

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

February 5, 1993

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 Enclosed groundwater monitoring report (GTI, 12/30/92)

Dear Mr. Seery:

Attached is a report dated December 30, 1992, which was prepared by Chevron's consultant, Groundwater Technology Inc. (GTI), to describe quarterly groundwater monitoring performed at the subject site on October 22, 1992.

The groundwater extraction and treatment system continues to operate to control the migration of and to remove dissolved hydrocarbons from the shallow groundwater. Chevron is still awaiting approval of its proposal to expand the groundwater extraction system as presented in the August 31, 1992 report sent to your office.

If you have any questions or comments, I can be reached at (510) 842-8658.

Sincerely,

Clint B. Rogers

Environmental Engineer

Mil-B. Rogers

Attachment

cc: Rich Hiett, San Francisco Bay RWQCB, Oakland, CA Kevin Hinckley, 5269 Crow Canyon Road, Castro Valley, CA 94546 Paul Hehn, Geraghty and Miller, Richmond, CA



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

FAX (916) 372-8781

December 30, 1992

Project No. 02020 2887

Mr. Clint B. Rogers 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. Rogers:

Groundwater Technology, Inc. submits this letter as a summary of quarterly groundwater monitoring and sampling data collected at the above-referenced site on October 22, 1992. Fourteen 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). MW-3 contained 0.3 foot of SP. A potentiometric surface map (Figure 1) and a summary of groundwater monitoring data (Table 1) are included. After measuring DTW, nine monitoring 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 A. All purge water generated during the sampling process was processed through the onsite 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

JAMES W. GRASTY, A.E.A.

Environmental Geologist

Project Manager

JWG/EKS:rc

Attachments 2887QTR4.LTR Groundwater Technology, Inc. Reviewed/Approved by

K. SIMONIS, R.G.

or Environmental Geologist

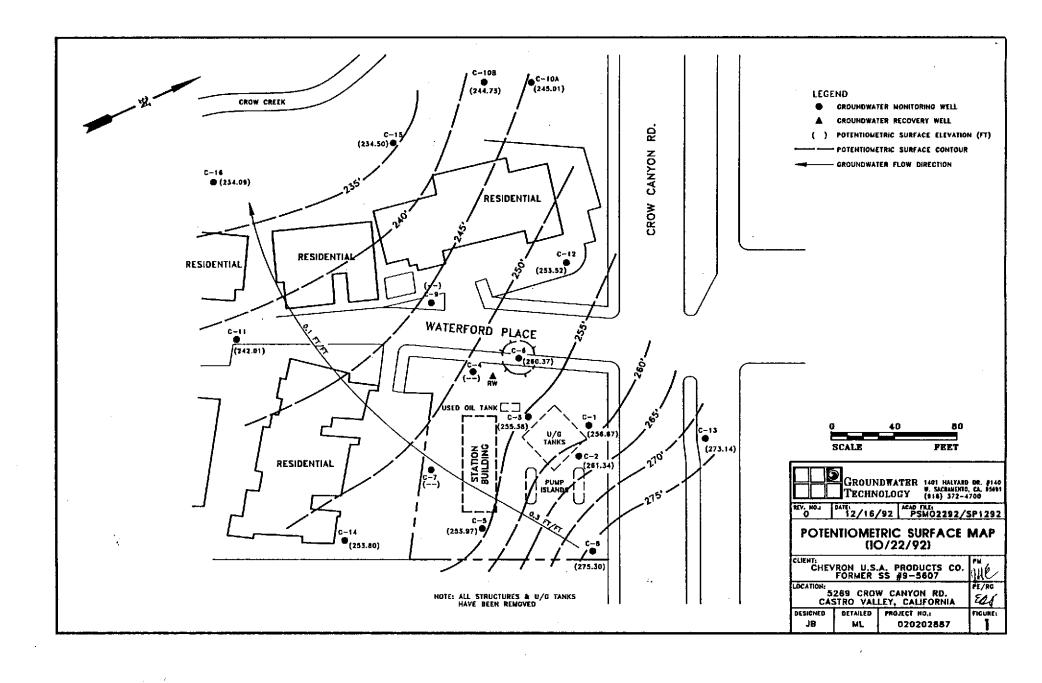


Table 1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

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

			5269 CROW C/	<u>ANYON ROAD, C</u>	ASTRO VALLEY	<u> CALIFORNIA</u>	<u> </u>			
WELL ID/ ELEVATION		BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	TPH-G	ORGANIC LEAD	DTW	SPT	WTE
88/88/88/04 PR PARAGONIA PARAGONIA	DATE	occor accordance	DESCRIPTION OF PRODUCTION AND A	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
(ТОС)	DATE	(ppb)	(ppb)	(bhin)	(PPU)	(PPO)		1000		
C-1		ļ						22.83	0.00	260.63
283.46	03/26/85		_ 			l		23.58	0.00	259.88
	07/03/86 03/26/87							20.50	0.00	262.96
	03/28/88							26.00	0,00	257.46
	03/10/89		2.000.000 NO.000.000 NO.000.000	- -				15.86	0.00	267.60
	04/03/89							16,85 22,68	0.00	266,61 260,78
	05/08/89							24.66	0.00	258.80
	06/05/89 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			 e1A	1,600	13,000		25.03 26.37	0.00	258.43 257.09
	12/04/89 03/07/90	2,000	550	610 				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		1	26,27	0.00	257,19 260.87
	12/20/90	760	410	260	1,100	8,200	 	22.59 19.08	0.00	264.38
	03/27/91 06/18/91							27.11	0.00	256.35
	09/12/91							28.22	0.00	255.24
ļ	01/23/92							26.65	0.00	256.81
1	04/13/92	3,100	1,300	850	8,100			22.16		261,30
, 1	08/03/92	1,300	470	550	1,600 4,300	13,000 24,000	ND 	26.15 26.79	0.00	257.31 256.67
	10/22/92	3,500	1,400	1,500	7,000	27,000				
C-2										
284.37	03/26/85									
	07/03/86							19.69 15.45	0.00	264.68 268.92
	03/26/87 03/28/88						<u></u>	20.92	.1	263,45
:	03/10/89	==						12.80	0.00	271.57
	04/03/89							14.26		270.11
	05/08/89						J	18.42	0.00	265.95 264.28
	06/05/89							20.09 20.79	0.00	263.58
	07/12/90 08/10/90		 					21.40		262.97
	09/13/89	62	4	10	14	320		21.86	0.00	262.51
	10/04/89	· · · · · · · · · · · · · · · · · · ·	 	- -				19.89	to the second control of the second	264.48
	11/03/89							20.76	0.00	263.61 263.55
	12/04/89	240	37	66	130	1,000		20.82 17.83	0.00	266.54
	03/07/90 03/09/90	 280	35	27	50	390	a consequence some seron.	17.83		266.54
	06/12/90	260	34	28	55	700		19.89	0.00	264.48
	09/20/90		*********** ***		- 1888 888 87 FE	:	jak masa a a a	21.97	0.00	262,40
	12/20/90					I morrow to a total to the		17.73	0.00	266.64 269.27
	03/27/91							15.10 22.68	0.00	261.69
	06/18/91 09/12/91		head secil	Lessanes==	1-338-5-4		al more recorded betate.	23.92		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	1 			- -			22.05		262.32
	10/22/92			1 1 1 1 1 1 1	1 12 1 1	1 1 12 / N - 1	<u> 3</u> 000 000 000 - =	23.03	0.00	261.34



Table 1 (Continued) HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA FORMER CHEVRON SERVICE STATION NO. 9-5607

	5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA												
WELL ID/				ETHYL-		0.0000000000000000000000000000000000000	ORGANIC		A 10 10 10 10 10 10 10 10 10 10 10 10 10				
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	LEAD	DTW	SPT	WTE			
(ТОС)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)			
C-3													
285.98	03/26/85									259.94			
	07/03/86 03/26/87			- -			——	26.04 25.64	0.00	260.34			
	03/28/88							28.82	0.00	257.16			
	03/10/89						!	22.78	0.00	263.20 263.27			
	04/03/89 05/08/89							22.71 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	1 400	 6,800	2,300	10,000	60,000		28.46 29.33	0.00	257.52 256.65			
	09/13/89 10/04/89	1,400	0,000	2,300	10,000		<u>-</u> -	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 27.69	0.00	256.97 258.29			
	03/07/90 03/09/90	1,100	5,700	1,600	7,900	42,000		27.69	0.00	258.29 258,29			
	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	59,000		29,18	0.00	256,80			
	12/20/90 03/27/91	1,200 1,300	5,400 3,100	5,400 1,200	33,000 11,000	520 92,000		28.27 24.80	0.00	257.71 261.18			
	06/18/91							30.84	0.00	255.14			
	09/12/91##							31,64	0.03	254.34			
	01/23/92							30.52 26.94	SHEEN 0.01	255.46 259.04			
	04/13/92## 08/03/92	1,300	2,800	3,100	17,000	220,000	ND	30.00	0.00	255.98			
	10/22/92	SP	SP	SP	SP	 As a supplied of the control of the co	SP	30.62	0.03	255.38			
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							18.04	0.00	254,97			
	03/28/88 03/10/89				 								
	04/03/89						-	13.34	0.00	259.6			
	05/08/89			_ 				15.60 16.51	0.00	257.41 256.50			
	06/05/89 07/12/90		- -		T ==		——	16.99	0.00	256.02			
	08/10/90				- ::::::::::::::::::::::::::::::::::::			17.27	0.00	255.7			
	09/13/89	21,000	3,100	3,200	11,000	57,000		18.16	0.00	254.84 254.77			
	10/04/89 11/03/89					1		18.24 18.17	0,00	254.8			
	12/04/89	17,000	2,200	2,800	9,800	48,000	44	18.45	0.00	254,54			
	03/07/90							17.20	0.00	ware a congress			
	03/09/90	20,000 21,000	2,500	2,800 4,000	11,000 16,000	43,000 82,000		17.20 16.66	0.00	255.8 256.3			
	06/12/90 09/24/90	21,000	2,400 	4,000	10.000			18.11	0.00	254.9			
	12/20/90**												
	03/27/91**					30 000 000 1			8 8 E E				
	06/18/91** 09/12/91**	 						 					
	01/23/92**								4-00-00000000				
	04/13/92**									X 1948 -			
	08/03/92**				<u>.</u>			**	 ;**				
	10/22/92			I	<u> </u>		<u> </u>						



Table 1 (continued)

HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

FORMER CHEVRON SERVICE STATION NO. 9-5607

5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA Page 3 WELL ID/ ETHYL-**ORGANIC** WTE SPT ELEVATION TOLUENE TPH-G LEAD DTW BENZENE BENZENE XYLENES (TOC) DATE (ppb) (feet) (feet) (ppb) (ppb) (ppb) (feet) (ppb) (dqq) C-5 287.95 03/26/85 25.33 0.00 262.62 07/03/86 0.00 26.41 261.54 __ 03/26/87 24.96 0.00 262.99 03/28/88 29.80 258.15 0.00 03/10/89 25.89 0.00 262.06 04/03/89 24.38 0,00 263.57 260.15 27.80 05/08/89 0.00 06/05/89 29,42 0.00 258.53 0.00 258.09 29.86 07/12/90 08/10/90 29.77 0.00 258,18 09/13/89 ND ND ND ND 310 30.95 0.00 257.00 0.00 256.47 10/04/89 31.48 11/03/89 31.32 0.00 256.63 256.25 ND ND ND 31.70 12/04/89 ND ND 0.00 03/07/90 30.28 0.00 257.67 ND ND ND ND 30.28 0.00 257.67 03/09/90 ND 06/12/90 ND ND ND ND 90 30.48 0.00 257.47 09/24/90 ND ND ND ND ND 31.78 0.00 256.17 254.66 ND ND 0.7 170 33.29 0.00 12/20/90 1.0 03/27/91 27.98 0.00 259.97 32.52 0.00 255.43 06/18/91 254,58 09/12/91 33.37 0.00 01/23/92 32.67 0.00 255.28 ND 140 ND ND 0.7 28.48 0.00 259.47 04/13/92 08/03/92 ND ND 32.50 0.00 255.45 ND ND ND ND 33.98 0.00 253.97 10/22/92 C-603/26/85 16.74 275.28 17.46 0.00 257.82 07/03/86 18.37 0.00 256.91 03/26/87 03/28/88 29.84 0.00 245.44 14.44 0.00 260.84 03/10/89 14.44 260.84 04/03/89 0.00 258.12 05/08/89 17.16 0.00 06/05/89 0.00 256 77 18.51 18.71 0.00 256.57 07/12/90 08/10/90 19.32 0.00 255.96 47 09/13/89 5,600 3,000 2,400 10,000 19.95 0.00 255.33 10/04/89 19.87 0.00 255.41 11/03/89 19.35 0.00 255.93 8,100 12/04/89 1.800 1,700 7,500 40,000 19.59 0.00 255.69 0.00 03/07/90 18.39 256.89 03/09/90 23,000 5,900 17,000 73,000 18.39 0.00 256.89 3,400 06/12/90 6,500 85,000 18.87 0.00 256.41 19.000 3.400 16,000 09/24/90 15,000 3,200 2,600 11,000 72,000 19.99 0.00 255.29 11,000 4,200 16,000 100,000 253.71 12/20/90 3,400 21.57 0.00 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 77<u>-</u>-251.32 09/12/91 23.96 0.00 01/23/92 263.20 12.08 0.00 SHEEN 04/13/92 19.85 255.43 08/03/92 16,000 1,100 2,300 15,000 120,000 ÑĎ 14.72 0.00 260.56 <u>14.9</u>1 10/22/92 <u>7,40</u>0 260.37 920 1,800 14,000 63,000 0.00



Table 1 (continued)

HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

FORMER CHEVRON SERVICE STATION NO. 9-5607 Page 4 5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA **ORGANIC** WELL ID/ ETHYL-WTE SPT **ELEVATION** BENZENE DTW BENZENE TOLUENE **XYLENES** TPH-G LEAD (ppb) (feet) (feet) (feet) (TOC) DATE (ppb) (ppb) (ppb) (ppb) (ppb) 9.61 03/26/85 900000 90000 270.70 0.00 259.96 10.74 07/03/86 10.08 0.00 260.62 03/26/87 256.91 13.79 0.00 03/28/88 03/10/89 10.42 0.00 260.28 9.14 0.00 261.56 04/03/89 258.79 05/08/89 11.91 0.00 06/05/89 11.54 0.00 259.16 13.45 0.00257.25 07/12/90 08/10/90 13.37 0.00 257,33 10 ND 410 14.60 0.00 256.10 1.3 ND 09/13/89 255,53 10/04/89 15,17 0.00 15.28 0.00 255.42 11/03/89 0.00 255.00 ...1 ND ND ,000 15.70 12/04/89 . 5 03/07/90 14.22 0.00 256.48 14.22 0.00 256,48 2 590 2.8 03/09/90 2.4 3.5 06/12/90 ND 3.2 1,200 14.18 0.00 256.52 8.2 09/24/90 2.2 400 15.44 SHEEN 255.26 1.4 1.4 1.9 SHEEN 255.26 09/24/90D ND 2.4 1.5 580 15.44 12/20/90 ND 6.5 47 9.3 2,300 17.08 0.00 253.62 258.05 12.65 0.00 980 03/27/91 ND 2.4 9.1 3 06/18/91 16 44 0.00 254,26 1,200*** 3.1 17.05 0.00 253.65 ND 6.5 2.7 09/12/91 253.78 01/23/92 16.92 0.00 13.00 0.00 04/13/92 ND 7.8 1.2 830 257.70 08/03/92 ** 10/22/92 C-8 03/26/85 8.68 13.89 0.00 274.51 288.40 07/03/86 6.01 0.00 282.39 03/26/87 10.66 0.00 277.74 03/28/88 281.79 03/10/89 6.61 0.00 6.46 0.00 281.94 04/03/89 0.00 279.43 8.97 05/08/89 10.88 0.00 277.52 06/05/89 12.15 0.00 276.25 07/12/90 12.46 0.00 275.94 08/10/90 ND ND ND ND ND 12.78 0.00 275.62 09/13/89 12.51 0.00 275.89 10/04/89 14.63 0.00 273.77 11/03/89 9,59 278.81 12/04/89 0.6 0.6 ND - 1 64 0.00 0.00 279.60 8.80 03/07/90 ND ND ND ND R RO 0.00 279 60 03/09/90 ND 120 8.94 0.00 279.46 06/12/90 2.5 1.2 1.4 13.54 0.00 274.86 09/24/90 12/20/90 9.33 0.00 279.07 0.00 282.30 1.9 54 6.10 03/27/91 0.7 ND 0.7 276.44 06/18/91 11.96 0.00ND 13.60 0.00 274.80 09/12/91 ND ND ND ND ND 13.60 0.00 274.80 09/12/91D ND ND ND ND 24.20 0.00 264.20 01/23/92 ND 8.35 0.00 280.05 04/13/92 ND ND ND ND

08/03/92

10/22/92

ND

ND

ND

ND

ND

ND

ND

ND

:ND

ND

ND



12.58

13.10

0.00

0.00

275.82

275.30

Table 1 (continued) HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA FORMER CHEVRON SERVICE STATION NO. 9-5607

				HEVRON SERV ANYON ROAD, C			\			Page 5
WELL ID/				ETHYL-			ORGANIC			
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	LEAD	DTW	SPT	WTE
(TOC)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-9										
268.46	07/03/86							13.89	0.00	254.57
	03/26/87 03/28/88							13.74 14.99	0.00	254.72 253.47
	03/20/60						30000000 000	13.39	0.00	255.07
	04/03/89							12.84 14.38	0.00	255.62 254.08
	05/08/89 06/05/89			 -			——	15.36	0.00	253.10
	07/12/90			-			<u> </u>	15.65	0.00	252.81
	08/10/90 09/13/89	14,000	1,100	2,800	4,200	42,000		15.80 16.53	0.00	252.66 251.93
	10/04/89							16.52	0.00	251.94
	11/03/89	11,000	 670	2,500	3,800	36,000		16.51 16.79	0.00	251.95 251.67
"	12/04/89 03/07/90	11,000	670	2,000	0,000	00,000		16.22	0.00	252.24
	03/09/90	12,000	940	3,000	4,700	28,000		16.22	0.00 0.00	252.24 253.58
	06/12/90 09/24/90	11,000 13,000	1,600 1,600	2,300 3,700	4,800 6,800	39,000 120,000	- -	14.88 16.30	0.00	253.36 252.16
	12/20/90	9,300	560	2,800	3,300	51,000	- + +	17.23	0,00	251.23
	12/20/90D 03/27/91	12,000	580 5,000	2,800 1,600	3,500 5,600	44,000 56,000		17.23 13.78	0.00	251.23 254.68
	06/18/91	3,400	9,000	1,000				18.64	0.00	249.82
	09/12/91#	 -								
	01/23/92# 04/13/92#			— —				 		
	08/03/92#			P(S) (4 (S) (CO) (CO) (CO) (CO) (CO) (CO)						
	10/22/92							**		***
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	ND ND		19.70	0.00	245.14
	06/12/90 09/24/90	ND ND	ND ND	ND ND	ND	ND		19.54	0.00	245.30
	12/20/90	ND	ND	ND	ND	ND	- 1	19.84	0.00	245.00
	03/27/91		<u></u>	- -	7.5			18.01	0.00	246.83
	06/18/91	ND ND	ND ND	ND ND	ND ND	ND ND		20.16	0.00	244.68 244.27
	09/12/91 01/23/92	ND ND	ND ND	ND ND	ND.	ND		20.67	0.00	244.17
	04/13/92	0,9	1,3	ND	1	53.0	**************************************	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
C-10B								21.44	0.00	243.41
264.85	03/07/90 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 20.44	0.00	246.62 244.41
	06/18/91 09/12/91	ND	ND	ND	ND	ND		20.82	0.00	244.03
	01/23/92	ND	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	244.78 244.73
	10/22/92	ND	ND	ND	ND.	ND.		20.12	0.00	244.73
C-11 265.30	00/07/00						_	22.74	0.00	242.56
200.30	03/07/90 03/09/90	1.2	0.7	ND	124200-1121 4	ND				
	06/12/90	ND	ND	ND	ND	ND		21.98	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 ND	ND 15	ND		23.18 21.52	0.00	242.12 243.78
	03/27/91 06/18/91	ND 	ND 	ND	1.5	ND		21.52	0.00	243.76
	09/12/91	ND ND	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 NID	ND ND	ND ND	ND ND	ND	22.67 23.29	0.00	242.63 242.01
	10/22/92	ND	ND	<u>ND</u>		jrgsectorer nU .	100 1 100 T	<u> </u>	1 0.00	1 274.01



Table 1 (continued) HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA FORMER CHEVRON SERVICE STATION NO. 9-5607

			5269 CROW C/	ANYON ROAD, O	CASTRO VALLEY	Y, CALIFORNIA	<u> </u>			Page 6
WELL ID/	0.000.000.000.000.000			ETHYL-	you EVEA	7711	ORGANIC	**************************************	ent	MITTE
ELEVATION	OATE .	BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	LEAD	DTW (feet)	SPT	WTE
(тос)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	€ fieeri :	(feet)	(feet)
C-12					·			4400	0.00	0547
269.66	03/07/90				— —	************		14.92	0.00	254.74
i	03/09/90 06/12/90	230 190	140 71	33 18	180 73	1,400 720		14.79	0.00	254.87
į	09/24/90	130	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	257.5
ĺ	06/18/91						ı – –	16.38	0.00	253.28
	09/12/91	59	12	4.5	8.5	350 450		17.55	0.00	252.1 252.5
ļ	01/23/92 04/13/92	110 1,100	31 76	7.9 100	22 200	450 5,000		17.11 14.40	0.00 0.00	255.20
İ	08/03/92	200	21	13	25	520	ND	15.83	0.00	253.8
	10/22/92	310	66	35	56	1,300		16.14	0.00	253.5
C-13								l		
284.32	03/07/90			_ <u>_</u>				11.18	0.00	273.14
	03/09/90	15	3.7	1	. 6.2 ND	ND ND		10.70	0.00	273.6
	06/12/90 09/24/90	2.6 2.4	ND ND	ND ND	ND ND	ND.		11.60	0.00	272.7
	12/20/90	1.6	ND	ND	ND	ND		10.16	0.00	274.10
	03/27/91				<u></u>	*************************		7.64	0.00	276.68
	06/18/91			- -		7.5		11,32	0.00	273.00
	09/12/91	ND	ND	ND	ND	ND		11.84	0.00	272.48
ļ	01/23/92	— — — — — — — — — — — — — — — — — — —	 ND	ND	ND	ND		10.55 10.96	0.00	273.7 273.30
	04/13/92 08/03/92	ND ND	ND ND	ND ND	ND ND	ND ND	ND	10.90	0.00	273.4
į	10/22/92	110						11.18		273.1
			10.000000000000000000000000000000000000			GM-000000000000000000000000000000000000				
C-14 270.74						1				
270.74	03/07/90						 	15.18	0.00	255.50
	03/09/90	ND	ND	ND	ND	ΝĎ	::::::::::::::::::::::::::::::::::::::			25.0
	06/12/90	ND	ND	ND	ND	ND		13.42 12.84	0.00	257.32
	09/24/90 12/20/90	ND 1.7	ND 0.7	ND ND	ND 0.7	ND ND		16.72	0.00	257.90 254.00
	03/27/91	ND	ND	ND	1.3			8.00		262.7
İ	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 14.64	0.00	258.50 256.10
	08/03/92 10/22/92	ND	ND	ND 	ND	ND	ער. יייר יייי	16.94	0.00	
	10/22/92					100000000000000000000000000000000000000				
C-15 246.15		1		}						
246,15	03/07/90							11.10	0.00	235.0
	03/09/90	ND	1.4	0.5	0.6			****** <u>+</u>		
	06/12/90	11	ND.	ND	ND	420		10.78	0.00	235.3
	09/24/90	ND	1.5	ND	ND			10,93	0.00	235,2 235.0
1	12/20/90 03/27/91	1.3 4.6	1.1 1.1	0.6 ND	1.5 1	300 520***		11.08 8.50	0.00	237.6
Ì	06/18/91	ND	1.1	ND	ND			10.83	0.00	235.3
	06/18/91D	ND	1.3	ND	ND	320		10.83	0.00	235.3
	09/12/91	ND	0.9	ND	ND	330***		11.05	0.00	235.10
	01/23/92	ND	0.6	ND	ND	210		10.80	0.00	235.3
ļ	01/23/92D	1.2	0.8	ND ND	ND ND	190		10.80	0.00	235.3 236.5
	04/13/92	1.8 ND	ND 2.1	ND 0.7	ND 1.3	430 640	ND	9.58 11.21	0.00	234.9
	08/03/92 10/22/92	ND	, ND	ND	0.8	420		11.65	0.00	234.5
				ang in a construction (AD)		1				
C-16										
246.69	03/07/90	† 					J	18.50	0.00	228.1
	03/09/90	ND	ND	ND	ND		i as i i kannayn <u>on in</u> Illa ul dakana tilla			
	06/12/90	ND	ND.	ND ND	ND ND	ND		11.42	0.00	235.2
	09/24/90 12/20/90	ND ND	ND ND	ND ND	ND 0.7	ND ND		11.39 11.57	0.00	235.3 235.1
	03/27/91	ND ND	ND.	NU ND	0.7 1.30 1.30 1.30	ND ND	han ganger II Izil	8.76	0.00	237.9
	03/27/91D	ND	ND	ND	1.2	ND		8.76	0.00	237.9
	06/18/91	ND	ND	ND	ND:	ND	3	11,18	0.00	235.5
	09/12/91	ND	ND.	ND	ND.	ND		11.95	0.00	234.7
	01/23/92	ND	ND	ND.	ND	ND.	# - s,9## - +	12.41	0,00	234.2
	04/13/92	ND ND	ND:	ND	ND ND	ND		10.69	0.00	236.0
	08/03/92	ND	ND.	ND	ND ND		ND	12.20	0.00	234.4 234.0
	10/22/92	ND	ND	ND	ND.	ND	ND.	12.60	<u> </u>	234.



Table 1 (continued)

HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

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

			5269 CROW CA	ANYON ROAD, C	ASTRO VALLEY	CALIFORNIA	1			Page 7
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)
RW	12/04/89	29,000	1,700	1,800	8,800	62,000				
274.52	03/07/90 06/12/90 09/24/90	15,000	2,000	 560 	 9,100 	 31,000 	1 1 1	18.50 18.49 ——	0.00 0.00 	256.02 256.03
	12/20/90 03/27/91 06/18/91	0.5	ND 	ND 	1.2 	ND 	 			
	09/12/91# 01/23/92#							 		
	04/13/92# 08/03/92# 10/22/92		 			-				

Explanation

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

TPH~G = Total Petroleum Hydrocarbons as Gasoline (ppb)

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

D = Duplicate

* = Not sampled due to insufficient water in well

** = Well could not be located

*** = Typical gasoline chromatographic pattern not present

= Not sampled: Well adapted for onsite remediation system

= Groundwater elevation corrected assuming 0.8 specific gravity for gasoline

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: C-5, C-7, C-13, and C-14.

Annually: C-2.

NOTE: See laboratory reports for minimum quantitation limits.

GARTAR I WK1



ATTACHMENT A

LABORATORY REPORTS

AND

CHAIN-OF-CUSTODY MANIFESTS





Superior Precision Analytical, Inc.

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

Groundwater Technology Inc. Attn: James W. Grasty

Project 02020-2887 Reported 11/06/92

•				·		
		TOTAL PET	ROLEUM HYD	ROCARBONS		
Lab #	Sample :	Identifica	tion	Sampled	Analyze	d Matrix
86986- 1	TB-LB			10/22/92	10/30/9	2 Water
86986- 2	RINSATE			10/22/92	10/30/9	2 Water
86986- 3	C-16	•		10/22/92	10/30/9	2 Water
86986- 4	C-11			10/22/92	11/02/9	2 Water
86986- 5	C-10B			10/22/92	10/30/9	2 Water
86986- 6	C-8			10/22/92	10/30/9	2 Water
86986- 7	C-10A			10/22/92	11/02/9	2 Water
86986- 8	C-15			10/22/92	10/31/9	2 Water
86986- 9	C-12			10/22/92	11/02/9	2 Water
86986-10	C-1			10/22/92	11/02/9	2 Water
		RESUL	TS OF ANAL	YSIS		
Laboratory	Number:			86986- 3	86986- 4	86986- 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 Benzer	ne:	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
Concentratio	on:	ug/L	ug/L	ug/L	ug/L	ug/L
Laboratory	Number:	86986- 6	86986- 7	86986- 8	86986- 9	86986-10
Gasoline:		ND<50	ND<50	420	1300	24000
Benzene:		ND<0.5	ND<0.5	ND<0.5	310	3500
Toluene:		ND<0.5	ND<0.5	ND<0.5	66	1400
Ethyl Benzer	ne:	ND<0.5	ND<0.5	ND<0.5	35	1500
Xylenes:		ND<0.5	0.5	0.8	56	4300
Concentratio	on:	ug/L	ug/L	ug/L	ug/L	ug/L

Page 1 of 3



Groundwater Technology Inc. Attn: James W. Grasty

Project 02020-2887 Reported 11/06/92

TOTAL PETROLEUM HYDROCARBONS

Lab # Sample Identification Sampled

Analyzed Matrix

86986-11

10/22/92

11/04/92 Water

RESULTS OF ANALYSIS

Laboratory Number: 86986-11

Gasoline:

63000

Benzene:

7400 920

Toluene:

Ethyl Benzene:

1800

Xylenes:

14000

Concentration:

ug/L

Page 2 of 3

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 3 of 3 QA/QC INFORMATION SET: 86986

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	79/85	7	70-130
Benzene:	200 ng	93/94	0	70-130
Toluene:	200 ng	96/98	3	70-130
Ethyl Benzene:	200 ng	100/104	4	70-130
Xylenes:	200 ng	98/102	4	70-130

Richard Srna APT.D.

Laboratory Director

Fax cop	by of	Lab	Re	epo	ort (and	CC	C to	Ch	ev	ron	Co	ntad	ct: [) Ye	es o 8	696	08	С	hai	n-c	of-	·Cu	ıst	ody-Record
Chevron U.S P.O. BOX San Ramon, C FAX (415)84	5004 CA 94583	Facility Address 5269 Crow Causer Rd Castro Valle Consultant Project Number 02020-2887 Consultant Nome Groundwater Technology Address 1401 Habiard 7140 w. Sacramento Ca Project Contact (Name) Jim Grasty											- Laboratory Name									tical			
					(F	hone) <u>S</u>	<u>(6 · ?</u>	72.470	<u>00 (</u> F	ix N	ımber	1916	37z	-878/	نل	Signature			Jer	~ r	m	= h	tos		
Sample Number	Lab Sample Number	Number of Containers	Metric S Soll A L Air	.	Type G = Grab C = Composite D = Discrete			Somple Preservation	load (Yes or No)		8020 + 8015)	TPH Diesed (8015)	Oil and Greate (5520)	Purgeable Haiocarbons (8010)	Purgeable Aromatics (8020)		Extractable Organics of (8270)	Metals C4.C2.Pb.Zn.Ni (ICAP or AA)	:					,	NOTE: 米 Do NOT BILL TB-LB SAMPLES Romarko
TB-LB		2	w	/	G	1200	,	HCL	Y		V														*
Kinsate		2.				12/0																			
C.16		3		_		122	_ اه				1			Please	Initi	alı	C						_	_	
C · //		3		_		123	را							Samp	es St	dred in	ice	0.0	<u>),</u>						
C-10B		3_				1240	2				┸			Appro	priat	e cont	einers	<u>C.</u>	<u> </u>						
C-8		_ د				1250	<u>, </u>	_		_ _						eserve			.05					\perp	
C-10A		3				1300	2							Comm		1									
C-15	· 	ر				1311	<u> </u>													<u> </u>	<u> </u>	-			
C-12		}				132	0							 	 				 -	 	 				
C-1		3				1330	,]							-											
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Policy Institute 02320 Religible hed By (Signature) Organization Ton (MA-OZ EXPRESSIF)		/0/2 Date/	/Time	Received By (Signature) 800 DON (MOON) Received By (Signature) 15 Received For Laboratory By (Signature) Marks (Signature)				alure)				9	24 fire. 48 Hre. 5 Doye 10 Daye												
								6	N	m	105		بحب		Superiar 1423/92										