



**Chevron U.S.A. Products Company**

2410 Camino Ramon, San Ramon, California • Phone (510) 842-9500  
Mail Address: P.O. Box 5004, San Ramon, CA 94583-0804

92 FEB 21 8:12:11

Marketing Department

February 14, 1992

Mr. Ariu Levi  
Alameda County Health Care Services  
80 Swan Way, Room 200  
Oakland, CA 94621

**Re: Former Chevron Service Station #9-4612**  
**3616 San Leandro Street**  
**Oakland, CA 94601**

Dear Mr. Levi:

Enclosed we are forwarding the Quarterly Ground Water Monitoring Report dated February 7, 1992, prepared by our consultant Pacific Environmental Services, Inc. for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline and BTEX. Benzene was detected at a concentration of 600 ppb. Depth to ground water was measured at approximately 13.7-feet below grade.

We are still pending the formal authorization from the property owner to perform additional site assessment work on his property and may not meet our requested extension date of March 15, 1992. However, we do expect to secure the authorization soon. Immediately upon receipt, we will prepare a work plan outlining our proposed additional work steps and forward to your office for your review and formal concurrence.

Chevron will continue to monitor this site and report findings on a quarterly basis.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-9581.

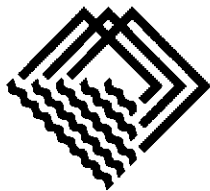
Very truly yours,  
CHEVRON U.S.A. INC.

Nancy Vukelich  
Environmental Engineer

Enclosure

cc: Mr. Eddy So, RWQCB-Bay Area  
Ms. B.C. Owen  
File (9-4612Q2)

Mr. Jack Ratto  
191 98th Avenue  
Oakland, CA 94603



PACIFIC  
ENVIRONMENTAL  
GROUP, INC.

REV. 12 T.L.H.

February 7, 1992  
Project 325-15.01

Ms. Nancy Vukelich  
Chevron USA, Inc.  
P.O. Box 5004  
San Ramon, California 94583

Re: Former Chevron Service Station 9-4612  
3616 San Leandro Street  
Oakland, California

Dear Ms. Vukelich:

This letter presents the results of a quarterly groundwater sampling and analytical program conducted by Pacific Environmental Group, Inc. (PACIFIC) on January 8, 1992, at the site referenced above (Figures 1 and 2). Historical groundwater elevation data and analytical results are presented in Table 1. Figure 2 presents dissolved gasoline and benzene concentrations detected in groundwater from Well VH-1 during this sampling event.

Water removed from the well (VH-1) during this sampling event was placed in one 55-gallon drum and stored on site. The stored liquid was purged from the drum and transported from the site (by Erickson, Inc.) on a pre-arranged date to an appropriate treatment and disposal facility (Gibson Oil Co. in Bakersfield, California) determined by Chevron.

Groundwater sampling procedures are presented in Attachment A. Laboratory analytical methods are documented in the certified analytical reports. The certified analytical reports and chain-of-custody documentation are presented in Attachment B.

February 7, 1992

Page 2

If you have any questions regarding this letter, please call.

Sincerely,

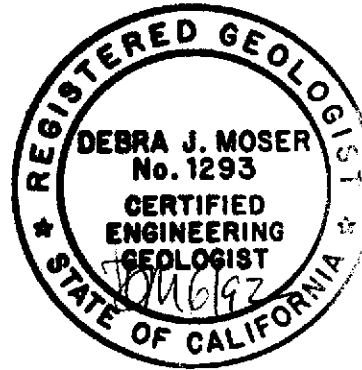
**Pacific Environmental Group, Inc.**



Jerry W. Mitchell  
Project Geologist



Debra J. Moser  
Senior Geologist  
CEG 1293



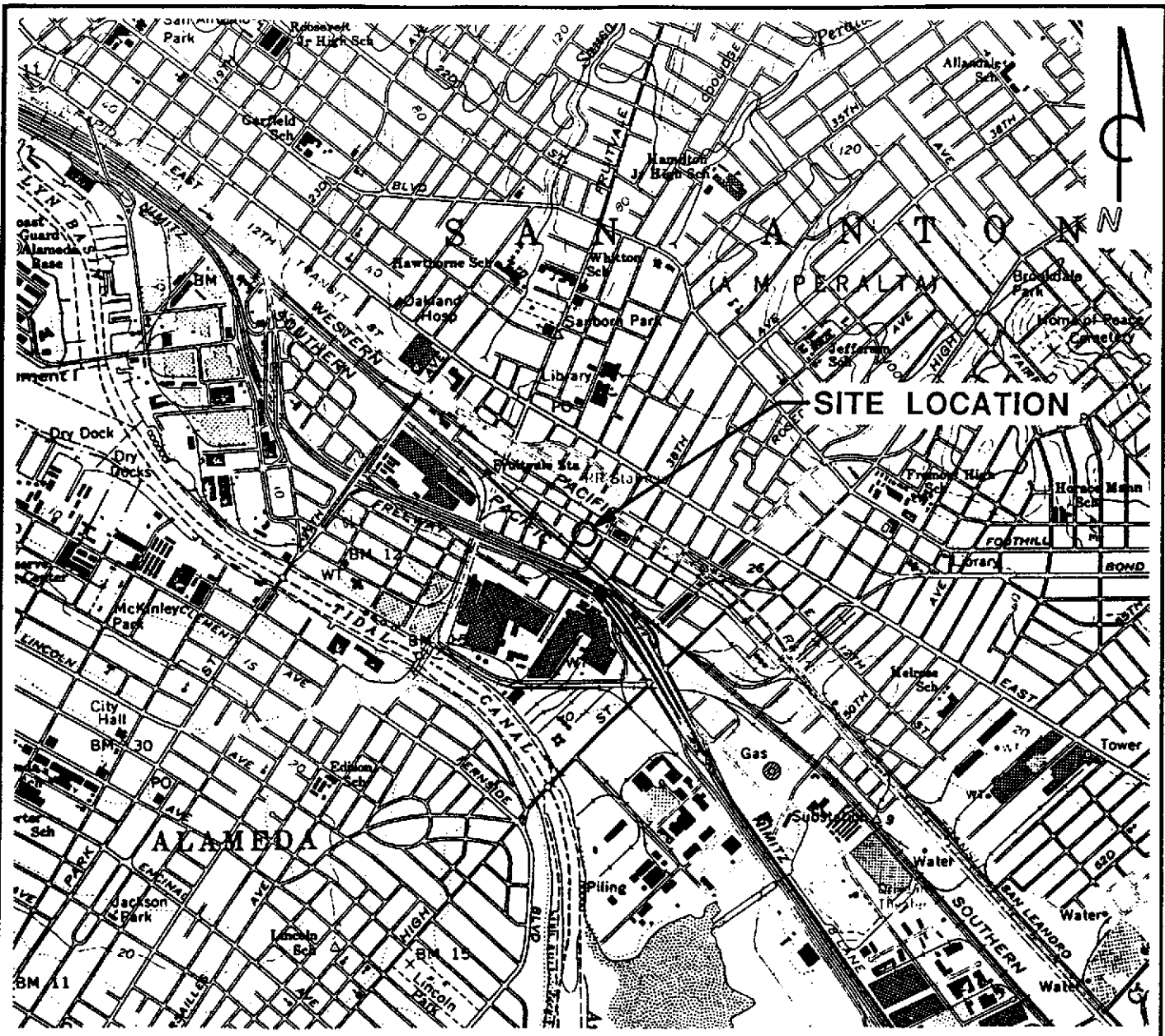
Attachments: Table 1 - Groundwater Elevation Data and Analytical Results  
Figure 1 - Site Location Map  
Figure 2 - Site Map  
Attachment A - Groundwater Sampling Procedures  
Attachment B - Certified Analytical Reports and Chain-of-Custody  
Documentation

**Table 1**  
**Groundwater Elevation Data and Analytical Results**

Former Chevron Service Station 9-4612  
3616 San Leandro Street  
Oakland, California

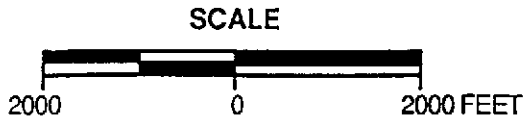
Well No.	Sample Date	Depth to Water (feet)	TPH-g (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
VH-1	08/10/88	13.00	11,000	3,300	200	520	540
	06/01/89	10.32	15,000	2,200	120	540	310
	09/15/89	15.69	5,600	1,900	90	350	160
	12/08/89	14.77	11,000	1,900	69	270	99
	03/07/91	11.26	4,500	820	39	120	77
	09/24/91	12.98	3,300	520	19	39	27
	01/08/92	13.77	5,000	600	34	81	76

TPH-g = total petroleum hydrocarbons calculated as gasoline  
ppb = parts per billion



QUADRANGLE LOCATION

**REFERENCES:**  
 USGS 7.5 MIN. TOPOGRAPHIC MAP  
 TITLED: OAKLAND EAST, CALIFORNIA  
 DATED: 1959 REVISED: 1980

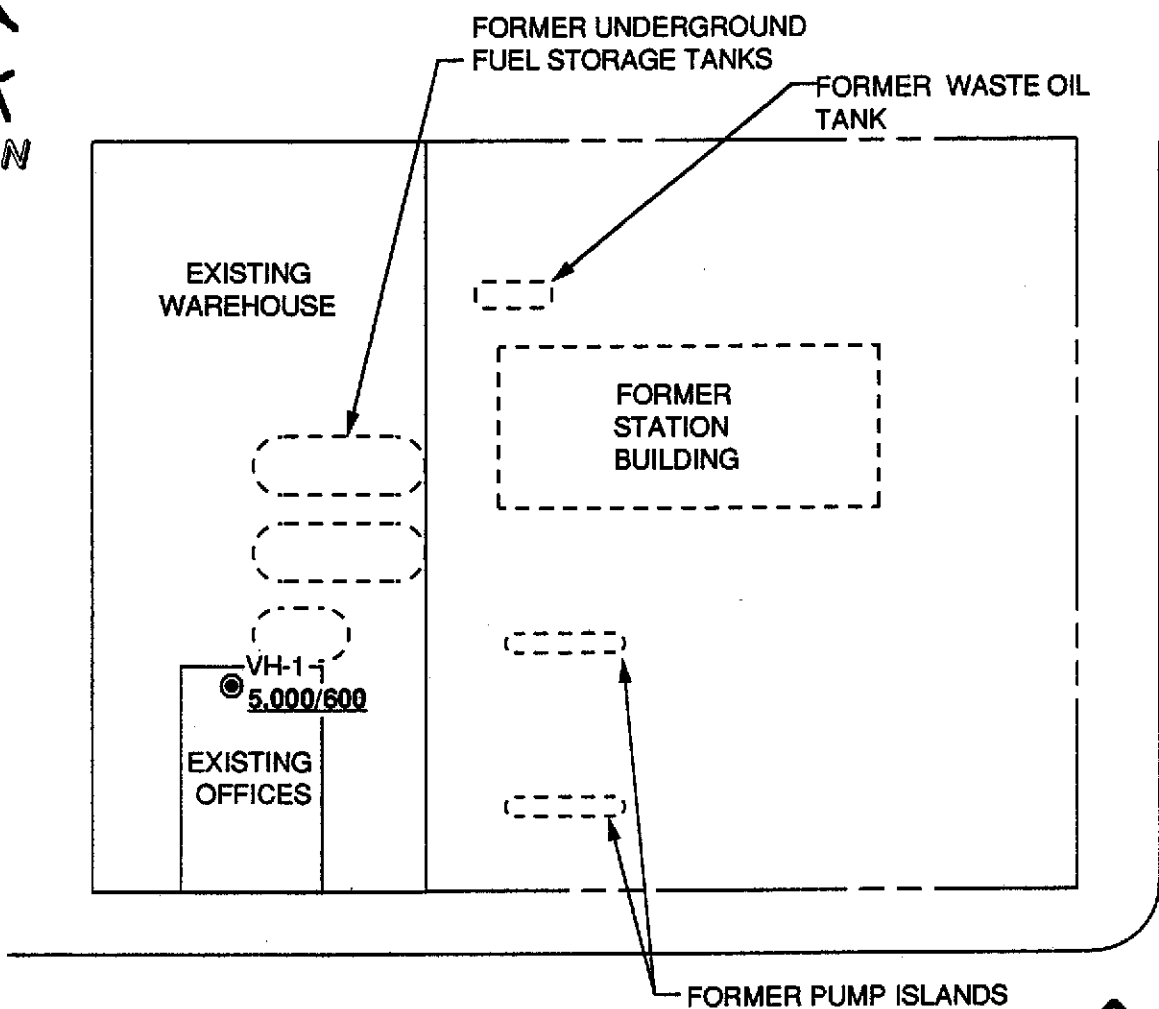


PACIFIC ENVIRONMENTAL GROUP, INC.

FORMER CHEVRON USA STATION 9-4612  
 3616 San Leandro Street at 36th Avenue  
 Oakland, California

SITE LOCATION MAP

FIGURE:  
 1  
 PROJECT:  
 325-15.01



**SAN LEANDRO STREET**

**37TH AVENUE**

**LEGEND**

VH-1 GROUNDWATER MONITORING WELL DESIGNATION AND APPROXIMATE LOCATION

5,000/600 DISSOLVED GASOLINE/BENZENE CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 1-8-92

ESTIMATED DIRECTION OF GROUNDWATER FLOW

**SCALE**



PACIFIC ENVIRONMENTAL GROUP, INC.

**FORMER CHEVRON SERVICE STATION #0290**  
3616 San Leandro Street  
Oakland, California

**DISSOLVED GASOLINE/BENZENE CONCENTRATION MAP**

FIGURE: **2**  
PROJECT: 325-15.01

**ATTACHMENT A**  
**GROUNDWATER SAMPLING PROCEDURES**

## **ATTACHMENT A**

### **GROUNDWATER SAMPLING PROCEDURES**

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#### **Groundwater Sampling**

The groundwater monitoring well was sampled by first measuring the water level and checking for the presence of separate-phase hydrocarbons using an electronic interface probe. The well was then purged a minimum of four casing volumes of water using a centrifugal pump, during which time temperature, pH, and electrical conductivity were monitored to indicate that a representative groundwater sample had been obtained. After purging, the water level in the well was allowed to partially restabilize before sampling. Groundwater samples were collected using a Teflon bailer, placed into appropriate EPA-approved containers, labeled, logged onto chain-of-custody documents, and transported on ice to the laboratory. A trip blank and a duplicate water sample accompanied the sample(s) to the laboratory. Purged groundwater was contained in one 55-gallon drum and secured on site pending disposal.

#### **Laboratory Analysis**

Groundwater samples were analyzed for total petroleum hydrocarbons calculated as gasoline (TPH-g) including benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). The analysis for TPH-g was performed according to Modified EPA Method 8015 by the purge-and-trap technique, with final detection by gas chromatography using a flame-ionization detector and a photoionization detector. The analysis for BTEX compounds was performed according to EPA Method 8020. Laboratory quality assurance documentation is included with the laboratory results. Laboratory detection limits are in accordance with RWQCB minimum detection limits.



**ATTACHMENT B**  
**CERTIFIED ANALYTICAL REPORTS**  
**AND**  
**CHAIN-OF-CUSTODY DOCUMENTATION**



C E R T I F I C A T E   O F   A N A L Y S I S

LABORATORY NO.: 12681  
CLIENT: Pacific Environmental Group  
CLIENT JOB NO.: 325-15.01

DATE RECEIVED: 01/09/92  
DATE REPORTED: 01/15/92

Page 1 of 2

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
12681- 1	VH-1	01/08/92	01/14/92
12681- 2	RB-1	01/08/92	01/14/92
12681- 3	TB-1	01/08/92	01/13/92

PACIFIC ENVIRONMENTAL GROUP, INC.  
PLEASANT HILL

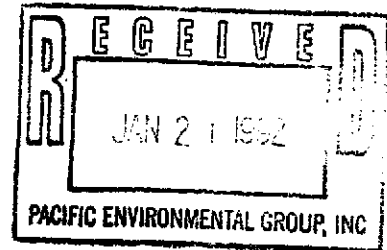
JAN 23 1992

RECEIVED

Laboratory Number:	12681	12681	12681
	1	2	3

ANALYTE LIST                      Amounts/Quantitation Limits (ug/L)

OIL AND GREASE:	NA	NA	NA
TPH/GASOLINE RANGE:	5000	ND<50	ND<50
TPH/DIESEL RANGE:	NA	NA	NA
BENZENE:	600	ND<0.5	ND<0.5
TOLUENE:	34	0.9	ND<0.5
ETHYL BENZENE:	81	ND<0.5	ND<0.5
XYLENES:	76	1.0	ND<0.5





# Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

## C E R T I F I C A T E   O F   A N A L Y S I S

### ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2  
QA/QC INFORMATION  
SET: 12681

NA = ANALYSIS NOT REQUESTED  
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT  
ug/l = part per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 503E:  
Minimum Detection Limit in Water: 5000ug/L

Modified EPA-SW846 Method 8015 for Extractable Hydrocarbons:  
Minimum Quantitation Limit for Diesel in Water: 50ug/l  
Standard Reference: NA

EPA-SW846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:  
Minimum Quantitation Limit for Gasoline in Water: 50ug/l  
Standard Reference: 07/23/91

SW-846 Method 8020/BTXE  
Minimum Quantitation Limit in Water: 0.5ug/l  
Standard Reference: 06/13/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	07/23/91	200ng	98/96	1.7	59-121
Benzene	06/13/91	200ng	89/90	1.7	70-125
Toluene	06/13/91	200ng	100/102	2.0	74-116
Ethyl Benzene	06/13/91	200ng	106/108	1.9	75-120
Total Xylene	06/13/91	600ng	105/108	2.7	75-119

~~Richard Srna, Ph.D.~~  
*(Signature)*  
Laboratory Director

Chevron U.S.A. Inc.  
 P.O. BOX 5004  
 San Ramon, CA 94583  
 FAX (415)842-9591

Chevron Facility Number 9-4613  
 Facility Address 3616 San Leandro St., Oakland  
 Consultant Project Number 325-15,01  
 Consultant Name Pacific Environmental Group  
 Address 1601 Civic Center Drive Ste 202  
 Project Contact (Name) Santa Clara, CA 95050  
 (Phone) (408)984-6536 (Fax Number) 243-3911

Chevron Contact (Name) \_\_\_\_\_  
 (Phone) \_\_\_\_\_  
 Laboratory Name Superior  
 Laboratory Release Number 450 8120  
 Samples Collected by (Name) Mark Ashton  
 Collection Date 1-8-92  
 Signature Mark Ashton

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed											Remarks			
								BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)							
VH-1		3	W	G	15:10	Hcl	Yes	X														
RB-1		2	↓	↓	15:05	↓	↓	↓														
TB-1		2	↓	↓	-	↓	↓	↓														

Please initials: PK  
 Samples Stored in ice:   
 Appropriate containers:   
 Samples preserved:   
 VOA's without headspace:   
 Comments: \_\_\_\_\_

Relinquished By (Signature) <u>Mark Ashton</u>	Organization <u>P.E.G.</u>	Date/Time <u>1/9/92 9:25</u>	Received By (Signature) <u>Harold B. Moore</u>	Organization <u>EXPRESS-IT</u>	Date/Time <u>1-9-92 9:25</u>	Turn Around Time (Circle Choice)  24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) <u>Harold B. Moore</u>	Organization <u>EXPRESS-IT</u>	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature) <u>NOVA</u>	Organization <u>EXPRESS-IT</u>	Date/Time <u>01-09-92</u>	Received For Laboratory By (Signature) <u>Richard Miller</u>	Organization	Date/Time <u>1/9/92 11:50</u>	