



**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

Marketing Department

92 FEB 21 11:12

February 18, 1992

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

Re: Chevron Service Station #9-0329  
340 Highland Avenue, Piedmont, California

Dear Mr. Seto :

Enclosed is the quarterly groundwater and sampling report dated January 31, 1992. Samples show nondetectable levels of total petroleum hydrocarbon as gasoline (TPH-G), benzene, toluene, ethylbenzene, and xylenes (BTEX) in monitoring wells, C-3 and C-4. However, a sheen was observed in well, C-2. Inventory reconciliation will be performed at this site.

A correction has made to the table of analytical results. A sheen was not observed in wells, C-2 and C-3, on August 7, 1989, and it has been noted and corrected in the table.

If you have any questions or comments, please feel free to contact me at (510) 842-8752.

Sincerely,

Chevron U.S.A., Inc.

Kenneth Kan  
Engineer

LKAN/MacFile 9-0329R

Enclosure

cc : Mr. Eddie So  
RWQCB-San Francisco Bay Area  
2101 Webster Street, Suite 500  
Oakland, CA 94612

Mr. Steve Willer  
Chevron U.S.A., Inc.



# GROUNDWATER TECHNOLOGY, INC.

4057 Port Chicago Highway, Concord, CA 94520 (415) 671-2387

FAX: (415) 685-9148

January 31, 1992

Job No. 020301441.061022

Mr. Ken Kan  
Chevron U.S.A. Inc.  
P. O. Box 5004  
San Ramon, CA 94583-0804

SUBJECT: GROUNDWATER MONITORING AND SAMPLING ACTIVITIES  
CHEVRON SERVICE STATION NO. 9-0329  
340 HIGHLAND AVENUE, PIEDMONT, CALIFORNIA

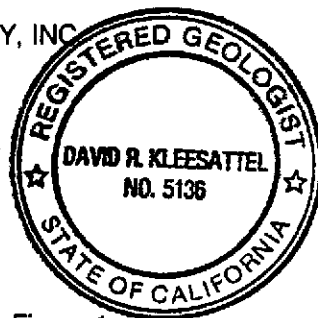
Dear Mr. Kan:


Groundwater Technology, Inc. presents the attached quarterly groundwater monitoring and sampling data collected on January 8, 1992. The three groundwater monitoring wells at this site were gauged to determine depth to groundwater (DTW) and to check for the presence of separate-phase hydrocarbons. A potentiometric surface map (Figure 1) and a summary of groundwater monitoring data (Table 1) are presented in Attachments A and B, respectively. After measuring the DTW, each monitoring well was purged and sampled. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), and total petroleum hydrocarbons (TPH)-as-gasoline. Results of the chemical analyses are summarized in Table 1. Laboratory reports and chain-of-custody records are included in Attachment C. Monitoring well purge water was stored on site in a labeled 55-gallon drum. The purge water was scheduled to be removed by a Chevron-approved contractor for transport and recycling.

Groundwater Technology is pleased to assist Chevron on this project. If you have any questions or comments please call our Concord office at (510) 671-2387.

Sincerely,  
GROUNDWATER TECHNOLOGY, INC.

  
Sandra L. Lindsey  
Project Manager



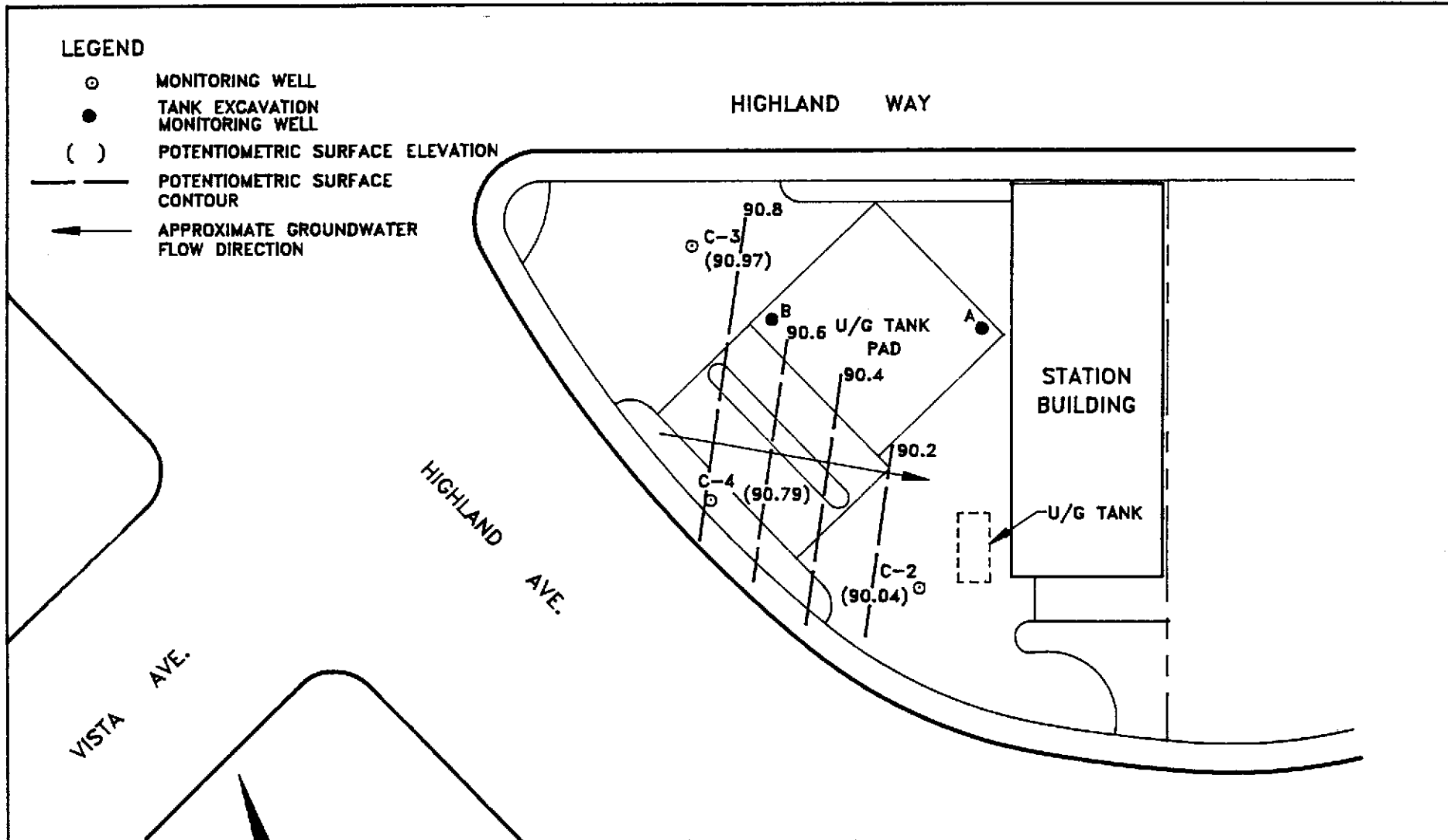
  
David R. Kleesattel  
Registered Geologist  
No. 5136


Attachments: Attachment A - Figure 1  
Attachment B - Table 1  
Attachment C - Laboratory Reports

LR1441A1.FH

**LEGEND**

- ⊙ MONITORING WELL
- TANK EXCAVATION MONITORING WELL
- ( ) POTENTIOMETRIC SURFACE ELEVATION
- POTENTIOMETRIC SURFACE CONTOUR
- ← APPROXIMATE GROUNDWATER FLOW DIRECTION



 <b>GROUNDWATER TECHNOLOGY</b>		4057 PORT CHICAGO HWY CONCORD, CA 94520 (510) 671-2387		<b>POTENTIOMETRIC SURFACE MAP</b> (1/8/92)		
CLIENT: CHEVRON U.S.A., PRODUCTS CO. SERVICE STATION #9-0329			LOCATION: 340 HIGHLAND AVE. PIEDMONT, CALIFORNIA		REV. NO.: 1	DATE: 1/30/92
PM <i>SAH</i>	PE/RG <i>ORK</i>	DESIGNED SL	DETAILED CSY	ACAD FILE: SP192	PROJECT NO.: 020302249	FIGURE: 1



**TABLE 1  
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA**

WELL ID/ ELEVATION	DATE	TPH-AS- GASOLINE	TOG	BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	DTW (feet)	SPT (feet)	WTE (feet)
C-2 94.19	08/07/89	34,000	12,000	580	60	170	270	2.88	ND	91.33
	11/15/89	8,100	<5,000	500	36	420	180	2.80	ND	91.39
	02/01/91	6,800	7,000	490	21	310	86	3.75	ND	90.41
	04/16/91	9,600	<5,000	810	43	550	270	2.55	ND	91.64
	10/16/91	7,100	<5,000	320	23	200	60	3.52	ND	90.67
	01/08/92	2,400	NA	190	9	83	22	4.15	SHEEN	90.04
C-3 97.65	08/07/89	<50	NA	<0.5	<1	<1	<3	4.29	ND	93.36
	11/15/89	<500	<5,000	<0.5	2.8	<0.5	1.1	5.17	ND	92.48
	02/01/91	<50	NA	<0.5	<0.5	<0.5	<0.5	6.38	ND	91.27
	04/16/91	<50	NA	<0.5	<0.5	<0.5	<0.5	3.72	ND	93.93
	10/16/91	<50	NA	<0.5	<0.5	<0.5	<0.5	8.20	ND	89.45
	01/08/92	<50	NA	<0.5	<0.5	<0.5	<0.5	6.68	ND	90.97
C-4 95.60	08/07/89	NA	NA	NA	NA	NA	NA	DRY	ND	DRY
	11/15/89	1,300	<5,000	2.9	310	0.5	2.9	4.95	ND	90.65
	02/01/91	72	NA	9	<0.5	<0.5	<0.5	4.78	ND	90.82
	04/16/91	<50	NA	<0.5	<0.5	<0.5	<0.5	4.83	ND	95.60
	10/16/91	<50	NA	<0.5	<0.5	<0.5	<0.5	4.23	ND	91.37
	01/08/92	<50	NA	<0.5	<0.5	<0.5	<0.5	4.81	ND	90.79
* A --	08/07/89	1,000	NA	50	6	5	22	2.10	ND	ND
	11/15/89	3,700	<5,000	98	2.1	4.3	55	2.04	NM	NM
	02/01/91	36,000	NA	1,100	750	130	6,100	3.05	ND	ND
	04/16/91	8,000	NA	370	6	86	750	2.01	ND	ND
	10/16/91	NS	NS	NS	NS	NS	NS	4.15	ND	ND
	01/08/92	NS	NS	NS	NS	NS	NS	NM	NM	NM
* B --	08/07/89	NS	NS	NS	NS	NS	NS	4.12	ND	ND
	11/15/89	NS	NS	NS	NS	NS	NS	NM	NM	NM
	02/01/91	NS	NS	NS	NS	NS	NS	5.03	ND	ND
	04/16/91	NS	NS	NS	NS	NS	NS	4.00	ND	ND
	10/16/91	NS	NS	NS	NS	NS	NS	6.24	ND	ND
	01/08/92	NS	NS	NS	NS	NS	NS	NM	NM	NM

ND = Not detected  
 NA = Not analyzed  
 NS = Not sampled  
 NM = Not monitored  
 DTW = Depth to water

\* = Backfill wells - No longer monitored as of 10/16/91  
 -- = Not available  
 SPT = Separate phase hydrocarbon thickness  
 WTE = Water table elevation

Note: The previous report dated 10/30/91 erroneously reported that a sheen was noted in wells C-2 and C-3 for the 8/7/89 sampling event.

**ATTACHMENT C**  
**LABORATORY ANALYTICAL REPORTS**



# Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

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

LABORATORY NO.: 84769  
CLIENT: GROUNDWATER TECHNOLOGIES INC.  
CLIENT JOB NO.: 020301441-061004

DATE RECEIVED: 01/08/92  
DATE REPORTED: 01/13/92

Page 1 of 2

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
84769- 1	TRIP BLANK	01/08/92	01/09/92
84769- 2	RBC-3	01/08/92	01/09/92
84769- 3	C-3	01/08/92	01/09/92
84769- 4	RBC-4	01/08/92	/ /
84769- 5	C-4	01/08/92	01/09/92
84769- 6	RBC-2	01/08/92	/ /
84769- 7	C-2	01/08/92	01/10/92

Laboratory Number:	84769	84769	84769	84769	84769
	1	2	3	4	5

ANALYTE LIST	Amounts/Quantitation Limits (ug/L)				
OIL AND GREASE:	NA	NA	NA	NA	NA
TPH/GASOLINE RANGE:	ND<50	ND<50	ND<50	NA	ND<50
TPH/DIESEL RANGE:	NA	NA	NA	NA	NA
BENZENE:	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5
TOLUENE:	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5
ETHYL BENZENE:	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5
XYLENES:	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5

Laboratory Number:	84769	84769
	6	7

ANALYTE LIST	Amounts/Quantitation Limits (ug/L)	
OIL AND GREASE:	NA	NA
TPH/GASOLINE RANGE:	NA	2400
TPH/DIESEL RANGE:	NA	NA
BENZENE:	NA	190
TOLUENE:	NA	9
ETHYL BENZENE:	NA	83
XYLENES:	NA	22



# Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

## 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: 84769

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

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:  
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: 10/04/91

SW-846 Method 8020/BTXE  
Minimum Quantitation Limit in Water: 0.5ug/L  
Standard Reference: 10/11/91

ANALYTE	REFERENCE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Oil & Grease	NA	NA	NA	NA	NA
Diesel	NA	NA	NA	NA	NA
Gasoline	01/02/92	200 ng	91/93	2	70-130
Benzene	01/06/92	200 ng	100/102	2	70-130
Toluene	01/06/92	200 ng	97/99	2	70-130
Ethyl Benzene	01/06/92	200 ng	97/99	2	70-130
Total Xylenes	01/06/92	200 ng	93/95	2	70-130

Richard Srna, Ph.D.

  
Laboratory Director

Fax copy of Lab Report and COC to Chevron Contact:  Yes  No

84769

Chain-of-Custody-Record

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

Chevron Facility Number 9-0329  
Facility Address 301 Highland  
Consultant Project Number 020301441-061004  
Consultant Name Groundwater Technology  
Address 4057 Port Chicago Hwy  
Project Contact (Name) Sandra Lindsey  
(Phone) 671-2387 (Fax Number) 685-9148

Chevron Contact (Name) Nancy Vukelich  
(Phone) 842-9581  
Laboratory Name Superior  
Laboratory Release Number 5435680  
Samples Collected by (Name) STEVE KLANYAK  
Collection Date 1-8-92  
Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analytes 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)	HOLD								
Trip Blank	1	1V	W	G	3:30	HCL	Yes	X																
RBC-3	2	1V						X																
C-3	3	3V						X																
RBC-4	4	1V						X																
C-4	5	3V						X																
RBC-1		1V																						← not received
C-1		3V						X																← not received
RBC-2	6	1V																						
C-2	7	3V	W	G	4:00	HCL	Yes	X																

Please Initial:  
 Samples Stored in ice ✓  
 Appropriate containers ✓  
 Samples preserved ✓  
 VOA's without headspace ✓  
 Comments:

COC-3/DWG/03 91/MCH

Relinquished By (Signature) <u>[Signature]</u>	Organization <u>GTI</u>	Date/Time <u>1-8-92 1720</u>	Received By (Signature) <u>[Signature]</u>	Organization	Date/Time	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>[Signature]</u>		Date/Time <u>1/8/92 1720</u>	