

Chevron U.S.A. Products Company

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

October 19, 1992

Ms. Jennifer Eberle Alameda County Health Care Services 80 Swan Way, Room 200 Oakland, CA 94621

Re: Former Chevron Service Station #9-4816

94612 301 14th Street, Oakland

Dear Ms. Eberle:

Enclosed we are forwarding the Quarterly Ground Water Monitoring report dated October 13, 1992, prepared by our consultant Alton Geoscience for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline and BTEX. Benzene was detected in monitor well C-4 and C-8 only at concentrations of 20 and 1.3 ppb. Separatephase hydrocarbons were observed in monitor wells C-1, C-2, C-3, C-5 and CR-1 at measured thicknesses of sheen, sheen, 1.93, sheen and .41-feet, respectively. Depth to ground water was measured at approximately 21-feet below grade, and the direction of flow is to the west.

As stated in my letter to you on October 5, 1992, Chevron has instructed its consultant to perform monthly ground water elevation measurements for three (3) consecutive months, with a quarterly monitoring frequency resuming after this period. These three (3) months will provide useful data to evaluate the water level data accuracy and variations. If ground water continues to flow in a westerly direction while the system continues to operate, this will support that the change in ground water gradient is due to the operation of the soil vapor extraction system. Observed changes in the ground water gradient are likely the result of the decreased soil pore pressure created by the on-site soil vapor extraction system.

Chevron will continue to monitor this site and report findings on a quarterly basis and monitor the effectiveness of the soil vapor extraction system.

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

Very truly yours. CHEVRON W.S.A. PRODUCTS COMPANY

Site Assessment and Remediation Engineer

Enclosure

cc: Mr. Rich Hiett, RWOCB Mr. Tom Berry, Weiss Associates Mr. R.W. Cosby, 225/1936 Ms B.C. Owen File (9-4816Q5)

Ms. Beth D. Castleberry Ware & Freidenrich 400 Hamilton Avenue Palo Alto, CA 94301-1825 Lean sampled as well.

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October 13, 1992

Ms. Nancy Vukelich Chevron U.S.A. Products Company Post Office Box 5004 San Ramon, California 94583-0804

31-0557

Subject: Quarterly Ground Water Monitoring Report

Former Chevron Station No. 9-4816

301 14th Street Oakland, California

Dear Ms. Vukelich:

In accordance with our agreement, Alton Geoscience transmits this Quarterly Ground Water Monitoring and Sampling Report for Chevron Station No. 9-4816, 301 14th Street, Oakland, California. Figure 1 shows the site location.

Monitoring and sampling of the ground water monitoring wells was performed on August 31, 1992, in accordance with the requirements and procedures of the California Regional Water Quality Control Board (RWQCB) and local regulatory agencies.

#### FIELD PROCEDURES

Prior to purging and sampling the wells, each well was checked for liquid-phase hydrocarbons or sheen. The depth to ground water and, if present, free product was measured in each well from the top of casing using an electronic interface probe with 0.01 foot tolerance.

Ground water samples were collected after more than 3 casing volumes of ground water was purged from each well. Each sample was collected using a clean bailer. Ground water samples were then decanted into the appropriate clean sample containers for delivery to a California-certified laboratory following proper preservation and chain of custody procedures. Purged ground water was transferred to a 600-gallon, trailer-mounted, steel tank (California Department of Health Services-registered), and delivered as non-hazardous to the Chevron Richmond Terminal for treatment.

copy of manifest?

Ms. Nancy Vukelich October 13, 1992 Page 2

#### SAMPLING AND ANALYTICAL RESULTS

The results of the monitoring and laboratory analyses of ground water samples for this quarter, as well as the results of previous monitoring and sampling events, are summarized in Table 1. Based on the previous wellhead elevation survey data and depth to water measurements collected during this monitoring event, ground water elevations and the general ground water gradient direction at this site are presented in Figure 2.

Liquid-phase hydrocarbons were observed in monitoring wells C-1, C-2, C-3, C-5 and CR-1. Manual bailing was terminated in March of 1992 when a soil vapor extraction system began operating at this site. The official laboratory reports and chain of custody records are included in Appendix A.

Please call Dale Swain at (510) 734-8134 if you have any questions regarding this report.

Sincerely,

ALTON GEOSCIENCE,

Dale P. Swain

Staff Scientist

Robert E. Logan R. G. 5088

Manager, Northern California Operations

wp94816ds





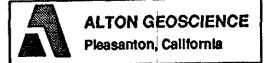
# FIGURE 1: VICINITY MAP

FORMER CHEVRON SERVICE STATION NO. 9-4816 301 14th STREET OAKLAND, CALIFORNIA

**PROJECT NO. 31-0557** 

SOURCE: GEOSTRATEGIES, INC.





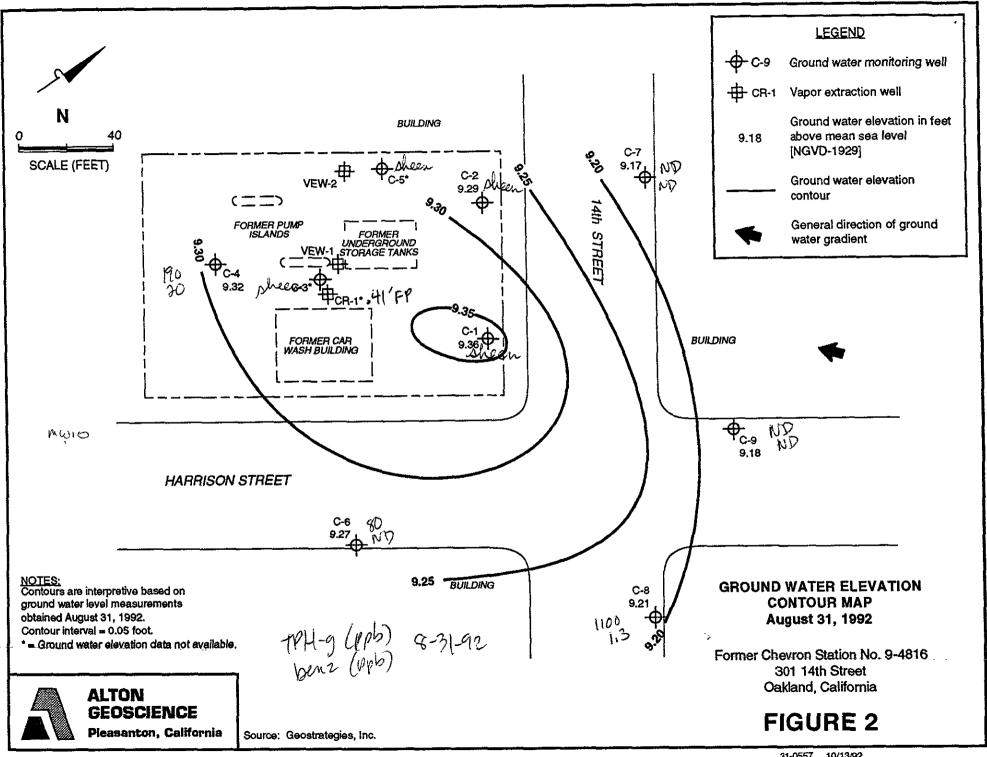


Table 1 Summary of Results of Ground Water Sampling Former Chevron Service Station No. 9-4816 301 14th Street, Oakland, California

WELL	DATE OF	TOP OF	DEPTH	FREE	GROUND	TPH-G	8	Ŧ	E	X	LAB		
ID	SAMPLING/	WELL BOX	TO	PRODUCT	WATER								
	MONITORING	ELEVATION	WATER	THICKNESS	ELEVATION								
*****		23522222222222222222222222222222222222	**********	: 正文字单名正字字单章:	B在無数式在至某类21								
C-1	06/13/90	30.82	21.97		8.85	26000	2800	5100	400	2600	NA		
C-1	10/30/90	30.82	21.72		9.10	67000	6700	8700	900	5000	NA		
C-1	01/04/91	30.82	21.84		8.98						NA		
C-1	01/07/91	30.82	21.95		8.87	100000	12000	20000	1600	11000	NA		
C-1	01/11/91	30.82	21.99		8.83				+		NA		
C-1	02/15/91	30.82	22.12		8.70						NA		
C-1	05/02/91	30.82	22.06		8.76	59000	5600	7700	700	5200	SAL		
C-1	05/30/91	30.82	22.04		8.78						NA		
C-1	06/13/91	30.82	21.80		9.02						NA		
C-1	07/12/91	30.82	22.01		8.81						NA		
C-1	08/07/91	30.82				7900	2000	150	240	330	SAL		
C-1	09/24/91	30.82									NA		
C-1	10/18/91	30.87 ***	22.42		8.45						NA		
C-1	11/05/91	30.87	22.36		8.51	8700	1500	1200	150	580	SAL		
C-1	01/06/92	30.87	22.34		8.53						NA		
C-1	01/16/92	30.87	22.28	0.03	8.61						NA		
C-1	01/22/92	30.87	22.43	0.09	8.51						NA		
C-1	01/28/92	30.87	22.28	0.02	8.61					***	NA		
C-1	02/04/92	30.87	22.24	0.01	8.64						NA		
C-1	02/14/92	30.87	22.16	sheen	8.71						NA		
C-1	02/21/92	30.87	22.07	sheen	8.80						NA		
C-1	02/25/92	30.87	21.95	sheen	8.92						NA		
C-1	03/06/92	30.87	21.85	0.00	9.02						NÁ		
c-1	03/19/92	30.87	20.54	0.00	10.33						NA		
c-1	05/06/92	30.87	21.39	sheen	9.48						NA		
C-1	08/31/92	30.87	21.51	sheen	9.36						NA		

Table 1
Summary of Results of Ground Water Sampling
Former Chevron Service Station No. 9-4816
301 14th Street, Oakland, California

METT	DATE OF	TOP OF	DEPTH	FREE	GROUND	TPH-G	В	Ŧ	E	X	LAB
ID	SAMPLING/	WELL BOX	TO	PRODUCT	WATER						
••	MONITORING	ELEVATION	WATER	THICKNESS	ELEVATION						
***	*********	202222222222	******	********	********		********	<b>125711125</b>	22222222		*******
C-5	06/13/90	30.91	22.08		8.83	15000	1100	1900	260	1700	NA
C-2	10/30/90	30.91	21.81		9.10	13000	2800	1900	240	1000	NA
C-2	01/04/91	30.91	21.90		9.01						ЖA
C-2	01/07/91	30.91	22.03		8.88	15000	3400	2500	340	1400	NA
C-5	01/11/91	30.91	22.13		8.78			*			NA
C-2	02/15/91	30.91	22.36		8.55						NA
C-S	05/02/91	30.91	22.44		8.47	19000	4500	3200	660	2900	SAL
C-20	05/02/91	30.91	22.44		8.47	21000	3200	2200	410	2000	SAL
C-S	05/30/91	30.91	22.44		8.47						NA
C-2	06/13/91	30.91									NA
C-2	07/12/91	30.91	22.57	0.01	8.35	+					NA
C-2	08/07/91	30.91		0.11		~					NA
C-2	09/24/91	30.91							<b>~</b>		NA
C-2	10/18/91	30.72 ***	22.34	0.07	8.44						NA
C-2	11/05/91	30.72	22.26	0.04	8.49						NA
C-2	01/06/92	30.72	22.25		8.47						NA
C-2	01/16/92	30.72	22.16	0.01	8.57						NA
C-2	01/22/92	30.72	22.25	0.02	8.49						NA
C-2	01/28/92	30.72	22.18	0.01	8.55						NA
C-2	02/04/92	30.72	22.15	0.01	8.58						NA
C-2	02/14/92	30.72	22.09	0.00	8.63						NA
C-2	02/21/92	30.72	22.06	sheen	8.66						NA
C-2	02/25/92	30.72	21.96	0.00	8.76						NA
C-2	03/06/92	30.72	21.80	0.00	8.92						NA
Č-2	03/19/92	30.72	21.12	0.00	9.60						NA
Ç-2	05/06/92	30.72	21.30	sheen	9.42						NA
C-2	08/31/92	30.72	21.43	sheen	9.29						NA

Table 1 Summary of Results of Ground Water Sampling Former Chevron Service Station No. 9-4816 301 14th Street, Oakland, California

222223377	2255742553332	*******	<b>EIDE22222</b>	HEREFSTEE	13277#×222	*********	222222222	******	********	*******	ETEXTES.
WELL	DATE OF	TOP OF	DEPTH	FREE	GROUND	TPH-G	B	T	E	X	LAB
ID	SAMPLING/	WELL BOX	TO	PRODUCT	WATER						
	MONITORING	ELEVATION	WATER	THICKNESS	<b>ELEVATION</b>						
*****		*********	2=222222222	*********			*********		*********	ERRETERE	
C-3	06/13/90		24.75	3.00							NA
C-3	10/30/90		23.81	2.50				+			AK
C-3	01/04/91		24.15	2.70							NA
C-3	01/07/91		24.13	2.50							NA
C-3	01/11/91		24.35	2.66							AK
C-3	02/15/91		24.70	2.93	***						NA
C-3 *	05/02/91							•-•			NA
C-3	05/30/91		24.08	2.49							NA
C-3	06/13/91										NA
c-3	07/12/91										NA
C-3	08/07/91			2.64							NA
C-3	09/24/91										NA
C-3	10/18/91	30.79 ***	24.44	2.50	#					** <b>-</b>	NA
C-3	11/05/91	30.79	24.31	2.46	#						NA
C-3	01/06/92	30.79	24.25	2.39	#						NA
C-3	01/16/92	30.79	24.02	2.29	#						N.A.
C-3	01/22/92	30.79	24.10	2.28	#						NA
C-3	01/28/92	30.79	24.06	2.29	#		+				NA
C-3	02/04/92	30.79	24.04	2.31	#						NA
C-3	02/14/92	30.79	23.93	2.31	#						NA
C-3	02/21/92	30. <b>7</b> 9	24.61	3.05	#					***	NA
C-3	02/25/92	30.79	23.69	2.23	#						NA
C-3	03/06/92	<b>30.79</b>	23.69	2.23	#		***				NA
C-3	03/19/92	<b>30.79</b>	22.98	2.26	#						NA
C-3	05/06/92	30. <b>7</b> 9	22.74	1.93	#						NA
C-3	08/31/92	30.79	21.77	1.93	#						NA

Table 1 Summary of Results of Ground Water Sampling Former Chevron Service Station No. 9-4816 301 14th Street, Oakland, California

REFERE	332255322533	CZES#8SZZZZZZZ	EEE22222EE	IZZEZZZZZZZZ							
WELL	DATE OF	TOP OF	DEPTH	FREE	GROUND	TPH-G	В	Т	E	X	LAB
ID	SAMPLING/	WELL BOX	TO	PRODUCT	WATER						
	MONITORING	ELEVATION	WATER	THICKNES	ELEVATION						
C-4	06/13/90	31.42	22.73		8.69	440	47	47	3	61	NA
C-4	10/30/90	31.42	22.48		8.94	210	72	13	1	11	NA
C-4	01/04/91	31.42	22.64		8.78						NA.
C-4	01/07/91	31.42	22.74		8.68	890	100	130	15	88	NA
C-4	01/11/91	31.42	22.81		8.61						NA
C-4	02/15/91	31.42	22.55		8.87			***			NA
Č-4	05/02/91	31.42	22.54		8.88	330	140	11	2	9	SAL
C-4	05/30/91	31.42	22.55		8.87						NA
C-4	06/13/91	31.42									NA
C-4	07/12/91	31.42									NA
C-4	08/07/91	31.42				1500	400	79	13	61	SAL
C-4	09/24/91	31.42									NA
C-4	10/18/91	31.20 ***	22.97		8.23						NA
C-4	11/05/91	31.20	22.90		8.30	310	130	11	2.6	6.8	SAL
C-4	01/06/92	31.20	22.84		8,36						NA
C-4	01/16/92	31.20	22.75	***	8,45			***		***	NA
C-4	01/22/92	31.20	22.81		8,39						NA
C-4	01/28/92	31.20	22.77		8.43			***			NA
C-4	02/04/92	31.20	22.72		8.48	300	100	26	2.4	14	SAL
C-4	02/14/92	31.20	22.58		8.62				***		NA
C-4	02/21/92	31.20	22,60		8,60						NA
C-4	02/25/92	31.20	22.50		8.70			***		• • •	NA
C-4	1 03/06/92	31.20		***							NA
C-4	03/19/92	31.20	21.75	***	9.45			+			NA
C-4	05/06/92	31.20	21.82		9.38	200	26	ND<0.5	1.2	1.4	SAL
C-4	08/31/92	31.20	21.88		9.32	190	20	1.2	1.7	1.7	SAL
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Table 1
Summary of Results of Ground Water Sampling
Former Chevron Service Station No. 9-4816
301 14th Street, Dakland, California

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WELL		DATE OF	TOP OF	DEPTH	FREE	GROUND	TPH-G	В	T	E	X	LAB	
ID		SAMPLING/	WELL BOX	TO	PRODUCT	WATER							
		MONITORING	ELEVATION	WATER	THICKNESS	ELEVATION							
****	ZZZZ:		*********	***********		********	*********		222222222				
C-5		10/30/90	31.25	22.11		9.14	20000	2500	3300	320	2200	NA	
C-5		01/04/91	31.25	22.55	0.31							NA	
C-5		01/07/91	31.25	22.36	0.04	9.26						NA	
C-5		01/11/91	31.25	23.08	0.73							NA	
C-5		02/15/91	31.25	24.70	2.74							NA	
C-5		05/02/91	31.25	22.02	2.00							NA	
C-5		05/30/91	31.25	24.78	2.70							NA	
C-5		06/13/91	31.25	24.70	2.77							NA	
C-5		07/12/91	31.25	25.10	2.72							NA	
C-5		08/07/91	31.25		2.69							NA	
C-5		09/24/91	31.25									NA	
C-5		10/18/91	30.16 ***	24.71	2.51	#					*	NA	
C-5		11/05/91	30.16	24.47	2.29	#						NA	
Ç-5		01/06/92	30.16	24.68		#					•••	NA	
C-5		01/16/92	30.16	24.03	1.82	#						NA	
C-5		01/22/92	30.16	24.01	1.67	#		• • •				NA	
C-5		01/28/92	30.16	23.79	1.46	#	• • •					NA	
C-5		02/04/92	30.16	23.81	1.54	#					***	NA	
C-5		02/14/92	30.16	22.79	1.59	#						NA	
C-5		02/21/92	30.16	24.40	2.22	#						NA	
C-5		02/25/92	30.16	23.25	1.03	#					***	NA	
C-5		03/06/92	30.16	23.20	1.19	#						NA	
C-5	##	03/19/92	30.16									NA	
C-5	##	05/06/92	30.16									NA	
C-5	11	08/31/92	30.16	21.86	sheen							NA	
		*											

Table 1
Summary of Results of Ground Water Sampling
Former Chevron Service Station No. 9-4816
301 14th Street, Oakland, California

E222223			*******	ERZZZZZZZZZZ	eee±±======	********		**********	EESTEETE:	********	EEFFEE
WELL	DATE OF	TOP OF	DEPTH	FREE	GROUND	TPH-G	8	T	E	X	LAB
ID	SAMPLING/	WELL BOX	TO	PRODUCT	WATER						
	MONITORING	ELEVATION	WATER	THICKNESS	ELEVATION						
********	E22=======	**********	SEEEEEEEE	***********	223332EEE	rerrrerer:		trecressars:			*****
C-6	05/02/91	30.41	21.84		8.57	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-6	05/30/91	30.41									NA
C-6	07/12/91	30.41	22.86		7.55						NA
C-6 **	08/07/91	30.41		***							NA
C-6	09/24/91	30.41	21.88		8.53						NA
C-6	10/18/91	30.41	22.18		8.23						NA
C-6	11/05/91	30.41	22.14		8.27	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-6	01/06/92	30.41	22.09		8.32						NA.
C-6	01/16/92	30.41	22.04		8.37						NA
C-6	01/22/92	30.41	22.04	*	8.37			***			MA
C-6	01/28/92	30.41	21.99		8.42				~		NA
C-6	02/04/92	30.41	21.94		8.47	ND<50	ND<0.5	ND<0.5	ND<0.5	0.6	SAL.
C-6	02/14/92	30.41	21.87		8.54						NA
C-6	02/21/92	30.41	21.83		8.58						NA
C-6	02/25/92	30.41	21.71		8.70						NA
C-6	03/06/92	30.41	21.53		8.88						NA
C-6	03/19/92	30.41	20.92		9.49						NA
C-6	05/06/92	30.41	21.02		9.39	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-6	08/31/92	30.41	21.14		9.27	80	ND<0.5	ND<0.5	ND<0.5	2.4	SAL

Table 1
Summary of Results of Ground Water Sampling
Former Chevron Service Station No. 9-4816
301 14th Street, Oakland, California

	******	*******	*********	*********	- # # # # # # # # # # # # # # # # # # #	2222222	********	**********		**********	*#55232
WELL	DATE OF	TOP OF	DEPTH	FREE	GROUND	TPH-G	В	T	E	X	LAB
ID	SAMPLING/	WELL BOX	TO	PRODUCT	WATER						
	MONITORING	ELEVATION	WATER	THICKNESS	ELEVATION						
********		30.56	21.81		8.75	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-7	05/02/91				0.73	WD-20	7	ND \0.5	ND 10.5	70.5	NA
C-7	05/30/91	30.56				-					NA
C-7	07/12/91	30.56	22.15		8.41		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
C-7	08/07/91	30.56				ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-7	09/24/91	30.56	21.53		9.03						NA
C-7	10/18/91	30.56	22.07		8.49						МĀ
C-7	11/05/91	30.56	22.01		8.55	ND<50	₩D<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-7	01/06/92	30.56	22.03	***	8.53						NA
C-7	01/16/92	30.56	21.98		8.58						NA
C-7	01/22/92	30.56	22.05		8.51						NA
C-7	01/28/92	30.56	22.01		8.55						NA
C-7	02/14/92	30.56	21.94		8.62						NA
C-7	02/21/92	30.56	21.94		8.62						NA
C-7	02/25/92	30.56	21.82		8.74						NA
C-7	03/06/92	30.56	21.65		8.91						NA
C-7	03/19/92	30.56	20.92		9.64						NA
C-7	05/06/92	30.56	21.21		9.35	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
C-7	08/31/92	30.56	21.39		9.17	ND<50	ND<0.5	0.7	ND<0.5	0.9	SAL

Table 1
Summary of Results of Ground Water Sampling
Former Chevron Service Station No. 9-4816
301 14th Street, Oakland, California

WELL	DATE OF	TOP OF	DEPTH	FREE	GROUND	TPH-G	В	T	Ε	X	LAS
ID	SAMPLING/	WELL BOX	TO	PRODUCT	WATER						
	MONITORING	ELEVATION	WATER	THICKNESS	ELEVATION						
##FRERE:				*********	********	***********				470	
C-8	05/02/91	30.12	21.24	***	8.88	5000	ND<0.5	17	140	470	SAL
C-8	05/30/91	30.12									NA
C-8	07/12/91	30.12									NA
C-8	08/07/91	30.12			+	6300	ND<0.5	28	100	120	SAL
C-8	09/24/91	30.12	21.33		8.79						NA
C-8	10/18/91	30.12	21.76		8,36						NA
C-8	11/05/91	30.12	21.70		8.42	5100	ND<0.5	20	92	74	SAL
C-8	01/06/92	30.12	21.73		8.39						NA
C-8	01/16/92	30.12	21.63		8.49						NA
C-8	01/22/92	30.12	21.70		8.42						NA
C-8	01/28/92	30.12	21.65		8.47						NA
C-8	02/04/92	30.12	21.62		8.50	5300	ND<2.5	2.5	97	61	SAL
C-8	02/14/92	30.12	21.53		8.59						NA
C-8	02/21/92	30.12	21.51		8.61						NA
C-8	02/25/92	30.12	21.39		8.73			***			NA
C-8	03/06/92	30.12	21.21		8.91						NA
C-8	03/19/92	30.12	20.57		9.55		•			***	NA
C-8	05/06/92	30.12	20.77		9.35	3700	ND<0.5	29	110	130	SAL
C-8	08/31/92	30.12	20.91		9.21	1100	1.3	2.0	31	48	SAL

Table 1 Summary of Results of Ground Water Sampling Former Chevron Service Station No. 9-4816 301 14th Street, Oakland, California

*=======	ESTABLISHMENT CONTROL TOP OF DEPTH FREE GROUND TPH-G B T E X LAB												
WELL	DATE OF	TOP OF	DEPTH	FREE	GROUND	TPH-G	В	T	E	X	LAB		
ID	SAMPLING/	WELL BOX	TO	PRODUCT	WATER								
	MONITORING	ELEVATION	WATER	THICKNESS									
**********			*******	222222222			**********						
C-9	05/02/91	30.15	21.27		8.88	ND<50	ND<0.5	ND<0.5	ND<0.5	0.8	SAL		
C-9	05/30/91	30.15									NA		
C-9	07/12/91	30.15	21.57		8.58						NA		
C-9	08/07/91	30.15				ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL		
C-90	08/07/91	30.15				ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL		
C-9	09/24/91	30.15	21.10		9.05						na		
C-9	10/18/91	30.15	21.67		8.48						NA		
C-9	11/05/91	30.15	21.65		8.50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL		
C-9D	11/05/91	30.15	21.65		8.50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL		
C-9	01/06/92	30.15	21.65		8.50						NA		
C-9	01/16/92	30.15	21.58		8.57						NA		
C-9	01/22/92	30.15	21.65		8.50						NA		
C-9	01/28/92	30.15	21.63		8.52						NA		
C-9	02/04/92	30.15	21.58		8.57	ND<50	ND<0.5	0.7	ND<0.5	0.7	SAL		
C-90	02/04/92	30.15	21.58		8.57	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL		
C-9	02/14/92	30.15	21.54		8.61						NA		
C-9	02/21/92	30.15	21.52		8.63						NA		
C-9	02/25/92	30.15	21.39		8.76						NA		
C-9	03/06/92	30.15	21.21		8.94						NA		
C-9	03/19/92	30.15	20.47		9.68						NA		
C-9	05/06/92	30.15	20.81	***	9.34	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL		
C-9	08/31/92	30.15	20.97		9.18	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL		

Table 1
Summary of Results of Ground Water Sampling
Former Chevron Service Station No. 9-4816
301 14th Street, Oakland, California

****	***	2222222222	-	*********	******		2. 李宝宝宝宝宝宝 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(法本法学者是法法法国	**********		**********	
WELL		DATE OF	TOP OF	DEPTH	FREE	GROUND	TPH-G	В	T	E	X	LAB
ID		SAMPLING/	WELL BOX	TO	PRODUCT	WATER						
		MONITORING	ELEVATION	WATER		ELEVATION						
BIBBER	# <b>#</b> ##	**********	2年末井井太皇三年五年三年			232222222	*********	***********	***********	*********	***********	
CR-1		10/30/90		23,81	2.50							NA
CR-1		01/04/91		24.08	2.70							NA
CR-1		01/07/91		23.30	3.00							NA
CR-1		01/11/91		24.24	2.64							NA
CR-1		02/15/91		24.72	2.92							NA
CR-1 *	•	05/02/91						***				NA
CR-1		05/30/91		23.07	2.42							NA
CR-1		06/13/91										NA
CR-1		07/12/91	***						•••			NA
CR-1		08/07/91			2.69							NA
CR-1		09/24/91									***	NA
CR-1		10/18/91	30.17 ***	23. <i>7</i> 5	2.50	#						NA
CR-1		11/05/91	30.17	23,64	2.43	#	++-					NA
CR-1		01/06/92	30.17	23.57		#						NA
CR-1		01/16/92	30.17	23,41	2.30	#						NA
CR-1		01/22/92	30.17	23.44	2.24	#						NA
CR-1		01/28/92	30.17	23.40	2.29	#						NA
CR-1		02/14/92	30.17	23.31	2.34	#				***		NA
CR-1		02/21/92	30.17	24.10	3.19	#			* * *			NA
CR-1		02/25/92	30.17	23.15	1.03	#						AK
CR-1	##	03/06/92	30.17						***			NA
CR-1	##	03/19/92	30.17									NA
CR-1	##	05/06/92	30.17								~	NA
CR-1	11	08/31/92	30.17	21,84	0.41							NA
W11		441-411-		et : 100	***							

Table 1 Summery of Results of Ground Water Sampling Former Chevron Service Station No. 9-4816 301 14th Street, Oakland, California

*****	2222222 <del>2222</del>	######################################	ETTETTETT	*********	<b></b>	CHEERSEE:	*********	CHRESENTER:	***********	CASESSES	******
METT	DATE OF SAMPLING/ MONITORING	TOP OF WELL BOX ELEVATION	DEPTH TO WATER	FREE PRODUCT THICKNESS	GROUND WATER ELEVATION	TPH-G	В	T	E	X	LAB
2226262##	英字正式英字正在正字字字			E4636#E#####	*******	*********		- <b></b>		ND<0.5	
TB	05/02/91	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5		SAL
TB	08/07/91	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	11/05/91	NA	NA	AK	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	02/04/92	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	05/06/92	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
TB	08/31/92	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RINSATE	08/07/91	NA	NA	₩A	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RINSATE	11/05/91	NA	NA.	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RINSATE	02/04/92	NA	NA	NA	NA	ND<50	ND<0.5	1.1	ND<0.5	ND<0.5	SAL
RINSATE	05/06/92	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL
RINSATE	08/31/92	NA	NA	NA	NA	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	SAL

#### **EXPLANATION OF ABBREVIATIONS:**

TDU-C	*Total	Datroi aum	Hydrocarbons	-0	Geenline	
126-6	TIOTAL	Petroleum	nvorocarbons	8	uasut ine	

(EPA method 8015 modified)

:Benzene (EPA method 8020 or 8240)

:Toluene (EPA method 8020 or 8240) :Ethylbenzene (EPA method 8020 or 8240)

:Xylenes (EPA method 8020 or 8240)

:Not Analyzed/ Not Measured

ND :Not Detected

TB :Trip Blank :Duplicate

:Not Applicable/Not Available NA

- :Not monitored or sampled due to onsite excavation work
- \*\* :Car with flat tire parked over well, could not purge or sample.
- \*\*\* :Top of well box elevations resurveyed following excavation activities.
- :Ground water elevation not computed for wells containing greater than 0.20 feet of free product.
- ## :Unable to access. Remediation equipment
- in monitoring well. :Unable to access. Standing water over well.
- !! :Monitoring wells need to be resurveyed.

Note: Top of well box and ground water elevations are expressed as feet above mean sea level (NGVD - 1929). Free product thickness expressed in feet.

Weekly product bailing discontinued on 3-19-92 by Nancy Vukelich of Chevron USA Products Company.

# APPENDIX A

# OFFICIAL LABORATORY RESULTS AND CHAIN OF CUSTODY FORMS



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

Alton Geoscience

Concentration:

Project 31-0557 Reported 09/09/92

Attn: DALE S	NAIN				Reported	<u> </u>			
TOTAL PETROLEUM HYDROCARBONS									
Lab #	Sample	Identifica	tion	Sampled	Analyzed	Matrix			
86605-1	TB-LB			08/31/92	09/08/92	Water			
	RIN			08/31/92	09/08/92	Water			
	C-9			08/31/92	09/08/92				
	C-7			08/31/92	09/08/92				
	C-6			08/31/92	09/08/92				
	C-4			08/31/92	09/04/92				
	C-8			08/31/92	09/04/92	Water			
RESULTS OF ANALYSIS									
Laboratory N	umber:	86605- 1	86605- 2	86605- 3	86605-48	6605- 5			
				V	V/	./			
Gasoline:		ND<50	ND<50	ND<50	ND<50	80 V			
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	0.7	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	0.9	2.4			
Concentration	:	ug/L	ug/L	ug/L	ug/L	ug/L			
Laboratory N	umber:	86605- 6	86605- 7						
<del></del>	<u>,</u>	V							
Gasoline:		190	1100						
Benzene:		20	1.3						
Toluene:		1.2	2.0						
Ethyl Benzene	:	1.7	31						
Xylenes:		1.7	48						

ug/L

ug/L

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# CERTIFICATE OF ANALYSIS

## ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2 QA/QC INFORMATION SET: 86605

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: Benzene: Toluene: Ethyl Benzene: Xylenes:	200 ng 200 ng 200 ng 200 ng 200 ng	95/95 91/84 98/91 100/93 97/90	0 8 8 8	70-130 70-130 70-130 70-130 70-130

Richard Srna, Ph.D.

Jelomina V danquilie (for) Laboratory Director

Fax copy of Lab Report and COC to Chevron Contact: No Blook Chain-of-Custody-Record NANCY VukeLich Chevron Facility Number FOFME Chevron Contact (Name) \_\_\_ 510-842-9500 Facility Address .... (Phone)\_\_\_\_\_ Consultant Project Number Chevron U.S.A. Inc. SAL Laboratory Name .... P.O. BOX 5004 GEOSCIENCE 3523000 Laboratory Release Number\_ San Ramon, CA 94583 Moroso 5870 STONETICGE Dr. STE. 6 PLEASANTON ANdrew Block Samples Collected by (Name)\_\_\_ FAX (415)842-9591 DALE SWAIN Project Contact (Name)\_ Collection Date\_ (Phone)510-734-8134 (Fax Number) 734-8420 SEP Stonethide DO NOTBILL Analysee To Be Performed Purgeable Halocorbons (8010) Sample Number Purgedble Organica (8240) 8020 + 8015) 900 Remarks X Yes W 1310 HU TB-LB 2 HCL 6 1310 RIN 3 C-9 HCL 1315 × 4 W Please Initial: C-7 G HCL 1333 Samples Stored in ice. 2 C-6 W G 352 HCL X <del>kpprobriatel contdiners</del> 6 HCL 1420 amples preserve C-8 1515 Ha OA's without helidspace omments: Received By (Signature) Date/Time Organization Date/Time Organization Turn Around Time (Circle Cholce) 9-1-97 ALTON 24 Hrs. Organization Date/Time Relinquished By (Signature) Received By (Signature) Date/Time 5 Daye 10 Dove Date/Time 10:40 Organization Relinquished By (Signature) Date/Time Reclaved For Laboratory By (Signature) As Contracted