



**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

12/22/92  
SOS

November 23, 1992

Mr. Scott Seery  
Alameda County Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

Re: Chevron Station # 9-1924, 4904 South Front Street, Livermore, CA  
Attached groundwater monitoring report (GTI, 9/16/92)

Dear Mr. Seery:

Attached you will find a report dated September 16, 1992, which was prepared by Chevron's consultant, Groundwater Technology, Inc. (GTI), to describe the results of groundwater monitoring performed on July 28, 1992. During this monitoring event, GTI measured the elevation of groundwater and collected groundwater samples from each of the wells at the site. Samples were analyzed for the presence of total purgeable hydrocarbons in the gasoline range (TPHG) and for benzene, toluene, ethylbenzene, and total xylenes (BTEX).

The direction of groundwater flow and the measured levels of dissolved hydrocarbons are consistent with data collected during previous site monitoring events.

If you have any questions or comments, I can be reached at (510) 842-8695.

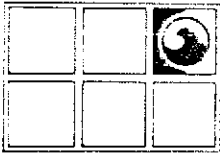
Sincerely,

Brett L. Hunter  
Environmental Engineer  
Site Assessment and Remediation

Attachment

- cc: Eddie So, San Francisco Bay RWQCB, Oakland, CA
- Jeanne Price, 213 Del Mesa Carmel, Carmel, CA 93921
- Ed Hoepker, Mobil Oil, 836-B Southampton, Suite 300, Benicia, CA 94510
- Peter DeSantis, BP Oil, 2868 Prospect Park Dr., Suite 360, Rancho Cordova, CA 95670
- Jim Grasty, GTI, West Sacramento, CA (w/o attachment)





# GROUNDWATER TECHNOLOGY, INC.

1401 Halyard Drive, Suite 140, West Sacramento, CA 95691 (916) 372-4700

FAX (916) 372-8781

September 16, 1992

Project No. 02020 2886

Mr. Clint B. Rogers  
Chevron U.S.A. Products Company  
2410 Camino Ramon  
San Ramon, CA 94583-0804

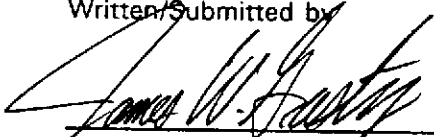
RE: QUARTERLY MONITORING AND SAMPLING ACTIVITIES  
CHEVRON SERVICE STATION NO. 9-1924  
4904 SOUTHFRONT ROAD  
LIVERMORE, CALIFORNIA

Dear Mr. Rogers:

Groundwater Technology, Inc. submits this letter as a summary of quarterly groundwater monitoring and sampling data collected on July 28, 1992 at the above referenced site. The site-related groundwater monitoring wells were gauged to determine depth to groundwater (DTW) and to check for the presence of separate-phase petroleum hydrocarbons. A potentiometric surface map (Figure 1) and a summary of groundwater monitoring data (Table 1) are included. After measuring DTW, each monitoring well was purged and sampled. The groundwater samples were analyzed for dissolved benzene, toluene, ethylbenzene and xylenes (BTEX) and total petroleum hydrocarbons-as-gasoline (TPH-G). Results of the chemical analyses are summarized in Table 1. Laboratory reports and chain-of-custody manifests are included in Attachment A. All purge water generated during the sampling process was collected in a Department of Transportation (DOT)-approved purge water trailer and transported for recycling to the Chevron refinery in Richmond, California.

Groundwater Technology, Inc. is pleased to assist Chevron on this project. If you have any questions or comments please call our West Sacramento office.


Sincerely,  
Groundwater Technology, Inc.  
Written/Submitted by

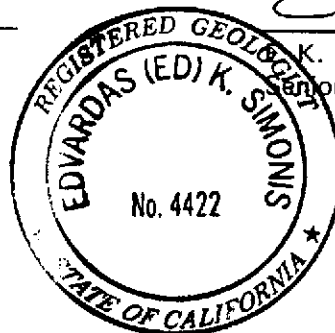
  
\_\_\_\_\_  
JAMES W. GRASTY, R.E.A.  
Environmental Geologist  
Project Manager

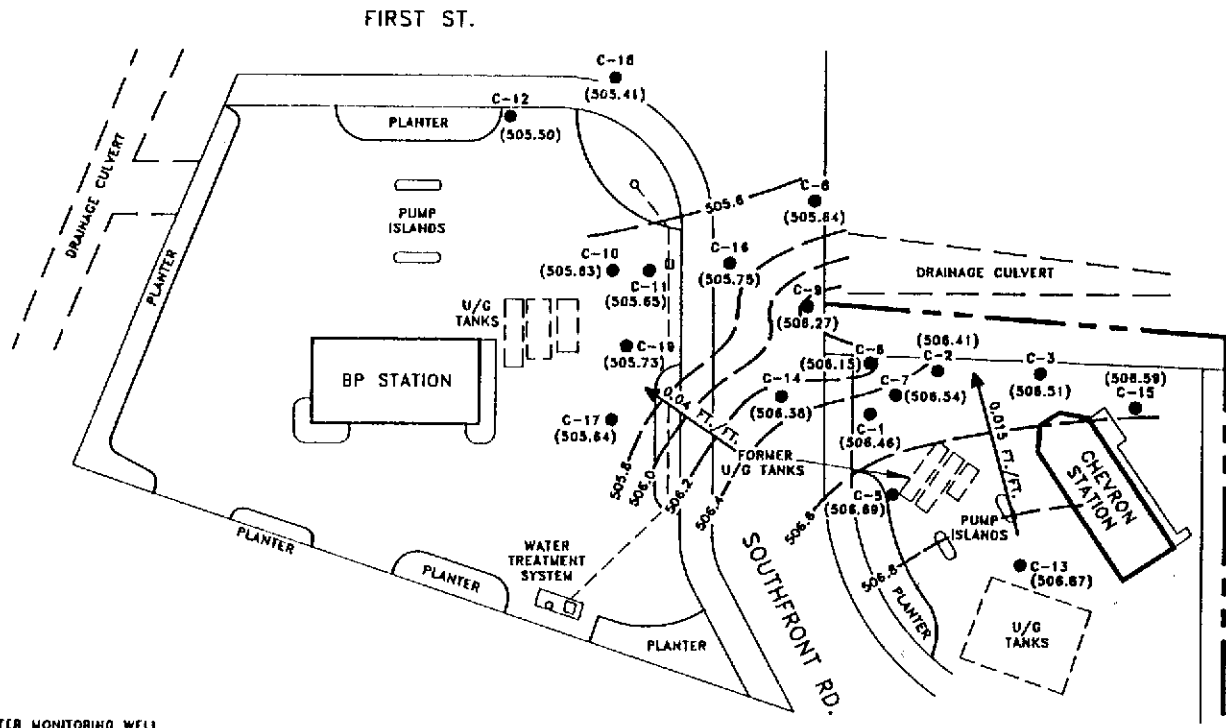
JWG/EKS:rc

Enclosures  
1924QTR2.LTR

Groundwater Technology, Inc.  
Reviewed/Approved by

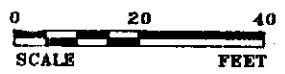
  
\_\_\_\_\_  
EDWARDAS (ED) K. SIMONIS, R.G.  
Senior Environmental Geologist





**LEGEND**

- GROUNDWATER MONITORING WELL
- (505.41) POTENTIOMETRIC SURFACE ELEVATION (FT.)
- POTENTIOMETRIC SURFACE CONTOUR; INTERVAL=0.2 FT.
- 0.04 FT./FT. ESTIMATED GROUNDWATER FLOW DIRECTION & APPROXIMATE GRADIENT



		GROUNDWATER TECHNOLOGY 1401 HAYWARD DR. #140 W. SACRAMENTO, CA. 95811 (916) 372-4700	
REV. NO.: 1	DATE: 9/9/92	ACAD. FREQ.: POT72892	
<b>POTENTIOMETRIC SURFACE MAP</b> (DATUM: MEAN SEA LEVEL) JULY 28, 1992			
CLIENT: CHEVRON U.S.A. PRODUCTS CO. SS #9-1924			
LOCATION: 4904 SOUTHFRONT RD. LIVERMORE, CALIFORNIA			
DESIGNED JB	DETAILED GWS	PROJECT NO.: 02020-2886	FIGURE: 1

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

CHEVRON SERVICE STATION #9-1924  
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-1 520.39	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	11.75	0.00	508.64
	03/15/88	770	87	610	2,100	27,000	---	---	---	---	---	---	---	13.50	0.00	506.89
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	13.65	0.00	506.74
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.72	0.00	505.67
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	13.50	0.00	506.89
	10/13/88	220	11	62	130	3,200	---	---	---	---	---	---	---	12.89	0.00	507.50
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	12.89	0.00	507.50
	01/12/89	820	43	490	260	4,000	---	---	---	---	---	---	---	---	---	---
	04/10/89	100	ND	70	50	4,000	ND	ND	---	---	---	---	---	13.65	0.00	506.74
	04/10/89	100	ND	60	50	4,000	---	ND	---	---	---	---	---	13.65	0.00	506.74
	06/26/89	97	20	60	50	600	ND	3	---	---	---	---	---	13.94	0.00	506.45
	06/26/89	86	15	44	35	570	---	1.7	---	---	---	---	---	13.94	0.00	506.45
	10/13/89	64	ND	51	48	1,600	ND	ND	5	---	---	---	---	13.92	0.00	506.47
	01/03/90	36	0.68	30	30	1,100	---	1	---	---	---	---	---	13.80	0.00	506.59
	05/08/90	37	9.2	40	32	1,300	---	1.2	---	---	---	ND	---	13.91	0.00	506.48
	09/29/90	19	1.2	32	31	350	---	ND	ND	0.7	1.4	ND	---	13.93	0.00	506.46
	01/03/91	12	ND	17	14	400	---	ND	ND	ND	ND	ND	---	13.85	0.00	506.54
	04/12/91	---	---	---	---	---	---	---	---	---	---	---	---	13.51	0.00	506.88
	09/04/91	---	---	---	---	---	---	---	---	---	---	---	---	14.10	0.00	506.29
	04/06/92	12	0.8	31	31	1,000	---	ND	ND	ND	ND	ND	---	13.08	0.00	507.33
07/28/92	47	110	86	260	4,200	---	---	---	---	---	---	---	13.93	0.00	506.46	
C-2 520.76	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	11.98	0.00	508.78
	03/15/88	3,900	1,900	1,200	1,200	22,000	---	---	---	---	---	---	---	13.77	0.00	506.99
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.03	0.00	506.73
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	15.12	0.00	505.64
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	13.86	0.00	506.90
	10/13/88	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	14.11	0.00	506.65
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	12.83	0.00	507.93
	01/12/89	25	3	83	59	1,000	---	---	---	---	---	---	---	---	---	---
	04/10/89	2.5	ND	15	12	600	ND	ND	---	---	---	---	---	14.04	0.00	506.72
	04/10/89	ND	ND	11	11	ND	---	ND	---	---	---	---	---	14.04	0.00	506.72
	06/26/89	5.3	8	18	14	640	ND	ND	---	---	---	---	---	14.34	0.00	506.42
	06/26/89	3.7	0.6	13	8.2	750	---	2	---	---	---	---	---	14.34	0.00	506.42
	10/13/89	ND	ND	17	10	630	---	ND	---	---	---	---	---	13.92	0.00	506.84
	01/03/90	3	ND	19	17	880	---	1	---	---	---	---	---	14.11	0.00	506.65
	05/08/90	1.3	2.7	8.4	11	340	---	1.1	---	ND	---	ND	---	14.28	0.00	506.48
	09/29/90	ND	ND	4.6	1.8	74	---	---	---	1.7	0.5	ND	---	14.25	0.00	506.51
	01/03/91	270	ND	79	93	2,000	---	ND	ND	ND	ND	ND	---	14.15	0.00	506.61
	04/12/91	---	---	---	---	---	---	---	---	---	---	---	---	13.86	0.00	506.90
	09/04/91	---	---	---	---	---	---	---	---	---	---	---	---	14.50	0.00	506.26
	04/06/92	ND	ND	54.0	6.1	1,200	---	ND	ND	ND	ND	ND	---	13.47	0.00	507.29
07/28/92	6.2	2.9	26	46	1,000	---	---	---	---	---	---	---	14.35	0.00	506.41	

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

CHEVRON SERVICE STATION #9-1924  
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
<b>C-3</b> 521.31	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	12.24	0.00	509.07
	03/15/88	86	8	30	36.0	2,100	--	--	--	--	--	--	--	14.21	0.00	507.10
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	14.43	0.00	506.88
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	15.53	0.00	505.78
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	14.22	0.00	507.09
	10/13/88	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	14.10	0.00	507.21
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	12.70	0.00	508.61
	04/10/89	2.1	ND	4.4	2.6	200	ND	1.4	--	--	--	--	--	14.36	0.00	506.95
	06/26/89	1.1	0.7	4.9	1.6	260	ND	1.5	--	--	--	--	--	14.74	0.00	506.57
	10/13/89	ND	ND	ND	ND	ND	--	ND	--	--	--	--	--	14.70	0.00	506.61
	01/03/90	ND	ND	0.9	1.4	ND	--	0.7	--	--	--	--	--	14.42	0.00	506.89
	05/08/90	ND	ND	ND	ND	ND	--	0.7	--	ND	--	ND	--	14.65	0.00	506.66
	09/27/90	ND	1.0	ND	ND	71	--	ND	ND	1.1	1.6	ND	--	14.67	0.00	506.64
	01/03/91	ND	ND	ND	ND	57	--	ND	ND	ND	ND	ND	ND	14.58	0.00	506.73
	04/12/91	ND	ND	1.6	ND	98	--	ND	ND	ND	ND	ND	ND	14.23	0.00	507.08
	09/04/91	ND	ND	ND	ND	64	--	ND	ND	ND	ND	ND	ND	14.88	0.00	506.43
	04/06/92	ND	ND	0.8	ND	88	--	ND	ND	ND	ND	ND	ND	13.83	0.00	507.48
07/28/92	ND	ND	0.5	1.1	80	--	--	--	--	--	--	--	14.80	0.00	506.51	
<b>C-5</b> 520.82	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	12.00	0.00	508.82
	03/15/88	82	7	77	95	1,600	--	--	--	--	--	--	--	13.75	0.00	507.07
	05/10/88	--	--	--	--	--	--	--	--	--	--	--	--	13.92	0.00	506.90
	07/10/88	--	--	--	--	--	--	--	--	--	--	--	--	13.72	0.00	507.10
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	13.72	0.00	507.10
	10/13/88	ND	ND	ND	ND	2,500	--	--	--	--	--	--	--	13.84	0.00	506.98
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	13.41	0.00	507.41
	01/12/89	42	3	44	52	ND	--	--	--	--	--	--	--	--	0.00	520.82
	04/10/89	2.6	ND	6.2	5.5	180	ND	1.4	--	--	--	--	--	13.88	--	--
	06/26/89	7.6	0.8	40	56	420	ND	1.5	--	--	--	--	--	14.14	0.00	506.68
	10/13/89	ND	ND	10	ND	620	ND	ND	--	--	--	--	--	14.15	0.00	506.67
	01/03/90	0.7	ND	8	6	ND	--	ND	--	--	--	--	--	14.10	0.00	506.72
	05/08/90	0.6	0.8	11	7.2	140	--	0.8	--	ND	--	ND	--	14.00	0.00	506.82
	09/27/90	ND	3.2	5.2	6.4	360	--	ND	ND	0.7	ND	ND	--	14.00	0.00	506.82
	01/03/91	ND	ND	ND	3	90	--	ND	ND	ND	ND	ND	ND	14.00	0.00	506.82
	04/12/91	12	ND	19	7	270	--	0.5	ND	ND	ND	ND	ND	13.71	0.00	507.11
	09/04/91	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	ND	14.30	0.00	506.52
04/06/92	12	ND	40	ND	670	--	ND	ND	ND	ND	ND	ND	13.29	0.00	507.53	
07/28/92	15	ND	1.8	0.5	130	--	--	--	--	--	--	--	14.13	0.00	506.69	

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

CHEVRON SERVICE STATION #9-1924  
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
G-8 519.62	03/26/86	---	---	---	---	---	---	---	---	---	---	---	---	11.12	0.00	508.50
	03/15/88	870	4,600	1,500	8,200	46,000	---	---	---	---	---	---	---	12.93	0.00	506.69
	05/10/88	1,400	10,000	3,000	19,000	86,000	---	---	---	---	---	---	---	13.03	0.00	506.59
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.11	0.00	505.51
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	12.95	0.00	506.67
	10/13/88	300	600	260	1,600	5,300	---	---	---	---	---	---	---	13.14	0.00	506.48
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	12.14	0.00	507.48
	01/12/89	260	110	270	720	5,000	---	---	---	---	---	---	---	---	---	---
	04/12/89	90	190	190	680	5,000	4.0	ND	---	---	---	---	---	12.98	0.00	506.64
	06/26/89	77	250	140	610	3,600	ND	ND	---	---	---	---	---	13.39	0.00	506.23
	10/13/89	32	81	100	530	3,500	ND	ND	---	---	---	---	---	13.40	0.00	506.22
	01/03/90	20	97	65	410	3,200	---	1	---	---	---	---	---	13.18	0.00	506.44
	05/08/90	17	140	ND	400	1,800	---	1.6	---	ND	---	ND	---	13.39	0.00	506.23
	09/29/90	58	210	260	2,100	8,000	---	1.0	ND	ND	2.4	1.6	---	13.32	0.00	506.30
	01/03/91	4	79	59	380	2,300	---	0.5	ND	ND	ND	ND	ND	13.19	0.00	506.43
	04/12/91	---	---	---	---	---	---	---	---	---	---	---	---	12.91	0.00	506.71
	09/04/91	---	---	---	---	---	---	---	---	---	---	---	---	13.56	0.00	506.06
	04/06/92	ND	120	740	3,400	44,000	---	ND	ND	ND	ND	ND	ND	12.48	0.00	507.14
07/28/92	220	1,100	3,000	13,000	120,000	---	---	---	---	---	---	---	13.47	0.00	506.15	
G-7 520.30	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	11.67	0.00	508.63
	03/15/88	98	690	120	120	8,000	---	---	---	---	---	---	---	13.48	0.00	506.82
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	13.60	0.00	506.70
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.68	0.00	505.62
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	13.43	0.00	506.87
	10/13/88	4,400	220	1,000	3,000	16,000	---	---	---	---	---	---	---	13.61	0.00	506.69
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	12.66	0.00	507.64
	01/12/89	950	47	670	640	8,000	---	---	---	---	---	---	---	---	---	---
	04/12/89	1,100	30	760	370	6,000	ND	ND	---	---	---	---	---	13.60	0.00	506.70
	06/26/89	1,300	50	600	340	6,000	ND	ND	---	---	---	---	---	13.88	0.00	506.42
	10/13/89	1,300	ND	160	150	3,900	---	ND	---	---	---	---	---	13.81	0.00	506.49
	01/03/90	1,200	13	180	200	5,600	---	1	---	---	---	---	---	13.71	0.00	506.59
	05/08/90	1,100	15	110	140	3,500	---	1.7	---	ND	---	ND	---	13.85	0.00	506.45
	09/29/90	580	ND	46	68	2,400	---	0.7	ND	ND	ND	ND	ND	13.80	0.00	506.50
	01/03/91	300	2	110	120	2,500	---	0.7	ND	ND	ND	ND	ND	13.71	0.00	506.59
	04/12/91	190	1	81	87	2,300	---	0.6	ND	ND	ND	ND	ND	13.46	0.00	506.84
	09/04/91	---	---	---	---	---	---	---	---	---	---	---	---	14.09	0.00	506.21
	10/07/91	170	1.9	97	59	4,700	---	ND	ND	24	ND	ND	ND	---	---	---
04/06/92	95	0.8	110	100	2,400	---	ND	ND	ND	ND	ND	ND	13.02	0.00	507.28	
07/28/92	120	3.4	110	110	2,000	---	---	---	---	---	---	---	13.76	0.00	506.54	

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

CHEVRON SERVICE STATION #9-1924  
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-8 519.74	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	11.78	0.00	507.96
	03/15/88	360	25	10	ND	7,500	---	---	---	---	---	---	---	13.63	0.00	508.11
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	13.74	0.00	506.00
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.89	0.00	504.85
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	13.65	0.00	506.09
	10/13/88	6	5.3	ND	ND	ND	---	---	---	---	---	---	---	13.78	0.00	505.96
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	12.68	0.00	507.06
	01/12/89	37	4	1	5	ND	---	---	---	---	---	---	---	---	---	---
	04/12/89	13	ND	ND	ND	3,000	12.0	5	---	---	---	---	---	13.77	0.00	505.97
	06/26/89	14	6	ND	6	780	ND	4	---	---	---	---	---	14.03	0.00	505.71
	10/13/89	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	14.06	0.00	505.68
	01/03/90	ND	ND	1	1	910	---	1.5	---	---	---	---	---	13.74	0.00	506.00
	05/07/90	3.9	6	0.5	3.4	620	---	1.9	---	ND	---	ND	---	14.10	0.00	505.54
	09/29/90	ND	1.4	ND	ND	77	---	ND	ND	0.6	ND	ND	---	13.97	0.00	505.77
	01/03/91	2	2	ND	ND	67	---	ND	ND	0.7	ND	ND	ND	13.81	0.00	505.93
	04/12/91	4	ND	ND	ND	180	---	0.6	ND	ND	ND	ND	ND	13.60	0.00	506.14
	09/04/91	1.8	4.7	0.8	4.8	140	---	ND	ND	ND	ND	ND	ND	14.14	0.00	505.60
	04/06/92	ND	ND	ND	ND	150	---	ND	ND	ND	ND	ND	ND	13.12	0.00	506.62
	07/28/92	ND	ND	ND	0.8	90	---	---	---	---	---	---	---	14.10	0.00	505.64
	C-9 519.52	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	11.24	0.00
03/15/88		540	560	580	3,900	29,000	---	---	---	---	---	---	---	12.92	0.00	506.60
05/10/88		---	---	---	---	---	---	---	---	---	---	---	---	13.12	0.00	506.40
06/10/88		---	---	---	---	---	---	---	---	---	---	---	---	14.16	0.00	505.36
07/25/88		---	---	---	---	---	---	---	---	---	---	---	---	13.00	0.00	506.52
10/13/88		57	8	20	150	2,200	---	---	---	---	---	---	---	13.13	0.00	506.39
01/01/89		---	---	---	---	---	---	---	---	---	---	---	---	12.19	0.00	507.33
01/12/89		39	12	51	46	2,000	---	---	---	---	---	---	---	---	---	
04/12/89		16	20	55	240	6,000	ND	2.1	---	---	---	---	---	13.11	0.00	506.41
04/11/89		14	25	45	290	6,000	---	ND	---	---	---	---	---	13.11	0.00	506.41
06/26/89		37	63	140	690	3,900	ND	ND	---	---	---	---	---	13.40	0.00	506.12
10/13/89		7	ND	26	50	1,300	ND	ND	---	---	---	---	---	13.46	0.00	506.06
01/03/90		ND	0.7	202	37	1,500	---	1.5	---	---	---	---	---	13.30	0.00	506.22
05/07/90		21	33	89	500	7,100	---	1.9	---	ND	---	ND	---	13.48	0.00	506.04
09/29/90		21	3.9	31	110	1,000	---	1.0	ND	0.7	---	1.8	1.0	13.39	0.00	506.13
01/03/91		ND	ND	32	140	3,200	---	0.8	ND	ND	ND	ND	ND	13.28	0.00	506.44
04/12/91		---	---	---	---	---	---	---	---	---	---	---	---	13.00	0.00	506.72
09/04/91		---	---	---	---	---	---	---	---	---	---	---	---	13.61	0.00	506.11
04/06/92		ND	ND	33	130	2,800	---	ND	ND	ND	ND	ND	ND	12.54	0.00	507.18
07/28/92		ND	ND	17	37	1,000	---	---	---	---	---	---	---	13.45	0.00	506.27

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

CHEVRON SERVICE STATION #9-1924  
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (IOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-10 520.41	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/15/88	7	ND	ND	ND	90	---	---	---	---	---	---	---	14.86	0.00	505.55
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.90	0.00	505.51
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	15.94	0.00	504.47
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	14.85	0.00	505.56
	10/13/88	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	14.90	0.00	505.51
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	14.83	0.00	505.58
	01/12/89	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---	---
	04/11/89	4.8	ND	ND	ND	ND	ND	ND	6.1	---	---	---	---	14.90	0.00	505.51
	06/26/89	0.7	ND	ND	ND	1.5	ND	4.0	ND	---	---	---	---	15.12	0.00	505.29
	10/13/89	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	15.11	0.00	505.30
	01/03/90	ND	ND	ND	ND	ND	ND	ND	3	---	---	---	---	15.01	0.00	505.40
	05/07/90	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	15.53	0.00	504.88
	09/27/90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	15.20	0.00	505.21
	01/03/91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.06	0.00	505.35
	04/12/91	16	ND	2.9	2.7	110	---	---	1	ND	ND	ND	ND	14.86	0.00	505.55
	09/04/91	ND	ND	ND	ND	ND	ND	---	---	ND	ND	ND	ND	15.22	0.00	505.19
04/06/92	ND	ND	ND	ND	ND	57	---	---	ND	ND	ND	ND	14.21	0.00	506.20	
07/28/92	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	14.78	0.00	505.63	
C-11 520.04	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	13.82	0.00	506.22
	03/15/88	---	---	---	---	---	---	---	---	---	---	---	---	14.49	0.00	505.55
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.31	0.00	505.73
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	15.47	0.00	504.57
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	13.60	0.00	506.44
	10/14/88	240	33	4.7	67	1.9	---	---	---	---	---	---	---	14.53	0.00	505.51
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	14.10	0.00	505.94
	01/12/89	ND	0.8	ND	ND	ND	---	---	---	---	---	---	---	---	---	---
	04/12/89	4.3	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	14.36	0.00	505.68
	06/26/89	2	ND	ND	ND	ND	ND	4.0	ND	---	---	---	---	14.58	0.00	505.46
	10/13/89	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	14.71	0.00	505.33
	01/03/90	ND	ND	ND	0.7	ND	---	---	---	---	---	---	---	14.61	0.00	505.43
	05/08/90	12	11	0.9	22	110	---	---	---	---	ND	ND	---	15.53	0.00	504.51
	09/28/90	2.0	1.4	ND	3.3	ND	---	---	---	ND	1.2	ND	ND	15.51	0.00	504.53
	01/03/91	2	ND	ND	2	ND	---	---	---	ND	ND	ND	---	14.63	0.00	505.41
	04/12/91	---	---	---	---	---	---	---	---	---	---	---	---	14.30	0.00	505.74
	09/04/91	---	---	---	---	---	---	---	---	---	---	---	---	14.84	0.00	505.20
04/06/92	ND	ND	ND	ND	ND	---	---	---	---	---	---	ND	13.56	0.00	506.48	
07/28/92	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	14.39	0.00	505.65	



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

CHEVRON SERVICE STATION #9-1924  
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TQC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
<b>C-12</b> 519.82	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	13.61	0.00	506.21
	03/15/88	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	14.55	0.00	505.27
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.57	0.00	505.25
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	15.63	0.00	504.19
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	14.51	0.00	505.31
	10/13/88	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	14.60	0.00	505.22
	01/12/89	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	14.62	0.00	505.20
	04/11/89	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	14.61	0.00	505.21
	06/26/89	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	14.75	0.00	505.07
	10/13/89	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	14.77	0.00	505.05
	01/03/90	ND	ND	ND	ND	0.6	ND	---	---	---	---	---	---	14.85	0.00	504.97
	05/07/90	ND	ND	ND	ND	ND	ND	---	---	ND	---	---	---	14.75	0.00	505.07
	09/27/90	ND	ND	ND	ND	ND	ND	---	---	ND	ND	---	---	14.61	0.00	505.21
	01/03/91	ND	ND	ND	ND	ND	ND	---	---	ND	ND	ND	---	14.70	0.00	505.12
	04/12/91	---	---	---	---	---	---	---	---	---	---	---	---	14.52	0.00	505.30
	09/04/91	---	---	---	---	---	---	---	---	---	---	---	---	14.83	0.00	504.99
	04/06/92	ND	ND	ND	ND	ND	ND	---	---	ND	ND	ND	---	13.81	0.00	506.01
07/28/92	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	14.32	0.00	505.50	
<b>C-13</b> 522.24	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	12.95	0.00	509.29
	03/15/88	2	ND	9	3	250	---	---	---	---	---	---	---	14.82	0.00	507.42
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	15.03	0.00	507.21
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	16.10	0.00	508.14
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	14.73	0.00	507.51
	10/13/88	1.9	ND	ND	ND	ND	---	---	---	---	---	---	---	14.91	0.00	507.33
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	14.10	0.00	508.14
	01/12/89	ND	0.6	4	ND	ND	---	---	---	---	---	---	---	---	---	---
	04/10/89	ND	ND	8	ND	ND	ND	ND	ND	---	---	---	---	14.99	0.00	507.25
	06/26/89	0.3	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	15.16	0.00	507.08
	10/13/89	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	15.23	0.00	507.01
	01/03/90	ND	ND	0.5	0.6	ND	---	---	---	---	---	---	---	15.15	0.00	507.09
	05/08/90	ND	ND	ND	ND	ND	---	---	---	ND	---	---	---	15.02	0.00	507.22
	09/27/90	ND	0.6	ND	ND	ND	---	---	---	ND	ND	---	---	15.11	0.00	507.13
	01/03/91	ND	ND	ND	0.6	ND	---	---	---	ND	ND	ND	---	15.08	0.00	507.16
	04/12/91	---	---	---	---	---	---	---	---	---	---	---	---	14.77	0.00	507.47
	09/04/91	---	---	---	---	---	---	---	---	---	---	---	---	15.43	0.00	506.81
04/06/92	ND	ND	ND	ND	68	---	---	---	ND	ND	ND	---	14.43	0.00	507.81	
07/28/92	ND	ND	ND	71	60	---	---	---	---	---	---	---	15.37	0.00	506.87	

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

CHEVRON SERVICE STATION #9-1924  
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
<b>C-14</b> 520.08	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/15/88	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/10/88	13,000	29,000	2,700	18	120,000	---	---	---	---	---	---	---	13.39	0.00	506.69
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.65	0.00	505.43
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	13.47	0.00	506.61
	10/13/88	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	13.58	0.00	506.50
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	13.00	0.00	507.08
	01/12/89	ND	ND	ND	ND	NS	---	---	---	---	---	---	---	---	---	---
	04/12/89	ND	ND	ND	ND	NS	ND	ND	ND	---	---	---	---	13.47	0.00	506.61
	06/26/89	14,000	25,000	3,400	26,000	140,000	---	---	30	---	---	---	---	13.80	0.00	506.28
	10/13/89	12,000	16,000	1,600	13,000	86,000	---	---	---	---	---	---	---	13.62	0.00	506.46
	01/03/90	9,500	16,000	1,800	13,000	120,000	---	---	25	3	---	---	---	13.91	0.00	506.17
	01/04/90	3,900	8,100	1,200	7,700	76,000	---	---	18	1	---	---	---	13.91	0.00	506.17
	05/08/90	7,500	17,000	1,400	14,000	62,000	---	---	13	---	ND	ND	---	13.89	0.00	506.19
	09/27/90	---	---	---	---	---	---	---	---	---	---	---	---	13.78	0.00	506.30
	01/03/91	---	---	---	---	---	---	---	---	---	---	---	---	13.72	0.00	506.36
	04/12/91	750	3,800	720	9,200	60,000	---	---	ND	ND	ND	ND	ND	12.97	0.00	507.11
	09/04/91	2,800	11,000	1,300	13,000	110,000	---	---	---	---	---	---	---	13.84	0.00	506.24
04/06/92	190	1,800	440	5,100	41,000	---	---	ND	ND	ND	ND	ND	12.44	0.00	507.64	
07/28/92	2,300	9,700	1,800	15,000	130,000	---	---	---	---	---	---	---	13.70	0.00	506.38	
<b>C-15</b> 522.41	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	13.14	0.00	509.27
	03/15/88	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	15.13	0.00	507.28
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	15.40	0.00	507.01
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	16.49	0.00	505.92
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	15.17	0.00	507.24
	10/13/88	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	15.33	0.00	507.08
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	13.70	0.00	508.71
	01/12/89	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---	---
	04/12/89	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	15.34	0.00	507.07
	06/26/89	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	15.72	0.00	506.69
	10/13/89	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	15.96	0.00	506.45
	01/03/90	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	15.42	0.00	506.99
	05/08/90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	15.62	0.00	506.79
	09/27/90	ND	ND	ND	ND	ND	ND	ND	ND	2.9	ND	ND	---	15.59	0.00	506.82
	01/03/91	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	15.50	0.00	506.91
	04/12/91	---	---	---	---	---	---	---	---	---	---	---	---	15.21	0.00	507.20
	09/04/91	---	---	---	---	---	---	---	---	---	---	---	---	15.90	0.00	506.51
	04/06/92	ND	ND	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	14.88	0.00	507.53
07/28/92	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	15.82	0.00	506.59	

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

CHEVRON SERVICE STATION #9-1924  
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-16 519.68	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/15/88	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/10/88	1,000	73	140	180	4,500	---	---	---	---	---	---	---	13.78	0.00	505.90
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.88	0.00	504.80
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	13.69	0.00	505.99
	10/13/88	16	5.5	ND	16	1,600	---	---	---	---	---	---	---	13.80	0.00	505.88
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	13.45	0.00	506.23
	01/12/89	360	11	78	51	1,000	---	---	---	---	---	---	---	---	---	---
	04/11/89	130	4	21	19	15,800	ND	8	---	---	---	---	---	13.78	0.00	505.90
	06/26/89	170	8	37	43	1,300	ND	ND	---	---	---	---	---	14.02	0.00	505.66
	10/13/89	20	ND	7	ND	1,000	ND	ND	---	---	---	---	---	14.01	0.00	505.67
	01/03/90	150	3	41	24	1,300	---	5	---	---	---	---	---	13.97	0.00	505.71
	05/07/90	49	4.4	29	13	480	---	4.5	ND	ND	---	---	---	14.45	0.00	505.23
	09/29/90	18	2.1	11	8.0	360	---	1.8	ND	ND	ND	ND	---	14.32	0.00	505.36
	01/03/91	12	ND	6	6	230	---	2	ND	0.8	ND	ND	ND	13.96	0.00	505.72
	04/12/91	---	---	---	---	---	---	---	---	---	---	---	---	13.74	0.00	505.94
	09/04/91	---	---	---	---	---	---	---	---	---	---	---	---	14.22	0.00	505.46
04/06/92	30	ND	14	12.0	360	---	1.0	ND	ND	ND	ND	ND	13.18	0.00	506.50	
07/28/92	---	ND	6.8	16	210	---	---	---	---	---	---	---	13.93	0.00	505.75	
C-17 520.82	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	13.48	0.00	507.34
	03/15/88	---	---	---	---	---	---	---	---	---	---	---	---	14.76	0.00	506.06
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	14.77	0.00	506.05
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	15.84	0.00	504.98
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	14.63	0.00	506.19
	10/13/88	18	900	760	5,500	270,000	---	---	---	---	---	---	---	14.83	0.00	505.99
	01/01/89	---	---	---	---	---	---	---	---	---	---	---	---	14.78	0.00	506.04
	01/12/89	ND	490	2,100	6,700	190,000	---	---	---	---	---	---	---	---	---	---
	04/11/89	30	150	320	1,000	27,000	6.0	ND	---	---	---	---	---	14.83	0.00	505.99
	06/26/89	50	390	660	2,000	20,000	ND	ND	---	---	---	---	---	15.03	0.00	505.79
	06/26/89	40	420	740	2,200	27,000	---	ND	---	---	---	---	---	15.03	0.00	505.79
	10/13/89	ND	48	230	480	17,000	ND	ND	---	---	---	---	---	15.02	0.00	505.80
	01/03/90	ND	29	120	210	14,000	---	ND	---	---	---	---	---	15.10	0.00	505.72
	05/08/90	25	130	210	470	9,500	---	ND	---	---	---	---	---	15.12	0.00	505.70
	09/29/90	ND	ND	ND	ND	ND	---	ND	ND	ND	1.9	ND	---	14.99	0.00	505.83
	09/29/90	ND	3.4	ND	ND	ND	---	ND	ND	1.8	1.9	ND	---	14.99	0.00	505.83
	01/03/91	ND	28	56	140	3,700	---	ND	ND	1.8	1.9	ND	ND	14.92	0.00	505.90
	01/03/91	ND	10	59	150	8,600	---	ND	ND	ND	ND	ND	ND	14.92	0.00	505.90
	04/12/91	ND	5	47	120	8,600	---	ND	ND	ND	ND	ND	ND	14.71	0.00	506.11
	04/12/91	ND	11	48	120	4,400	---	ND	ND	ND	ND	ND	ND	14.71	0.00	506.11
09/04/91	ND	27	49	79	5,800	---	ND	ND	ND	ND	ND	ND	15.17	0.00	505.65	
09/04/91	ND	21	36	61	4,100	---	ND	ND	ND	ND	ND	ND	15.17	0.00	505.65	
04/06/92	ND	5.8	27	29	2,300	---	ND	ND	ND	ND	ND	ND	14.14	0.00	506.68	
07/28/92	---	---	---	---	---	---	---	---	---	---	---	---	15.18	0.00	505.64	

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

CHEVRON SERVICE STATION #9-1924  
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-18 518.96	03/28/86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	03/15/88	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	05/10/88	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	06/10/88	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	07/25/88	---	---	---	---	---	---	---	---	---	---	---	---	14.89	0.00	504.07
	10/13/88	---	---	---	---	---	---	---	---	---	---	---	---	13.79	0.00	505.17
	01/01/89	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	13.86	0.00	505.10
	01/12/89	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	13.94	0.00	505.02
	04/11/89	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	0.00	518.96
	06/26/89	ND	ND	ND	ND	ND	ND	ND	3.6	---	---	---	---	14.86	0.00	504.10
	10/13/89	ND	ND	ND	ND	ND	ND	ND	3.1	---	---	---	---	14.02	0.00	504.94
	01/03/90	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	15.06	0.00	503.90
	05/07/90	ND	ND	ND	ND	ND	ND	ND	1	---	---	---	---	14.07	0.00	504.89
	09/27/90	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	14.01	0.00	504.95
	01/03/91	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND	ND	ND	13.91	0.00	505.05
	04/12/91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.98	0.00	504.98
	09/04/91	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.83	0.00	505.13
04/06/92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.20	0.00	504.76	
07/28/92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.07	0.00	505.89	
													13.55	0.00	505.41	

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

CHEVRON SERVICE STATION #9-1924  
4904 SOUTHFRONT ROAD, LIVERMORE, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-19 520.99	03/28/86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/15/88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/10/88	1,400	360	350	1,300	18	--	--	--	--	--	--	--	15.23	0.00	505.76
	06/10/88	--	--	--	--	--	--	--	--	--	--	--	--	16.58	0.00	504.41
	07/25/88	--	--	--	--	--	--	--	--	--	--	--	--	15.19	0.00	505.80
	10/13/88	8.3	4.7	4.4	ND	ND	--	--	--	--	--	--	--	15.27	0.00	505.72
	01/01/89	--	--	--	--	--	--	--	--	--	--	--	--	15.20	0.00	505.79
	01/12/89	5	4	ND	ND	ND	--	--	--	--	--	--	--	--	--	--
	04/11/89	1.8	ND	ND	ND	ND	ND	13	--	--	--	--	--	15.24	0.00	505.75
	04/11/89	1.2	ND	0.6	0.6	500	ND	14	--	--	--	--	--	15.24	0.00	505.75
	06/26/89	2.5	ND	ND	ND	500	ND	26	--	--	--	--	--	15.44	0.00	505.55
	10/13/89	ND	ND	ND	ND	540	ND	13	13	--	--	--	--	15.47	0.00	505.52
	01/03/90	1.2	0.7	1.3	0.9	ND	--	11	--	--	--	--	--	15.45	0.00	505.54
	05/07/90	ND	ND	ND	ND	ND	--	4.6	--	ND	--	ND	--	15.68	0.00	505.31
	09/28/90	ND	ND	ND	ND	ND	--	ND	ND	1.2	ND	ND	--	15.52	0.00	505.47
	01/03/91	ND	ND	ND	ND	66	--	1	ND	ND	ND	ND	0.9	15.56	0.00	505.43
	04/12/91	--	--	--	--	--	--	--	--	--	--	--	--	15.20	0.00	505.79
09/04/91	--	--	--	--	--	--	--	--	--	--	--	--	15.60	0.00	505.39	
04/06/92	0.7	ND	1.0	ND	110	--	1.9	ND	ND	ND	ND	ND	14.58	0.00	506.41	
07/28/92	1.4	ND	1.0	4.2	ND	--	--	--	--	--	--	--	15.26	0.00	505.73	

**Explanation**

TPH-G = Total Petroleum Hydrocarbons as Gasoline (ppb)  
 TOG = Total Oil & Grease (EPA Method 503D & 503E)  
 1,2-DCA = 1,2-Dichloroethane  
 MC = Methylene Chloride  
 TCA = 1,1,1-Trichloroethane  
 1,1-DCA = 1,1-Dichloroethane  
 PCE = Tetrachloroethene  
 OTHER = 5 ppb Carbon Disulfide detected in C-1 on 10-13-89  
 3 ppb Vinyl Chloride detected in C-14 on 1-3-90  
 1 ppb Vinyl Chloride detected in C-14 on 1-4-90  
 13 ppb Carbon Disulfide detected in C-19 on 10-13-89

SPT = Separate-phase hydrocarbon thickness  
 DTW = Depth to water  
 WTE = Water table elevation (adjusted WTE = well elevation - (DTW - (SPT x 0.8))  
 TOC = Top of casing  
 ND = Not detected at or above the minimum quantitation limit (MQL)  
 -- = Not sampled, not monitored, inaccessible  
 Top of casing and ground water elevations are expressed as feet above mean sea level (NGVD-1929).

**ATTACHMENT A**

**LABORATORY ANALYSES REPORTS**

**AND**

**CHAIN OF CUSTODY**



# Superior Precision Analytical, Inc.

835 Arnold Drive, Suite 106 • Martinez, California 94553 • (510) 229-0166 / fax (510) 229-0916

Groundwater Technology Inc.  
Attn: James W. Grasty

Project 02020-2886  
Reported 08/04/92

## TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
86333- 1	TB-LB	07/28/92	07/31/92 Water
86333- 2	RINSATE	07/28/92	07/31/92 Water
86333- 3	C-11	07/28/92	07/31/92 Water
86333- 4	C-12	07/28/92	08/03/92 Water
86333- 5	C-15	07/28/92	07/31/92 Water
86333- 6	C-18	07/28/92	08/01/92 Water
86333- 7	C-10	07/28/92	08/03/92 Water
86333- 8	C-13	07/28/92	08/01/92 Water
86333- 9	C-3	07/28/92	08/01/92 Water
86333-10	C-19	07/28/92	08/03/92 Water

## RESULTS OF ANALYSIS

Laboratory Number:	86333- 1	86333- 2	86333- 3	86333- 4	86333- 5
--------------------	----------	----------	----------	----------	----------

Gasoline:	ND<50	ND<50	ND<50	ND<50	ND<50
Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Toluene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Xylenes:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number:	86333- 6	86333- 7	86333- 8	86333- 9	86333-10
--------------------	----------	----------	----------	----------	----------

Gasoline:	ND<50	ND<50	60	80	ND<50
Benzene:	ND<0.5	ND<0.5	8.2	ND<0.5	1.4
Toluene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	0.5	1.0
Xylenes:	ND<0.5	ND<0.5	1.1	1.1	4.2
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L



# Superior Precision Analytical, Inc.

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Groundwater Technology Inc.  
Attn: James W. Grasty

Project 02020-2886  
Reported 08/04/92

## TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
86333-11	C-8	07/28/92	08/01/92 Water
86333-12	C-16	07/28/92	08/01/92 Water
86333-13	C-5	07/28/92	08/01/92 Water
86333-14	C-1	07/28/92	08/03/92 Water
86333-15	C-2	07/28/92	08/03/92 Water
86333-16	C-17	07/28/92	08/01/92 Water
86333-17	C-7	07/28/92	08/01/92 Water
86333-18	C-9	07/28/92	08/01/92 Water
86333-19	C-14	07/28/92	08/03/92 Water
86333-20	C-6	07/28/92	08/03/92 Water

## RESULTS OF ANALYSIS

Laboratory Number:	86333-11	86333-12	86333-13	86333-14	86333-15
--------------------	----------	----------	----------	----------	----------

Gasoline:	90	210	130	4200	1000
Benzene:	ND<0.5	31	15	47	5.2
Toluene:	ND<0.5	ND<0.5	ND<0.5	110	2.9
Ethyl Benzene:	ND<0.5	6.8	1.8	96	26
Xylenes:	0.8	16	0.5	260	16
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number:	86333-16	86333-17	86333-18	86333-19	86333-20
--------------------	----------	----------	----------	----------	----------

Gasoline:	11000	2000	1000	130000	120000
Benzene:	99	120	6.5	2300	220
Toluene:	180	3.4	2.4	9700	1100
Ethyl Benzene:	170	110	17	1800	3000
Xylenes:	430	110	37	15000	13000
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L





# Superior Precision Analytical, Inc.

835 Arnold Drive, Suite 106 • Martinez, California 94553 • (510) 229-0166 / fax (510) 229-0916

## 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 3 of 3  
QA/QC INFORMATION  
SET: 86333

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 SW-846 Method 8015 for Extractable Hydrocarbons:  
Minimum Quantitation Limit for Diesel in Water: 50ug/L

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:  
Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE  
Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	200 ng	103/100	3%	70-130
Benzene:	200 ng	88/85	3%	70-130
Toluene:	200 ng	90/87	3%	70-130
Ethyl Benzene:	200 ng	92/91	1%	70-130
Xylenes:	200 ng	91/89	2%	70-130

Richard Srna, Ph.D.

*Alomina V. Jankovic* (for)  
Laboratory Director

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

86333 Chain-of-Custody-Record Page 1

Chevron Facility Number 9-1924  
 Facility Address 4904 Southfront St Livermore  
 Consultant Project Number 02020-2886  
 Consultant Name Groundwater Technology  
 Address 1401 Halcyon W. Sacramento 95691  
 Project Contact (Name) Jim Grasty  
 (Phone) 916-372-4700 (Fax Number) 916-372-8781

Chevron Contact (Name) Clint Rogers  
 (Phone) 510-842-8658  
 Laboratory Name Superior Analytical  
 Laboratory Release Number 4611220  
 Samples Collected by (Name) J. McIntosh  
 Collection Date 7-28-92  
 Signature John McIntosh

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

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type C = Grab D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analysis To Be Performed											NOTE: Do NOT BILL TB-LB SAMPLES				
								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)								Remarks
TB-LB	1	2	W	G	1340	HCL	Y	✓														*	
Rinsate	2	2			1350																		
C-11	3	3			1400																		
C-12	4	3			1410																		
C-15	5	3			1420																		
C-18	6	3			1430																		
C-10	7	3			1440																		
C-13	8	3			1450																		
C-3	9	3			1500																		
C-19	10	3			1510																		
C-8	11	3			1520																		
C-16	12	3			1530																		
C-5		3			1540																		
C-1		3			1550																		

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

Relinquished By (Signature) <u>J. McIntosh</u>	Organization <u>02320</u>	Date/Time <u>7/28/92</u>	Received By (Signature) <u>[Signature]</u>	Organization <u>ST</u>	Date/Time <u>7/28</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 6 Days 10 Days As Contracted
Relinquished By (Signature) <u>[Signature]</u>	Organization <u>ST</u>	Date/Time <u>7/29</u>	Received By (Signature) <u>Am Lab 584</u>	Organization <u>Emmen St</u>	Date/Time <u>7/29 1020</u>	
Relinquished By (Signature) <u>Am Lab 584</u>	Organization <u>Emmen St</u>	Date/Time <u>7/29 1150</u>	Received For Laboratory By (Signature) <u>[Signature]</u>		Date/Time <u>7/29/92 16:07</u>	

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

86333 Chain-of-Custody-Record Page 2

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

Chevron Facility Number 9-1924  
 Facility Address 0  
 Consultant Project Number 02020-2986  
 Consultant Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Project Contact (Name) \_\_\_\_\_  
 (Phone) \_\_\_\_\_ (Fax Number) \_\_\_\_\_

Chevron Contact (Name) \_\_\_\_\_  
 (Phone) \_\_\_\_\_  
 Laboratory Name \_\_\_\_\_  
 Laboratory Release Number 4611220  
 Samples Collected by (Name) \_\_\_\_\_  
 Collection Date \_\_\_\_\_  
 Signature \_\_\_\_\_

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type C = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed										NOTE: Do NOT BILL TB-LB SAMPLES			
								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)						
C-2		3	W	G	1600	HCL	Y	✓													
C-17		↓	↓	↓	1610	↓	↓	↓													
C-7		↓	↓	↓	1620	↓	↓	↓													
C-9		↓	↓	↓	1630	↓	↓	↓													
C-14		↓	↓	↓	1640	↓	↓	↓													
C-6 <i>Surf</i>		↓	↓	↓	1650	↓	↓	↓													

Please Initial: \_\_\_\_\_  
 Samples Stored in ice: \_\_\_\_\_  
 Appropriate containers \_\_\_\_\_  
 Samples preserved \_\_\_\_\_  
 VOC's without headspace \_\_\_\_\_  
 Comments: \_\_\_\_\_

*Initials:*  
 [Handwritten initials]

Relinquished By (Signature) <i>[Signature]</i>	Organization 02320	Date/Time 7/20/92	Received By (Signature) <i>[Signature]</i> 584	Organization Epress It	Date/Time 7/29/92 1:00	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <input checked="" type="radio"/> As Contracted
Relinquished By (Signature) <i>[Signature]</i> 584	Organization Epress It	Date/Time 7/29 11:50	Received By (Signature) <i>[Signature]</i>	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <i>[Signature]</i>	Date/Time 7/29/92 11:00		