



Chevron

March 29, 1994

Chevron U.S.A. Products Company

2410 Camino Ramon
San Ramon, CA 94583
P.O. Box 5004
San Ramon, CA 94583-0804

Marketing Department

Phone 510 842 9500

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

Re: Former Chevron Station # 9-5607, 5269 Crow Canyon Road, Castro Valley, CA
Attached groundwater monitoring report (GTI, 12/2/93)
Attached groundwater monitoring report (GTI, 3/25/94)

Dear Mr. Seery:

Attached are reports dated December 2, 1993 and March 25, 1994, which were prepared by Chevron's consultant, Groundwater Technology Inc. (GTI), to describe quarterly groundwater monitoring performed at the subject site on October 25, 1993 and January 21, 1994.

The measured groundwater gradient direction in October was toward the southwest. Ten of the site monitoring wells were sampled and analyzed for the presence of TPHGas and BTEX constituents. The detected levels of dissolved hydrocarbons were consistent with those detected during previous site monitoring events.

In January the measured direction of groundwater flow was again, toward the southwest. Fifteen of the sixteen site monitoring wells were sampled and analyzed for the presence of TPHGas and BTEX constituents. The measured concentrations of dissolved hydrocarbons were similar to those detected during previous site monitoring events.

Based on the latest groundwater data it still seems appropriate to expand the existing groundwater extraction system. A brief report describing the planned expansion and implementation schedule will be sent to your agency by June 1, 1994.

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

Sincerely,

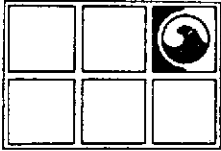
Brett L. Hunter
Environmental Engineer
Site Assessment and Remediation

94 MAR 30 PM 2:20
HAZMAT
ALCO



Attachments

cc: Rich Hiatt, San Francisco Bay RWQCB, Oakland, CA
Kevin Hinckley, 5269 Crow Canyon Road, Castro Valley, CA 94546
Bette Owen, Chevron USA, Products Company, San Ramon, CA (w/o attachments)



GROUNDWATER TECHNOLOGY, INC.

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

FAX (916) 372-8781

December 2, 1993

Project No. 02070 4228

Mr. Brett L. Hunter
Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583-0804

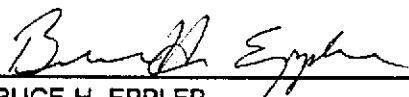
**RE: QUARTERLY MONITORING AND SAMPLING ACTIVITIES
FORMER CHEVRON SERVICE STATION 9-5607
5269 CROW CANYON ROAD
CASTRO VALLEY, CALIFORNIA**

Dear Mr. Hunter:

Groundwater Technology, Inc. submits this letter as a summary of quarterly groundwater monitoring and sampling data collected at the above-referenced site on October 25, 1993. Fifteen of the sixteen site-related groundwater monitoring wells were gauged to determine depth to groundwater (DTW) and to check for the presence of separate-phase petroleum hydrocarbons (SP). **Monitoring well MW-9 could not be gauged or sampled because a pump is deployed in the well.** A potentiometric surface map (Figure 1) and a summary of groundwater monitoring data (Table 1) are included. After measuring DTW, the wells were 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 I. All purge water generated during the sampling process was processed through the on-site groundwater treatment system.

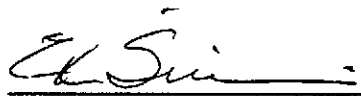
Groundwater Technology, Inc. is pleased to assist Chevron on this project. If you have any questions or comments please call our West Sacramento office.

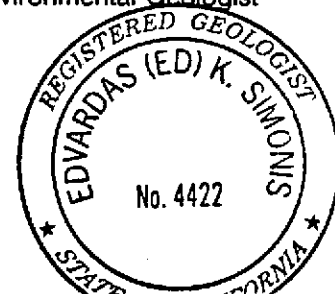
Sincerely,
Groundwater Technology, Inc.
Written/Submitted by

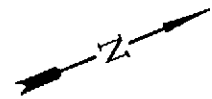
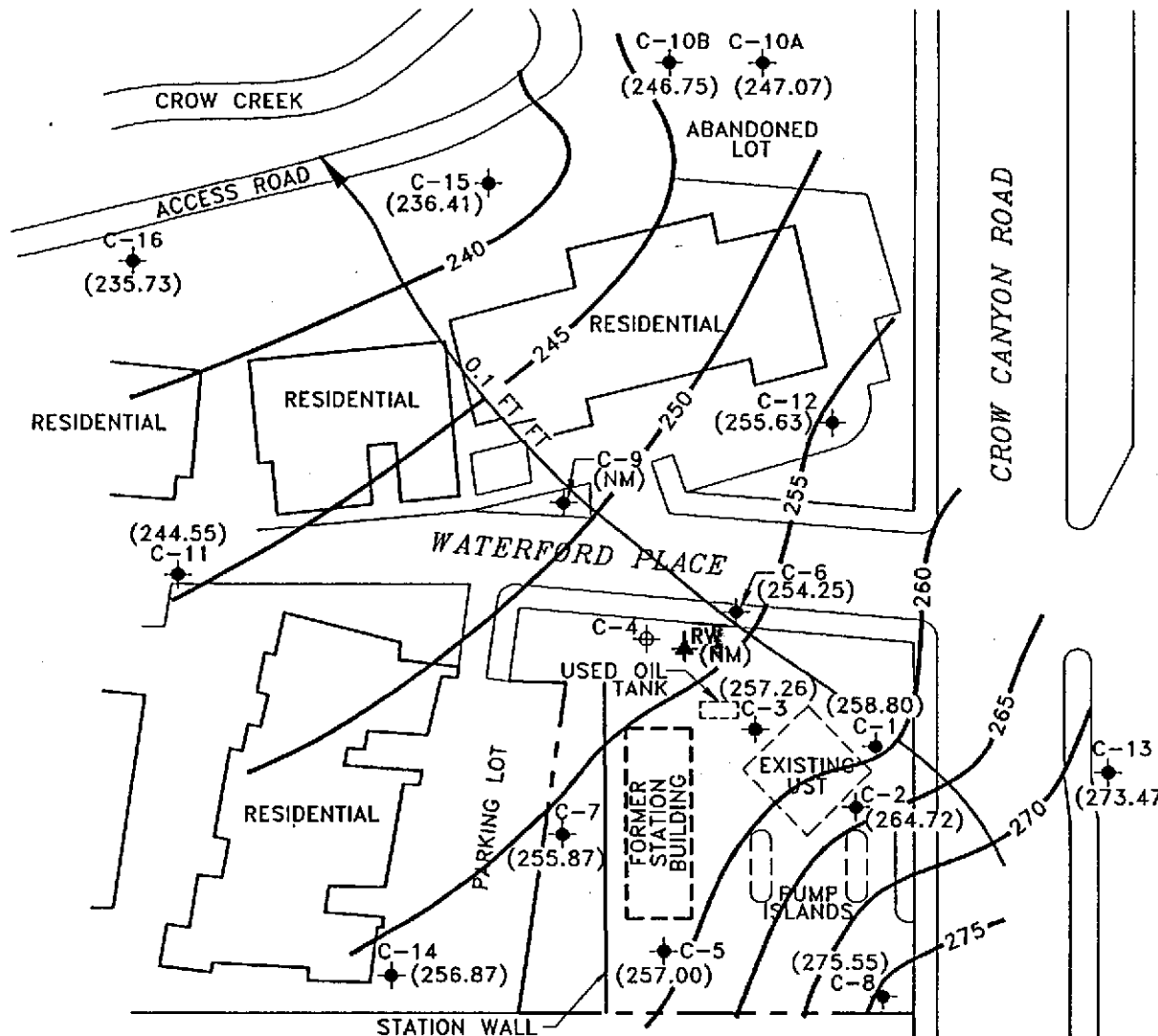

BRUCE H. EPPLER
Environmental Geologist
Project Manager

PR DSB
DSB/BHE/EKS:rz
Attachments
4228QTR4.LTR

Groundwater Technology, Inc.
Reviewed/Approved by


E. K. SIMONIS, R.G.
Senior Environmental Geologist





LEGEND

- PROPERTY LINE
- ◆ MONITORING WELL
- ★ RECOVERY WELL
- ⊕ ABANDONED MONITORING WELL
- () POTENTIOMETRIC SURFACE ELEVATION (FT.) (DATUM: MEAN SEA LEVEL)
- (NM) NOT MONITORED
- ~ POTENTIOMETRIC SURFACE CONTOUR INTERVAL = 5 FEET
- 0.1 FT/FT → ESTIMATED GROUNDWATER FLOW DIRECTION AND APPROXIMATE GRADIENT

NOTE: ALL STRUCTURES AND UNDERGROUND GASOLINE STORAGE TANKS HAVE BEEN REMOVED AND DASHED FOR CLARITY.



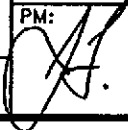

 GROUNDWATER TECHNOLOGY			CLIENT: CHEVRON U.S.A. PRODUCTS CO. FORMER S.S. NO. 9-5607		POTENTIOMETRIC SURFACE MAP OCTOBER 25, 1993	
FILE: 4228SMA/4228PSM	PROJECT NO.: 02070-4228	LOCATION: 5269 CROW CANYON ROAD CASTRO VALLEY, CALIFORNIA		PM: 	PE/RG: 	FIGURE: 1
REV.:	DES.: DSB	DET.: AJK	DATE: 11/23/93			

Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

FORMER CHEVRON SERVICE STATION NO. 9-5607
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-1 283.46	03/26/85	--	--	--	--	--	--	22.83	0.00	260.63
	07/03/86	--	--	--	--	--	--	23.58	0.00	259.88
	03/26/87	--	--	--	--	--	--	20.50	0.00	262.96
	03/28/88	--	--	--	--	--	--	26.00	0.00	257.46
	03/10/89	--	--	--	--	--	--	15.86	0.00	267.60
	04/03/89	--	--	--	--	--	--	16.85	0.00	266.61
	05/08/89	--	--	--	--	--	--	22.68	0.00	260.78
	06/05/89	--	--	--	--	--	--	24.66	0.00	258.80
	07/12/90	--	--	--	--	--	--	25.56	0.00	257.90
	08/10/90	--	--	--	--	--	--	25.89	0.00	257.57
	09/13/89	3,600	1,100	1,000	3,500	22,000	--	26.55	0.00	256.91
	10/04/89	--	--	--	--	--	--	25.24	0.00	258.22
	11/03/89	--	--	--	--	--	--	25.03	0.00	258.43
	12/04/89	2,000	550	610	1,600	13,000	--	26.37	0.00	257.09
	03/07/90	--	--	--	--	--	--	22.48	0.00	260.98
	03/09/90	--	--	--	--	--	--	--	--	--
	06/12/90	3,500	1,400	840	4,000	21,000	--	24.35	0.00	259.11
	09/20/90	2,100	1,200	860	5,000	23,000	--	26.27	0.00	257.19
	12/20/90	760	410	260	1,100	8,200	--	22.59	0.00	260.87
	03/27/91	--	--	--	--	--	--	19.08	0.00	264.38
	06/18/91	--	--	--	--	--	--	27.11	0.00	256.35
	09/12/91	--	--	--	--	--	--	26.22	0.00	255.24
	01/23/92	--	--	--	--	--	--	26.65	0.00	256.81
04/13/92	3,100	1,300	850	3,100	38,000	--	22.16	0.00	261.30	
08/03/92	1,300	470	550	1,600	13,000	ND	26.15	0.00	257.31	
10/22/92	3,500	1,400	1,500	4,300	24,000	--	26.79	0.00	256.67	
01/18/93	6,900	8,900	3,100	23,000	370,000	--	18.60	0.00	264.86	
04/19/93	8,000	7,000	1,400	10,000	51,000	--	21.12	0.00	262.34	
07/21, 22/93	3,400	1,000	990	3,100	22,000	--	23.28	0.00	260.18	
10/25/93	2,000	550	790	2,300	14,000	--	24.66	0.00	258.80	
C-2 284.37	03/26/85	--	--	--	--	--	--	--	--	--
	07/03/86	--	--	--	--	--	--	19.69	0.00	264.68
	03/26/87	--	--	--	--	--	--	15.45	0.00	268.92
	03/28/88	--	--	--	--	--	--	20.92	0.00	263.45
	03/10/89	--	--	--	--	--	--	12.80	0.00	271.57
	04/03/89	--	--	--	--	--	--	14.26	0.00	270.11
	05/08/89	--	--	--	--	--	--	18.42	0.00	265.95
	06/05/89	--	--	--	--	--	--	20.09	0.00	264.28
	07/12/90	--	--	--	--	--	--	20.79	0.00	263.58
	08/10/90	--	--	--	--	--	--	21.40	0.00	262.97
	09/13/89	62	4	10	14	320	--	21.86	0.00	262.51
	10/04/89	--	--	--	--	--	--	19.89	0.00	264.48
	11/03/89	--	--	--	--	--	--	20.76	0.00	263.61
	12/04/89	240	37	66	130	1,000	--	20.82	0.00	263.55
	03/07/90	--	--	--	--	--	--	17.83	0.00	266.54
	03/09/90	280	35	27	50	390	--	17.83	0.00	266.54
	06/12/90	260	34	28	55	700	--	19.89	0.00	264.48
	09/20/90	--	--	--	--	--	--	21.97	0.00	262.40
	12/20/90	--	--	--	--	--	--	17.73	0.00	266.64
	03/27/91	--	--	--	--	--	--	15.10	0.00	269.27
	06/18/91	--	--	--	--	--	--	22.68	0.00	261.69
	09/12/91	--	--	--	--	--	--	23.92	0.00	260.45
	01/23/92	--	--	--	--	--	--	21.24	0.00	263.13
04/13/92	120	76	17	72	1,100	--	17.54	0.00	266.83	
08/03/92	--	--	--	--	--	--	22.05	0.00	262.32	
10/22/92	--	--	--	--	--	--	23.03	0.00	261.34	
01/18/93	6.4	ND	ND	ND	70	--	14.86	0.00	269.51	
04/19/93	--	--	--	--	--	--	16.80	0.00	267.57	
07/21, 22/93	--	--	--	--	--	--	19.25	0.00	265.12	
10/25/93	--	--	--	--	--	--	19.65	0.00	264.72	

Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

FORMER CHEVRON SERVICE STATION NO. 9-5607
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-3 285.98	03/26/85	---	---	---	---	---	---	---	---	---
	07/03/86	---	---	---	---	---	---	26.04	0.00	259.94
	03/26/87	---	---	---	---	---	---	25.64	0.00	260.34
	03/28/88	---	---	---	---	---	---	28.82	0.00	257.16
	03/10/89	---	---	---	---	---	---	22.78	0.00	263.20
	04/03/89	---	---	---	---	---	---	22.71	0.00	263.27
	05/08/89	---	---	---	---	---	---	25.95	0.00	260.03
	06/05/89	---	---	---	---	---	---	27.62	0.00	258.36
	07/12/90	---	---	---	---	---	---	28.29	0.00	257.69
	08/10/90	---	---	---	---	---	---	28.46	0.00	257.52
	09/13/89	1,400	6,800	2,300	10,000	60,000	---	29.33	0.00	256.65
	10/04/89	---	---	---	---	---	---	28.97	0.00	257.01
	11/03/89	---	---	---	---	---	---	28.72	0.00	257.26
	12/04/89	1,300	3,300	1,400	2,700	56,000	---	29.01	0.00	256.97
	03/07/90	---	---	---	---	---	---	27.69	0.00	258.29
	03/09/90	1,100	5,700	1,600	7,900	42,000	---	27.69	0.00	258.29
	06/12/90	1,400	7,100	3,400	16,000	160,000	---	28.09	0.00	257.89
	09/24/90	850	7,700	2,000	10,000	53,000	---	29.18	0.00	256.80
	12/20/90	1,200	5,400	5,400	33,000	520	---	28.27	0.00	257.71
	03/27/91	1,300	3,100	1,200	11,000	92,000	---	24.80	0.00	261.18
	06/18/91	---	---	---	---	---	---	30.84	0.00	255.14
	09/12/91e	---	---	---	---	---	---	31.64	0.03	254.34
	01/23/92	---	---	---	---	---	---	30.52	SHEEN	255.46
	04/13/92e	---	---	---	---	---	---	26.94	0.01	259.04
	08/03/92	1,300	2,800	3,100	17,000	220,000	ND	30.00	0.00	255.98
10/22/92e	SP	SP	SP	SP	SP	---	30.62	0.03	255.38	
01/18/93	2,400	5,300	10,000	61,000	1,000,000	---	23.91	0.00	262.07	
04/19/93	33,000	22,000	1,600	9,200	94,000	---	25.00	0.00	260.98	
07/21,22/93	2,600	5,500	1,300	6,900	44,000	---	26.55	0.00	259.43	
10/25/93	3,900	2,400	1,100	6,600	35,000	---	26.72	0.00	257.26	
C-4 273.01	03/26/85	---	---	---	---	---	---	15.14	0.00	257.87
	07/03/86	---	---	---	---	---	---	15.37	0.00	257.64
	03/26/87	---	---	---	---	---	---	---	---	---
	03/28/88	---	---	---	---	---	---	18.04	0.00	254.97
	03/10/89	---	---	---	---	---	---	---	---	---
	04/03/89	---	---	---	---	---	---	13.34	0.00	259.67
	05/08/89	---	---	---	---	---	---	15.60	0.00	257.41
	06/05/89	---	---	---	---	---	---	16.51	0.00	256.50
	07/12/90	---	---	---	---	---	---	16.99	0.00	256.02
	08/10/90	---	---	---	---	---	---	17.27	0.00	255.74
	09/13/89	21,000	3,100	3,200	11,000	57,000	---	18.16	0.00	254.85
	10/04/89	---	---	---	---	---	---	18.24	0.00	254.77
	11/03/89	---	---	---	---	---	---	18.17	0.00	254.84
	12/04/89	17,000	2,200	2,800	9,800	48,000	---	18.45	0.00	254.56
	03/07/90	---	---	---	---	---	---	17.20	0.00	255.81
	03/09/90	20,000	2,300	2,800	11,000	43,000	---	17.20	0.00	255.81
	06/12/90	21,000	2,400	4,000	16,000	82,000	---	16.66	0.00	256.35
	09/24/90	---	---	---	---	---	---	18.11	0.00	254.90
12/20/90b	---	---	---	---	---	---	---	---	---	

Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

FORMER CHEVRON SERVICE STATION NO. 9-5607
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-5 287.95	03/26/85	--	--	--	--	--	--	25.33	0.00	262.62
	07/03/86	--	--	--	--	--	--	26.41	0.00	261.54
	03/26/87	--	--	--	--	--	--	24.96	0.00	262.99
	03/28/88	--	--	--	--	--	--	29.80	0.00	258.15
	03/10/89	--	--	--	--	--	--	25.89	0.00	262.06
	04/03/89	--	--	--	--	--	--	24.38	0.00	283.57
	05/08/89	--	--	--	--	--	--	27.80	0.00	260.15
	06/05/89	--	--	--	--	--	--	29.42	0.00	258.53
	07/12/90	--	--	--	--	--	--	29.86	0.00	258.09
	08/10/90	--	--	--	--	--	--	29.77	0.00	258.18
	09/13/89	ND	ND	ND	ND	310	--	30.95	0.00	257.00
	10/04/89	--	--	--	--	--	--	31.48	0.00	256.47
	11/03/89	--	--	--	--	--	--	31.32	0.00	256.63
	12/04/89	ND	ND	ND	ND	ND	--	31.70	0.00	256.25
	03/07/90	--	--	--	--	--	--	30.28	0.00	257.67
	03/09/90	ND	ND	ND	ND	ND	ND	30.28	0.00	257.67
	06/12/90	ND	ND	ND	ND	ND	90	30.48	0.00	257.47
	09/24/90	ND	ND	ND	ND	ND	ND	31.78	0.00	256.17
	12/20/90	ND	ND	1.0	0.7	170	--	33.29	0.00	254.66
	03/27/91	--	--	--	--	--	--	27.98	0.00	259.97
	06/18/91	--	--	--	--	--	--	32.52	0.00	255.43
	09/12/91	--	--	--	--	--	--	33.37	0.00	254.58
	01/23/92	--	--	--	--	--	--	32.67	0.00	255.28
	04/13/92	ND	ND	0.7	ND	140	--	28.48	0.00	259.47
	08/03/92	ND	ND	ND	ND	ND	ND	32.50	0.00	255.45
10/22/92	--	--	--	--	--	--	33.98	0.00	263.97	
01/18/93	6.6	2.2	3.4	2.2	230	--	27.02	0.00	260.93	
04/19/93	--	--	--	--	--	--	24.81	0.00	283.14	
07/21,22/93	ND	0.6	ND	ND	130	--	29.06	0.00	258.89	
10/25/93	--	--	--	--	--	--	30.95	0.00	257.00	
C-6 275.28	03/26/85	--	--	--	--	--	--	16.74	--	--
	07/03/86	--	--	--	--	--	--	17.46	0.00	257.82
	03/26/87	--	--	--	--	--	--	18.37	0.00	256.91
	03/28/88	--	--	--	--	--	--	29.84	0.00	245.44
	03/10/89	--	--	--	--	--	--	14.44	0.00	260.84
	04/03/89	--	--	--	--	--	--	14.44	0.00	260.84
	05/08/89	--	--	--	--	--	--	17.16	0.00	258.12
	06/05/89	--	--	--	--	--	--	18.51	0.00	256.77
	07/12/90	--	--	--	--	--	--	18.71	0.00	256.57
	08/10/90	--	--	--	--	--	--	19.32	0.00	255.96
	09/13/89	5,600	3,000	2,400	10,000	47	--	19.95	0.00	255.33
	10/04/89	--	--	--	--	--	--	19.87	0.00	255.41
	11/03/89	--	--	--	--	--	--	19.35	0.00	255.93
	12/04/89	8,100	1,800	1,700	7,500	40,000	--	19.59	0.00	255.89
	03/07/90	--	--	--	--	--	--	18.39	0.00	256.89
	03/09/90	23,000	5,900	3,400	17,000	73,000	--	18.39	0.00	256.89
	06/12/90	19,000	6,500	3,400	16,000	85,000	--	18.87	0.00	256.41
	09/24/90	15,000	3,200	2,600	11,000	72,000	--	19.99	0.00	255.29
	12/20/90	11,000	4,200	3,400	16,000	100,000	--	21.57	0.00	253.71
	03/27/91	11,000	4,400	2,300	11,000	100,000	--	16.32	0.00	258.96
	06/18/91	--	--	--	--	--	--	23.33	0.00	251.95
	09/12/91	--	--	--	--	--	--	23.96	0.00	251.32
	01/23/92	--	--	--	--	--	--	12.08	0.00	263.20
	04/13/92	--	--	--	--	--	--	19.85	SHEEN	255.43
	08/03/92	16,000	1,100	2,300	15,000	120,000	ND	14.72	0.00	260.56
10/22/92	7,400	920	1,800	14,000	63,000	--	14.91	0.00	260.37	
01/18/93	13,000	1,600	2,700	12,000	77,000	--	15.44	0.00	259.84	
04/19/93	14,000	1,100	2,400	9,100	56,000	--	9.25	0.00	266.03	
07/21,22/93	6,600	610	1,500	5,800	38,000	--	17.35	0.00	257.93	
10/25/93	11,000	800	2,200	8,200	42,000	--	21.03	0.00	254.25	

Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

FORMER CHEVRON SERVICE STATION NO. 9-5607
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-7 270.70	03/26/85	---	---	---	---	---	---	9.61	---	---
	07/03/86	---	---	---	---	---	---	10.74	0.00	259.96
	03/26/87	---	---	---	---	---	---	10.08	0.00	260.62
	03/28/88	---	---	---	---	---	---	13.79	0.00	256.91
	03/10/89	---	---	---	---	---	---	10.42	0.00	260.28
	04/03/89	---	---	---	---	---	---	9.14	0.00	261.56
	05/08/89	---	---	---	---	---	---	11.91	0.00	258.79
	06/05/89	---	---	---	---	---	---	11.54	0.00	259.16
	07/12/90	---	---	---	---	---	---	13.45	0.00	257.25
	08/10/90	---	---	---	---	---	---	13.37	0.00	257.33
	09/13/89	1.3	ND	10	ND	410	---	14.60	0.00	256.10
	10/04/89	---	---	---	---	---	---	15.17	0.00	255.53
	11/03/89	---	---	---	---	---	---	15.28	0.00	255.42
	12/04/89	1	ND	5	ND	1,000	---	15.70	0.00	255.00
	03/07/90	---	---	---	---	---	---	14.22	0.00	256.48
	03/09/90	2.8	2.4	3.5	2	590	---	14.22	0.00	256.48
	06/12/90	ND	5	8.2	3.2	1,200	---	14.18	0.00	256.52
	09/24/90	1.4	1.9	1.4	2.2	400	---	15.44	SHEEN	255.26
	09/24/90D	ND	2.4	1.4	1.5	580	---	15.44	SHEEN	255.26
	12/20/90	ND	6.5	4.7	9.3	2,300	---	17.08	0.00	253.62
	03/27/91	ND	2.4	9.1	3	980	---	12.65	0.00	258.05
	06/18/91	---	---	---	---	---	---	16.44	0.00	254.26
	09/12/91	ND	3.1	6.5	2.7	1,200c	---	17.05	0.00	253.65
	01/23/92	---	---	---	---	---	---	16.92	0.00	253.78
04/13/92	ND	1	7.8	1.2	830	---	13.00	0.00	257.70	
08/03/92	---	---	---	---	---	---	---	---	---	
10/22/92b	---	---	---	---	---	---	---	---	---	
01/18/93b	---	---	---	---	---	---	---	---	---	
04/19/93b	---	---	---	---	---	---	---	---	---	
07/21, 22/93	0.9	3	4	4	890	---	12.94	0.00	257.76	
10/25/93	---	---	---	---	---	---	14.83	0.00	255.87	
C-8 288.40	03/26/85	---	---	---	---	---	---	8.68	---	---
	07/03/86	---	---	---	---	---	---	13.89	0.00	274.51
	03/26/87	---	---	---	---	---	---	6.01	0.00	282.39
	03/28/88	---	---	---	---	---	---	10.66	0.00	277.74
	03/10/89	---	---	---	---	---	---	6.61	0.00	281.79
	04/03/89	---	---	---	---	---	---	6.46	0.00	281.94
	05/08/89	---	---	---	---	---	---	8.97	0.00	279.43
	06/05/89	---	---	---	---	---	---	10.88	0.00	277.52
	07/12/90	---	---	---	---	---	---	12.15	0.00	276.25
	08/10/90	---	---	---	---	---	---	12.46	0.00	275.94
	09/13/89	ND	ND	ND	ND	ND	---	12.78	0.00	275.62
	10/04/89	---	---	---	---	---	---	12.51	0.00	275.89
	11/03/89	---	---	---	---	---	---	14.63	0.00	273.77
	12/04/89	0.6	0.6	ND	1	64	---	9.59	0.00	278.81
	03/07/90	---	---	---	---	---	---	8.80	0.00	279.60
	03/09/90	ND	ND	ND	ND	ND	---	8.80	0.00	279.60
	06/12/90	2.5	1.2	1	1.4	120	---	8.94	0.00	279.46
	09/24/90	---	---	---	---	---	---	13.54	0.00	274.86
	12/20/90	---	---	---	---	---	---	9.33	0.00	279.07
	03/27/91	0.7	ND	0.7	1.9	54	---	6.10	0.00	282.30
	06/18/91	---	---	---	---	---	---	11.96	0.00	276.44
	09/12/91	ND	ND	ND	ND	ND	---	13.60	0.00	274.80
	09/12/91 D	ND	ND	ND	ND	ND	---	13.60	0.00	274.80
	01/23/92	---	---	---	---	---	---	24.20	0.00	264.20
04/13/92	ND	ND	ND	ND	ND	---	8.35	0.00	280.05	
08/03/92	ND	ND	ND	ND	ND	---	12.58	0.00	275.82	
10/22/92	ND	ND	ND	ND	ND	---	13.10	0.00	275.30	
01/18/93	ND	ND	ND	ND	ND	---	6.12	0.00	282.28	
04/19/93	ND	ND	ND	ND	ND	---	7.05	0.00	281.35	
07/21, 22/93	ND	ND	ND	ND	ND	---	11.35	0.00	277.05	
10/25/93	ND	ND	ND	ND	ND	---	12.85	0.00	275.55	

Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

FORMER CHEVRON SERVICE STATION NO. 9-5607
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-9 268.46	07/03/86	---	---	---	---	---	---	13.89	0.00	254.57
	03/26/87	---	---	---	---	---	---	13.74	0.00	254.72
	03/28/88	---	---	---	---	---	---	14.99	0.00	253.47
	03/10/89	---	---	---	---	---	---	13.39	0.00	255.07
	04/03/89	---	---	---	---	---	---	12.84	0.00	255.62
	05/08/89	---	---	---	---	---	---	14.38	0.00	254.08
	06/05/89	---	---	---	---	---	---	15.36	0.00	253.10
	07/12/90	---	---	---	---	---	---	15.65	0.00	252.81
	08/10/90	---	---	---	---	---	---	15.80	0.00	252.66
	09/13/89	14,000	1,100	2,800	4,200	42,000	---	16.53	0.00	251.93
	10/04/89	---	---	---	---	---	---	16.52	0.00	251.94
	11/03/89	---	---	---	---	---	---	16.51	0.00	251.95
	12/04/89	11,000	670	2,500	3,800	36,000	---	16.79	0.00	251.67
	03/07/90	---	---	---	---	---	---	16.22	0.00	252.24
	03/09/90	12,000	940	3,000	4,700	28,000	---	16.22	0.00	252.24
	06/12/90	11,000	1,600	2,300	4,800	39,000	---	14.88	0.00	253.58
	09/24/90	13,000	1,600	3,700	6,800	120,000	---	16.30	0.00	252.16
	12/20/90	9,300	560	2,800	3,300	51,000	---	17.23	0.00	251.23
	12/20/90D	12,000	580	2,800	3,500	44,000	---	17.23	0.00	251.23
	03/27/91	3,400	5,000	1,600	5,600	56,000	---	13.78	0.00	254.68
	06/18/91	---	---	---	---	---	---	18.64	0.00	249.82
	09/12/91d	---	---	---	---	---	---	---	---	---
	01/23/92d	---	---	---	---	---	---	---	---	---
	04/13/92d	---	---	---	---	---	---	---	---	---
	08/03/92d	---	---	---	---	---	---	---	---	---
	10/22/92d	---	---	---	---	---	---	---	---	---
01/18/93d	---	---	---	---	---	---	---	---	---	
04/19/93d	---	---	---	---	---	---	---	---	---	
07/21,22/93d	---	---	---	---	---	---	---	---	---	
10/25/93d	---	---	---	---	---	---	---	---	---	
C-10A 264.84	03/07/90	---	---	---	---	---	---	20.21	0.00	244.63
	03/09/90	1.6	0.7	0.8	3.5	ND	---	---	---	---
	06/12/90	ND	ND	ND	ND	ND	---	19.70	0.00	245.14
	09/24/90	ND	ND	ND	ND	ND	---	19.54	0.00	245.30
	12/20/90	ND	ND	ND	ND	ND	---	19.84	0.00	245.00
	03/27/91	---	---	---	---	---	---	18.01	0.00	246.83
	06/18/91	ND	ND	ND	ND	ND	---	20.16	0.00	244.68
	09/12/91	ND	ND	ND	ND	ND	---	20.57	0.00	244.27
	01/23/92	ND	ND	ND	ND	ND	---	20.67	0.00	244.17
	04/13/92	0.9	1.3	ND	1	53	---	19.40	0.00	245.44
	08/03/92	ND	ND	ND	ND	ND	ND	19.81	0.00	245.03
	10/22/92	ND	ND	ND	0.5	ND	---	19.83	0.00	245.01
	01/18/93	ND	ND	ND	ND	ND	---	17.04	0.00	247.80
	04/19/93	ND	ND	ND	ND	ND	---	17.77	0.00	247.07
04/19/93	ND	ND	ND	ND	ND	---	17.56	0.00	247.28	
10/25/93	ND	ND	ND	ND	ND	---	17.77	0.00	247.07	

Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

FORMER CHEVRON SERVICE STATION NO. 9-5607
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-10B 264.85	03/07/90	---	---	---	---	---	---	21.44	0.00	243.41
	06/12/90	ND	ND	ND	ND	ND	---	19.94	0.00	244.91
	09/24/90	ND	ND	ND	ND	ND	---	19.77	0.00	245.08
	12/20/90	ND	ND	ND	ND	ND	---	20.00	0.00	244.85
	03/27/91	---	---	---	---	---	---	18.23	0.00	246.62
	06/18/91	---	---	---	---	---	---	20.44	0.00	244.41
	09/12/91	ND	ND	ND	ND	ND	---	20.82	0.00	244.03
	01/23/92	ND	ND	ND	ND	ND	---	20.92	0.00	243.93
	04/13/92	ND	ND	ND	ND	ND	---	19.68	0.00	245.17
	08/03/92	ND	ND	ND	ND	ND	ND	20.07	0.00	244.78
	10/22/92	ND	ND	ND	ND	ND	---	20.12	0.00	244.73
	01/18/93	3.3	11	2.1	8.9	60	---	17.36	0.00	247.49
	04/19/93	ND	ND	ND	ND	ND	---	17.90	0.00	246.95
	07/21,22/93	ND	ND	ND	ND	ND	---	17.86	0.00	246.99
10/25/93	ND	ND	ND	ND	ND	---	18.10	0.00	246.75	
C-11 265.30	03/07/90	---	---	---	---	---	---	22.74	0.00	242.56
	03/09/90	1.2	0.7	ND	1.4	ND	---	---	---	---
	06/12/90	ND	ND	ND	ND	ND	---	21.88	0.00	243.32
	09/24/90	ND	ND	ND	ND	ND	---	21.88	0.00	243.42
	12/20/90	ND	ND	ND	ND	ND	---	23.18	0.00	242.12
	03/27/91	ND	ND	ND	1.5	ND	---	21.52	0.00	243.78
	06/18/91	---	---	---	---	---	---	21.90	0.00	243.40
	09/12/91	ND	ND	ND	ND	ND	---	22.70	0.00	242.60
	01/23/92	ND	ND	ND	ND	ND	---	23.46	0.00	241.84
	04/13/92	ND	ND	ND	ND	ND	---	21.57	0.00	243.73
	08/03/92	ND	ND	ND	ND	ND	ND	22.67	0.00	242.63
	10/22/92	ND	ND	ND	ND	ND	---	23.29	0.00	242.01
	01/18/93	ND	1.2	ND	2.2	ND	---	21.36	0.00	243.94
	04/19/93	ND	ND	ND	ND	ND	---	19.97	0.00	245.33
07/21,22/93	ND	ND	ND	ND	ND	---	20.65	0.00	244.65	
10/25/93	ND	ND	ND	ND	ND	---	20.75	0.00	244.55	
C-12 269.66	03/07/90	---	---	---	---	---	---	14.92	0.00	254.74
	03/09/90	230	140	33	180	1,400	---	---	---	---
	06/12/90	190	71	18	73	720	---	14.79	0.00	254.87
	09/24/90	1.1	ND	ND	0.6	ND	---	15.72	0.00	253.94
	12/20/90	210	26	8.2	23	810	---	15.26	0.00	254.40
	03/27/91	350	220	52	210	2,900	---	12.11	0.00	257.55
	06/18/91	---	---	---	---	---	---	16.38	0.00	253.28
	09/12/91	59	12	4.5	8.5	350	---	17.55	0.00	252.11
	01/23/92	110	31	7.9	22	450	---	17.11	0.00	252.55
	04/13/92	1,100	76	100	200	5,000	---	14.40	0.00	255.26
	08/03/92	200	21	13	25	520	ND	15.83	0.00	253.83
	10/22/92	310	66	35	56	1,300	---	16.14	0.00	253.52
	01/18/93	1,200	430	220	610	5,600	---	11.70	0.00	257.96
	04/19/93	600	99	96	170	2,000	---	13.05	0.00	256.61
07/21,22/93	95	36	18	56	540	---	12.84	0.00	256.82	
10/25/93	90	29	20	50	350	---	14.03	0.00	255.63	

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FORMER CHEVRON SERVICE STATION NO. 9-5607
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-13 284.32	03/07/90	--	--	--	--	--	--	11.18	0.00	273.14
	03/09/90	15	3.7	1	6.2	ND	--	--	--	--
	06/12/90	2.6	ND	ND	ND	ND	--	10.70	0.00	273.62
	09/24/90	2.4	ND	ND	ND	ND	--	11.60	0.00	272.72
	12/20/90	1.6	ND	ND	ND	ND	--	10.16	0.00	274.16
	03/27/91	--	--	--	--	--	--	7.84	0.00	276.68
	06/18/91	--	--	--	--	--	--	11.32	0.00	273.00
	09/12/91	ND	ND	ND	ND	ND	--	11.84	0.00	272.48
	01/23/92	--	--	--	--	--	--	10.55	0.00	273.77
	04/13/92	1	ND	ND	ND	ND	--	10.96	0.00	273.96
	08/03/92	ND	ND	ND	ND	ND	ND	10.90	0.00	273.42
	10/22/92	--	--	--	--	--	--	11.18	0.00	273.14
	01/18/93	54	10	5.4	12	290	--	7.40	0.00	276.92
	04/19/93	--	--	--	--	--	--	8.93	0.00	275.99
	07/21,22/93	ND	ND	ND	ND	ND	--	10.75	0.00	273.57
10/25/93	--	--	--	--	--	--	10.85	0.00	273.47	
C-14 270.74	03/07/90	--	--	--	--	--	--	15.18	0.00	255.56
	03/09/90	ND	ND	ND	ND	ND	--	--	--	--
	06/12/90	ND	ND	ND	ND	ND	--	13.42	0.00	257.32
	09/24/90	ND	ND	ND	ND	ND	--	12.84	0.00	257.90
	12/20/90	1.7	0.7	ND	0.7	ND	--	16.72	0.00	254.02
	03/27/91	ND	ND	ND	1.3	ND	--	8.00	0.00	262.74
	06/18/91	--	--	--	--	--	--	15.21	0.00	255.53
	09/12/91	ND	ND	ND	ND	ND	--	15.61	0.00	255.13
	01/23/92	--	--	--	--	--	--	24.64	0.00	246.10
	04/13/92	ND	ND	ND	ND	ND	--	12.21	0.00	258.53
	08/03/92	ND	ND	ND	ND	ND	ND	14.64	0.00	256.10
	10/22/92	--	--	--	--	--	--	16.94	0.00	253.80
	01/18/93	ND	ND	ND	ND	ND	--	5.10	0.00	265.64
	04/19/93	--	--	--	--	--	--	6.88	0.00	263.86
	07/21,22/93	ND	ND	ND	ND	ND	--	11.16	0.00	259.58
10/25/93	--	--	--	--	--	--	13.87	0.00	256.87	
C-15 246.15	03/07/90	--	--	--	--	--	--	11.10	0.00	235.05
	03/09/90	ND	1.4	0.5	0.6	410	--	--	--	--
	06/12/90	11	ND	ND	ND	420	--	10.78	0.00	235.37
	09/24/90	ND	1.5	ND	ND	430	--	10.93	0.00	235.22
	12/20/90	1.3	1.1	0.6	1.5	300	--	11.08	0.00	235.07
	03/27/91	4.6	1.1	ND	1	520c	--	8.50	0.00	237.65
	06/18/91	ND	1.1	ND	ND	290	--	10.83	0.00	235.32
	06/18/91D	ND	1.3	ND	ND	320	--	10.83	0.00	235.32
	09/12/91	ND	0.9	ND	ND	330c	--	11.05	0.00	235.10
	01/23/92	ND	0.6	ND	ND	210	--	10.80	0.00	235.35
	01/23/92D	1.2	0.8	ND	ND	190	--	10.80	0.00	235.35
	04/13/92	1.8	ND	ND	ND	430	--	9.58	0.00	236.57
	08/03/92	ND	2.1	0.7	1.3	640	ND	11.21	0.00	234.94
	10/22/92	ND	ND	ND	0.8	420	--	11.65	0.00	234.50
	01/18/93	7.0	3.0	2.9	6.7	640	--	7.12	0.00	239.03
	04/19/93	6.0	2.0	0.7	ND	260c	--	8.93	0.00	237.22
	07/21,22/93	ND	8	ND	0.6	580f	--	9.78	0.00	236.37
10/25/93	ND	12	ND	0.6	240	--	9.74	0.00	236.41	

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FORMER CHEVRON SERVICE STATION NO. 9-5607
5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-16 246.69	03/07/90	--	--	--	--	--	--	18.50	0.00	228.19
	03/09/90	ND	ND	ND	ND	ND	--	--	--	--
	06/12/90	ND	ND	ND	ND	ND	--	11.42	0.00	235.27
	09/24/90	ND	ND	ND	ND	ND	--	11.39	0.00	235.30
	12/20/90	ND	ND	ND	0.7	ND	--	11.57	0.00	235.12
	03/27/91	ND	ND	ND	1.3	ND	--	8.76	0.00	237.93
	03/27/91 D	ND	ND	ND	1.2	ND	--	8.76	0.00	237.93
	06/18/91	ND	ND	ND	ND	ND	--	11.18	0.00	235.51
	09/12/91	ND	ND	ND	ND	ND	--	11.95	0.00	234.74
	01/23/92	ND	ND	ND	ND	ND	--	12.41	0.00	234.28
	04/13/92	ND	ND	ND	ND	ND	--	10.69	0.00	236.00
	08/03/92	ND	ND	ND	ND	ND	ND	12.20	0.00	234.49
	10/22/92	ND	ND	ND	ND	ND	--	12.60	0.00	234.09
	01/18/93	ND	ND	ND	ND	ND	--	9.00	0.00	237.69
	04/19/93	ND	ND	ND	ND	ND	--	9.89	0.00	236.80
	07/21, 22/93	ND	ND	ND	ND	ND	--	10.25	0.00	236.44
10/25/93	ND	ND	ND	ND	ND	--	10.96	0.00	235.73	
RW 274.52	12/04/89	29,000	1,700	1,800	8,800	62,000	--	--	--	--
	03/07/90	--	--	--	--	--	--	18.50	0.00	256.02
	06/12/90	15,000	2,000	560	3,100	31,000	--	18.49	0.00	256.03
	09/24/90	--	--	--	--	--	--	--	--	--
	12/20/90	0.5	ND	ND	1.2	ND	--	--	--	--
	03/27/91	--	--	--	--	--	--	--	--	--
	06/18/91	--	--	--	--	--	--	--	--	--
	09/12/91 a	--	--	--	--	--	--	--	--	--
	01/23/92 a	--	--	--	--	--	--	--	--	--
	04/13/92 a	--	--	--	--	--	--	--	--	--
	08/03/92 a	--	--	--	--	--	--	--	--	--
	10/22/92 a	--	--	--	--	--	--	--	--	--
	01/18/93 a	--	--	--	--	--	--	--	--	--
	04/19/93 a	--	--	--	--	--	--	--	--	--
07/21, 22/93 a	--	--	--	--	--	--	--	--	--	
10/25/93	--	--	--	--	--	--	--	--	--	

Explanation

Top of casing and groundwater elevations are expressed as feet above mean sea level.

TPH-G = Total petroleum hydrocarbons as gasoline

SP = Separate-phase petroleum hydrocarbons

DTW = Depth to water

SPT = Separate-phase hydrocarbon thickness

WTE = Water table elevation

(adjusted WTE = well elevation - (DTW - (SPT X 0.8))

TOC = Top of casing

ppb = parts per billion

ND = Not detected at or above the minimum quantitation limit

-- = Not analyzed

NOTE: See laboratory reports for minimum quantitation limits.

D = Duplicate

a = Not sampled due to insufficient water in well

b = C-4: Well destroyed, C-7: Well could not be located

c = Typical gasoline chromatographic pattern not present

d = Not sampled: Well adapted for on-site remediation system

e = Groundwater elevation corrected assuming 0.8 specific gravity for gasoline

f = Uncategorized compound is not included in gasoline hydrocarbon total

Sampling frequency:

Quarterly: C-1, C-3, C-4, C-6, C-8, C-10A, C-10B, C-11, C-12, C-15, and C-16.

Semi-annually (1st & 3rd quarters): C-5, C-7, C-13, and C-14.

Annually (1st quarter): C-2.

ATTACHMENT I

LABORATORY ANALYSES REPORTS

AND

CHAIN-OF-CUSTODY MANIFEST



4080 Pike Lane
Concord, CA 94520
(510) 685-7852
(800) 544-3422 Inside CA
(800) 423-7143 Outside CA
(510) 825-0720 FAX

Client Number: 020704228
Consultant Project Number: 020704228
Facility Number: Chevron-Castro Valley
Project ID: 5269 Crow Canyon Road
Work Order Number: C3-10-0497

November 8, 1993

Bruce Eppler
Groundwater Technology, Inc.
1401 Halyard Drive, Suite 140
West Sacramento, CA 95691

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 10/26/93.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories, Inc.

Semi-Volatile Group leader

Eileen F. Bullen
Laboratory Director

Client Number: 020704228
 Consultant Project Number: 020704228
 Facility Number: Chevron-Castro Valley
 Project ID: 5259 Crow Canyon Road
 Work Order Number: C3-10-0497

Table 1

ANALYTICAL RESULTS

**Aromatic Volatile Organics and
 Total Petroleum Hydrocarbons as Gasoline in Water**

EPA Methods 5030, 8020, and Modified 8015a

GTEL Sample Number		01	02	03	04
Client Identification		C-16	C-11	C-10b	C-8
Date Sampled		10/25/93	10/25/93	10/25/93	10/25/93
Date Analyzed		11/03/93	11/03/93	11/03/93	11/03/93
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	<0.5	<0.5	<0.5
Toluene	0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5
Xylene, total	0.5	<0.5	<0.5	<0.5	<0.5
BTEX, total	--	--	--	--	--
TPH as Gasoline	50	<50	<50	<50	<50
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		89.2	87.9	90.5	88.8

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. Bromofluorobenzene surrogate recovery acceptability limits are 70 - 130%.

Client Number: 020704228
 Consultant Project Number: 020704228
 Facility Number: Chevron-Castro Valley
 Project ID: 5269 Crow Canyon Road
 Work Order Number: C3-10-0497

Table 1 (Continued)

ANALYTICAL RESULTS

**Aromatic Volatile Organics and
 Total Petroleum Hydrocarbons as Gasoline in Water**

EPA Methods 5030, 8020, and Modified 8015^a

GTEL Sample Number		05	06	07	08
Client Identification		C-10a	C-15	C-12	C-1
Date Sampled		10/25/93	10/25/93	10/25/93	10/25/93
Date Analyzed		10/04/93	10/04/93	10/04/93	10/04/93
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	<0.5	<0.5	90	2000
Toluene	0.5	<0.5	12	29	550
Ethylbenzene	0.5	<0.5	<0.5	20	790
Xylene, total	0.5	<0.5	0.6	50	2300
BTEX, total	--	--	13	190	5600
TPH as Gasoline	50	<50	240	350	14000
Detection Limit Multiplier		1	1	5	25
BFB surrogate, % recovery		91.7	92.0	89.4	89.0

- a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. Bromofluorobenzene surrogate recovery acceptability limits are 70 - 130%.

Client Number: 020704228
 Consultant Project Number: 020704228
 Facility Number: Chevron-Castro Valley
 Project ID: 5269 Crow Canyon Road
 Work Order Number: C3-10-0497

Table 1 (Continued)

ANALYTICAL RESULTS

**Aromatic Volatile Organics and
 Total Petroleum Hydrocarbons as Gasoline in Water**

EPA Methods 5030, 8020, and Modified 8015^a

GTEL Sample Number		09	10	11	M110393
Client Identification		C-3	C-6	TB-LB	METHOD BLANK
Date Sampled		10/25/93	10/25/93	10/25/93	--
Date Analyzed		11/04/93	11/04/93	11/03/93	11/03/93
Analyte	Detection Limit, ug/L	Concentration, ug/L			
Benzene	0.5	3900	11000	<0.5	<0.5
Toluene	0.5	2400	800	<0.5	<0.5
Ethylbenzene	0.5	1100	2200	<0.5	<0.5
Xylene, total	0.5	6600	8200	<0.5	<0.5
BTEX, total	--	14000	22000	--	--
TPH as Gasoline	50	35000	42000	<50	<50
Detection Limit Multiplier		25	100	1	NA
BFB surrogate, % recovery		89.1	97.8	92.2	93.2

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. Bromofluorobenzene surrogate recovery acceptability limits are 70 - 130%.

NA = Not Applicable

Client Number: 020704228
Consultant Project Number: 020704228
Facility Number: Chevron-Castro Valley
Project ID: 5269 Crow Canyon Road
Work Order Number: C3-10-0497

QC Matrix Spike and Duplicate Spike Results

Matrix: Water

Analyte	Sample ID	Spike Amount	Units	Recovery, %	Duplicate Recovery, %	RPD, %	Control Limits
Modified EPA 8020:							
Benzene	C3100532-05	20	ug/L	113	97.0	15.2	55 - 129
Toluene	C3100532-05	20	ug/L	116	99.0	15.8	72 - 149
Ethylbenzene	C3100532-05	20	ug/L	115	100	14.0	75 - 138
Xylene, total	C3100532-05	60	ug/L	119	103	14.4	74 - 147

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

Chain-of-Custody-Recd

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

Chevron Facility Number Chevron - Castro Valley
Facility Address 5269 Crow Canyon Rd
Consultant Project Number 02070 4228 01010
Consultant Name GTT WEST SAC
Address 1401 Halcyon Drive, Suite 140
Project Contact (Name) Bruce Eppler
(Phone) 916-372-4700 (Fax Number) _____

Chevron Contact (Name) Brett Hunter
(Phone) 510-842-8605
Laboratory Name GTEL
Laboratory Release Number 8683910
Samples Collected by (Name) Mark Graccia / Clayton Gonzak
Collection Date 10-25-93
Signature Mark Graccia / Clayton Gonzak

Sample Number	Lab Sample Number	Number of Containers	Leads S = Soil A = Air W = Water C = Charcoal	Type C = Composite D = Discrete	Time	Sample Preservation	Leads (Y or No)	Analytes To Be Performed											NOTE: Do NOT BILL TB-LB SAMPLES Seals in 50C 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)					
C-11b	01	2	WATER	Grab	4:00	HCL	X	X												
C-11	02	2			4:10			X												
C-10b	03	2			3:30			X												
C-8	04	2			3:20			X												
C-10a	05	2			3:45			X												
C-15	06	2			3:15			X												
C-12	07	2			2:05			X												
C-1	08	2			3:35			X												
C-3	09	2			3:40			X												
C-6	10	2	Y	Y	3:55	Y	Y	X												
TBLB	11	2	Y	Y	-	Y	Y	X												

M. Williams 11/8/93

C3100497

Relinquished By (Signature) <u>Clayton Gonzak</u>	Organization <u>GTEL</u>	Date/Time <u>10-26-2000</u>	Received By (Signature)	Organization	Date/Time	Turn Around Time (Circle Choice) 24 hrs. 48 hrs. 6 Days 10 Days As Contracted
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <u>Clayton Gonzak</u>		Date/Time <u>10/26/93 2:00</u>	