.	not found
t-1,3-Dichloropropene	5.	not found
Ethylbenzene	5.	not found
Ethyl Chloride	5.	not found
Ethylene Dibromide	5.	not found
Methyl Bromide	5.	not found
Methyl Chloride	5.	not found
Methylene Chloride	5Ø.	not found
1,1,2,2-Tetrachloroethane	20.	not found
Tetrachloroethylene (PCE)	5.	not found
Toluene	5.	not found
1,1,1-Trichloroethane (TCA)	5.	not found
1,1,2-Trichloroethane	5.	not found
Trichloroethene (TCE)	5,	not found
Trichlorotrifluoroethane (f1	13) 2Ø.	not found
Trichlorofluoromethane(F-11)	2Ø.	not found
Vinyl Chloride	5.	not found
Xylenes	1Ø.	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	500.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 110/150/80.

#5/#5/89/MSD#7
F#4814v.wr1/43
MH/jm/gb/t1

Respectfully submitted

Many Waller

Mary Havlicek, Ph.D., President

Analytical Services, Inc. Central Lab Number : F-64815 141 Suburban Road, Suite C-4 Coast Collected : #4/14/89 Analytical San Luis Obispo, California 934Ø1 Received : #4/18/89 Services (8Ø5) 543-2553 Tested : Ø4/26/89 Collected by: R. Baldwin

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5030 (purge-and-trap) EPA METHOD 8260

Western Geologic Resources 2169 E. Francisco Blvd.

Suite B

San Rafael, CA 949Ø1

Sample Description: Project #1-#12.#2, B-9-14.#,

Chevron Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	5.	not found
Bromodichloromethane	5.	not found
Bromoform	1Ø.	not found
Carbon Tetrachloride	5.	not found
Chlorobenzene	5.	not found
2-Chloroethyl Vinyl Ether	5Ø.	лоt found
Chloroform	2Ø.	not found
Dibromochloromethane	5.	not found
1,2-Dichlorobenzene	5.	not found
1,3-Dichlorobenzene	5.	not found
1,4-Dichlorobenzene	5.	not found
1,1-Dichloroethane	5.	not found
1,2-Dichloroethane (EDC)	5.	not found
1,1-Dichloroethene	5.	not found
c-1,2-Dichloroethene	5.	not found
t-1,2-Dichloroethene	5.	not found
1,2-Dichloropropane	5.	not found
c-1,3-Dichloropropene	5.	not found
t-1,3-Dichloropropene	5.	not found
Ethylbenzene	5.	not found
Ethyl Chloride	5.	not found
Ethylene Dibromide	5.	not found
Methyl Bromide	5.	not found
Methyl Chloride	5.	not found
Methylene Chloride	5 ∅ .	not found
1,1,2,2-Tetrachloroethane	2Ø.	not found
Tetrochloroethylene (PCE)	5.	not found
Toluene	5.	not found
1,1,1-Trichloroethane (TCA)	5.	not found
1,1,2-Trichloroethane	5.	not found
Trichloroethene (TCE)	5.	not found
Trichlorotrifluoroethane (f	•	not found
Trichlorofluoromethane(F-11) 2Ø.	not found
Vinyl Chloride	5.	not found
Xylenes	1Ø.	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	5ØØ.	not found
Percent Recoveries of Sompl	e-Specific Ouplity Assurance Sp	1kec oce. 128/8

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 120/82/140.

Ø5/Ø5/89/MSD#7 FØ4815v.wr1/43 MH/jm/gb/tl

Respectfully submitted, Mary Havitcek, Ph.D., President

Central Analytical Services, Inc. Lab Number: F-#4816
Coast 141 Suburban Road, Suite C-4 Collected: #4/14/89
Analytical San Luis Obispo, California 934#1 Received: #4/18/89
Services (8#5) 543-2553 Tested: #4/26/89

Collected by: R. Baldwin

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5030 (purge-and-trap)
Western Geologic Resources EPA METHOD 8260

Western Geologic Resources 2169 E. Francisco Blvd.

Sample Description:

Suite B Project #1-Ø12.Ø2, B-9-21.Ø, San Rafael, CA 949Ø1 Chevron Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2,	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	20.	not found
Chloroform	10.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2 .	not found
1,2-Dichloroethane (EDC)	2 .	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropane	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	2Ø.	not found
1,1,2,2-Tetrachloroethane	1Ø.	not found
Tetrachloroethylene (PCE)	2.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	2.	not found
1,1,2-Trichloroethane	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f	•	not found
Trichlorofluoromethane(F-11	•	not found
Vinyl Chloride	2.	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	100.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 140/100/130.

Respectfully submitted,

Mary Warley

Mary Havlicek, Ph.D., President

Central Coast Analytical Services

Central Coast
Analytical Services
141 Suburban Road, Suite C-4
San Luis Obispo, California 934£1
(8£5) 543-2553

Lab Number: F-4816
Collected: #4/14/89
Received: #4/18/89
Tested: As Listed
Collected by: Richard Baldwin

Attn: Tom Howard Western Geologic Resources 2169 E. Francisco Blvd.

Suite B San Rafael, Ca. 94901 Sample Description:

1-\$12.\$2, Chevron Oakland, B-9- 21.\$',

Soil

REPORT

*Digested by EPA 3050 on 05/01/89 by JJ

DETECTION CONSTITUENT EPA METHOD/DATE/ANALYST LIMIT TOTAL LEVEL TTLC*** (mg/kg) (PQL)** mg/kg mg/kg *CADMIUM 6Ø1Ø Ø5/Ø3/89 MM 1Ø. <1Ø. 1ØØ. *CHROMIUM, TOTAL 6010 05/03/89 MM 3. 27. 25ØØ. *LEAD 742Ø Ø5/1Ø/89 KRW 1. **<1.** 1000. *ZINC 6Ø1Ø Ø5/Ø3/89 MM 3. 17. 5ØØØ.

**Practical Quantitation Limit

***TOTAL THRESHOLD LIMIT CONCENTRATION as listed in 22 Cal Adm Code Art 11

Sec. 66699 as persistent & bioaccumulative toxic substance.

Respectfully submitted, CENTRAL COAST ANALYTICAL SERVICES

#5/11/89 F4816IC.WR1/45 MH/oh

Mary Havlicek, Ph.D., President

AIR, WATER & HAZARDOUS WASTE LABORATORY (No.131) CERTIFIED by CALIFORNIA DEPT of HEALTH SERVICES

Central
Coast
Analytical
Services

Central Coast
Analytical Services
141 Suburban Road, Suite C-4
San Luis Obispo, California 934#1
(8#5) 543-2553

Lab Number: F-4816
Collected: #4/14/89
Received: #4/18/89
Tested: As Listed

Collected by: Richard Baldwin

Attn: Tom Howard Western Geologic Resources 2169 E. Francisco Blvd. Suite B San Rafael, Ca. 94901

Sample Description:

1-\$12.\$2, Chevron Oakland, B-9- 21.\$', Soil

REPORT

CONSTITUENT

EPA METHOD/DATE/ANALYST

DETECTION LIMIT
(PQL)**
mg/kg

mg/kg

OIL & GREASE

5Ø3E Ø5/Ø9/89 LAP

5Ø.

8Ø.

**Practical Quantitation Limit

Ø5/1Ø/89 F4816WG.WR1/45 MH/ah Respectfully submitted,
CENTRAL COAST ANALYTICAL SERVICES

Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number: F-#4818

Coast 141 Suburban Road, Suite C-4 Collected: #4/14/89

Analytical San Luis Obispo, California 934#1 Received: #4/18/89

Services (8#5) 543-2553 Tested: #4/26/89

Collected by: R. Baldwin

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

Western Geologic Resources 2169 E. Francisco Blvd.

Suite B

San Rafael, CA 949Ø1

Sample Description: Project #1-012.02, B-9-29.5,

EPA METHOD 826Ø

Chevron Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	5.	not found
Bromodichloromethane	5.	not found
Bromoform	1 Ø.	not found
Carbon Tetrachloride	5,	not found
Chlorobenzene	5.	not found
2-Chloroethyl Vinyl Ether	5Ø.	not found
Chloroform	2Ø.	not found
Dibromochloromethane	5.	not found
1,2-Dichlorobenzene	5.	not found
1,3-Dichlorobenzene	5.	not found
1,4-Dichlorobenzene	5.	not found
1,1-Dichloroethane	5.	not found
1,2-Dichloroethane (EDC)	5.	not found
1,1-Dichloroethene	5.	not found
c-1,2-Dichloroethene	5.	not found
t-1,2-Dichloroethene	5.	not found
1,2-Dichloropropane	5.	not found
c-1,3-Dichloropropene	5.	not found
t-1,3-Dichloropropene	5.	not found
Ethylbenzene	5.	not found
Ethyl Chloride	5.	not found
Ethylene Dibromide	5.	not found
Methyl Bromide	5.	not found
Methyl Chloride	5.	not found
Methylene Chloride	5Ø.	not found
1,1,2,2-Tetrachloroethane	2 Ø.	not found
Tetrachloroethylene (PCE)	5.	not found
Toluene	5.	not found
1,1,1-Trichloroethane (TCA)	5.	not found
1,1,2-Trichloroethane	5.	not found
Trichloroethene (TCE)	5.	not found
Trichlorotrifluoroethane (f	113) 20.	not found
Trichlorofluoromethane(F-11		not found
Vinyl Chloride	5.	not found
Xylenes	10.	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	500.	not found
Daniel Danie de Barra		

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 140/100/140.

Ø5/Ø5/89/MSD#7 FØ4818v.wr1/43 MH/jm/gb/tl

Respectfully submitted,

Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number: F-#4819
Coast 141 Suburban Road, Suite C-4 Collected: #4/14/89
Analytical San Luis Obispo, California 934#1 Received: #4/18/89

(805) 543-2553 Tested : #4/26/89

Collected by: R. Baldwin

ATTN: Tom Howard Western Geologic Resources

EXTRACTED BY EPA METHOD 5#3# (purge-and-trap)

2169 E. Francisco Blvd.

EPA METHOD 826Ø Sample Description:

Suite B

Project #1-#12.#2, B-9-33.5,

Services

San Rafael, CA 94901 Chevron Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	5.	not found
Bromodichloromethane	5.	not found
Bromoform	1Ø.	not found
Carbon Tetrachloride	5.	not found
Chlorobenzene	5.	not found
2-Chloroethyl Vinyl Ether	5Ø.	not found
Chloroform	20.	not found
Dibromochloromethane	5.	not found
1,2-Dichlorobenzene	5.	not found
1,3-Dichlorobenzene	5.	not found
1,4-Dichlorobenzene	5.	not found
1,1-Dichloroethane	5.	not found
1,2-Dichloroethane (EDC)	5.	not found
1,1-Dichloroethene	5.	not found
c-1,2-Dichloroethene	5.	not found
t-1,2-Dichloroethene	5.	not found
1,2-Dichloropropane	5.	not found
c-1,3-Dichloropropene	5 .	not found
t-1,3-Dichloropropene	5.	not found
Ethylbenzene	5.	not found
Ethyl Chloride	5.	not found
Ethylene Dibromide	5.	not found
Methyl Bromide	5.	not found
Methyl Chloride	5.	not found
Methylene Chloride	5Ø.	not found
1,1,2,2-Tetrachloroethane	20.	not found
Tetrachloroethylene (PCE)	5.	not found
Toluene	5.	not found
1,1,1-Trichloroethane (TCA)	5.	not found
1,1,2-Trichloroethane	5.	not found
Trichloroethene (TCE)	5.	not found
Trichlorotrifluoroethane (f	113) 20.	not found
Trichlorofluoromethane(F-11) 20.	not found
Vinyl Chloride	5.	not found
Xylenes	1Ø.	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	5000.	not found
, a. com cons (ousulting)		4

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 140/110/150.

Ø5/Ø5/89/MSD#7 F#4819v.wr1/43 MH/jm/gb/tl

Respectfully submitted, Man Bankerl Mary Havlicek, Ph.D., President

Analytical Services, Inc. Lab Number : F-#4821 141 Suburban Road, Suite C-4 Collected : #4/13/89 Central Coast Analytical San Luis Obispo, California 93401 Received : \$4/18/89 Services (8Ø5) 543-2553 Tested : **Ø4/22/8**9 Collected by: R. Baldwin

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

Western Geologic Resources 2169 E. Francisco Blvd.

Sample Description:

EPA METHOD 826#

Suite B

Project #1-#12.#2, 8-1#-9.5',

San Rafael, CA 949Ø1

Chevron, Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2.	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	2Ø.	not found
Chloroform	10.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropane	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	2 Ø.	not found
1,1,2,2-Tetrachloroethane	1Ø.	not found
Tetrachloroethylene (PCE)	2 .	not found
Toluene	2.	not found
1,1,1-Trichloroethone (TCA)	2.	not found
1,1,2-Trichloroethane	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (1	f113) 1Ø.	not found
Trichlorofluoromethane(F-11	l) 1Ø.	not found
Vinyl Chloride	2.	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Diesel #2)	1000.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 118/77.

Ø4/28/89/MSD#7 FØ4821v.wr1/4Ø MH/j1/re/tl

Respectfully submitted, May Garle Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number: F-#4822
Coast 141 Suburban Road, Suite C-4 Collected: #4/13/89
Analytical San Luis Obispo, California 934#1 Received: #4/18/89
Services (8#5) 543-2553 Tested: #4/22/89

Collected by: R. Baldwin

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5030 (purge-and-trap) Western Geologic Resources EPA METHOD 8260

Western Geologic Resources 2169 E. Francisco Blvd. Suite B

Sample Description: Project #1-#12.#2, B-1#-14.5',

San Rafael, CA 949#1 Chevron, Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Proctical Quantitation Limit)	Concentration (ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2 .	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	20.	not found
Chloroform	10.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropane	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	20.	not found
1,1,2,2-Tetrachloroethane	1Ø.	not found
Tetrachloroethylene (PCE)	2.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	2.	not found
1,1,2-Trichloroethane	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f	113) 1ø.	not found
Trichlorofluoromethane(F-11	10.	not found
Vinyl Chloride	2.	not found
Xylenes	4.	
Total Purgeable Petroleum Hydrocarbons (Diesel #2)	1000.	not found
Chloroform Dibromochloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane (EDC) 1,1-Dichloroethene c-1,2-Dichloroethene t-1,2-Dichloroethene 1,2-Dichloropropane c-1,3-Dichloropropane c-1,3-Dichloropropene t-1,3-Dichloropropene Ethyl Chloride Ethylene Dibromide Methyl Bromide Methyl Bromide Methyl Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethylene (PCE) Toluene 1,1,1-Trichloroethane Trichloroethene (TCA) 1,1,2-Trichloroethane Trichloroethene (TCE) Trichlorofluoromethane(F-11 Vinyl Chloride Xylenes Total Purgeable Petroleum	10. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	not found not fo

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 109/76/82.

Ø4/28/89/MSD#7 FØ4822v.wr1/41 MH/jm/re/tl

Respectfully submitted,

Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number: F-\$\pi\4823\$
Coast 141 Suburban Road, Suite C-4 Collected: \$\pi\4/13/89\$
Analytical San Luis Obispo, California 934\$1 Received: \$\pi\4/18/89\$
Services (8\$\pi\5\) 543-2553 Tested: \$\pi\4/22/89\$

Collected by: R. Baldwin

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5#3# (purge-and-trap)

Western Geologic Resources 2169 E. Francisco Blvd. EPA METHOD 8260 Sample Description:

2169 E. Francisco Blv Suite B

Project #1-#12.#2, B-1#-21.5',

San Rafael, CA 949Ø1

Chevron, Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2.	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	20.	not found
Chloroform	1Ø.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropane	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	2Ø.	not found
1,1,2,2-Tetrachloroethane	1Ø.	not found
Tetrachloroethylene (PCE)	2 .	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	2.	not found
1,1,2-Trichloroethane	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f		not found
Trichlorofluoromethane(F-11) 1Ø.	not found
Vinyl Chloride	2.	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Diesel #2)	1000.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 110/70/84.

Ø4/28/89/MSD#7 FØ4823v.wr1/41 MH/jm/re/tl Respectfully submitted,

Mary Havlicek, Ph.D., President

Analytical Services, Inc. 141 Suburban Road, Suite C-4 Central Lab Number : F-#4825 Coast Collected : **94/13/89** Analytical San Luis Obispo, California 93401 Received : **#4/18/89** Services (8Ø5) 543-2553 Tested : \$4/22/89 Collected by: R. Baldwin

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5#3# (purge-and-trop)

Western Geologic Resources 2169 E. Francisco Blvd.

EPA METHOD 826# Sample Description: Suite B Project #1-#12.#2, B-1#-27.#',

San Rafael, CA 94901 Chevron, Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2.	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	20.	not found
Chloroform	10.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropane	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	20.	not found
1,1,2,2-Tetrachloroethane	1Ø.	not found
Tetrachloroethylene (PCE)	2.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	2.	not found
1,1,2-Trichloroethane	 2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f1		not found
Trichlorofluoromethane(F-11)		not found
Vinyl Chloride	2	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Diesel #2)	1ØØØ.	not found
Demand D		

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 117/85/87.

Ø4/28/89/MSD#7 FØ4825v.wr1/41 MH/jm/re/tl

Respectfully submitted, Many aulioch Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number : F-#4827
Coast 141 Suburban Road, Suite C-4 Collected : #4/13/89
Analytical San Luis Obispo, California 934#1 Received : #4/18/89
Services (8#5) 543-2553 Tested : #4/26/89

Collected by: R. Baldwin

ATTN: Tom Howard

EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

Western Geologic Resources 2169 E. Francisco Blvd.

EPA METHOD 826# Sample Description:

Suite B

Project #1-Ø12.Ø2, B-11-9.5,

San Rafael, CA 949Ø1

Chevron Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2.	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	2Ø.	not found
Chloroform	10.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2 .	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropane	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	2Ø.	not found
1,1,2,2-Tetrachloroethane	1Ø.	not found
Tetrachloroethylene (PCE)	2.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	2.	not found
1,1,2-Trichloroethane	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f	113) 1Ø.	not found
Trichlorofluoromethane(F-11) 1ø.	not found
Vinyl Chloride	2.	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	100.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 120/85.

Ø5/Ø5/89/MSD#7 FØ4827v.wr1/43 MH/jl/gb/tl

Respectfully submitted. Man Haulcol

Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number : F-#4828 Coast 141 Suburban Road, Suite C-4 Collected : #4/13/89 Analytical San Luis Obispo, California 934#1 Received : #4/18/89 Services (895) 543-2553 Tested : #4/25/89

Collected by: R. Baldwin

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5030 (purge-and-trap) Western Geologic Resources EPA METHOD 8260

2169 E. Francisco Blvd. Sample Description:

Suite B Project #1-812.62, B-11-14.25, San Rafael, CA 949Ø1

Chevron Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	Ø.2	not found
Bromodichloromethane	Ø.2	not found
Bromoform	Ø.4	not found
Carbon Tetrachloride	Ø.2	not found
Chlorobenzene	Ø.2	not found
2-Chloroethyl Vinyl Ether	2.	not found
Chloroform	1.	not found
Dibromochloromethane	Ø.2	not found
1,2-Dichlorobenzene	Ø.2	not found
1,3-Dichlorobenzene	Ø.2	not found
1,4-Dichlorobenzene	Ø.2	not found
1,1-Dichloroethane	Ø.2	not found
1,2-Dichloroethane (EDC)	Ø.2	not found
1,1-Dichloroethene	Ø.2	not found
c-1,2-Dichloroethene	Ø.2	not found
t-1,2-Dichloroethene	Ø.2	not found
1,2-Dichloropropane	Ø.2	not found
c-1,3-Dichloropropene	Ø.2	not found
t-1,3-Dichloropropene	Ø.2	not found
Ethylbenzene	Ø.2	not found
Ethyl Chloride	Ø.2	not found
Ethylene Dibromide	Ø.2	not found
Methyl Bromide	Ø.2	not found
Methyl Chloride	Ø.2	not found
Methylene Chloride	2.	not found
1,1,2,2-Tetrachloroethane	1.	not found
Tetrachloroethylene (PCE)	Ø.2	not found
Toluene	Ø.2	not found
1,1,1-Trichloroethane (TCA) Ø.2	not found
1,1,2-Trichloroethane	Ø.2	not found
Trichloroethene (TCE)	Ø.2	not found
Trichlorotrifluoroethane (1	F113) 1.	not found
Trichlorofluoromethane(F-1	1) 1.	not found
Vinyl Chloride	Ø.2	not found
Xylenes	Ø.4	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	2000.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 107/98/85.

Ø5/Ø1/89/MSD#7 F#4828v.wr1/41 MH/jg/re/tl

Respectfully submitted,

Many Wales, Ph.D., President

Analytical Services, Inc. Lab Number : F-\$4829 141 Suburban Road, Suite C-4 Collected : \$4/13/89 Central Coast Analytical San Luis Obispo, California 934ø1 Services (805) 543-2553

Received : #4/18/89 Tested : #4/26/89

Collected by: R. Boldwin EXTRACTED BY EPA METHOD 5#3# (purge-and-trap)

ATTN: Tom Howard Western Geologic Resources

EPA METHOD 8260

2169 E. Francisco Blvd.

Sample Description:

Suite B

Project #1-#12.#2, B-11-19.25,

San Rafael, CA 949Ø1

Chevron Oakland, Soil

Compound Analyzed Detection Limit (ug/kg) Concentration (Practical Quantitation Limit) (ug/kg)

	((09/19/
Benzene	10.	not found
Bromodichloromethane	1Ø.	not found
Bromoform	20.	not found
Carbon Tetrachloride	1Ø.	not found
Chlorobenzene	1Ø.	7Ø.
2-Chloroethyl Vinyl Ether	1ØØ.	not found
Chloroform	5Ø.	not found
Dibromochloromethane	1Ø.	not found
1,2-Dichlorobenzene	1Ø.	not found
1,3-Dichlorobenzene	1Ø.	not found
1,4-Dichlorobenzene	1Ø.	not found
1,1-Dichloroethane	1Ø.	not found
1,2-Dichloroethane (EDC)	10.	not found
1,1-Dichloroethene	1Ø.	not found
c-1,2-Dichloroethene	1Ø.	not found
t-1,2-Dichloroethene	1Ø.	not found
1,2-Dichloropropane	· 1Ø.	not found
c-1,3-Dichloropropene	1Ø.	not found
t-1,3-Dichloropropene	1Ø.	not found
Ethylbenzene	1Ø.	14Ø.
Ethyl Chloride	1Ø.	not found
Ethylene Dibromide	1Ø.	not found
Methyl Bromide	1Ø.	not found
Methyl Chloride	1Ø.	not found
Methylene Chloride	1 Ø Ø .	not found
1,1,2,2-Tetrachloroethane	5Ø.	not found
Tetrachloroethylene (PCE)	1Ø.	not found
Toluene	1Ø.	not found
1,1,1-Trichloroethane (TCA)	1Ø.	not found
1,1,2-Trichloroethane	1Ø.	not found
Trichloroethene (TCE)	1Ø.	not found
Trichlorotrifluoroethane (f	113) 5Ø.	not found
Trichlorofluoromethane(F-11) 5ø.	not found
Vinyl Chloride	1Ø.	not found
Xylenes	2 Ø.	95Ø.
Total Purgeable Petroleum Hydrocarbons (Diesel #2)	1000.	680000.

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 120/89/130.

Ø5/Ø5/89/MSD#7 FØ4829v.wr1/43 MH/j1/gb/tl

Respectfully submitted. Man Hanlick Mary Havlicek, Ph.D., President

Central
Coast
Analytical Services, Inc.
Lab Number: F-\$483\$
Collected: \$4/14/89
Analytical San Luis Obispo, California 934\$1
Services
(8\$5) 543-2553
Luis Obispo, California 934\$1
Collected by: R. Baldwin

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

Western Geologic Resources 2169 E. Francisco Blvd. Suite B

Sample Description: Project #1-#12.02, B-11-23.5,

EPA METHOD 826#

San Rafael, CA 94981 Chevron Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	1ØØ.	not found
Bromodichloromethane	100.	not found
Bromoform	2ØØ.	not found
Carbon Tetrachloride	1ØØ.	not found
Chlorobenzene	100.	not found
2-Chloroethyl Vinyl Ether	1ØØØ.	not found
Chloroform	5ØØ.	not found
Dibromochloromethane	1ØØ.	not found
1,2-Dichlorobenzene	100.	not found
1,3-Dichlorobenzene	1ØØ.	not found
1,4-Dichlorobenzene	1ØØ.	not found
1,1-Dichloroethane	100.	not found
1,2-Dichloroethane (EDC)	1ØØ.	not found
1,1-Dichloroethene	1 Ø Ø .	not found
c-1,2-Dichloroethene	1 Ø Ø.	not found
t-1,2-Dichloroethene	1ØØ.	not found
1,2-Dichloropropane	1ØØ.	not found
c-1,3-Dichloropropene	100.	not found
t-1,3-Dichloropropene	100.	not found
Ethylbenzene	1ØØ.	35ØØ.
Ethyl Chloride	1 Ø Ø .	not found
Ethylene Dibromide	1ØØ.	not found
Methyl Bromide	1ØØ.	not found
Methyl Chloride	100.	not found
Methylene Chloride	1000.	not found
1,1,2,2-Tetrachloroethane	5ØØ.	not found
Tetrachloroethylene (PCE)	1ØØ.	not found
Toluene	100.	4ØØØ.
1,1,1-Trichloroethane (TCA)		2ØØ.
1,1,2-Trichloroethane	1ØØ.	not found
Trichloroethene (TCE)	1ØØ.	not found
Trichlorotrifluoroethane (f		not found
Trichlorofluoromethane(F-11) 5ØØ.	not found
Vinyl Chloride	1ØØ.	not found
Xylenes	200.	12000.
Total Purgeable Petroleum Hydrocarbons (Diesel #2)	5ØØØ.	45ØØØØØØ.

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 140/97/140.

#5/#5/89/MSD#7
F#483#v.wr1/43
MH/ec/gb/t1

Respectfully submitted,

Many Willer

Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number: F-#483#dup
Coast 141 Suburban Road, Suite C-4 Collected: #4/14/89
Analytical San Luis Obispo, California 934#1 Received: #4/18/89
Services (8#5) 543-2553 Tested: #4/26/89

Collected by: R. Baldwin EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

ATTN: Tom Howard Western Geologic Resources

EPA METHOD 8260

2169 E. Francisco Blvd.

Sample Description:

Suite B

Project #1-912.92, B-11-23.5,

San Rafael, CA 949Ø1

Chevron Oakland, Soil, Duplicate Analysis

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	200.	not found
Bromodichloromethane	200.	not found
Bromoform	400.	not found
Carbon Tetrachloride	200.	not found
Chlorobenzene	200.	not found
2-Chloroethyl Vinyl Ether	200.	not found
Chloroform	1000.	not found
Dibromochloromethane	2ØØ.	not found
1,2-Dichlorobenzene	200.	not found
1,3-Dichlorobenzene	200.	not found
1,4-Dichlorobenzene	2ØØ.	not found
1,1-Dichloroethone	200.	not found
1,2-Dichloroethane (EDC)	200.	not found
1,1-Dichloroethene	200.	not found
c-1,2-Dichloroethene	2ØØ.	not found
t-1,2-Dichloroethene	2ØØ.	not found
1,2-Dichloropropane	200.	not found
c-1,3-Dichloropropene	2ØØ.	not found
t-1,3-Dichloropropene	200.	not found
Ethylbenzene	2ØØ.	5ØØØ.
Ethyl Chloride	200.	not found
Ethylene Dibromide	200.	not found
Methyl Bromide	200.	not found
Methyl Chloride	2ØØ.	not found
Methylene Chloride	2000.	not found
1,1,2,2-Tetrachloroethane	1000.	not found
Tetrachloroethylene (PCE)	200	not found
Toluene	200.	41ØØ.
1,1,1-Trichloroethane (TCA)	200.	not found
1,1,2-Trichloroethane	200.	not found
Trichloroethene (TCE)	2ØØ.	not found
Trichlorotrifluoroethane (f	•	not found
Trichlorofluoromethane(F-11	1000.	not found
Vinyl Chloride	2ØØ.	not found
Xylenes	400.	20000.
Total Purgeable Petroleum Hydrocarbons (Diesel #2)	1000.	50000000.

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 130/120/140.

#5/#5/89/MSD#7
F#483#vd.wr1/43
MH/ec/gb/t1

Respectfully submitted,

Man full fresident

Mary Havlicek, Ph.D., Fresident

Analytical Services, Inc. Lab Number : F-#4831 141 Suburban Road, Suite C-4 Collected : #4/14/89 Central Coast Analytical San Luis Obispo, California 93491 Received : #4/18/89 Services (8Ø5) 543~2553 Tested : \$4/27/89

Collected by: R. Baldwin

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5#3# (purge-and-trap)

Western Geologic Resources EPA METHOD 8260 2169 E. Francisco Blvd.

Sample Description:

Suite B Project #1-\$12.\$2, Chevron, Oakland, San Rafael, CA 949Ø1

B-11-29.5, Soil

Benzene 1. not found Bromodichloromethane 1. not found Bromoform 2. not found Carbon Tetrachloride 1. not found Chlorobenzene 1. not found Chlorobenzene 1. not found Chlorothyl Vinyl Ether 16. not found 2-Chloroethyl Vinyl Ether 16. not found 1.2-Dichloromethane 1. not found 1.3-Dichlorobenzene 1. not found 1.3-Dichlorobenzene 1. not found 1.4-Dichlorobenzene 1. not found 1.1-Dichlorobenzene 1. not found 1.1-Dichloroethane 1. not found 1.2-Dichloroethane 1. not found 1.2-Dichloroethane 1. not found 1.1-Dichloroethane 1. not found 1.1-Dichloroethane 1. not found 1.1-Dichloroethane 1. not found 1.2-Dichloroethane 1. not found 1.2-Dichloropropane 1. not found 1.2-Dichloropropane 1. not found 1.2-Dichloropropane 1. not found 1.2-Dichloropropane 1. not found 1.1-Jolichloropropane	Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Bromoform 2	Benzene	1.	not found
Carbon Tetrachloride 1. not found Chlorobenzene 1. not found 2-Chloroethyl Vinyl Ether 10. not found 2-Chloroethyl Vinyl Ether 10. not found 1.2-Dichloromethane 1. not found 1.2-Dichlorobenzene 1. not found 1.3-Dichlorobenzene 1. not found 1.4-Dichlorobenzene 1. not found 1.4-Dichlorobenzene 1. not found 1.1-Dichloroethane 1. not found 1.2-Dichloroethane (EDC) 1. not found 1.1-Dichloroethane (EDC) 1. not found 1.1-Dichloroethene 1. not found 2-1.2-Dichloroethene 1. not found 2-1.2-Dichloroethene 1. not found 2-1.3-Dichloropropane 1. not found 2-1.3-Dichloropropane 1. not found 2-1.3-Dichloropropane 1. not found 2-1.3-Dichloropropane 1. not found 2-1.3-Dichloropropene 1. not found 2-1.3-Dichloropropane 1. not found 3-Dichloropropene 1.	Bromodichloromethane	1.	not found
Chlorobenzene 1. not found 2-Chloroethyl Vinyl Ether 10. not found Chloroform 5. not found Dibromochloromethane 1. not found 1.2-Dichlorobenzene 1. not found 1.3-Dichlorobenzene 1. not found 1.4-Dichloroethane 1. not found 1.1-Dichloroethane 1. not found 1.2-Dichloroethane 1. not found 1.2-Dichloroethane (EDC) 1. not found 1.2-Dichloroethane (EDC) 1. not found 1.2-Dichloroethene 1. not found c-1.2-Dichloroethene 1. not found t-1.2-Dichloroethene 1. not found 1.2-Dichloropropane 1. not found c-1.3-Dichloropropane 1. not found c-1.3-Dichloropropane 1. not found Ethylbenzene 1. not found Ethylene Dibromide 1. not found Ethylene Dibromide 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methyl Chloride 1. not found 1.1.2.2-Tetrachloroethane 5. not found 1.1.2.2-Tetrachloroethane 1. not found 1.1.1-Trichloroethane (TCA) 1. not found 1.1.2-Trichloroethane (TCA) 1. not found 1.1.2-Trichloroethane (TCA) 1. not found 1.1.2-Trichloroethane (TCE) 1. not fo	Bromoform	2.	not found
2-Chloroethyl Vinyl Ether 10. not found Chloroform 5. not found Dibromochloromethane 1. not found 1.2-Dichlorobenzene 1. not found 1.3-Dichlorobenzene 1. not found 1.4-Dichlorobenzene 1. not found 1.4-Dichloroethane 1. not found 1.1-Dichloroethane 1. not found 1.2-Dichloroethane 1. not found 1.2-Dichloroethane 1. not found 1.2-Dichloroethene 1. not found 1.1-Dichloroethene 1. not found 1.1-Dichloroethene 1. not found 1.2-Dichloroethene 1. not found 1.2-Dichloroethene 1. not found 1.2-Dichloropropane 1. not found 1.2-Dichloropropane 1. not found 2-1.3-Dichloropropane 1. not found 2-1.3-Dichloropropene 1. not found Ethylenzene 1. not found Ethylenzene 1. not found Ethylenzene 1. not found Methyl Bromide 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methylene Chloride 10. not found 1.1.2.2-Tetrachloroethane 5. not found 1.1.2.2-Tetrachloroethane 5. not found 1.1.2-Trichloroethane (TCA) 1. not found 1.1.2-Trichloroethane (TCA) 1. not found 1.1.2-Trichloroethane (TCB) 1. not found 1.1.2-Trichloroethane (TCE) 1. not found 1.1.2-Trichloroethane (TCE) 1. not found 1.1.2-Trichloroethane (TCB) 1. not found 1.1.2-	Carbon Tetrachloride	1.	not found
Chloroform Dibromochloromethane 1. not found 1.2-Dichlorobenzene 1. not found 1.3-Dichlorobenzene 1. not found 1.4-Dichlorobenzene 1. not found 1.1-Dichloroethane 1. not found 1.2-Dichloroethane 1. not found 1.2-Dichloroethane (EDC) 1. not found 1.1-Dichloroethene 1. not found 1.1-Dichloroethene 1. not found 1.2-Dichloroethene 1. not found 1.2-Dichloroethene 1. not found 1.2-Dichloropropane 1. not found 1.2-Dichloropropane 1. not found 1.2-Dichloropropane 1. not found 1.3-Dichloropropene 1. not found 1.3-Dichloropropene 1. not found Ethylenzene 1. not found Ethylenzene 1. not found Ethyl Chloride 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methylene Chloride 1. not found 1.1,2-Tetrachloroethane 1. not found 1.1,2-Tetrachloroethane 1. not found 1.1,2-Trichloroethane (TCA) 1. not found 1.1,2-Trichloroethane (TCB) 1. not found 1.1,1-Trichloroethane (TCB) 1. not f	Chlorobenzene	1.	not found
Dibromochloromethane 1. not found 1,2-Dichlorobenzene 1. not found 1,3-Dichlorobenzene 1. not found 1,4-Dichlorobenzene 1. not found 1,1-Dichloroethane 1. not found 1,2-Dichloroethane (EDC) 1. not found 1,1-Dichloroethane (EDC) 1. not found 1,1-Dichloroethene 1. not found 1,1-Dichloroethene 1. not found 1,2-Dichloroethene 1. not found 1,2-Dichloropthene 1. not found 1,1-3-Dichloropthene 1. not found 1,1-1-Trichloroethane 1. not found 1,1-2-Trichloroethane 1. not found 1,1-1-Trichloroethane 1. not found 1,1-1-Trichloroethane 1. not found 1,1-1-Trichloroethane 1. not found 1,1-1-Trichloroethane 1. not found 1,1-2-Trichloroethane 1. not found 1-1-1-Trichloroethane 1. not found 1-1-1-Trichloroeth	2-Chloroethyl Vinyl Ether	1Ø.	not found
1.2-Dichlorobenzene 1. not found 1.3-Dichlorobenzene 1. not found 1.4-Dichlorobenzene 1. not found 1.4-Dichloroethane 1. not found 1.2-Dichloroethane (EDC) 1. not found 1.1-Dichloroethane (EDC) 1. not found 1.1-Dichloroethene 1. not found c-1.2-Dichloroethene 1. not found t-1.2-Dichloroethene 1. not found 1.2-Dichloropropane 1. not found c-1.3-Dichloropropane 1. not found c-1.3-Dichloropropene 1. not found t-1.3-Dichloropropene 1. not found t-1.3-Dichloropropene 1. not found Ethylbenzene 1. not found Ethylene Dibromide 1. not found Ethylene Dibromide 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methyl Chloride 1. not found Methylene Chloride 1. not found Tetrachloroethane 5. not found Tetrachloroethylene (PCE) 1. not found Toluene 1. not found Trichloroethane (TCA) 1. not found Trichloroethane (TCE) 1. not found Trichlorofluoromethane (F-11) 5. not found Vinyl Chloride 1. not found Trichlorofluoromethane (F-11) 5. not found Xylenes 2. not found	Chloroform	5.	not found
1.3-Dichlorobenzene 1. not found 1.4-Dichlorobenzene 1. not found 1.1-Dichloroethane 1. not found 1.2-Dichloroethane (EDC) 1. not found 1.1-Dichloroethene 1. not found 1.1-Dichloroethene 1. not found 1.1-Dichloroethene 1. not found 1.2-Dichloroethene 1. not found 1.2-Dichloropropane 1. not found 1.2-Dichloropropane 1. not found 1.3-Dichloropropene 1. not found 1.1-3-Dichloropropene 1. not found 1.1-3-Dichloropropene 1. not found 1.1-1-Dichloropropene 1. not found 1.1-1-Dichloropropene 1. not found 1.1-1-Dichloropropene 1. not found 1.1-1-Dichloropropene 1. not found 1.1-Dichloropropene 1. not found 1.1-Dichloropropene 1. not found 1.1-Dichloropropene 1. not found 1.1-Dichloropropene 1. not found 1.1-Dichloroethane 1. not fou		1.	not found
1.4-Dichlorobenzene 1. not found 1.1-Dichloroethane 1. not found 1.2-Dichloroethane (EDC) 1. not found 1.1-Dichloroethane (EDC) 1. not found 1.1-Dichloroethene 1. not found c-1.2-Dichloroethene 1. not found 1.2-Dichloropthane 1. not found 1.2-Dichloroptopane 1. not found c-1.3-Dichloroptopane 1. not found c-1.3-Dichloroptopane 1. not found t-1.3-Dichloroptopane 1. not found Ethylbenzene 1. not found Ethylbenzene 1. not found Ethylene Dibromide 1. not found Methyl Bromide 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methyl Chloride 1. not found Methylene Chloride 1. not found 1.1.2.2-Tetrachloroethane 5. not found Toluene 1. not found Toluene 1. not found 1.1.1-Trichloroethane (TCA) 1. not found 1.1.2-Trichloroethane (TCA) 1. not found 1.1.2-Trichloroethane (TCE) 1. not found 1.1.2	1,2-Dichlorobenzene	1.	not found
1,1-Dichloroethane 1. not found 1,2-Dichloroethane (EDC) 1. not found 1,1-Dichloroethene 1. not found c-1,2-Dichloroethene 1. not found t-1,2-Dichloroethene 1. not found 1,2-Dichloropthene 1. not found 1,2-Dichloropthene 1. not found c-1,3-Dichloropthene 1. not found c-1,3-Dichloropthene 1. not found t-1,3-Dichloropthene 1. not found t-1,3-Dichloropthene 1. not found Ethylbenzene 1. not found Ethylbenzene 1. not found Ethylbenzene 1. not found Methyl Bromide 1. not found Methyl Bromide 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methyl Chloride 1. not found 1,1,2,2-Tetrachloroethane 5. not found Toluene 1. not found 1,1,1-Trichloroethane (TCA) 1. not found 1,1,2-Trichloroethane 1. not found 1,1,2-Trichloroethane (TCA) 1. not found 1,1,2-Trichloroethane (TCE) 1. not found 1,1,1-Trichloroethane (TCE) 1. not found 1,1,1-Tr	1,3-Dichlorobenzene	1.	not found
1,2-Dichloroethane (EDC) 1, 1-Dichloroethene 1, 1-Dichloroethene 1, 1-Dichloroethene 1, 1,2-Dichloroethene 1, 2-Dichloroethene 1, 2-Dichloroptopane 1, 2-Dichloropropane 1, 1,3-Dichloropropene 1, 1,3-Dichloropropene 1, 1,3-Dichloropropene 1, 1,3-Dichloropropene 1, 1,3-Dichloropropene 1, 1,3-Dichloropropene 1, 1,3-Dichloropropene 1, 1,3-Dichloropropene 1,3-Dichloropropene 1,1,1,3-Dichloropropene 1,1,1,3-Dichloropropene 1,1,1,3-Dichloropropene 1,1,1,3-Dichlor		1.	not found
1,1-Dichloroethene 1. not found c-1,2-Dichloroethene 1. not found t-1,2-Dichloroethene 1. not found 1,2-Dichloropropane 1. not found c-1,3-Dichloropropene 1. not found t-1,3-Dichloropropene 1. not found Ethylbenzene 1. not found Ethylbenzene 1. not found Ethyl Chloride 1. not found Methyl Bromide 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methylene Chloride 1. not found 1,1,2,2-Tetrachloroethane 1. not found Toluene 1. not found 1,1,1-Trichloroethane (TCA) 1,1,2-Trichloroethane (TCA) 1,1,2-Trichloroethane (TCE) 1 not found Trichlorotrifluoroethane (f113) Trichlorofluoromethane(F-11) Vinyl Chloride 1. not found Tound Tound Tichlorofluoromethane(F-11) Tound Tound Tichlorofluoromethane(F-11) Tound Tound Tound Tound Tichlorofluoromethane(F-11) Tound Tou	1,1-Dichloroethane	1.	not found
c-1,2-Dichloroethene 1. not found t-1,2-Dichloroethene 1. not found 1,2-Dichloropropane 1. not found c-1,3-Dichloropropene 1. not found t-1,3-Dichloropropene 1. not found Ethylbenzene 1. not found Ethylbenzene 1. not found Ethylene Dibromide 1. not found Ethylene Dibromide 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methyl Chloride 1. not found Methylene Chloride 10. not found 1.1,2,2-Tetrachloroethane 5. not found Tetrachloroethylene (PCE) 1. not found Toluene 1. not found 1,1,1-Trichloroethane (TCA) 1. not found 1,1,2-Trichloroethane 1. not found Trichloroethene (TCE) 1. not found Trichloroethene (TCE) 1. not found Trichloroethene (FCE) 1. not found Trichlorofluoromethane (F113) 5. not found Trichlorofluoromethane(F-11) 5. not found Ninyl Chloride 1. not found Ninyl Chloride	1,2-Dichloroethane (EDC)	1.	not found
t-1,2-Dichloroethene 1. not found 1,2-Dichloropropane 1. not found c-1,3-Dichloropropene 1. not found t-1,3-Dichloropropene 1. not found t-1,3-Dichloropropene 1. not found Ethylbenzene 1. not found Ethylenzene 1. not found Ethylene Dibromide 1. not found Methyl Bromide 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methylene Chloride 1. not found Methylene Chloride 1. not found 1,1,2,2-Tetrachloroethane 5. not found Toluene 1. not found 1.1,1-Trichloroethane (TCA) 1. not found 1,1,1-Trichloroethane (TCA) 1. not found 1,1,2-Trichloroethane 1. not found 1,1,2-Trichloroethane (TCE) 1. not found Trichlorotrifluoroethane (f113) 5. not found Trichlorofluoromethane (F-11) 5. not found Ninyl Chloride 1. not found Ninyl Chloride 1. not found Nylenes 2. not found	1,1-Dichloroethene	1.	not found
1.2-Dichloropropane 1. not found c-1,3-Dichloropropene 1. not found t-1,3-Dichloropropene 1. not found t-1,3-Dichloropropene 1. not found Ethylbenzene 1. not found Ethylbenzene 1. not found Ethyl Chloride 1. not found Ethylene Dibromide 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methyl Chloride 1. not found Methylene Chloride 1. not found 1,1,2,2-Tetrachloroethane 5. not found Tetrachloroethylene (PCE) 1. not found Toluene 1. not found 1,1,1-Trichloroethane (TCA) 1. not found 1,1,2-Trichloroethane (TCA) 1. not found Trichloroethane (TCE) 1. not found Trichloroethane (TCE) 1. not found Trichlorotrifluoroethane (f113) 5. not found Trichlorofluoromethane(F-11) 5. not found Ninyl Chloride 1. not found Ninyl Chloride 1. not found Nylenes	c-1,2-Dichloroethene	1.	not found
c-1,3-Dichloropropene 1. not found t-1,3-Dichloropropene 1. not found Ethylbenzene 1. not found Ethyl Chloride 1. not found Ethylene Dibromide 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methyl Chloride 1. not found Methylene Chloride 1. not found 1,1,2-Tetrachloroethane 5. not found Toluene 1. not found 1,1,2-Trichloroethane (TCA) 1. not found 1,1,2-Trichloroethane T. not found Trichloroethane (TCE) 1. not found Trichlorofluoromethane (F-11) 5. not found Trichlorofluoromethane (F-11) 5. not found Trichloride 1. not found Trichloride 2. not found Trichloride 2. not found	t-1,2-Dichloroethene	1.	not found
t-1,3-Dichloropropene 1. not found Ethylbenzene 1. not found Ethyl Chloride 1. not found Ethylene Dibromide 1. not found Methyl Bromide 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methylene Chloride 10. not found 1.1,2,2-Tetrachloroethane 5. not found Tetrachloroethylene (PCE) 1. not found Toluene 1. not found 1.1,1-Trichloroethane (TCA) 1. not found 1.1,2-Trichloroethane 1. not found Trichloroethane (TCE) 1. not found Trichloroethane (TCE) 1. not found Trichloroethane (TCE) 1. not found Trichlorofluoromethane (F-11) 5. not found Trichlorofluoromethane (F-11) 5. not found Xylenes 2. not found	1,2-Dichloropropane	1.	not found
Ethylbenzene 1. not found Ethyl Chloride 1. not found Ethylene Dibromide 1. not found Methyl Bromide 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methylene Chloride 10. not found 1.1,2,2-Tetrachloroethane 5. not found Tetrachloroethylene (PCE) 1. not found Toluene 1. not found 1.1,1-Trichloroethane (TCA) 1. not found 1.1,2-Trichloroethane 1. not found Trichloroethane (TCE) 1. not found Trichloroethane (TCE) 5. not found Trichloroethane (TCE) 1. not found Trichlorofluoromethane (f113) 5. not found Trichlorofluoromethane(F-11) 5. not found Vinyl Chloride 1. not found Xylenes	c-1,3-Dichloropropene	1,	not found .
Ethyl Chloride 1. not found Ethylene Dibromide 1. not found Methyl Bromide 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methylene Chloride 10. not found 1.1,2,2-Tetrachloroethane 5. not found Tetrachloroethylene (PCE) 1. not found Toluene 1. not found 1.1,1-Trichloroethane (TCA) 1. not found 1.1,2-Trichloroethane 1. not found Trichloroethane (TCE) 1. not found Trichloroethane (TCE) 1. not found Trichloroethane (FCE) 1. not found Trichlorofluoromethane (F113) 5. not found Trichlorofluoromethane (F-11) 5. not found Vinyl Chloride 1. not found Xylenes 2.	t-1,3-Dichloropropene	1.	not found
Ethylene Dibromide 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methylene Chloride 10. not found 1.1,2,2-Tetrachloroethane 5. not found Tetrachloroethylene (PCE) 1. not found Toluene 1. not found 1.1,1-Trichloroethane (TCA) 1. not found 1.1,2-Trichloroethane 1. not found Trichloroethane (TCE) 1. not found Trichloroethane (TCE) 1. not found Trichlorotrifluoroethane (f113) 5. not found Trichlorofluoromethane(F-11) 5. not found Trichloride 1. no	Ethylbenzene	1.	not found
Ethylene Dibromide 1. not found Methyl Bromide 1. not found Methyl Chloride 1. not found Methylene Chloride 10. not found 1.1,2,2-Tetrachloroethane 5. not found Tetrachloroethylene (PCE) 1. not found Toluene 1. not found 1.1,1-Trichloroethane (TCA) 1. not found 1.1,2-Trichloroethane 1. not found Trichloroethane (TCE) 1. not found Trichloroethane (TCE) 1. not found Trichloroethane (F113) 5. not found Trichlorofluoromethane (F113) 5. not found Trichlorofluoromethane (F113) 2. not found Xylenes 2. not found	Ethyl Chloride	1.	
Methyl Chloride1.not foundMethylene Chloride10.not found1,1,2,2-Tetrachloroethane5.not foundTetrachloroethylene (PCE)1.not foundToluene1.not found1,1,1-Trichloroethane (TCA)1.not found1,1,2-Trichloroethane1.not foundTrichloroethene (TCE)1.not foundTrichlorotrifluoroethane (f113)5.not foundTrichlorofluoromethane(F-11)5.not foundVinyl Chloride1.not foundXylenes2.not found	Ethylene Dibromide	1,	
Methylene Chloride 10. not found 1.1,2,2-Tetrachloroethane 5. not found Tetrachloroethylene (PCE) 1. not found Toluene 1. not found 1.1,1-Trichloroethane (TCA) 1. not found 1.1,2-Trichloroethane 1. not found Trichloroethane (TCE) 1. not found Trichloroethane (TCE) 5. not found Trichlorofluoroethane (f113) 5. not found Trichlorofluoromethane(F-11) 5. not found Xylenes 2. not found	Methyl Bromide	1.	not found
Methylene Chloride 10. not found 1,1,2,2-Tetrachloroethane 5. not found Tetrachloroethylene (PCE) 1. not found Toluene 1. not found 1,1,1-Trichloroethane (TCA) 1. not found 1,1,2-Trichloroethane 1. not found Trichloroethane (TCE) 1. not found Trichloroethane (TCE) 5. not found Trichloroethane (f113) 5. not found Trichlorofluoromethane (f113) 5. not found Trichlorofluoromethane (F-11) 5. not found Xylenes 2. not found	Methyl Chloride	1.	not found
Tetrachloroethylene (PCE) 1. not found Toluene 1. not found 1.1.1-Trichloroethane (TCA) 1. not found 1.1.2-Trichloroethane 1. not found Trichloroethane (TCE) 1. not found Trichlorotrifluoroethane (f113) 5. not found Trichlorofluoromethane (f113) 5. not found Trichlorofluoromethane(F-11) 5. not found Xylenes 2. not found	Methylene Chloride	1Ø.	
Toluene 1. not found 1.1.1-Trichloroethane (TCA) 1. not found 1.1.2-Trichloroethane 1. not found Trichloroethane (TCE) 1. not found Trichlorotrifluoroethane (f113) 5. not found Trichlorofluoromethane (F-11) 5. not found Vinyl Chloride 1. not found Xylenes 2. not found	1,1,2,2-Tetrachloroethane	5 .	not found
1,1,1-Trichloroethane (TCA) 1, 1,2-Trichloroethane 1, 1, 2-Trichloroethane 1, 1, 2-Trichloroethane 1, 1, 1,2-Trichloroethane 1, 1, 1,2-Trichloroetha	Tetrachloroethylene (PCE)	1.	not found
1,1,2-Trichloroethane1.not foundTrichloroethene (TCE)1.not foundTrichlorotrifluoroethane (f113)5.not foundTrichlorofluoromethane(F-11)5.not foundVinyl Chloride1.not foundXylenes2.not found	Toluene	1,	not found
1,1,2-Trichloroethane1.not foundTrichloroethene (TCE)1.not foundTrichlorotrifluoroethane (f113)5.not foundTrichlorofluoromethane(F-11)5.not foundVinyl Chloride1.not foundXylenes2.not found	1,1,1-Trichloroethane (TCA)	1.	not found
Trichlorotrifluoroethane (f113) 5. not found Trichlorofluoromethane(F-11) 5. not found Vinyl Chloride 1. not found Xylenes 2. not found	1,1,2-Trichloroethane	1.	
Trichlorofluoromethane(F-11) 5. not found Vinyl Chloride 1. not found Xylenes 2. not found	Trichloroethene (TCE)	1.	not found
Trichlorofluoromethane(F-11) 5. not found Vinyl Chloride 1. not found Xylenes 2. not found	Trichlorotrifluoroethane (f	113) 5.	not found
Vinyl Chloride1.not foundXylenes2.not found	Trichlorofluoromethane(F-11)	5.	
	Vinyl Chloride	1.	not found
	Xylenes	2.	
Hydrocarbons (Gasoline) Percent Recoveries of Sample-Specific Cuplity Accurance Spikes and 136/14		1000.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 130/110/84.

Ø5/Ø2/89/MSD#7 BØ4831v.wr1/41 MH/gb/gb/tl

Respectfully submitted, Mary Havlicek, Ph.D., President

Lab Number ; F-64966 Central Analytical Services, Inc. 141 Suburban Road, Suite C-4 Coast Collected : #4/19/89 Analytical San Luis Obispo, California 934#1 Received : #4/2#/89 (8\$5) 543-2553 Services Tested : #5/#3/89

Collected by: R. Baldwin

ATTN: Tom Howard Western Geologic Resources

EXTRACTED BY EPA METHOD 5#3# (purge-and-trap)

EPA METHOD 826# Sample Description:

2169 E. Francisco Blvd. Suite B

Project #1-#12.#2, Chevron Oakland,

San Rafael, CA 949Ø1

B-12-9.5, \$oil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2.	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	20.	not found
Chloroform	1Ø.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2 .	not found
1,2-Dichloropropane	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	20.	not found
1,1,2,2-Tetrachloroethane	10.	not found
Tetrachloroethylene (PCE)	2.	not found
Toluene	2 .	3.
1,1,1-Trichloroethane (TCA)	2.	not found
1,1,2-Trichloroethane	2 .	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f		not found
Trichlorofluoromethane(F-11	10.	not found
Vinyl Chloride	2.	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Diesel #2)	1000.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 103/84.

#5/#8/89/MSD#7 FØ49ØØv.wr1/44 MH/jl/jc/tl

Respectfully submitted, Manydowlend Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number: F-#49#1
Coast 141 Suburban Road, Suite C-4 Collected: #4/19/89
Analytical San Luis Obispo, California 934#1 Received: #4/28/89
Services (8#5) 543-2553 Tested: #4/25/89

Collected by: R. Baldwin EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

ATTN: Tom Howard EXTRACTED
Western Geologic Resources

2169 E. Francisco Blvd.

Suite B

San Rafael, CA 949Ø1

EPA METHOD 8260

Sample Description:

Project #1-#12.#2, B-12-14.5,

Chevron Oakland, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	5.	not found
Bromodichloromethane	5.	not found
Bromoform	1Ø.	not found
Carbon Tetrachloride	5.	not found
Chlorobenzene	5.	not found
2-Chloroethyl Vinyl Ether	5ø.	not found
Chloroform	2 Ø.	not found
Dibromochloromethane	5.	not found
1,2-Dichlorobenzene	5.	not found
1,3-Dichlorobenzene	5.	not found
1,4-Dichlorobenzene	5.	not found
1,1-Dichloroethane	5.	not found
1,2-Dichloroethane (EDC)	5.	not found
1,1-Dichloroethene	5.	not found
c-1,2-Dichloroethene	5.	not found
t-1,2-Dichloroethene	5.	not found
1,2-Dichloropropane	5.	not found
c-1,3-Dichloropropene	5.	not found
t-1,3-Dichloropropene	5.	not found
Ethylbenzene	5.	not found
Ethyl Chloride	5.	not found
Ethylene Dibromide	5.	not found
Methyl Bromide	5.	not found
Methyl Chloride	5.	not found
Methylene Chloride	5Ø.	not found
1,1,2,2-Tetrachloroethane	2 Ø.	not found
Tetrachloroethylene (PCE)	5.	not found
Toluene	5 .	not found
1,1,1-Trichloroethane (TCA)	5.	not found
1,1,2-Trichloroethane	5.	not found
Trichloroethene (TCE)	5.	not found
Trichlorotrifluoroethane (1	f113) 2Ø.	not found
Trichlorofluoromethane(F-1	1) 2Ø.	not found
Vinyl Chloride	5.	not found
Xylenes	1Ø.	not found
Total Purgeable Petroleum Hydrocarbons (Gasoline)	2000.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 90/106/89.

#5/#1/89/MSD#7 F#49#1v.wr1/41 MH/bl/re/tl

Respectfully submitted,

Musical Respective
Central Analytical Services, Inc. Lab Number: F-\$49\$2
Coast 141 Suburban Road, Suite C-4 Collected: \$4/19/89
Analytical San Luis Obispo, California 934\$1 Received: \$4/2\$/89
Services (8\$5) 543-2553 Tested: \$5/\$3/89

Collected by: R. Baldwin ATTN: Tom Howard EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

Western Geologic Resources 2169 E. Francisco Blvd

EPA METHOD 826Ø Sample Description:

2169 E. Francisco Blvd. Suite B

Project #1-#12.#2, Chevron Oakland,

San Rafael, CA 94901

B-12-21.#, Soil

Benzene	2. 2.	not found
	2.	
Bromodichloromethane		not found
Bromoform	4.	not found
Carbon Tetrachloride	2.	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	20.	not found
Chloroform	1Ø.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropane	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	20.	not found
1,1,2,2-Tetrachloroethane	1ø.	not found
Tetrachloroethylene (PCE)	2.	not found
Toluene	2.	3.
1,1,1-Trichloroethone (TCA)	2.	not found
1,1,2-Trichloroethane	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f113) 1ø.	not found
Trichlorofluoromethane(F-11)	10.	not found
Vinyl Chloride	2.	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Diesel #2) Percent Recoveries of Sample S	1000.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 102/80.

65/68/89/MSD#7F64962v.wr1/44
MH/j1/jc/t1

Respectfully submitted,

Mac Maclesia

Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number : F-\$49\$3
Coast 141 Suburban Road, Suite C-4 Collected : \$4/19/89
Analytical San Luis Obispo, California 934\$1 Received : \$4/2\$/89
Services (8\$5) 543-2553 Tested : \$5/\$3/89

Collected by: R. Boldwin

ATTN: Tom Howard
Western Geologic Resources

EPA METHOD 826# Sample Description:

EXTRACTED BY EPA METHOD 5#3# (purge-and-trap)

2169 E. Francisco Blvd. Suite B

Project #1-#12.#2, Chevron Dakland,

San Rafael, CA 949#1 B-12-24.25, Soil

Compound Anglyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2.	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	2 Ø.	not found
Chloroform	1Ø.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropane	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	2Ø.	not found
1,1,2,2-Tetrachloroethane	10.	not found
Tetrachloroethylene (PCE)	2.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	2.	not found
1,1,2-Trichloroethane	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f		not found
Trichlorofluoromethane(F-11) 10.	not found
Vinyl Chloride	2.	not found
Xylenes	4.	not found
Total Purgeable Petroleum Hydrocarbons (Diesel #2)	1000.	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 103/86.

#5/#8/89/MSD#7F##49#3v.wr1/44
MH/j1/jc/t1

Respectfully submitted,

**The State of the Control
Central Analytical Services, Inc. Lab Number : F-\$49\$4
Coast 141 Suburban Road, Suite C-4 Collected : \$4/19/89
Analytical San Luis Obispo, California 934\$1 Received : \$4/2\$/89
Services (8\$5) 543-2553 Tested : \$5/\$3/89

Collected by: R. Baldwin EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

ATTN: Tom Howard Western Geologic Resources

EPA METHOD 8260

2169 E. Francisco Blvd.

Sample Description:

Suite B

Project #1-612.62, Chevron Oakland,

San Rafael, CA 94901 B-12-27.5, Soil

Compound Analyzed	Detection Limit (ug/kg) (Practical Quantitation Limit)	Concentration (ug/kg)
Benzene	2.	not found
Bromodichloromethane	2.	not found
Bromoform	4.	not found
Carbon Tetrachloride	2.	not found
Chlorobenzene	2.	not found
2-Chloroethyl Vinyl Ether	2Ø.	not found
Chloroform	1Ø.	not found
Dibromochloromethane	2.	not found
1,2-Dichlorobenzene	2.	not found
1,3-Dichlorobenzene	2.	not found
1,4-Dichlorobenzene	2.	not found
1,1-Dichloroethane	2.	not found
1,2-Dichloroethane (EDC)	2.	not found
1,1-Dichloroethene	2.	not found
c-1,2-Dichloroethene	2.	not found
t-1,2-Dichloroethene	2.	not found
1,2-Dichloropropane	2.	not found
c-1,3-Dichloropropene	2.	not found
t-1,3-Dichloropropene	2.	not found
Ethylbenzene	2.	not found
Ethyl Chloride	2.	not found
Ethylene Dibromide	2.	not found
Methyl Bromide	2.	not found
Methyl Chloride	2.	not found
Methylene Chloride	2Ø.	not found
1,1,2,2-Tetrachloroethane	1Ø.	not found
Tetrachloroethylene (PCE)	2.	not found
Toluene	2.	not found
1,1,1-Trichloroethane (TCA)	2.	not found
1,1,2-Trichloroethane	2.	not found
Trichloroethene (TCE)	2.	not found
Trichlorotrifluoroethane (f	113) 1Ø.	not found
Trichlorofluoromethane(F-11) 1ø.	not found
Vinyl Chloride	2.	not found
Xylenes	4,	not found
Total Purgeable Petroleum Hydrocarbons (Diesel #2)	1999.	not found
Percent Recoveries of Sample	e-Specific Auglity Accurages Sa	41.00 444/-

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 111/77.

#5/#8/89/MSD#7 F#49#4v.wr1/44 MH/j1/jc/t1

Respectfully submitted,

Mary Haviicek, Ph.D., President

Central Analytical Services, Inc. Lab Number : B-\$4219 Coast 141 Suburban Road, Suite C-4 Collected :

Analytical San Luis Obispo, California 93401 Received Services (805) 543-2553 Tested

ervices (8#5) 543-2553 Tested : #4/21/89

Collected by:
CCAS EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

EPA METHOD 826Ø Sample Description:

INSTRUMENT BLANK

Compound Analyzed	Detection Limit (ug/L) (Practical Quantitation Limit)	Concentration (ug/L)
Benzene	Ø.1	not found
Bromodichloromethane	Ø.2	not found
Bromoform	Ø.2	not found
Carbon Tetrachloride	Ø.1	not found
Chlorobenzene	Ø.1	not found
2-Chloroethyl Vinyl Ether	1.	not found
Chloroform	Ø.5	not found
Dibromochloromethane	Ø.1	not found
1,2-Dichlorobenzene	Ø.1	not found
1,3-Dichlorobenzene	Ø.1	not found
1,4-Dichlorobenzene	Ø.1	not found
1,1-Dichloroethane	Ø.1	not found
1,2-Dichloroethane (EDC)	Ø.1	not found
1,1-Dichloroethene	Ø.1	not found
c-1,2-Dichloroethene	Ø.1	not found
t-1,2-Dichloroethene	Ø.1	not found
1,2-Dichloropropane	Ø.1	not found
c-1,3-Dichloropropene	Ø. 1	not found .
t-1,3-Dichloropropene	Ø. 1	not found
Ethylbenzene	Ø. 1	not found
Ethyl Chloride	Ø.1	not found
Ethylene Dibromide	Ø. 1	not found
Methyl Bromide	Ø.1	not found
Methyl Chloride	Ø.1	not found
Methylene Chloride	1.	not found
1,1,2,2-Tetrachloroethane	Ø.5	not found
Tetrochloroethylene (PCE)	Ø. 1	not found
Toluene	Ø.2	not found
1,1,1-Trichloroethane (TCA)		not found
1,1,2-Trichloroethane	Ø. 1	not found
Trichloroethene (TCE)	Ø.1	not found
Trichlorotrifluoroethane (•	not found
Trichlorofluoromethane(F-1	· ·	not found
Vinyl Chloride	Ø. 1	not found
Xylenes	Ø.2	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 100/110/85.

#4/28/89/MSD#7 B#4219v.wr1/4# MH/ec/gb/t1

Respectfully submitted

Mary Havlicek, Ph.D., President

Central Coast

Services

CCAS

Analytical Services, Inc. Lab Number : 141 Suburban Road, Suite C-4 Collected : Analytical San Luis Obispo, California 93491 (8Ø5) 543-2553

Lab Number : QS-\$4219

Received

Tested : 64/21/89

Collected by:

EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

EPA METHOD 524.2/826# Sample Description: BOILED WATER SPIKE

Spiked with 2 ug/L VOA Stock

Compound Analyzed	Detection Limit (ug/L)(PQL)*	Concentration w/spike (ug/L)	Percent Recovery
Benzene	Ø.1	1.8	88.
Bromodichloromethane	Ø. 1	2.2	111.
Bromoform	Ø.2	1.8	9ø.
Carbon Tetrachloride	Ø.1	1.7	86.
Chlorobenzene	Ø. 1	2.1	104.
2-Chloroethyl Vinyl Ether	1.	not spiked	====
Chloroform	Ø.5	1.9	96.
Dibromochloromethone	Ø.1	2.4	120.
1,2-Dichlorobenzene	Ø.1	2.1	1Ø5.
1,3-Dichlorobenzene	Ø. 1	2.0	102.
1,4-Dichlorobenzene	Ø.1	2.1	1Ø7.
1,1-Dichloroethane	Ø.1	1.7	84.
1,2-Dichloroethane (EDC)	Ø.1	1.9	97.
1,1-Dichloroethene	Ø.1	1.5	73.
c-1,2-Dichloroethene	Ø.1	1.8	9Ø.
t-1,2-Dichloroethene	Ø.1	1.7	83.
1,2-Dichloropropane	Ø.1	1.9	96.
c-1,3-Dichloropropene	Ø.1	2.1	104.
t-1,3-Dichloropropene	Ø.1	2.Ø	1Ø1.
Ethylbenzene	Ø.1	2.0	1Ø1.
Ethyl Chloride	Ø.1	1.3	68.
Ethylene Dibromide	Ø.1	2.Ø	1Ø1.
Methyl Bromide	Ø.1	1.3	67.
Methyl Chloride	Ø.1	not spiked	
Methylene Chloride	1.	2.1	106.
1,1,2,2-Tetrachloroethane	Ø.5	2.2	108.
Tetrachloroethylene (PCE)		2.1	1Ø7.
Toluene	Ø. 1	2.3	114.
1,1,1-Trichloroethane (TCA	•	1.8	91.
1,1,2-Trichloroethane	Ø.1	2.1	104.
Trichloroethene (TCE)	Ø. 1	1.9	94.
Trichlorotrifluoroethane	Ø.5	1.6	8Ø.
Trichlorofluoromethane	Ø.5	1.5	73.
Vinyl Chloride	Ø.1	1.1	51.
Xylenes	Ø.2	6.1	1Ø2.

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 95/100/96.

Ø4/28/89/MSD#7 QSØ4219v.wr1/4Ø MH/ec/t1/t1

Respectfully submitted man Harles

Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number : B-\$4229
Coast 141 Suburban Road, Suite C-4 Collected :
Analytical San Luis Obispo, California 934\$1 Received :

Services (8Ø5) 543-2553

Tested : #4/22/89

Collected by:

EXTRACTED BY EPA METHOD 5636 (purge-and-trap)

EPA METHOD 826# Sample Description: INSTRUMENT BLANK

Compound Analyzed	Detection Limit (ug/L) (Practical Quantitation Limit)	Concentration (ug/L)
Benzene	Ø.1	not found
Bromodichloromethane	Ø.1	not found
Bromoform	Ø.2	not found
Carbon Tetrachloride	Ø. 1	not found
Chlorobenzene	Ø.1	not found
2-Chloroethyl Vinyl Ether	1.	not found
Chloroform	Ø.5	not found
Dibromochloromethane	Ø _. 1	not found
1,2-Dichlorobenzene	Ø _. 1	not found
1,3-Dichlorobenzene	Ø. 1	not found
1,4-Dichlorobenzene	Ø. 1	not found
1,1-Dichloroethane	Ø. 1	not found
1,2-Dichloroethane (EDC)	Ø. 1	not found
1,1-Dichloroethene	Ø. 1	not found
c-1,2-Dichloroethene	Ø. 1	not found
t-1,2-Dichloroethene	Ø. 1	not found
1,2-Dichloropropane	Ø. 1	not found
c-1,3-Dichloropropene	Ø. 1	not found
t-1,3-Dichloropropene Ethylbenzene	Ø. 1	not found
Ethyl Chloride	Ø. 1	not found
Ethylene Dibromide	Ø. 1	not found
Methyl Bromide	Ø. 1 Ø. 1	not found
Methyl Chloride	ν. ι Ø. 1	not found
Methylene Chloride		not found
1,1,2,2-Tetrachloroethane	1. Ø.5	not found
Tetrachloroethylene (PCE)	ø.э Ø.1	not found
Toluene	ø. i ø. 1	not found
1,1,1-Trichloroethane (TCA		not found
1,1,2-Trichloroethane	Ø.1	not found
Trichloroethene (TCE)	Ø.1	not found not found
Trichlorotrifluoroethane (not found
Trichlorofluoromethane(F-1		not found
Vinyl Chloride	9.5 Ø.1	not found
Xylenes	Ø.2	not found
, ==	v . c	not round

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 106/96/108.

Ø5/Ø2/89/MSD#7 BØ4229v.wr1/41 MH/jm/jc/tl

Respectfully submitted, Mary Daulece Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number : QS-#4239 141 Suburban Road, Suite C-4 Coast Collected Analytical San Luis Obispo, California 93491 Received

Services (BØ5) 543-2553 Tested : \$4/23/89

Collected by:

EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

EPA METHOD 524.2/826# Sample Description: **BOILED WATER SPIKE**

Spiked with 2 ug/L VOA Stock

Compound Analyzed	Detection Limit (ug/L)(PQL)*	Concentration w/spike (ug/L)	Percent Recovery
Benzene	Ø. 1	2.2	111.
Bromodichloromethane	Ø.1	2.Ø	102.
Bromoform	0.2	2.Ø	102.
Carbon Tetrachloride	Ø.1	2.2	112.
Chlorobenzene	Ø.1	1.8	91.
2-Chloroethyl Vinyl Ether	1,	not spiked	
Chloroform	Ø.5	2.0	102.
Dibromochloromethane	Ø.1	1.7	85 .
1,2-Dichlorobenzene	Ø.1	2.1	1Ø7.
1,3-Dichlorobenzene	Ø.1	2.3	113.
1,4-Dichlorobenzene	Ø.1	2.4	118.
1,1-Dichloroethane	Ø.1	2.Ø	102.
1,2-Dichloroethane (EDC)	Ø.1	1.9	97.
1,1-Dichloroethene	Ø.1	2.1	103.
c-1,2-Dichloroethene	Ø.1	2.Ø	1ØØ.
t-1,2-Dichloroethene	Ø.1	2.2	11ø.
1,2-Dichloropropane	¹Ø.1	2.Ø	1Ø2.
c-1,3-Dichloropropene	Ø.1	not spiked	
t-1,3-Dichloropropene	Ø.1	1.5	76.
Ethylbenzene	Ø.1	2.6	128.
Ethyl Chloride	Ø.1	1.9	97.
Ethylene Dibromide	Ø.1	1.9	95.
Methyl Bromide	Ø.1	2.2	1Ø9.
Methyl Chloride	Ø.1	2.6	130.
Methylene Chloride	1.	2.2	11Ø.
1,1,2,2-Tetrachloroethane	Ø.5	2.2	1Ø9.
Tetrachloroethylene (PCE)		2.2	112.
Toluene	Ø.1	2.7	133.
1,1,1-Trichloroethane (TCA	-	2.1	194.
1,1,2-Trichloroethane	Ø.1	1.8	91.
Trichloroethene (TCE)	Ø.1	2.1	1Ø5.
Trichlorotrifluoroethane	Ø.5	2.1	1Ø5.
Trichlorofluoromethane	Ø.5	2.1	106.
Vinyl Chloride	Ø.1	2.1	106.
Xylenes	Ø.2	7.4	123.

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 95/110/123.

64/28/89/MSD#7 QSØ4229v.wr1/41 MH/j1/t1/t1

CCAS

Respectfully submitted,

Mary Havricek, Ph.D., President

Central Analytical Services, Inc. Analytical Services, Inc. 141 Suburban Road, Suite C-4 Coast

Collected Received

Services

Analytical San Luis Obispo, California 934#1 (805) 543-2553

Tested : #4/26/89

Lab Number : 8-\$4269

Collected by:

EXTRACTED BY EPA METHOD 5838 (purge-and-trap)

EPA METHOD 826# Sample Description: INSTRUMENT BLANK

Compound Analyzed	Detection Limit (ug/L) (Practical Quantitation Limit)	Concentration (ug/L)
Benzene	Ø.1	not found
Bromodichloromethane	Ø. 1	not found
Bromoform	Ø.2	not found
Carbon Tetrachloride	Ø.1	not found
Chlorobenzene	Ø.1	not found
2-Chloroethyl Vinyl Ether	1.	not found
Chloroform Chloroform	Ø.5	not found
Dibromochloromethane	Ø. 1	not found
1,2-Dichlorobenzene	Ø. 1	not found
1,3-Dichlorobenzene	Ø.1 .	not found
1,4-Dichlorobenzene	ø. 1	not found
1,1-Dichloroethane	Ø.1	not found
1,2-Dichloroethane (EDC)	Ø. 1	not found
1,1-Dichloroethene	ø. 1	not found
c-1,2-Dichloroethene	Ø. 1	not found
t-1,2-Dichloroethene	Ø. 1	not found
1,2-Dichloropropane	Ø.1	not found
c-1,3-Dichloropropene	Ø.1	not found
t-1,3-Dichloropropene	Ø.1	not found
Ethylbenzene	Ø.1	not found
Ethyl Chloride	Ø.1	not found
Ethylene Dibromide	Ø. 1	not found
Methyl Bromide	Ø.1	not found
Methyl Chloride	Ø.1	not found
Methylene Chloride	1.	not found
1,1,2,2-Tetrachloroethane	Ø.5	not found
Tetrachloroethylene (PCE)	Ø. 1	not found
Toluene	Ø.1	not found
1,1,1-Trichloroethane (TCA)) ø.1	not found
1,1,2-Trichloroethane	Ø.1	not found
Trichloroethene (TCE)	Ø. 1	not found
Trichlorotrifluoroethane (not found
Trichlorofluoromethane(F-1	1) Ø.5	not found
Vinyl Chloride	Ø.1	not found
Xylenes	Ø.2	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 130/142/186.

95/95/89/MSD#7 BØ4269v.wr1/43 MH/jm/gb/tl

Respectfully submitted, May flaubeck Mory Hovlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number : QS-\$4269 Coast 141 Suburban Road, Suite C-4 Collected :

Analytical San Luis Obispo, California 93481 Received :

Services (805) 543-2553 Tested : \$4/26/89

Collected by:

EXTRACTED BY EPA METHOD 5#3# (purge-and-trap)

EPA METHOD 524.2/826Ø Sample Description: BOILED WATER SPIKE

Spiked with 2 ug/L VOA Stock

Compound Analyzed	Detection Limit (ug/L)(PQL)*	Concentration w/spike (ug/L)	Percent Recovery
Benzene	Ø. 1	2.5	124.
Bromodichloromethane	Ø. 1	2.7	133.
Bromoform	Ø.2	1.7	83.
Carbon Tetrachloride	Ø.1	2.7	134.
Chlorobenzene	Ø. 1	1.3	66.
2-Chloroethyl Vinyl Ether	1.	not spiked	
Chloroform	Ø.5	2.5	126.
Dibromochloromethane	Ø.1	2.1	103.
1,2-Dichlorobenzene	Ø.1	1.6	8ø.
1,3-Dichlorobenzene	Ø.1	1.2	6Ø.
1,4-Dichlorobenzene	Ø.1	1.7	86.
1,1-Dichloroethane	Ø.1	2.5	126.
1,2-Dichloroethane (EDC)	Ø.1	2.4	118.
1,1-Dichloroethene	Ø.1	1.7	86.
c-1,2-Dichloroethene	Ø.1	2.6	130.
t-1,2-Dichloroethene	Ø.1	2.4	121.
1,2-Dichloropropane	Ø.1	2.1	107.
c-1,3-Dichloropropene	Ø.1	not spiked	
t-1,3-Dichloropropene	Ø.1	not spiked	
Ethylbenzene	Ø.1	1.2	62.
Ethyl Chloride	Ø. 1	2.8	141.
Ethylene Dibromide	Ø.1	not spiked	
Methyl Bromide	Ø. 1	not spiked	
Methyl Chloride	Ø.1	not spiked	
Methylene Chloride	1.	3.Ø	141.
1,1,2,2-Tetrachloroethane	Ø.5	not spiked	
Tetrachloroethylene (PCE)	• • •	1.9	97.
Toluene	Ø.1	1.1	53.
1,1,1-Trichloroethane (TCA	() Ø.1	not spiked	
1,1,2-Trichloroethone	Ø. 1	1.4	71.
Trichloroethene (TCE)	Ø.1	2.5	125.
Trichlorotrifluoroethane	Ø.5	2.6	131.
Trichlorofluoromethane	Ø.5	2.4	119.
Vinyl Chloride	Ø. 1	2.3	117.
Xylenes	Ø.2	3.7	62.

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 100/78.

#5/#3/89/MSD#7 QS#4269v.wr1/43 MH/gb/t1/t1

CCAS

Respectfully submitted,

Many Mouleur

Mary Havlicek, Ph.D., President

Analytical Services, Inc. Central 141 Suburban Road, Suite C-4 Coast

Analytical San Luis Obispo, California 93491 Services

(805) 543-2553

Lab Number : B-\$4279

Collected : Received

> .: **∮**4/27/89 Tested

Collected by:

EXTRACTED BY EPA METHOD 5838 (purge-and-trap)

EPA METHOD 8260 Sample Description: INSTRUMENT BLANK

Compound Analyzed	Detection Limit (ug/L)	Concentration
•	(Practical Quantitation Limit)	(ug/L)
Benzene	Ø.1	not found
Bromodichloromethane	Ø.1	not found
Bromoform	Ø.2	not found
Carbon Tetrachloride	Ø.1	not found
Chlorobenzene	Ø.1	not found
2-Chloroethyl Vinyl Ether	1.	not found
Chloroform	Ø.5	not found
Dibromochloromethane	Ø. 1	not found
1,2-Dichlorobenzene	Ø.1	not found
1,3-Dichlorobenzene	Ø.1	not found
1,4-Dichlorobenzene	Ø.1	not found
1,1-Dichloroethane	Ø. 1	not found
1,2-Dichloroethane (EDC)	Ø.1	not found
1,1-Dichloroethene	Ø. 1	not found
c-1,2-Dichloroethene	Ø.1	not found
t-1,2-Dichloroethene	Ø.1	not found
1,2-Dichloropropane	Ø.1	not found
c-1,3-Dichloropropene	Ø.1	not found
t-1,3-Dichloropropene	Ø.1	not found
Ethylbenzene	Ø.1	not found
Ethyl Chloride	Ø.1	not found
Ethylene Dibromide	Ø.1	not found
Methyl Bromide	Ø.1	not found
Methyl Chloride	Ø.1	not found
Methylene Chloride	1.	not found
1,1,2,2-Tetrachloroethane	Ø.5	not found
Tetrachloroethylene (PCE)	Ø.1	not found
Toluene	Ø.1	not found
1,1,1-Trichloroethane (TC	۵) Ø.1	not found
1,1,2-Trichloroethane	Ø.1	not found
Trichloroethene (TCE)	Ø. 1	not found
Trichlorotrifluoroethane	(f113) Ø.5	not found
Trichlorofluoromethane(F-		not found
Vinyl Chloride	Ø.1	not found
Xylenes	Ø.2	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 110/72.

Ø5/Ø2/89/MSD#7 884279v.wr1/41 MH/jg/gb/tl

Central Analytical Services, Inc. Lab Number : F-#49##spike 141 Suburban Road, Suite C-4 Coost Collected : #4/19/89 Analytical San Luis Obispo, California 93401 Received : #4/2#/89 (805) 543-2553 Tested : #5/#3/89

Collected by: R. Baldwin

ATTN: Tom Howard EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

EPA METHOD 524.2/826#

Western Geologic Resources

2169 E. Francisco Blvd.

Sample Description:

Suite B

Project #1-512.52, B-12-9.5, Chevron Oakland, Soil

San Rofoel, CA 94981

Spiked with 41 ug/kg VOA Stock

Compound Analyzed	Detection Limit (ug/kg)(PQL)*	Concentration w/spike (ug/kg)	Percent Recovery
Benzene	Ø.1	46.	110.
Bromodichloromethane	Ø.1	36.	88.
Bromoform	Ø.2	34.	82.
Carbon Tetrachloride	Ø.1	51.	125.
Chlorobenzene	Ø.1	36.	89.
2-Chloroethyl Vinyl Ether	1.	not spiked	
Chloroform	Ø.5	4Ø.	99.
Dibromochloromethane	Ø.1	31.	77.
1,2-Dichlorobenzene	Ø.1	31.	75 .
1,3-Dichlorobenzene	Ø.1	34.	82.
1,4-Dichlorobenzene	Ø.1	29.	71.
1,1-Dichloroethane	Ø.1	4Ø.	98 .
1,2-Dichloroethane (EDC)	Ø.1	32 .	77 .
1,1-Dichloroethene	Ø.1	49.	119.
c-1,2-Dichloroethene	Ø.1	39.	96.
t-1,2-Dichloroethene	Ø.1	42.	1Ø3.
1,2-Dichloropropane	Ø.1	36.	89.
c-1,3-Dichloropropene	Ø.1	22.	53.
t-1,3-Dichloropropene	Ø.1	29.	7Ø.
Ethylbenzene	Ø.1	48.	118.
Ethyl Chloride	Ø.1	45.	11Ø.
Ethylene Dibromide	Ø.1	32.	78 .
Methyl Bromide	Ø.1	31.	7 7.
Methyl Chloride	Ø.1	not spiked	
Methylene Chloride	1.	5Ø.	121.
1,1,2,2-Tetrachloroethane	Ø.5	32.	78.
Tetrachloroethylene (PCE)		46.	111.
Toluene	Ø.1	5Ø.	122.
1,1,1-Trichloroethane (TCA		51.	125.
1,1,2-Trichloroethane	Ø.1	34.	84.
Trichloroethene (TCE)	Ø.1	39 .	96.
Trichlorotrifluoroethane	Ø.5	not spiked	
Trichlorofluoromethane	Ø.5	53.	13Ø.
Vinyl Chloride	Ø.1	not spiked	
Xylenes	Ø.2	14Ø.	116.

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 91/113/100.

#5/#8/89/MSD#7 F64966vs.wr1/44 MH/ec/t1/t1

name Kaulicel Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number : B-05039
Coast 141 Suburban Road, Suite C-4 Collected :

Analytical San Luis Obispo, California 93401 Received

Services (805) 543-2553 Tested : #5/#3/89

Collected by:

EXTRACTED BY EPA METHOD 5030 (purge-ond-trop)

CCAS EPA METHOD 8260 Sample Description:

INSTRUMENT BLANK

Compound Analyzed Detection Limit (ug/L) Concentration (Practical Quantitation Limit) (ug/L) Benzene Ø. 1 not found Bromodichloromethane Ø.1 not found Bromoform 0.2 not found Corbon Tetrachloride Ø.1 not found Chlorobenzene Ø. 1 not found 2-Chloroethyl Vinyl Ether 1. not found Chloroform Ø.5 not found Dibromochloromethane 0.1 not found 1,2-Dichlorobenzene Ø. 1 not found 1,3-Dichlorobenzene 0.1 not found 1,4-Dichlorobenzene Ø.1 not found 1,1-Dichloroethone Ø.1 not found 1,2-Dichloroethane (EDC) Ø. 1 not found 1.1-Dichloroethene Ø.1 not found c-1,2-Dichloroethene Ø.1 not found t-1,2-Dichloroethene Ø.1 not found 1,2-Dichloropropane Ø. 1 not found C-1,3-Dichloropropene 0.1 not found t-1.3-Dichloropropene 0.1 not found Ethylbenzene Ø.1 not found Ethyl Chloride Ø.1 not found Ethylene Dibromide Ø.1 not found Methyl Bromide Ø.1 not found Methyl Chloride Ø. 1 not found Methylene Chloride 1. not found 1,1,2,2-Tetrachloroethane Ø.5 not found Tetrochloroethylene (PCE) 0.1 not found Toluene Ø. 1 not found 1,1,1-Trichloroethane (TCA) 9.1 not found 1,1,2-Trichloroethane Ø.1 not found Trichloroethene (TCE) Ø.1 not found Trichlorotrifluoroethone (f113) Ø.5 not found Trichlorofluoromethane(F-11) 0.5 not found Vinyl Chloride Ø. 1 not found **Xylenes** 0.2 not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 108/84/83.

#5/#8/89/MSD#7 B#5#39v.wr1/43 MH/jl/jc/tl

Respectfully submitted,

Mary Havlicek, Ph.D., President

Central Analytical Services, Inc. Lab Number : B-05039-2 Coast 141 Suburban Road, Suite C-4 Collected : Analytical San Luis Obispo, California 93401 Received :

Services (805) 543-2553 Tested

: Ø5/Ø3/89 Collected by:

EXTRACTED BY EPA METHOD 5030 (purge-and-trop)

EPA METHOD 8260 Sample Description: INSTRUMENT BLANK

Compound Analyzed	Detection Limit (ug/L) (Practical Quantitation Limit)	Concentration
	de de la constant de	(ug/L)
Benzene	Ø. 1	not found
Bromodichloromethane	Ø. 1	not found
Bromoform	Ø. 2	not found
Carbon Tetrochloride	Ø. 1	not found
Chlorobenzene	Ø. 1	not found
.2-Chloroethyl Vinyl Ether	1.	not found
Chloroform	Ø.5	not found
Dibromochloromethane	Ø. 1	not found
1,2-Dichlorobenzene	Ø. 1	not found
1,3-Dichlorobenzene	Ø. 1	not found
1,4-Dichlorobenzene	Ø.1	not found
1,1-Dichloroethane	Ø.1	not found
1,2-Dichloroethane (EDC)	Ø. 1	not found
1,1-Dichloroethene	Ø. 1	not found
c-1,2-Dichloroethene	Ø. 1	not found
t-1,2-Dichloroethene	Ø. 1	not found
1,2-Dichloropropane	Ø.1	not found
c-1,3-Dichloropropene	ø.1	not found
t-1,3-Dichloropropene	Ø. 1	not found
Ethylbenzene	Ø. 1	not found
Ethyl Chloride	Ø. 1	not found
Ethylene Dibromide	Ø.1	not found
Methyl Bromide	Ø. 1	not found
Methyl Chloride	Ø. 1	not found
Methylene Chloride	1.	not found
1,1,2,2-Tetrachloroethane	Ø.5	not found
Tetrachloroethylene (PCE)	Ø.1	not found
Toluene	Ø. 1	not found
1,1,1-Trichloroethane (TCA)	Ø.1	not found
1,1,2-Trichloroethone	Ø. 1	not found
Trichloroethene (TCE)	Ø.1	not found
Trichlorotrifluoroethane (f	113) Ø.5	not found
Trichlorofluoromethane(F-11) Ø.5	not found
Vinyl Chloride	Ø. 1	not found
Xylenes	Ø.2	not found

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 99/96/95.

\$5/\$8/89/MSD#7 BØ5Ø39v2.wr1/43 MH/gb/jc/tl

Respectfully submitted, Man Genley Mary Havlicek, Ph.D., President

Central	. Analytical Services, Inc.	Lab Number :	QS-05039
Coast	141 Suburban Road, Suite C-4	Collected :	
Analytical	Son Luis Obispo, California 93401	Received :	
Services	(805) 543-2553	Tested :	65/63/89
	•	Collected by:	•

EXTRACTED BY EPA METHOD 5030 (purge-and-trap)

CCAS

EPA METHOD 524.2/826Ø Sample Description: BOILED WATER SPIKE

Spiked with 2 ug/L VOA Stock

Compound Analyzed	Detection Limit (ug/L)(PQL)*	Concentration w/spike (ug/L)	Percent Recovery
Benzene	Ø. 1	2.2	108.
Bromodichloromethane	Ø.1	2.3	115.
Bromoform	Ø.2	2.4	118.
Carbon Tetrochloride	Ø.7	1.8	92.
Chlorobenzene	Ø.1	2.1	107.
2-Chloroethyl Vinyl Ether	1.	not spiked	
Chloroform	Ø.5	2.1	1Ø5.
D1bromochloromethane	Ø.1	2.1	105.
1,2-Dichlorobenzene	Ø.1	2.4	121.
1,3-Dichlorobenzene	Ø.1	2.5	126.
1,4-Dichlorobenzene	Ø.1	2.5	123.
1,1-Dichloroethane	Ø.1	2.Ø	99.
1,2-Dichloroethane (EDC)	Ø.1	2.1	1Ø5.
1,1-Dichloroethene	Ø.1	2.Ø	99.
c-1,2-Dichloroethene	Ø.1	2.Ø	102.
t-1,2-Dichloroethene	Ø.1	1.9	97.
1,2-Dichloropropane	Ø.1	2.1	1Ø3.
c-1,3-Dichloropropene	Ø.1	2.2	111.
t-1,3-Dichloropropene	Ø.1	2.1	104.
Ethylbenzene	Ø.1	2.2	1Ø9.
Ethyl Chloride	Ø.1	1.7	86.
Ethylene Dibromide	Ø.1	2.3	114.
Methyl Bromide	Ø.1	1.5	73.
Methyl Chloride	Ø.1	1.3	64.
Methylene Chloride	1.	2.3	116.
1,1,2,2-Tetrachloroethane	Ø.5	2.7	133.
Tetrachloroethylene (PCE)		2.2	1Ø8.
Toluene	Ø.1	2.4	121.
1.1.1-Trichloroethane (TCA		1.9	97.
1,1,2-Trichloroethone	Ø.1	2.2	112.
Trichloroethene (TCE)	Ø. 1	2.Ø	101.
Trichlorotrifluoroethane	Ø.5	not spiked	
Trichlorofluoromethane	Ø.5	1.1	57.
Vinyl Chloride	Ø.1	1.3	67.
Xylenes	Ø.2	6.7	112.

Percent Recoveries of Sample-Specific Quality Assurance Spikes are: 90/96/109.

#5/#3/89/MSD#7 QS#5#39v.wr1/44 MH/ec/tl/tl

Respectfully submitted,

Mary Havlicek, Ph.D., President

WESTERN GEOLOGIC RESOURCES, INC.

ATTACHMENT D

CHAIN-OF-CUSTODY FORMS

Air, Water, & Hazardous Waste Sampling, Analysis, & Consultation State Centified Hazardous Waste, Chemistry, & Bacteriology Laboratories

141 Suburban Road, Suite C-4 San Luis Obispo, Ca 93401 Fax (805) 543-2585 (805) 543-2583 6483-D Calle Real Goleta, CA 93117 Fax (805) 976-4386 (805) 984-7838

	CONTAC	T NAME			
RESOUR	CES 1 to a	1 KWGH -	PHONE		<u></u>
SUIT B. S	an Rafael	ENALYSIS	HIS. 45	7 - 75 9	>
ا عدد ا	St Harrison	<u> </u>	I I .	/ / /	7 ,
,]	//	//
DATE/TIME COLLECTED	# of PRESER	RVE / /S	/ / /	1//	//
4-189	1	A*			
		1 Hok	0	<u> </u>	
		A			
4-1-60	1	A			
	1	Ha	<0		
	/	A			
		A			
	1/1	Ha	CD		
1 1	1 ' '		<u> </u>		İ
144-87		1 1 1		<u> </u>	
		. 1 1		1 1	1
	A TOAL	c 1. 100	٠ ′ر		
t (0N/CE/	CKMITON	· 7			
eld Wal	ed, inta	ct & cou	ld-sk		
1	DATE/TIME				
				11	
4-1	8-00/1/00	Whelle	i Hou	10/	
					 -
			-		
	DATE/TIME COLLECTED LAND 179 LAND	RESOURCES to a Soit B. San Rafael AND 7 # Horason DATE/TIME # OF PRESER COLLECTED ITEMS 4 H-89 CONCENTRATION AND DATE/TIME 1 DATE/TIME 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DATE/TIME WOR PRESERVE OF COLLECTED ITEMS PRESERVE OF AMALYSIS LAND 17 54 HOCKISON LAND 17 55 HOCKISON LAND 17	RESOURCES TO HOWARD SOIT B San Rapal Caryan PRISE LAND 17 1 HORD DATE/TIME # OF PRESERVE OF PRESERV	RESOURCES TO HOWARD SOITE B. San Ratel Carroll [15.457 - 759] AND 17 54 HOMSON DATE/TIME # OF PRESERVE OF THOMSON 1 HARD

Air, Water, & Hazardous Waste Sampling, Analysis, & Consultation State Centified Hazardous Waste, Chemistry, & Bacteriology Laboratories

141 Suburban Road, Suite C-4 San Luis Obispo, Ca 93401 Fax (805) 543-2555 (805) 543-2553 6483-D Calle Real Goleta, CA 93117 Fax (805) 978-4388 (805) 984-7838

	SAM	PLE CHA	114 01					<u>- ,</u>				$\overline{}$
KIEMITTE				CONTACT N	:MF	<u> </u>						\dashv
Y:::: 9:::2: 	STERN GEOLOGIC	RESOUR	CES	to~	Ho	NAR	<u>U</u>					
223500	3(2170 6000000		0	P (- a.	1901 2	HONE	y 57	·	75-6	15	
2169	E Francisco BIVO. S	OUF B. S	an Ka	Anne 1 C	SHAFE.	YSIS F	EDUES	STED				
.¥07562 7 √7 17	PROJECT NAME CHEU: DAKE	AND 175	+ H>/	rison				/ /		/		
14821 FR	(Frint & Sign Name)	-					/ /					
2225	SAMPLE IDENTIFICATION (ID #, location, motrix)	DATE/TIME COLLECTED	# of ITEMS	PRESERVE	/	8260 + TripH		/	/_	/	<u>/</u>	<u>/</u> _
4195		JH-89	/		<u> </u>	H041			<u> </u>			_
4196	B-6- 9.5		(A		<u> </u>			.	
4191	B-6-14.5		/	1		A	_	<u> </u>				
4198	13-6-19.7	-	/			Hoci	<u> </u>	 		1		
4199			/			A				1		
4800	8-7-4.2		/			A			<u> </u>	<u> </u>	<u> </u>	_
4801	B-7-9.2		1			A			<u> </u>	1	<u> </u>	
4808	3-7-14.0		/		<u> </u>	4				<u> </u>	<u> </u>	<u> </u>
4803	1				<u> </u>	Hote	<u> </u>		<u> </u>	<u> </u>	1	<u> </u>
4804	1	14489	1/		_	4			\	<u> </u>		<u> </u>
REMARKS												
<u> </u>			·				<u></u>	<u></u>	-	<u> </u>		
·							0	V	•			
	Ramples sec's	d Deale	d, cn	tact	đ.	colc	V-S	<u>v </u>				
	,	•				ED BY:			<u></u>			
SAMPLE	RELINCUISHED EY:		DATE/TI									
120	hard 1 Balely	1 '	ب د مستسسب	74-		180UM			1			
0	renteund.	4-18	·89_T	00 1	the	llu	1/2	try			,	

Air, Water, & Habardous Waste Sampling, Analysis, & Consultation State Cenified Habardous Waste, Chemistry, & Bapteriology Laboratories

141 Suburban Road, Suite C-4 San Luis Obispo, Ca 93401 Fax (805) 543-2585 (805) 543-2853 5483-D Calle Real Goleta, CA 93117 Fax (805) 976-4366 (805) 954-7838

SUEMITTE	D EY:														
		N'GEOCOGIC	REST	عددا	(E2	CONTACT	eman C++1	κω	RD						į
		ncisco Blvd.							1227	<u>;:Ε</u> (5): \	157		75-6	15	
2169 PROJECT	<u> </u>	COCISCO BIVOS.	2015 F	<u> </u>	an Ra	yae!	LANA	YSIS	REC	UE S 7	ED				
1-712	<i>"</i>	CHEUIDAK	۵ دید ۱	175	+ H> 1	risum				1	/	1	ſ	1	
LIMPLER RULL	(Print l	sign Name) lelu (n. Picha	al Air	elic											
CCAS LAB #	SAMPLE (ID #,	IDENTIFICATION location, matrix)	DATE/	TIME	# of ITEMS	PRESERV		8240+77.		/		/	/_	/	<u>/</u>
	B-8		4-12	89	1			A*							
1806	お- を	- 9.6	1					A [#]					1	.	
4801		- 14-5			1	<u> </u>		Α				1.			
4808	છે - ડે	- 19.7			1	_		Ha	<u> </u>						
1009	8-8	- 22-5			1			A							
4810	B-8	- 24.7			1			H04	D						
4811	B-8	- 29.5						A				<u> </u>		-1	
4818	B-8	- 3/.>			/	!		Hz	<u> < 0</u>			<u> </u>	<u> </u>	<u> </u>	<u>:</u>
A813	B=3	- 37.5	444	89	1	<u> </u>		A		<u> </u>		<u> </u>			<u> </u>
			1											<u> </u>	
REMARKS	:														
*	May	CONTAIN	A+GH	CON	رد ی	TRATI	5 لدين	1	VO	<u>C5</u>			<u></u>		
	-			- :				ĺ		•		•			
Na	mple	's rec'd s	saled	in	tact	d le	eld	-5	L		<u>-</u>				
	<u> </u>		_ .	1 .	ATE/TIM	aE . 15	ECEIV	בא פי	<u>,</u>						
		SHED EY:		144			SKE T)					
mer	· '1	3 older		4-18	90	. 33	11/2	61		il	f	7			
91	reyn	ound.		4-10	المستمت	00	une	w	£(<i>11 a</i>	W/	2_			
				<u> </u>											
l .				1					•	4					

Air, Water, & Hazardous Waste Sampling, Analysis, & Consultation State Certified Hazardous Waste, Chemistry, & Basteriology Laboratories

141 Suburban Road, Suite C-4
San Luis Obispo, Ca 93401
Fax (805) 543-2555
(805) 543-2553

5483-D Calle Real Goleta, CA 93117 Fax (605) 975-4385 (805) 954-7838

										—¬
TIEM TTE	D 8Y:									
	STERN GEOLOGIC	RESOU	RCE'S_	CONTACT	EMAN KWGH	RD				
ADDRESS	E Francisco Blvd. S	5014 B	San Ro	Jarel (a 44901	415.	457-	75	95	
<u>-2167</u>	# IPROJECT NAME	, , , , , , , , , , , , , , , , , , , 		1	ANALYSI	S RECUES	750			
1-012	# PROJECT NAME O 2 CHEU: DAKE	LND 17	# Hor	V1500	/	= 125	/ /		' /	,
SAMPLER Port	(Print & Sign Name) and Baldwin Ruch	and Bul	lio		_		w/ ,	/ /		
CCAS	SAMPLE IDENTIFICATION (ID #, location, matrix)	DATE/TIME	# of	PRESERVE	6260	11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<u> </u>	$\frac{1}{2}$		/_
4814	B-9-9.0	4-14-89	1		A					
4815	8-9-140		1		A					
4816	13-9-21-0	1	,		A	A A		<u> </u>		
4817	B-9-24.5	-	1		<u> </u>	<u> </u>	1 1			<u> </u>
4818	B-9-29.5		1		A		1 1	_		
4819	B-9-33.5	4-4-89	/		A				<u> </u>	<u> </u>
4820	8-10-4.5	Y243-59	1		1 1	7 4				<u> </u>
4821	8-10-9-5	1_	1		A		1 1		<u> </u>	<u> </u>
4822	B-10-14.5		1 /	<u> </u>	1 A				<u> </u>	
4823	3-10-215	4-43-5	7 /		A^{\prime}	4	.			
REMARKS	:		 				*			
*	MAY CONTAIN HI	GH Coi	CE NTA	24 TOA	sof VO	C'S				
		•			,			<u> </u>		
k	lamples rectd	sealed	(, int	act t	cold	2-8			<u>·</u>	
			·				<u>.</u>			
SAMPLE	RELINOUISHED BY:	1	DATE/TI		CEIVED E			<u> </u>		
Ruch	on 1 Baldus	سرا			(UK-E7 14=		<u> </u>			
9.5	whound.	4.	18-89	00	Thelle	e He	y I			
. /	V									
						• :			·	

Air, Water, & Hazardous Waste Sampling, Analysis, & Consultation State Centified Hazardous Waste, Chemistry, & Bacteriology Laboratories

141 Suburban Road, Suite C-4 San Luis Obispo, Ca 93401 Fax (805) 543-2585 (805) 543-2553 6483-D Calle Real Goleta, CA 93117 Fax (805) 976-4386 (805) 964-7638

	SAIY	IPLE CHA	114 01							
SUBMITTE				CONTACT N	· ME					
Y / (1)	STERN GEOLOGIC	RESOUR	(€2 <u> </u>	to~	Howk	RD				
±DRESS	E Francisco Blvd. S	- 1 0 6	D	Page C	94901	PHONE 415.	457-	- 75	95	
2169 =ROJECT	# PROJECT NAME	SOIF D, 3	an Na	70121	LN±LYSIS	RECUE	STED			
1-212	DZ CHEUIDAKI	4NO 174	+ H>/V	-1500	/	\neq	/ /		/ /	
SAMPLER	(Print & Sign Name) puch	ein of Bu	lelen-		BALO	\$/ /	' /	/ /		1
: CCAS :	SAMPLE IDENTIFICATION	DATENTIME	[<i>.</i> # 51	PRESERVE	/3]	///	' /		
L:3 #	(ID #, location, matrix)	COLLECTED	ITEMS		\ <u>&</u>	/ /	/ /			_
1	B-10-24.5	4-13-59	1	-	. Ho	-D				<u> </u>
	B-10-27-0		/		A					_
	B-11 - 4.5	-			Hoc	0			<u> </u>	<u> </u>
	B-11-95	1	/		A				1	-
	B-11 - 14.25		/		AF			<u> </u>		<u> </u>
4829		4-13-81	/		A*	<u> </u>			<u> </u>	· -
) i'''	8-11-23.5	4-14-69	/		A		1 1		<u> </u>	<u> </u>
4831	1	4-14-69	1	1	<u> </u>				<u> </u>	!
,,,,,	·	G-1-84	1/e	250_					1	<u> </u>
'										
REMARKS							•			
*	MAY CONTAIN HIGH	4 CONCER	TRAT	1221	CF. UD	<u> </u>				
'							<u></u>			
	samples r	ecld 100	aled.	irtae	t &	colo	l - 2	the		
	suriques se									
SAMPLE	RELINCUISHED BY:		DATE/TIM		CEIVED B					
Rich	and 1 Baldy	1	17-87	・シン・し	3E7110-				_	
05	egh Cund	4-1	8-89	1100 1	helli	e. Ho	yt			
, 7							<i></i>			
					· =	• :				

Air, Water, & Hazardous Waste Sampling, Analysis, & Consultation State Certified Hazardous Waste, Chemistry, & Bacteriology Laboratories

141 Suburban Road, Suite C-4 San Luis Obispo, Ca 93401 Fax (805) 543-2585 (805) 543-2553 6483-D Calle Real Goleia, CA 93117 Fax (805) 976-4366 (805) 964-7838

	OAMI LL OIA			<u> </u>		
IBMITTED BY:		1 5 5 1 7 1	CT NAME		· - · · · · · · · · · · · · · · · · · ·	
NESTERN GEOLGIC R	ESOURCES		CT NAME HOWAK	<i>I</i>)		
		1 21.601		PHONE VIS-Y	 	75
2169 E Francisco Blud. 3	_		ANALYS1:	RECUESTED		
1-0202 CHEU: 04	KIAND 175+	Horrison	$-\sqrt{1}$	*///	' / /	- / ;
AMPLER (Print & Sign Name)	_		1 /4		//	
DOAS SAMPLE IDENTIFICATIO		# of PRESE			//	
LAB # (ID #, location, mat	rix) COLLECTED	ITEMS	1 / 2/2	/ / /	1 /	<u>/ / </u>
1899 B-12-50	4-19-84		1. 1404	-D		
1900 18-12-9-5	1	/	A			
4901 B-12-14-5	1_	1/1	A*	4/25	H Jigi	t
4902 B-12-21.0	1-4	/	A	مانو	4-27	
1903 8-12-24.25			4			
1904 13-12-27.5	V		14			
						i
)————						
REMARKS:	976					
* May CONTAI	N HIGH C	ON CENT	RATIONS	4 100	<u>S</u> .	
•	• •			<u> </u>	-	
Namples red	d. Staled i	ntart & C	old-st			•
- Resolution / Laws						•
MANPLE RELINQUISHED BY:		ATE/TIME	RECEIVED B	Y ;	:	
Richard & Sal	du 17-1	9-59 18:48	GRE- H-0	NI)	- 7)	
greyhound	4-2	0-89 1100	Shell	ie Hoy	E)	
,						
				<u>.</u>		

State Centified Hazardous Waste, Chemistry, & Bacteriology Laboratories

141 Suburban Road, Suite C-4 San Luis Obispo, Ca 93401 Fax (905) 543-2585 (805) 543-2583 6483-D Calle Real Goleta, CA 93117 Fax (805) 976-4385 (805) 964-7838

SAMPLE CHAIN OF CUSTODY PAGE 10=3 SHEMITTED EY: CONTACT NAME COMPANY WESTERN GROLDING RESOURCES 180 BUSKIRK Tom Howars DDRESS 2.169 PHONE SAN RAFIFEL 415 457 7595 2 FRANCISCO ANALYSIS REQUESTED PROJECT NAME PROJECT # 17th) 1-012.03 HARRISON CAKLAND SAMPLER (Print & Sign Name) - Dw Bar DANBOCKUS | REV BADDIN PRESERVE SAMPLE IDENTIFICATION DATE/TIME # of COLLECTED **ITEMS** LAS # (ID #, location, matrix) Natsa 1201 A.3 1202 A 13 1203 A,B 5199 1204 4.3 5200 1700 1205 A.3 5201 1437 1206 A.B 5202 1715 1207 A.3 5203. 1338 1208 A.B NaN2 5204 12TB A.B REMARKS: samples red seeled intact & cold & DATE/TIME RECEIVED BY: 1052

COC1.WR1/8866

State Certified Hazardous Waste, Chemistry, & Bactericingy Laboratories

141 Suburban Road, Suita C-4 San Luis Obispo, Ca. 93401 Fax (805) 843-2585 (805) 843-2583 5453-D Calle Real Goleta, CA 93117 Fax (805) 976-4366 (805) 964-7838

SAMPLE CHAIN OF CUSTODY

PAGE 2073

	•						<u>~~ (</u>		ر - ح	}
SUBMITTE										
COMPANY	WESTERN beneare RES	50 UR CES		CONTACT N	NAME Howest			KIRI	ر	
200RESS	7169 & FRANCISCO	SAN RA	AEL "	94901	•	PHONE 47	5-49	7	759	<u></u>
PROJECT					וביר או או ביר ביר ביר ביר ביר ביר ביר ביר ביר ביר	S REQUE	STED /	7		 -
	(Frint & Sign Name) IN BOCKUS BEV B		/	7,	4 20		/ /			
	SAMPLE IDENTIFICATION (ID #, location, matrix)	1	4 . e	PRESERVE	25 P. 25 P.	//		$\int_{-\infty}^{\infty}$	/ /	
5196	1201 C	4.24.69	1	NONE			1			
5197	1202C	4.25.89 1014	1							
5198	1203 C	4.25.89 1014								
5199	12040	425-89 1054								
5200 5201	1205 C	1700					_			
5201	1206 C	143								
5202	1707 C	1715				1 1				
5203	1208 2	1338	1 2	<u> </u>	1/	1 1		1		
-			1					1		
REMARKS						<u> </u>				
NEC ARKS		ilta +		Û DÊ N EH	1/0	<u>~1</u>	411	1110	Ī.	
		<u> </u>	-	100		<u></u>				•
11	amples rec'd sea	led intan	t &	relds	L			-		
SAMPLE	RELINCUISHED BY:	147	ATE/TIM		AL GALA	v: buno	V	•		
and a	of blunch	4.2	6 -	00 0	16811	is 1	Fe 11	4)		
7	MINIMIA				<u> </u>	کائی کا	7	<u> </u>		
						•				
	CDC1.WR1/8886				·····					

State Certified Hazardous Waste, Chemistry, & Bacteriology Laboratories

141 Suburban Road, Suite C-4 San Luis Obispo, Ca 93401 Fax (805) 543-2685 (805) 543-2583 6483-D Calle Real Goleta, CA 93117 Fax (806) 976-4386 (806) 964-7838

SAMPLE CHAIN OF CUSTODY

200 5 23

					<u> </u>	
CEMITTE)					
	···		CONTACT	NAME, Alice Esta	180 30	£
1.	JESTERA GEOLOGIC RES	or KLES	<u> </u>	<u>-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 </u>	<u>・・とが、少りり</u> HONE	K: KI
DORESS	DIEG S FRANCISCO	SAV PAFAE	, Cr 949	70/	457 7	595
KUULUI I	FACULUI ARIA			ANALYSIS R		7 / 7
AMPLER ((Print & Sign Name)	Barowie 6	3.13.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	/ / / /	/ / / /
0045	SAMPLE IDENTIFICATION	DATE/TIME #	of PRESERVE		_ / / /	////
L#3 #	SAMPLE IDENTIFICATION (ID #, location, matrix)	COLLECTED	TEMS	17/	/_//	///
	1201 D	4.24 89	1 H2504			
5197	15 6 A D	4.75.81	1 1			
5198	1203 D	425.67				
5139	1764 D	4.24.39				
5200	1705D	700				
5201	1206 D	1437				
		175				
5202 5203	12000	1338	VIV	TVI		
J/W	1208 D	13301	<u> </u>			
				1 1		1 1
REMARKS	<u> </u>	<u> </u>		<u> </u>		
			1 - 1 -	/		
ya	mples-rec'd sea	led, intact	1 Cold 8	<u> </u>		<u>-</u>
						·
			1	TARTURE DU		
SAMPLE	RELINCUISHED BY:	1 DATE	19	ECEIVED BY:	und:	`
4	su sar		7000	reght	unc	
y	reghtund -	4-26	1052	Uhillie	HUT_	
/	<i>J</i>					
					·	•
L	COC1.WR1/9856		<u></u>			