

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

August 15, 1994

FAX: (415) 685-9148

Project No. 02010 4233

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

SUBJECT:

Quarterly Monitoring and Sampling Activities

Chevron Service Station No. 9-1924

4904 Southfront Road Livermore, California

Dear Mr. Hunter:

Groundwater Technology, Inc. presents the quarterly groundwater monitoring and sampling data collected on July 21 and 22, 1994. Seventeen of eighteen groundwater monitoring wells were gauged to determine depth to groundwater (DTW) and to check for the presence of separate-phase petroleum hydrocarbons. Monitoring well MW-18 has been paved over and was not monitored or sampled. Separate-phase hydrocarbons were not detected in the monitoring wells. A potentiometric surface map and a summary of groundwater monitoring data are presented in attachments 1 and 2, respectively. The July 21, 1994 potentiometric surface map includes the data collected the same day by Kaprealian Engineering, Inc. for the Unocal station northwest of the Chevron site. After measuring DTW, the monitoring wells were purged and sampled. Groundwater monitoring and sample collection protocol and field data sheets are presented in attachment 3. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, xylenes and total petroleum hydrocarbons-as-gasoline. As requsted, additional samples were taken this quarter only for Lead. Laboratory reports and chain-of-custody records are included in attachment 4. Dissolved benzene and total petroleum hydrocarbons-as-gasoline concentration maps are also provided in attachment 1. Monitoring well purge water was transported by Groundwater Technology to the Chevron Terminal in Richmond, California, for recycling.

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

Sincerely,

Groundwater Technology, Inc.

Written/Submitted-by

Kenneth P. Johnson Project Manager

For:

Wendell W. Lattz

Vice President, General Manager

West Region

PR__<u>UV</u> Attachment 1

Figure

Attachment 2 Table

Protocol and Field Data Sheets

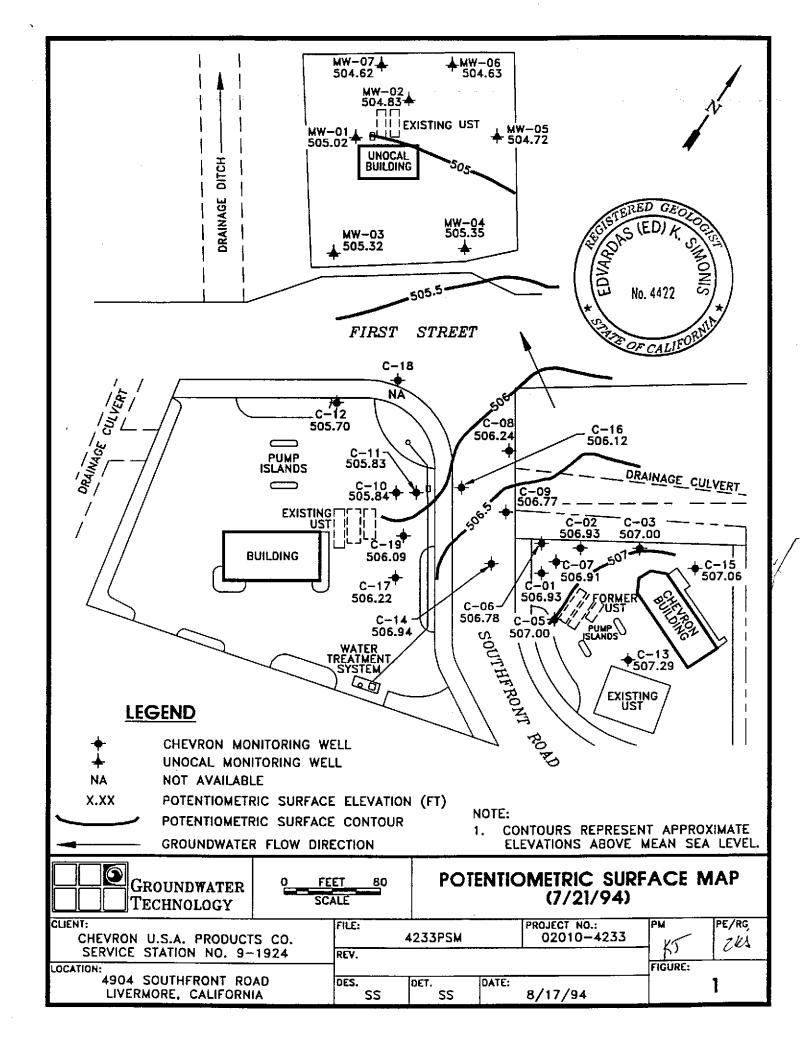
Attachment 3
Attachment 4

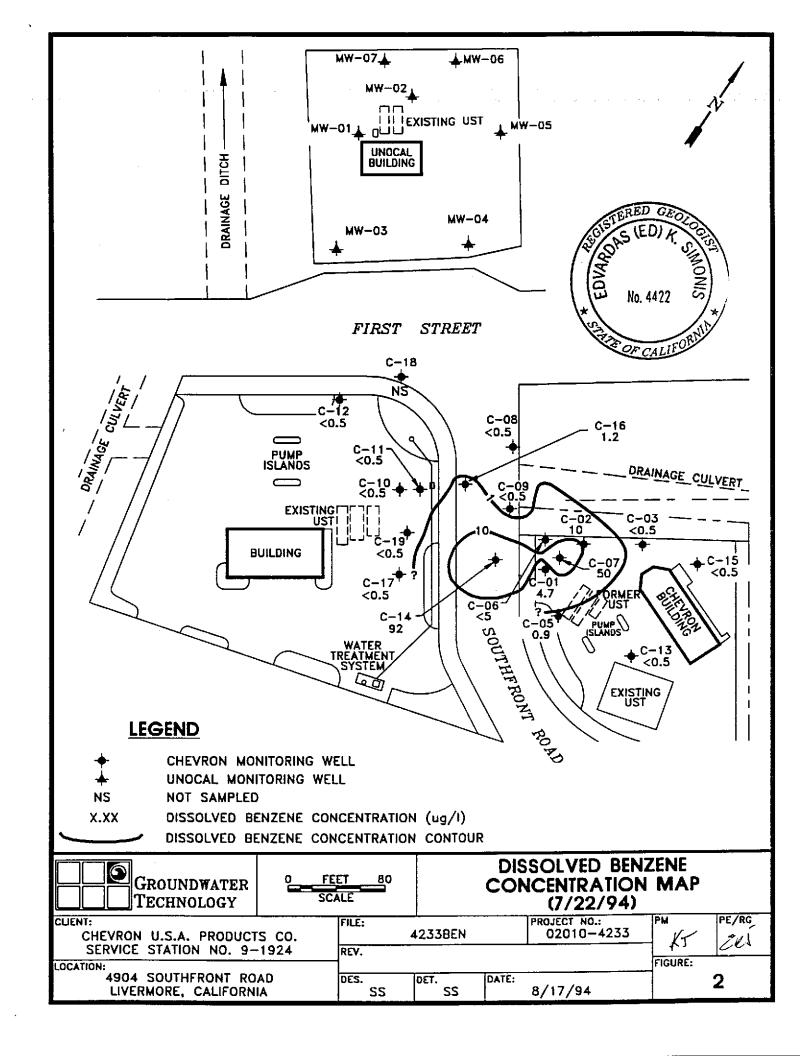
Attachment 4 Laboratory Report

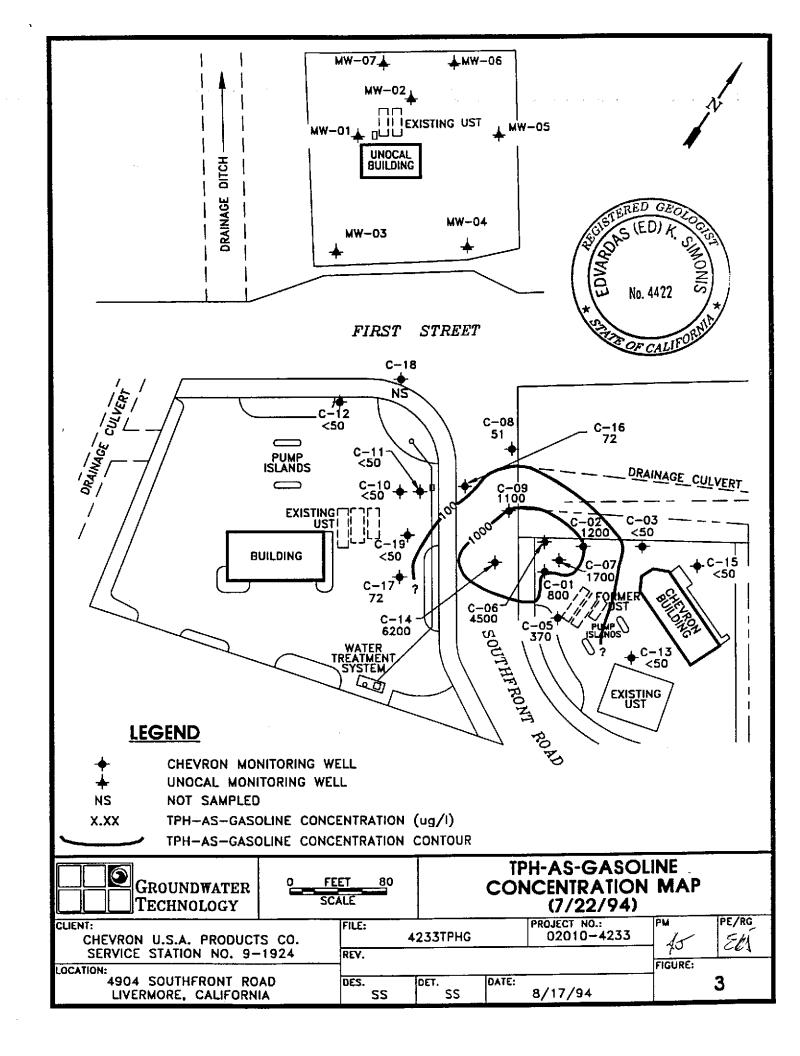
ATTACHMENT 1

Figure









ATTACHMENT 2

Table



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

WELL ID/			ETHYL-				1,2-			11111-	1,1-		TOTAL			
ELEVATION	BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	LEAD	DTW	SPT	WTE
(TOC) DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-1 03/28/86			_		_		-			_	_	_	-	11.75	0.00	508.64
520.39 03/15/88	770	87	610	2,100	27,000				200 000 000 000	3 W 3 S				13.50	0.00	506.89
05/10/88		-			_		-			-	-	-	-	13.65	0.00	506.74
06/10/88						200 (CO)								14.72	0.00	505.67
07/25/88					_		-			_				13.50	0.00	506.89
10/13/88	220		62	130	3,200		90 000 000 8		.0				•	12.89	0.00	507.50
01/01/89							.,							12.89	0.00	507.50
01/12/89	820	43	490		4,000							· · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·
04/10/89	100	ND	70	50	4,000							en de la companya de		13.65	0.00	506.74
04/10/89	100	ND		50	4,000		NC							13,65	0.00	
06/26/89	97	20	60	50	600	ND	3			— 000000000000000000000000000000000000	-	— ************************************		13.94	0.00	506.45
06/26/89	86 64	15	44	35	570	ND	1.7		:0000000000000000000000000000000000000		000000000000000000000000000000000000000	00000000000000000000000000000000000000		13.94	0.00	506,45
10/13/89	36	ND 0.68	51 30	48 30	1,600 1,100		ND)	 Letter ditte beditek		-		***********	13.92 13.80	0.00 0.00	506.47 506.59
01/03/90 05/08/90	37	9.2	40	30 32	1,300	000000000000000000000000000000000000000	1.2	0.000 0.000 0.000 0.000	ND		ND	60000000.60.00. 60		13.91	0.00	506.48
09/29/90	19	1.2	32	31	350	.00000000000000000000000000000000000000	NE	ND			ND	**********		13.93	0.00	506.46
01/03/91	12	ND	17	14	400	900000000000000	NΓ	N ND	ND	NF	ND	NC) 	13.85	0.00	506.54
04/12/91	12			1611150 X 1800 X 2 X 2 X 2 X 2 X 2 X 2 X 2 X 2 X 2 X	***************************************	00000000000000000000000000000000000000	000010100100000 20250350150000			1000 0000 0000 000 9000 0000 0000 000	00000000000000000000000000000000000000	0		13.51	0.00	506.88
09/04/91						400-00-00-00-00-00-00-0	northalair viscinosia —		anon ano ano antanà	0.650,4506,0650,066	(15,40),(15,00,400,900,400) 			14.10	0.00	506.29
04/06/92	12	8.0	31	31	1,000	20.20.000.000.000 20.30.602.000.000	. NE	ND ND	ND	NE	ND	NE) · · · · · · · · · · · · · · · · · · ·	13.06	0.00	507.33
07/28/92	47	110	96	260	4,200									13.93	0.00	506.46
10/16/92	11	ND	32.0	55.0	1,800									14.45	0.00	505.94
01/14/93*	24	ND	98	62	2,000							-		11.23	0.00	509.16
03/26/93	21		120	100	4,400	<u>.</u>	<u> </u>		<u> </u>				•	10.94	0.00	509.45
04/22/93	26	44	580	330	18,000			┨	-		-	_	-	16.25	SHEEN	504.14
07/20,21/93	73	11	470	470	7,100**			line in the			000000000000000000000000000000000000000			15.29	0.00	505 10
10/20/93	19	26	260	190	880**								-	13.50	0.00	506.89
01/20/94	13	10	130	60	2,900	300 C			77	::::::::: :	· · · · · · · · · · · · · · · · · · ·			13.26	0.00	507,13
04/21/94	8.8 4.7	7.8	82	34	1,400	200000000000000000000000000000000000000	2000 (54 200 200 200 200	100000000000000000000000000000000000000	20020000000000000000000000000000000000	 (95 (93 093 093 094 094	-1,0000000000000000			13.46	0.00	506.93
07/21,22/94	4.7	2.7	34	13	800			1			.		- NO	13.46	0.00	506.93

Page 1 of 18



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

WELLID/				ETHYL-				1,2-			1,1,1-	1,1-		TOTAL			
ELEVATION	DATE	BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	LEAD	DTW	SPT	WTE
(100)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-2	03/28/86 03/15/88			 	4 200	22.000	-	 		 		 :::::::::::::::::::::::::::::::::::			11.98 13.77	0.00 00.00	508.78 506.99
520.76	05/10/88	3,900	1,900	1,200	1,200	22,000					0.50.505.08089	000000000000000000000000000000000000000	60800000000000		14.03	0.00	506.73
	06/10/88		::::::::::::::::::::::::::::::::::::::					133103143					4		15.12	0,00	505,64
li i	07/25/88		_							-			-		13.86	0.00	506.90
	10/13/88	ND	ND	ND	ND	ND				10000500000					14,11	0.00	506.65
	01/01/89	 						 .o					- 1600-0-600-0-00		12.83	0.00	507.93
	01/12/89 04/10/89	25 2.5	ND	83 15	59 12	1,000 600	ND	ND	100 to 10		XXXXXXXXXXXX				14.04	0.00	506.72
	04/10/89	ND			์ ที่ใ	ND		NO							14.04	0.00	506.72
1	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	 Noncoscosconomo	ND					-		13.92	0.00	
1	01/03/90 05/08/90	3 1.3	ND 2.7	19 8.4	17 11	880 340	100000000000000000000000000000000000000	1.1	0.80 × 00 0000 0	ND.		ND.			14.11	0.00 0.00	506.65 506.48
	09/29/90	ND		4.6	1.8	74		ND	, ND			ND			14.25	0.00	506.51
	01/03/91	270	ND	79	93	2,000		ND	ND	ND) -	14.15	0.00	506.61
	04/12/91				· · · · · · · · · · · · · · · · · · ·			000000000000000000000000000000000000000				7 (a. 15) (b. 57)	300	d	13.86	0.00	506.90
	09/04/91			e	en Salata ga salata da salata ga salata			 (10010100000000000000000000000000000						- 	14.50	0.00	506.26
	04/06/92 07/28/92	ND 5.2	ND 2.9	54.0 26	6.1 16	1,200 1,000		ND	NO	ND	ND	ND	NE		13.47 14.35	0.00	507.29 506.41
]	10/16/92	ND		20	10	2,000		536.500 1.500.60		o observance de		X C X X X X X X X X X X X X X X X X X X			14.84	0.00	505.92
1	01/14/93*	49	50	31	29	1,800							-	-	11.22	0.00	509.54
1	03/26/93	15	12	14	6	820**		••	. 0000 0000 0000		0 100 100 100 100 100 100 100 100 100 1	0.000 (0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0			10.77	0.00	509.99
	04/22/93	12	12	28	29	2,000					 00000000000000000000000000000000				12.93	0.00	507.83
	07/20,21/93	28 140	8 18	22 22	27	1,100** 1,600**	. 182 - 131 - 162 - 152	5.KÖ.KÜX.; XÖXÖX	: x 6 x 6 x 6 x 6 x 6 x 6 x	2000 000 x 000 70	00000000000000000000000000000000000000	0.0000000000000000000000000000000000000	6000 000 000 00 0	0.0000000000000000000000000000000000000	16.02 13.84	0.00	504.74 506.92
	01/20/94	36	10	7		760]	13,60	0.00	507.16
	04/21/94	23	2.8	6.8	6.8	430	por e o como de como d 	possuudududooddiidii 	00000,00000,000000	•0000000000000000000000000000000000000	pac o le decendado (cal 166) —	জ্ঞান কর্মনার ক	**************************************		14.10	0.00	506.66
<u> </u>	07/21,22/94	10	2.8	5.2	53	1,200			<u></u>		<u> -</u>			NO	13.83	0.00	506.93

Page 2 of 18



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

WELLID/			TOUR	ETHYL-	WI CHES	TOUG	TOO	1,2-	OTHER		1,1,1-	1,1- DCA	PCE	TOTAL	DTW	SPT	WTE
ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	DCA (ppb)	OTHER (ppb)	MC (ppb)	TCA (ppb)	(ppb)	(ppb)	LEAD (ppb)	(feet)	(feet)	vvı⊏ (feet)
C-3	03/28/86	(PP2)	<u> </u>		-					_					12.24	0.00	509.07
521.31	03/15/88	86	8	30	36.0	2,100	. 15.51 26.7 27.2 <u>2</u>	101-00-00-00-00-00-00-00-00-00-00-00-00-	2 0000 000 4000 000 2 0000 000 000 000 00						14.21	0.00	507.10
· [05/10/88			-								_	_	_	14.43	0.00	506.88
	06/10/88			: ::::::::::::::::::::::::::::::::::::						00200000000 0		0.00000000000000	i en en en en en en		15.53	0.00	505.78
	07/25/88	 ND	 ND	- ND	- ND		 	000000000000000000000000000000000000000	0.000.000.000.000.000			-	- -		14.22 14.10	0.00 0.00	507.09 507.21
	10/13/88 01/01/89	JNL	······································	UNIO	שואו	שאו			X0X0X000000						12.70	0.00	508.61
	04/10/89	2.1	ND	4.4	2.6	200	ND	1.4		n. 2000 000 000 000 000 000 000 000 000 0		100000000000000		0.0000000000000000000000000000000000000	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	ON.	ND		ND			DI	2 0 0 1 0 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1	7			.		14.70	0.00	506.61
	01/03/90	ND	ND		1.4	ND		0.7					-		14.42	0.00	506.89
	05/08/90	ND	ŊĎ		k after a transfer of the second of the seco			0.7	N.D.	NC		NE			14.65	0.00	506 66
	09/27/90	ND	1.0 ND	ND ND			 Scottores (1869)	ND ND				NE NE		- 	14.67 14.58	0.00	506.64 506.73
	01/03/91 04/12/91	ND ND	ND	🛊 en ra versione en reconstruit de la transferior de la transferi	ND ND			ND ND	ND	jini tarihan ya sinususin wasana safir	ND	til til sammanna statiska statiska sammanna s	n 🌆 an	en la companya de la	14.23	0.00	507.08
	09/04/91	ND	ND				× 10000 × 10000 × 10000	סוא ו							14.88	0.00	506.43
	04/06/92	ND	ND	Control to the control of the contro	ND			ND	ND	NC)	13.83	0.00	507.48
	07/28/92	מא	ND		1.1	80	6.000 000 000 000 000 000 000 000 000 00		A 100 100 100 100		9				14.80	0.00	506.51
	10/16/92	ND	ND		11	1,400		-		_	-	-	-	-	15.23	0.00	506.08
	01/14/93*	ND	ND												11.45	0.00	509.86
	03/26/93	0.7	1	ND			— dotaka saada da	-		egeneendengeneende		= :p:xxc:xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		6 /10010000000000000000	11.27	0.00	510.04 508.70
	04/22/93	ND	ND ND	∮ononoronananananyi <u>ya</u> r	the control of the co		2.080803033	0.0000000000000000000000000000000000000	1000 100100 00		100000000000000000000000000000000000000	such intexes.		6 40000 000000000000	12.61 16.17	0.00	505.14
	07/20,21/93 10/20/93	DN DN	ND	ND		l Nn	::::::::::::::::::::::::::::::::::::::	0.0000000000000000000000000000000000000				00000000000	<u> </u>		14.23	0.00	507.08
	01/20/94	ND	ND	1 2000000000000000000000000000000000000		ND	905 POR PROPERTY	**************************************	M-164000000000000000000000000000000000000	terioriera (sere) •••	40 (167) (170 (170 (170 170) 	\$0000000000000000000000000000000000000	op versionen men in	kitariya sa Sitariya ilika 	14.01	0.00	507.30
	04/21/94	NO	ND	ND		div.	1000 0 0 0 0 0 <u>0</u>	<u> </u>	<u> </u>			0.0000000000000000000000000000000000000	4	x	14.33	0.00	506.98
	07/21,22/94	ND	ND	ND	ND	ND		P-4				<u> </u>	<u> </u>	- ND	14.31	0.00	507.00 se 3 of 18

GROUNDWATER TECHNOLOGY •

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

WELLID/		BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	TPH-G	TOG	1,2- DCA	OTHER	мс	1,1,1- TCA	1,1- DCA	PCE	TOTAL	DTW	SPT	WTE
ELEVATION (TOC)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-5	03/28/86		-		-				_		-		-	_	12.00	0.00	508.82
520.82	03/15/88 05/10/88	82	7_	77	95	1,600		.0,	-			3000 0000 000 0 <u>62</u> 			13.75 13.92		507.07 506.90
	07/10/88 07/25/88	<u> </u>			_	5		1000 1000 1000 10 <u>0</u> 1000 100 100 100 100					.63.070.6363		13.72 13.72		507.10 507.10
	10/13/88	ND	ND	ND	NE.	2,500	**			•					13.84 13.41	0.00	
	01/01/89 01/12/89	42		44	52											0.00	
	04/10/89 06/26/89	2.6 7.6		6.2 40			ND ND	1.5	-	-		•		-	13.88 14.14	0,00	506.68
	10/13/89 01/03/90	ND 0.7	ND	8	NC 6	ND	ND -	ND		-	•		000000000000000000000000000000000000000	•• ••	14.15 14.10		506.67 506.72
	05/08/90 09/27/90	0.6 ND	0.8 3.2	11 5.2	7.2 6.4	140 360		0,8 ND	- NE	- NC) 0.7		ON K	-	 21:00:00:00:00:00:00:00:00:00:00:00:00:00	14.00 14.00	0:00 0:00	506.82 506.82
	01/03/91	ND	ND	ND	3	90		ND	NE) NC	NE	ND	NE) -	14.00	0.00	506.82
	04/12/91	12			Province and the second	270	<u>.</u>	0.5	Ņţ						13,71	0.00	507.11
1	09/04/91 04/06/92	ND 12	ND ND		NC NC	ND 670		ND ND							14.30 13.29	0.00 0.00	506.52 507.53
	07/28/92	15	ND	1.8	0.5	130	-		-	-	-		-	-	14.13	0.00	506.69
	10/16/92 01/14/93*	ND 13	ND ND	ND 110	1.2 10	ND 2,300			-					-	14.68 11.87	0.00	506.14 508.95
	03/26/93			-	.		***************************************						30 30 30 3		**************************************		000 0000000 000 000 000 000 000 000 00
	04/22/93	220 18	18 5	120 B	65 14	2,300** 970**							-	 	12.12 16.04	0.00 0.00	508.70 504.78
	07/20,21/93 10/20/93	7	5 5	3	15	2,200	-		-				3500.000.000.00	0.000.000.000.000.000	14.10	0.00	506.72
	01/20/94	2		13	0.6	440									13.60	0.00	507.22
	04/21/94 07/21,22/94	2.7 0.9	2.6 ND	21 6.5	1.5 1.0	490 370	-		-	-			-		13.81 13.82	0.00 0.00	507.01 507.00
[<u></u>	V 1/41,4434	4		100000000000000000000000000000000000000	100000000000000000000000000000000000000	40000000000000000000000000000000000000	10,000 0,00000000000	ଦ୍ରବା ବଳ କଳା ଦିବା ବିଦ୍ୟାନ୍ତିକ	Care and the second	d.	1	dracas recisión de la					

Page 4 of 18



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

WELL ID/				ETHYL-				1,2-	1		1,1,1-	1,1-		TOTAL			
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	LEAD	DTW	SPT	WTE
(TOC)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-6	03/26/86						-	-	-	-	-		-		11.12	0.00	508.50
519.62	03/15/88	870	4,600		8,200	46,000		x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0			10818010000	. 0.80 80 80 80 80			12.93	0.00	
li	05/10/88	1,400	10,000	3,000	19,000	86,000		-	-	-	-		-		13.03	0.00	506.59
	06/10/88		33, 2, 21 30, 240 50 50 50		63100000000000000000000	er were wer t	escursores e	ali en reneration 🕏	1808080000					,	14,11	0.00	505.51
	07/25/88		 	260	4 500	 Ann			- **************			estectechnosses	- - 	- 	12.95	0.00	506.67
	10/13/88	300	600	200	1,600	5,300		::::::::::::::::::::::::::::::::::::::	k seek kokeakaa ka					5 SC 8 SC 9 S S 5	13.14 12.14	0.00	506.48
	01/01/89 01/12/89	260	110	270	720	5,000		0.00.0000000000000	. x . : x : x x x x x x x x x x x x x x		.00000000000000000000000000000000000000	0207000000	-		12.14	0.00	507.48
	04/12/89	90	190	190	680	5,000		NE		0.0000000000000000000000000000000000000	0030,3030808080		***************************************	\$1000000000000000000000000000000000000	12.98	0.00	506.64
	06/26/89	77	250	140	610	3,600					V650 000 000 000 0 <u>4</u>	XC 30 X 30 X 30 X 30 X			13.39		506.23
	10/13/89	32	81	100	530	3,500	ND			-		000000000000000000000000000000000000000	-	- 100000 × 00000000 0000	13.40	0.00	506.22
	01/03/90	20	97	65	410	3,200			10000000000000	4			000000000000000000000000000000000000000		13.18	0.00	506,44
	05/08/90	17	140	ND	400	1,800		1.6		- NC		ND	-	+	13.39	0.00	506.23
	09/29/90	58	210	260	2,100	8,000		1.0		gen a contrata a companya a contrata a contrata de la contrata de la contrata de la contrata de la contrata de		1.6	000000000000000000000000000000000000000		13.32	0.00	
	01/03/91	4	79	59	380	2,300	== 	0.5	NC) NC	ND	ND ND	NE.]	13.19	0.00	506.43
	04/12/91								0.0000000000000000000000000000000000000	000000000000000000000000000000000000000	.000000000000000		· · · · · · · · · · · · · · · · · · ·		12.91	0.00	506.71
	09/04/91 04/06/92		120	740	3,400	44,000	**********	- NE	- NE	NE	NE	ND			13.56 12.48	0.00 0.00	506.06 507.14
	07/28/92	ND 220	1,100		13,000	120,000					1314		NE		13.47	0.00	506.15
	10/16/92	ND	830	3,300	9,600	570,000			100000000000000000000000000000000000000				20000000000		13.95	0.00	505.67
	01/14/93*			460	980	19,000	-		-				* 50000110101111101101101	D 4 101 100 101 D000 1003	10.39	0.00	509.23
	03/26/93	ND 30	90	290	1,100	11,000**					300000000000000000000000000000000000000	• • • • • • • • • • • • • • • • • • •		4	9.83	0.00	509.79
	04/22/93	29	170	640	2,400	20,000		-		_		-	-	-	11.32	0.00	508.30
	07/20,21/93	130		1,000	4,900	32,000**				20 X X X X X					14.92	TRACE	504.70
	10/20/93	290	790	2,500	7,600	77,000**			-				-	1	12.91	0.00	506,71
	01/20/94	10		510	29	22,000						1888 (88) KA P	.0:0:0:0:0:0:0	0.000.000.000.000	12,68	TRACE	506.94
	04/21/94	17	42	160	210	6500	 ::::::::::::::::::::::::::::::::::	 					**************		12.88	0.00	506.74
II	07/21,22/94	ND		130	130	4,500		20000000000000000000000000000000000000	100000000000000000000000000000000000000	Secretaria de la composición dela composición de la composición de la composición dela composición dela composición dela composición dela composición de la composición de la composición del composición dela composición d	1		t	- NU	12.84	TRACE	506.78

Page 5 of 18



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

WELL ID/				ETHYL-				1,2-			1,1,1-	1,1-		TOTAL			
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	LEAD	DTW	SPT	WTE
(TOC)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-7	03/28/86		_	_		-		_			-		-		11.67	0.00	
520.30	03/15/88	98	690	120	120	8,000			<u> </u>						13,48	0.00	506.82
	05/10/88	••	-	-	-		-		-				-	-	13,60	0.00	506.70
1	06/10/88									2000 x 0 x 0 x 0 x 0 x 0 0	. x 6 x 55 x 57 x 5 x 5				14 68	0.00	
	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	
	01/01/89		47	670	640	8,000	**********	**************************************			29-29-29-29-29-29-29-29-29-29-29-29-29-2	-			12.66	0.00	507.64
1	01/12/89	950 1,100		760	370	6,000		ND	0.000,000,000,000	000000000000000000000000000000000000000	000000000000000000000000000000000000000		1000 1000 0000		13.60	0.00	506.70
	04/12/89 06/26/89	1,300	50 50	600	340		ND			*********				decessored	13.88	0.00	506.42
1	10/13/89	1,300			150	3,900		ND		100000000000000000000000000000000000000	200200000000000000000000000000000000000				13.81	0.00	506.49
li	01/03/90	1,200	13	180	200	5,600						0.000.000.000.000	0.000000000000000000000000000000000000	200000000000000000000000000000000000000	13.71	0.00	506.59
	05/08/90	1,100		110	140	3,500		1.7		ND		ND	-		13.85	0.00	
	09/29/90	580	ND		68	2,400	· · · · · · · · · · · · · · · · · · ·	0.7	ND		ND	NC	NE	.	13.80	0.00	506.50
il .	01/03/91	300	2	110	120	2,500		0,7	ND		ND	ND.	NE)(13.71	0.00	506.59
-	04/12/91	190	1	81	87	2,300		0.6	ND	ND	ND	NC	NE	, -	13.46	0.00	
	09/04/91		-						_	_			_	-	14.09	0.00	506.21
	10/07/91	170	1.9	97	59	4,700		ND	(*) 0.000 (*) 0.000 (*) 0.000 (*) 0.000	(****************	ND ND	NE	NE NE	 			
] .	04/06/92	95	0.8	110	100	2,400		ND	ND	ND	ND	ND	NE		13.02	0.00	507.28
	07/28/92	120	3,4	110	110	2,000	0.000,000,000,000				000-000-000	000000000000000000000000000000000000000		\$100.000 Miles	13.76	0.00	506.54
1	10/16/92	130	4.2 33	68 380	74 210	2,700 7,800	anakalijiadaji						************		14.42 10.98	0.00	505.88 609.32
]	01/14/93*	160 39	93	28	210 15	1,400	0.000,000,000,000	0.000.0000.0000000	\$0000 KON (008000)	1080800000000		. 2020000000000000000000000000000000000	************	000000000000000000000000000000000000000	10.61	0.00	509.69
	03/26/93 04/22/93	130	18	43		3,800		100000000000000000000000000000000000000		0.000.000.000.000		0.0000000000000000000000000000000000000	0.000.000.000.000.000		11.84	0.00	
	07/20,21/93	35		61	87	1,900	_		200000000000000000000000000000000000000	0.000.0000.0000000000000000000000000000	\$ × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 ×	0.0000.0000.000.000		490250000000000	15.36	SHEEN	504.94
	10/20/93	72		250	160	5,500	<u>2</u>			0.000.000.000				200000000000000000000000000000000000000	13.41	0.00	506.89
	01/20/94	12		150	69	3,600	000000000000000000000000000000000000000	:es.es:es:es:es:es:es:		0.000.000000000000000000000000000000000	PMC101700000000000	pp.com.com	-		13.19	SHEEN	507.11
	04/21/94	62	41	170	68	2,100			2		· · · · · · · · · · · · · · · ·				13,33	0.00	506.97
	07/21,22/94	50		110	22	1,700			-	-				ND	13.39	0,00	506.91

Page 6 of 18



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

WELLID/				ETHYL-				1,2-			1,1,1-	1,1-		TOTAL			
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	LEAD	DTW	SPT	WTE
(TOC)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-8	03/28/86				_	-		-	-		-	-	-	-	11.78	0.00	507.96
519.74	03/15/88	360	25	10	ND	7,500	************		0.0000000000000000000000000000000000000				46000000000		13.63	0.00	506.11
1	05/10/88					= •			-				-	-	13.74	0.00	506.00
	06/10/88	### ### ### ### ######################	·			inerciorectoen 🛪	200 00 00 00 00 00 00 00 00 00 00 00 00	180 mm 190 mm	*********			.000.000.0000	080.000.000	9.000,000,000,000	14.89 13.65	0.00 0.00	504.85 506.09
	07/25/88 10/13/88		5.3	ND	ND	NE		-	• •	100,000,000		100000000000000000000000000000000000000	-		13.78	0.00	505.96
	01/01/89			0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x	-					-			-	-	12.68	0.00	507.06
	01/12/89	37	4	1	5	ND		333 333 333 33			.00000000000000000000000000000000000000						000000000000000000000000000000000000000
	04/12/89	13	ND	ND		3,000		5	-	-			-	-	13.77	0.00	505.97
	06/26/89	14	6	ND					000000000000000000000000000000000000000			530 SS SS 55			14.03	0.00	505.71
	10/13/89	l ND	ND		ND	ND					*************		-	-	14.06	0.00	505.68
	01/03/90	ND	ND 6	0.5	3.4	910 620		1.5 1.9	000000000000000000000000000000000000000	- ND	3330 X83 X83 XX	ND	000 000 000 000 000 000 000 000 000 00	7	13,74 14.10	0.00	506.00 505.64
	05/07/90 09/ 29 /90	3.9 NE	_	O.S ND			_	NE	NE		NE		-		13.97	0.00	505.77
1	01/03/91	2	2	ND	2	67		ND				ND) 	13.81	0.00	505.93
	04/12/91	$\tilde{4}$	ND			180	-	0.6	NE) ND	NE	ND	NE) .	13.60	0.00	506.14
1	09/04/91	1.8	4.7	8.0	4.8	140	_	ND.					NE	_	14.14	0.00	505.60
	04/06/92	ND						ND) NE	לוא ל	ND	MD	NE		13,12	0.00	506.62
,	07/28/92	ND			0.8	90 51			-						14.10 14.57	0.00 0.00	505.64 505.17
	10/16/92 01/14/93*	ND ND		1.0	ND 3.5	120			0.0000.0000.000000					20000000000000000000000000000000000000	10.95	0.00	508.79
1	03/26/93	IND	1.0	1.0	J.J					•					10.00	0.00	
	04/22/93	ND	0.6	0.6	0.8	68**			-			, ucuno o concesco do co			12.07	0.00	507.67
	07/20,21/93	NĒ	ND	NO		ND		***				2 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 ×		1	15.70	0.00	504.04
	10/20/93	ND.	ND			ND		_	-						13.51	0.00	506.23
	01/20/94	NE				NC							::::::::::::::::::::::::::::::::::::::		13.51	0,00	506,23
	04/21/94	ND		ND					-					- NE	13.68 13.50	0.00 0.00	506.06 506.24
II.	07/21.22/94	NE	ND	ND	ND	0 1	} · · · · · · · · · · · · · · · · · · ·		1		000000000000000000000000000000000000000	pacon (000 0.66 0.66	100000000000000000000000000000000000000		13,301	UUU	JUQ 44

Page 7 of 18



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

WELL ID?				ETHYL-				1,2-			1,1,1-	1,1-		TOTAL			
ELEVATION (TOC)	DATE	BENZENE	TOLUENE (ppb)	BENZENE (ppb)	XYLENES	TPH-G (ppb)	TOG (ppb)	DCA (ppb)	OTHER (ppb)	MC (ppb)	TCA (ppb)	DCA (ppb)	PCE (ppb)	LEAD (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
The state of the s	And the second	(ppb)	(han)	(500)	(ppb)	(PP0)	Thhn)	(PpD)	Then?	т (рро/		[Pho	(292)	(ppo)	11.24	0.00	508.28
C-9	03/28/86 03/15/88	540	560	- 580	3,900	29,000									12.92	0.00	506.60
519.52	05/10/88	9 4 V	-			29,000	***************************************	0.0000000000000000000000000000000000000					100000000000000000000000000000000000000		13.12	0.00	506.40
	06/10/88			3		l		0.0000000000000000000000000000000000000							14.16	0.00	505.36
	07/25/88			4534450445046046046046				o(o)co(co(co)co	-	-	-				13.00	0.00	506.52
	10/13/88	57	8	20	150	2,200	**********		ŧ	ł		∮ ‱∞⊬			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				-	-	-		-	13.11	0.00	506,41
	04/11/89	14	25		290	6,000		NC)						13.11	0,00	
	06/26/89	37	63	140	690	3,900				-	-	-	-	-	13.40	0.00	506.12
	10/13/89	7	NE	26	50		DM			† · · · · · · · · · · · · · · · · · · ·		**************************************	***************************************		13.46	0.00	
	01/03/90	ND		202	37	1,500		1.5				- NE		-	13.30 13.48	0.00	506.22 506.04
	05/07/90	21	33	89 31	500 110	7,100 1,000		1.9 1.0	NE	ND 0.7	1.8		0.000.000.000		13.39	0:00	506.13
519.72	09/29/90 01/03/91	21 NE	3.9 NE		140			0.8	NE				NC	1	13.28	0.00	506.44
519.72	04/12/91	300	100				299898989888	-	******************************	100000000000000000000000000000000000000			-		13.00	0.00	506.72
	09/04/91	38 PE (100 PE)						0 000 00 00 00 00				+			13.61	0.00	506.11
	04/06/92	NC	ND	33	130	2,800	0000000000000000000	ND) NE) ND	NE	ND	ND) ~	12.54	0.00	507.18
	07/28/92	6.5	2.4	17	37	1,000		o oce rockow sa		4	.		.		13.45	0.00	506.27
	10/16/92	ND.	730	960	2,000	190,000		••	-	-	-		-	-	13.98	0,00	505.74
	01/14/93*	NE	ND	27	77	2,200					**************************************		150500000000	00,000,000,000	10,44	0.00	509.28
	03/26/93				en esta esta esta esta esta esta esta esta				<u> </u>	-						ene On and a source property page	
	04/22/93	60	40		98				100000000000000000000000000000000000000	1	.				11.43 15.20	0.00	508.29 504.52
	07/20,21/93	160 22	130	450 440	1,100 930		 108138138138138138	 13101010390103103	100000000000000000000000000000000000000	vokakovokove		000000000000000000000000000000000000000			12.96	0.00	506.76
	10/20/93 01/20/94	55	200 57	27	210	12,000			1,000,000,000		\$2.89.00 S.0808 B				12.84	0.00	506.88
	01/20/94	11			210 19		ļ	01 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	l ::::::::::::::::::::::::::::::::::::	ļ <u>.</u>			∤ ::::::::		Company (00.0	506.58
	07/21.22/94	NC		14	10		_	ngancasnaansaasaas 	-	× 000000 00000000000000000000000000000	P 0.000.000000.000.000	ap. 00-80000000000000000000000000000000000		13	12.95	0.00	506.77
	U, / & 1, L L UT		- 7,5			,				•		•	•				16 8 of 18

Page 8 of 18



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

WELLID/				ETHYL-				1,2-			1,1,1-	191-		TOTAL	<u></u>		
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	LEAD	DTW	SPT	WTE
(TOC)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)_	(feet)
C-10	03/28/86		-				·	-	_	-					4		
520.41	03/15/88	7	ND	ND	ND	90	::::::::::::::::::::::::::::::::::::::	· · · · · · · · · · · · · · · · · · ·	CONTRACTOR CON						14.86	0.00	
	05/10/88			-	-			-	-	-	-	-	-		14.90	0.00	505.51
	06/10/88	.	•			-	· · · · · · · · · · · · · · · · · · ·		.						15.94	0,00	
	07/25/88	-	-		-			-		-	-		-	-	14.85	0.00	505.56
	10/13/88	ND	ND	ND	ND	ND					d			.	14.90	0.00	
	01/01/89	<u> </u>							•	-		55,200,000,000,000,000	10000001000000000000	50 4 5004 504 504 504 504	14.83	0.00	505.58
	01/12/89	ND		ND	йД	ND						0,000,000,000	000000000000000000000000000000000000000		4400	~~~	FOF F4
	04/11/89	4.8	ND	ND	ND	ND	ND			(246000000000000000000000000000000000000		0.0000000000000000000000000000000000000	4000-00000-00		14.90 15.12	0.00	505.51 505.29
	06/26/89	0.7	ND	姬	1.5	ND	4.0 ND	NC		0.0000000000000000000000000000000000000		0.0000000000000000000000000000000000000	2 000 000 000 000 X	3 (38) (38) (88) (88)	15.11	0,00	
	10/13/89	ND		ND	ND ND	DN DN	NU	NE 3	<u>-</u> -	- 			N/2000/00/2000		15.01	0.00	
	01/03/90	ND ND		ND ND	ND	ND		NE		- NE	J. 888.888.888.88	ND			15.53	0.00	
	05/07/90	ND NB		ND ND	ND ND	ND ND	eriosos ercerceros	NE						20 100 100 100 100	15.20	0.00	
	09/27/90 01/03/91	ND		ND	ND	ND	0.6300.0800.0000.00	NE						3)::::::::::::::::::::::::::::::::::::	15.06	0,00	
	04/12/91	16	ND		2.7	110	0.0000.00.00.00.00		NE		NÖ				14.86	0.00	
1	.09/04/91	ND		ND	ND	ND	80 800 81 81 81 81 81 81 81 81 81 81 81 81 81	ND							15.22	0.00	505.19
	04/06/92	ND			ND	57	0 NO X 10 1 K 10 10 K	101	NE						14.21	0.00	506.20
	07/28/92	ND		ND ND	ND	ND		();;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	***************************************	000000000000000000000000000000000000000		N 160 A 100 A	14 000 1400 044 1004 1	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	14.78	0,00	
	10/16/92	NO.			ND	ND			<u> </u>	4	4	.			15.51	0.00	
i i	01/14/93*	4.7	ND	2.3	1.6	88				-	-				13.44	0:00	506.97
	03/26/93	ND	ND	ND	ND	ND					4			4	12.55	0:00	
ľ	04/22/93	ND	ND	ND	ND	ND		-	-	-		_	-		13.74	0.00	
	07/20,21/93	ND		ND	ND	100	Land Control of the C	•	0.000.000.000.000						16.49	0.00	
	10/20/93	ND	ND	ND	ND	ND		-	<u> </u>	-	1				14.64	0.00	
	01/20/94	ND	ND ND	ND		ND			1						14.39	0.00	
	04/21/94	0.8	ND	ND	ND	ND		-	-	- 			c 100 500 500 500 500 500		14.62	0.00	
L	07/21,22/94	ND	ND ND	ND	ND ND	סא		·	1	i	d		(- NE	14.57	0.00	505.84

Page 9 of 18



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

WELL ID/		BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	TPH-G	TOG	1,2- DCA	OTHER	мс	1,1,1- TCA	1,1- DCA	PCE	TOTAL	DTW	SPT	WTE
ELEVATION (TOC)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-11	03/28/86	_					-		-	_	-	-			13.82	0.00	
520.04	03/15/88	-	÷		a company			# 88 33 88 5							14,49		
	05/10/88 06/10/88		 		 2050 0000 2002 h.e.h e.h e.h <u>2</u> 2		_		•	 		_ 		 	14.31 15.47	0.00	
	07/25/88					***************************************	-	-				1466666666666]	1. 00 00 00 00 00 00 00 00 00 00 00 00 00	13.60	0.00	
	10/14/88	240	33	4.7	67	2	.	4:::::::::: :				ļ			14.53	0.00	505.51
	01/01/89			_			_		-	-	-	_			14.10	0.00	505.94
	01/12/89	ND		ND						+			1000 m				
	04/12/89 06/26/89	4.3 2	ND ND	ND MD	ND ND					 		-		-	14.36 14.58	0.00	505.68 505.46
	10/13/89	ND		ND ND			ND		3:	7]	-	14.71	0.00	505.33
!	01/03/90	ND ND				ND		ND		4				3698888888 8	14,61	0,00	
	05/08/90	12	11	0.9	22	110	-	ND	-	- ND		NE		***	15.53	0,00	504.51
	09/28/90	2.0	1.4	ND	3,3	ND		ND			garanteen, monte occurrence			*******	15.51	0.00	504,53
	01/03/91 04/12/91	2	ND	ND	2	ND	, 3::::::::::::::::::::::::::::::::::::	ND) NE	ם א) NE	NE.	<i>)</i>	 2002/12/2020/10/20	14.63 14.30	0.00	505.41 505.74
	09/04/91	9 55 55 7 5 5 7 5 7 5 7 5 7 5 7 5			88 292 383 883 885 885 	00 68 6100 1 000 108 0 00 -	_		_			(*:000 × 000 00 00 00 00 00 00 00 00 00 00]		14.84	0.00	505.20
	04/06/92	l ND	ND	ND	ND	NE	k	NC	NE NE) ND	NE	NE	ND K		13.56		
	07/28/92	ND		ИD	ND	ND		_	-	-	-	-			14.39	0.00	505.65
	10/16/92	ND			NĎ		ļ 	e de la compa	†			::::::::::::::::::::::::::::::::::::::			15.79	0.00	
	01/14/93* 03/26/93	ND 2	1.3 ND	0.7 0.6	ь 40	94 130			•		-	-		 	12.14 11.81	0.00	507.90 508.23
	04/22/93	0.8	ND	ND	ND	ND					8, 803, 603, 603, 603	50 1000 000 000 000 100	- 6000 000 000 000 000 000 000 000 000 0	60660 4 1716066 1664	12.94	0.00	507.10
	07/20,21/93		1	ND		1,200			ł	4	ł		<u> </u>	ania ilanii 4	16.48	0.00	503.56
	10/20/93	2	ND	ND	ND	ND**		-	-		-	-			14.46	0.00	505.58
ŀ	01/20/94	<u>, 5</u>	0,6	3		140						00 00 00 1			14 12	0.00	505.92
	04/21/94	1.7 NE	0.6 ND	1.2 ND	1.6 ND	86 ND		-	- 		-	-			14.24 14.21	0.00 0.00	505.80 505.83
	07/21,22/94	I NL	CONTRACTOR OF THE PARTY OF THE	I A STATE OF THE S	עאוייייייייייי	Lesson constitution in the	B		1			1	1		14-21	UUU	

Page 10 of 18



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

WELLID/		T		ETHYL-				1,2-			1,1,1-	1,1-		TOTAL			WTE
ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	DCA (ppb)	OTHER (ppb)	MC (ppb)	TCA (ppb)	DCA (ppb)	PCE (ppb)	LEAD (ppb)	DTW (feet)	SPT (feet)	w ⊨ (feet)
C-12	03/28/86	(ppo)	(PPD)	(040)	(PPO)	/Phn/	***(PPP)**	T (PPD)	(PPE)		(pps)	PPA	Thho!	···(Phn)····	13.61	0.00	
519.82	03/15/88	ND	מא	ND	ND	ND				9					14.55	0.00	505.27
0.0.02	05/10/88						-	-	-	-	************	-	4	**************************************	14.57	0.00	505.25
	06/10/88		38080000000000 0			3.2 S S 5	100000000000000000000000000000000000000								15.63	0.00	504.19
	07/25/88				 	 Periodo de pod	- 4 (1995) (1995) (1995)	-	- 	-		- 	4 N 5 (o		14.51	0.00	
	10/13/88 01/12/89	ND ND		and control for a control of the con	ND ND	ND ND	20320000000	5			000.000.000				14.60 14.62	0.00 0.00	505.22 505.20
	04/11/89	ND		ND	ND	DI	NE) NE		5 000 000 00000					14.61	0.00	505.21
	06/26/89	ND	ND	ND	ND	ND	NC) NE	}	-	-	-		************	14.75	0.00	505.07
	10/13/89	ND		ND	ND	ND	Nt	CONTRACTOR OF CONTRACTOR	X1000000000000000000000000000000000000		000000000000000000000000000000000000000			5 00 0000 000 000 5 00 000 000 000	14.77	0,00	
	01/03/90	ND		ND	0.6	ND	= 000000000000000000000000000000000000	- ND			-			as ren victor as respect	14.85	0.00	504.97
	05/07/90 09/27/90	ND ND	a protection and the control of the	ND ND	ND ND	ND ND		NE NE		, NE	NI	NE NE	Observed and advance and a		14.75 14.61	0.00 0.00	505.07 505.21
	01/03/91	ND			ND.	ON D	112024121212121	, INE	, , , ,) NE					14.01	0.00	505.21
li li	04/12/91					-	-		-	-		-	-	-	14.52	0.00	505.30
	09/04/91								<u> </u>	8 33 33 33 33				8.00 (000 000 000 000 000 000 000 000 000	14.83	0.00	504.99
	04/06/92	ND		ND	ND	ND	_	⊢ NC) NE) NC	N) NE) ND		13.81	0.00	506.01
	07/28/92	МĐ		NO	ND	ND ND	1000 200 000 000	0.000.000.000.000	1000 1000 1000	X X X X X X X X X X X X X X X X X X X	0.0000000000000000000000000000000000000	0.000 100 1000 100			14.32	0.00	505.50
	10/16/92 01/14/93*	ND ND		ND ND	ND 1.7	ND 65	- 218787878	200000000000000000000000000000000000000	-	- 20-20-20-20-20-20-20-20-20-20-20-20-20-2	- 	200000000000000000000000000000000000000	3000000000000		15.12 13.23	0.00 0.00	504.70 506.59
	03/26/93	0.9	ND	ND	ND	ND	:0000000000 0		-	-	0.0000000000000000000000000000000000000		300000000000000000000000000000000000000	4.000.000.000.000.000	12.20	0.00	507.62
	04/22/93	ND			ON	ND				4			0.00		13.21	0.00	506.61
	07/20,21/93	ND	ND	ND	ND	ND	-	-	-	-	-	-			16.71	0.00	503,11
	10/20/93	NĐ			ND	ND		3					1		14.19	0.00	505.63
	01/20/94	ND		ND *#*	ND stra	ND kun		- 	- 33:30:30:30:30:30:30:30:00:	 Yangan mengan		-			14.05	0.00	505.77
	04/21/94	ND ND		ND ON	ND ND	ND ND								МЦ	14.06 14.12	0.00	505.76 505.70
	07/21,22/94	ND.	ND	ND	ND	ND		1	<u> </u>	-		-		ND	14.12	0,00	505.70

Page 11 of 18



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

WELL ID/				ETHYL-				1,2-			1,1,1-	1,1-		TOTAL			
ELEVATION	DATE	BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	LEAD	DTW	SPT	WTE
(100)	· · · · · · · · · · · · · · · · · · ·	(ppb)	(ppb)	<u>(ppb)</u>	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-13	03/28/86	 	 5.000000.000.0000000000.00						-				_	-	12.95	0.00	509.29
522.24	03/15/88 05/10/88	4	DI	9	3	250		000000000000000000000000000000000000000					0.0000000000000000000000000000000000000		14.82	0.00	507.42
	06/10/88		 	 References includes in		 568666666666666666		- 		decides habian		2000.000.0000.000	-		15.03	0.00	507.21
	07/25/88					0.000.000.000.000.000	000000000000000000000000000000000000000	000 1000 100 100 100				(40.00000000000000000000000000000000000	acountain may as the	300000000000000000000000000000000000000	16 10	0.00	506.14
	10/13/88	1.9	ND	ND	ND	ם א		202002000000	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9000.0000000000000000000000000000000000			 201800000000000000000000000000000000000		14.73	0.00 0.00	507.51
	01/01/89	\$00.0000000000000000000000000000000000								1000 x 000 x 0000 x 00 y	660000000000000				14.91 14.10	0.00	507.33 508.14
	01/12/89	ND	0.6	4	ND	ND	000000 to 200 <u>22</u>	<u>-</u>	2 : 0: ::::::::::::::::::::::::::::::::	00410110001100			0.00.00.00.00.000	110000000000000000000000000000000000000	14.10	0.00	500.14
!	04/10/89	ND	ND	8	ND		ND	NE		1000000000000000	28-24-25-25-25-25-25-2	A0000000000000000000000000000000000000	00000000000000000000000000000000000000		14.99	0.00	507.25
	06/26/89	0,3	ND	CIM		ND	ND	NI NI) · · · · · · ·	000000000000000000000000000000000000000	23.000000000000000000000000000000000000	200			15 16	0.00	507.08
	10/13/89	ND	ND	ND	ND	ND	ND	NE) -		•	15 20 10 00 0 10 0 10 10 10 10 10 10 10 10 1			15.23	0.00	507.01
	01/03/90	ND	ND	0.5	0.6	ND		NO		-04-4-0000 × 000 ± 000 € -03-4-4-00 × 000 ± 000 €			000 0000 0000 0000 000 000 000 000 000		15.15	0.00	507.09
1	05/08/90	ND	ND	ND	ND	ND		NE		ND		ND			15.02	0.00	507.22
	09/27/90	ND		ND		ND		NI				on an annon an annon an			15.11	0.00	507.13
	01/03/91 04/12/91	ND	ND	ND	0.6	ND	 ***********************************	N [) ND	ND	ND	ND	ND]	15.08	0.00	507.16
	09/04/91		····				000000000000000000000000000000000000000				8	.00000000000000000000000000000000000000		88 1 882 1 8 3 1 8 3	14.77	0.00	507.47
	04/06/92	NO	ND	ND	ND	RA		- NE	מא ג	ND	NE	ND	NE	esementenia.	15.43 14.43	0.00 0.00	506.81 507.81
	07/28/92	8.2	ND	ND	1.1	66 60	0:0:0:0:0:0:0:0:0		- -						15.37	0.00	506.87
.	10/16/92	ND	ŃŌ	ND		ND			2500 000 000 0 <u>00</u>	15.100000000000 <u>0</u> 2		000000000000000000000000000000000000000	02000000000000		15.87	0.00	506,37
	01/14/93*	ND	ND	ND	1.3	100		-	-	**************************************	e:::::::::::::::::::::::::::::::::::::			4000000000000000000	12.83	0.00	509.41
	03/26/93	ND	ND	ND	ND	ND	00000000000000000000000000000000000000		4			00-7000 X000 X000	900 100 100 100 100 100 100 100 100 100	100100000000000000000000000000000000000	12.59	0.00	509.65
	04/22/93	ND	ND	ND	ND	ND		-	-			_		-	13.16	0.00	509.08
	07/20,21/93	4	13	2	7_	99			<u> </u>		. 60 POX 000 000 000	00000000000000000000000000000000000000			16.52	0.00	505.72
	10/20/93	ND	ND	ND	ND	ND		= -000000000000000000000000000000000000					en over verste verste en e		15.13	0.00	507.11
.	01/20/94	ND	ND	ND		ND			4 000 000 000 000 000 000 000 000 000 0						14.65	0.00	507.59
	04/21/94 07/21 22/94	ND ND	ND ND	ND ND	ND ND	ND ND				0000000000000000000	000000000000000000000000000000000000000	20.000.0000.0000.0000	 	-	14.88	0.00	507.36
	VIIZ1,2494	NU.	NU	ND	NU	INLA	<u></u>		4					- ND	14.95	0.00	507.29

Page 12 of 18



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

WELLID/				ETHYL-				1,2-			1,1,1-	1,1-		TOTAL			
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	LEAD	DTW	SPT	WTE
(TOC)	DATE	(ppb)	<u>(ppb)</u>	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-14	03/28/86	i								-		-	-				
520.08	03/15/88								77								
	05/10/88	13,000	29,000	2,700	18	120,000				_			-		13.39	0.00	
	06/10/88			.;		80 80 80 80 8	000000000000000000000000000000000000000	0.0000000000000000000000000000000000000	333.333.333.433			000000000000000000000000000000000000000	0.0000000000000000000000000000000000000	.	14.65		
	07/25/88		ee Personal and the second se				 					- cocos todo nocaden			13.47	0.00	
	10/13/88	ND	ND	ND	ND	ND					0.000.000.000.000.000	richen en en en			13.58		
	01/01/89 01/12/89	 ND	 ND	 	 		 1970/03/03/03/03/03	100000000000000000000000000000000000000	25.01.000000000000	- 	9.00040000000000	- \$666666666666		PC 000000000000000000000000000000000000	13.00	0.00	507.08
	04/12/89	ND ND	ND	DN ND	ND ND	NS NS	ND	ND	0.000.000.0000.000		0.0000000000000000000000000000000000000	483,40°8,636,63°			13,47	0.00	506.61
	06/26/89	14,000				140,000		30			300000000000000000000000000000000000000	1880 884 885 882	2 2000 2000 2000 2000		13.80	0.00	
1	10/13/89	12,000	16,000		13,000	86,000					1 100 161 161 161 161 161 161 161 161 16	908000000000 -			13.62	0,00	
	01/03/90	9,500		1,800	13,000	120,000		25	3		4		40000000000		13,91	0.00	
	01/04/90	3,900	8,100	1,200	7,700	76,000		18	1	-	-	-	-		13.91	0.00	
	05/08/90	7,500				62,000		13		NC)	NE)		13.89	0.00	506.19
ll i	09/27/90	-								-		-	4		13.78	0.00	506.30
	01/03/91	-	-	_					.00000000000000000000000000000000000000						13.72	0.00	
	04/12/91	750	3,800	720	9,200	60,000		ND	ND) NC) ND	NE) N	D -	12.97	0.00	
1	09/04/91	2,800	11,000		13,000		080808000	.03.080.00	.000.000.000.000	000000000000000000000000000000000000000	*************				13.84	0.00	
	04/06/92	190	1,800	440	5,100	41,000		ND	ND) NE) ND	NE) NI	D	12.44	0.00	507.64
	07/28/92	2,300	9,700	1,800	15,000	130,000	000000000000000000000000000000000000000	**************							13.70	0.00	
	10/16/92	 244 - December 2012 (2013)		220	2,700	27,000		***********				-		20 200 100 200 200 200 200	14.38 8.80	0.00 0.00	505.70 511.28
	01/14/93* 03/26/93	220 330	790 1,600	460	4,000	23,000**	100000000000000000000000000000000000000	X85:13000000000000000000000000000000000000	000000000000000000000000000000000000000		(13/50/30/5/28/08/	98969848848 -			9.12	0.00	510.96
'	04/22/93	840	2,300	130	3,500	17,000	<u>.</u>	V65 656 565 55		100 000 000		180 80 80 80 E			12.10	SHEEN	
TRAFFIC	07/20,21/93	· · · · · · · · · · · · · · · · · · ·			-			**************************************		100000000000000000000000000000000000000				88 (0) 80 80 80 80 80 80 80 80 80 80 80 80 80	000000000000000000000000000000000000000		-
#	10/20/93			4			1669-000-0066-000 1699-006-006-006-00	12000000000000000	(2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4				100000000000000000000000000000000000000		14.31	0.00	505.77
" 	01/20/94	130	790	270	2,400	22,000	kostatuesessatate	p. 00 v/10 v/10 (v. 00 v. 00 v. 	1000000000000000000				4.000 0000000000	www.commono.com	12.14	0.00	507.94
	04/21/94	68	330		960	9,400					4				11.93	0.00	508.15
	07/21,22/94	92	180	30	530	6,200		-		-	-	-	-	- 330	18 .14	0.00	
																Page	e 13 of 18

GROUNDWATER
TECHNOLOGY •

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

WELL ID/				ETHYL-		000000000000000000000000000000000000000		1,2-			1,1,1-	1,1-		TOTAL			
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	LEAD	DTW	SPT	WIE
(TOC)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-15	03/28/86							ļ <u>-</u> -	_	-	_	_		-	13.14	0.00	
522.41	03/15/88	ND	ND	ND	ND	ND						00.000000000000000000000000000000000000			15.13	0.00	507.28
	05/10/88		-						-	-	-	-	-	-	15.40	0.00	507.01
	06/10/88			. 60. (30.60) (60.60)		88.000.000.000.00	000000000000000000000000000000000000000					00000000000000000000000000000000000000			16.49	0.00	505.92
	07/25/88	 	—			 	 -0110120100100100100100			***************		en Parameter announce			15.17	0.00	507.24
	10/13/88 01/01/89	ND	ND	ND	ND	ND							**************************************		15.33		507.08
	01/112/89	ND	- DM	 ND	ND	 סוא			************			-		- 	13.70	0.00	508,71
1	04/12/89	ND	ND	ND	ND	ND	ND	ND	000000000000000000000000000000000000000						15.34	0.00	507.07
	06/26/89	ND				ÜÑ	ND						100010000000000000000000000000000000000		15.72	0.00	506.69
	10/13/89	ND	ND	ND	ND	ND	ND			-00000.00000000000000000000000000000000	***************	500000000000000000000000000000000000000		***************************************	15.96	0.00	506.45
	01/03/90	ND	ND	ND	ND	ND		ND	l						15.42	0.00	506.99
1	05/08/90	ND	ND	ND	ND	ND		ND		ND		ND		-	15.62	0.00	506.79
	09/27/90	ND	ND	ND	DCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	ND	000,000,000	ND	A CONTRACTOR OF THE PROPERTY O						15.59	0,00	506.82
	01/03/91	ND	ND	ND	0.6	ND	 20000000000000000000000000000000000	ND	ND	ND	ND	ND	ND) documentos	15.50	0.00	506.91
	04/12/91					**************************************			-			.83 88 88 5	300 100 100 × 30		15.21	0.00	507.20
	09/04/91 04/06/92	 ON	 DM	, D	מא		 2000:000:000:000	ND	- NE	ND	- GM	NE	- ND		15.90 14.88	0.00 0.00	506.51 507.53
	07/28/92	ND	ND	ND	ND	ND	× 000000000000000000000000000000000000	occorde de la lace							15.82	0.00	506.59
	10/16/92	ND	ND	ND		ND			 					525-750-858-2	16.25	0.00	506.16
[01/14/93*	ND	1.9	0.8	5.1	ND 61	*********								12.48	0.00	509.93
	03/26/93	ND	ND	ND		ND									12,67	0.00	509.74
l · [04/22/93	ND	ND	ND	ND	ND							-	-	13.60	0.00	508.81
[07/20,21/93	ND	ND	ND	ND	ND ND								90000000000000000000000000000000000000	16.87	0.00	505.54
[10/20/93	ND	ND	ND	ND	ND	 0000000000000000000000000000000000							<u> </u>	15.24	0.00	507.17
	01/20/94	ΝĎ	NO	ND		ND	. 000 000 000 000						::::::::::::::::::::::::::::::::::::::		15.01	0.00	507.40
[04/21/94	ND NĐ	DN DN	ND ND	ND ND	DN DN				600000000000000000000000000000000000000	120000000000000000000000000000000000000	 C200200000000000000000000000000000000	-	, , , , , , , , , , , , , , , , , , ,	15.22 15.35	0.00	507.19
	07/21,22/94	NL	עואו	NL	INLA	INCA			l	100000000000000000000000000000000000000	10000000000000000000000000000000000000	<u> </u>	1.22.00.00	I NE	13,35	0,00	507.06

Page 14 of 18



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

WELLIDA				E) HYL-				1,2-			1,1,1-	1,1-		TOTAL			
ELEVATION	DATE	BENZENE	TOLUENE (ppb)	BENZENE (ppb)	XYLENES	TPH-G (ppb)	TOG	DCA	OTHER	MC (ppb)	TCA	DCA	PCE	LEAD	DTW	SPT	WTE
(TOC)		(ppb)	(ppu)	(hhn)	(ppb)	i than	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-16	03/28/86	 				 800000000000000000000000000000000000	 \$00000000000000000	- -			000000000000000000000000000000000000000	() 6 X 6 X 6 X 6 X 6 X 6 X 6 X 6 X 6 X 6	000000000000000	 10 0000000000000000000000000000000000	000000000000000000000000000000000000000	== 500000000000000000000000000000000000	
519.68	03/15/88 05/10/88	1,000	73	140	180	4,500						9898998888			13.78	0.00	505.90
	06/10/88	1,000			100	7,000						500000000000000000000000000000000000000			14.88	0.00	504.80
	07/25/88		:==:::::::::::::::::::::::::::::::::::		 		20000000000000000000000	-	•		0000 0000000000000000000000000000000000	000000000000000000000000000000000000000	-	-	13.69	0.00	505.99
	10/13/88	16	5.5	ND	16	1,600		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	00.000000000000000000000000000000000000	00.05000100.0000	401:600:00000000000000000000000000000000	183 383 833 833			13.80	0.00	505.88
	01/01/89			==	***		-	-	-		_		-	-	13.45	0.00	506.23
1	01/12/89	360	11	78	51	1,000								**************************************			**************************************
į	04/11/89	130	4	21	19	15,800	ND				_	_	-	-	13.78	0.00	505.90
	06/26/89	170		37	43	1,300		ŅĘ		600 0 600 000 000 000 000 000 000 000 0	50000000000000	0200000000000		100000000000000000000000000000000000000	14.02	0.00	
	10/13/89	20	ND 3	41	ND			NC #				30X6X6X6X6X6X6X			14.01	0.00	505.67
	01/03/90 05/07/90	150 49	4.4	41 29	24 13	1,300 480	000000000000000000000000000000000000000	4.5		ND		ND	::::::::::::::::::::::::::::::::::::::		13.97 14.45	0.00 0.00	505.71 505.23
	09/29/90	18	2,1	11	8.0	360	100001000100000000000000000000000000000	1.8	ND				-		14.32	0.00	505.23
	01/03/91	12	ND	6	6	230	188,07928 209,0893	2	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	NĐ	ND	ND	ND	NE)	13.18	0.00	506.50
	07/28/92	31	ND	6.8	16	210					**********		**************************************	-	13.93	0.00	505.75
	10/16/92	11	ND		3.4	140		167 (168 186 18 8	00:00:00:00:00:00	000 000 000 000 0 00					14.92	0.00	
	01/14/93* 03/26/93	24 22	ND	36 16	21 10	740 730		•• ***********************************					• 901,05,01,05,05,0		11.81 11.36	0.00	507.87 508.32
	04/22/93	46	ND	24	6	850	181018888101838	100000000000000000000000000000000000000			000000000000000000000000000000000000000	803103000000000	038080000000	881000000000	12.30	0.00	507.38
TRAFFIC	07/20,21/93	70					satta i kasa tada ya s	100 000 100 000 100 000 000 000 0 0	300 300 300 300 300 300 300 300 300 300						12.00		
	10/20/93	18	2	16	17	290**	200000000000000000000000000000000000000	KC0000000000000000	4 0000 00000000000000000000000000000000	pacaccaccaccaccac			00001001000001000		14.00	0.00	505.68
	01/20/94	10	1	12	9	360			0000 0000 000 000	00.01.00.000.000.000 00.000.000.000.000	000 000 000 000 000 000 000 000 000 00				13.48	0.00	506.20
	04/21/94	15	ND	13	11	220		-	-			_	-	-	13.92	0.00	505.76
	07/21,22/94	1.2	ND	ND	1.0	72	37				· · · · · · · · · · · · · · · · · · ·			- 8	13,56	0.00	506.12

Page 15 of 18



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

WELL ID/								1,2-			1,1,1-	1,1-		TOTAL			35.00
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	LEAD	DTW	SPT	WTE
(TOC)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-17	03/28/86				-			-	-			_	-		13.48	0.00	507.34
520.82	03/15/88	<u>-</u>				80 20 20 20 2					· · · · · · · · · · · · · · · · · · ·		.		14.76	0.00	506.06
	05/10/88	-					-	-	-	-	••	••		-	14.77	0.00	506.05
	06/10/88	<u></u>	· · · · · · · · · · · · · · · · · · ·			41			d		· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • •	00.00000000000000000000000000000000000		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		ee Caucoauauauauaua					-	-				500000000000000000000000000000000000000	\$20,000,000,000,000	14.78	0.00	506.04
	01/12/89	ND		2,100	6,700				j	**************************************		::::::::::::::::::::::::::::::::::::::	80 80 00 00 0 0				505.00
	04/11/89	30	150	320	1,000		6.0	NE		••			-		14.83	0.00	505.99
	06/26/89	50	390 430	860 740	2,000 2,200	20,000 27,000	ND	NE NE			· · · · · · · · · · · · · · · · · · ·				15.03 15.03	0.00 0.00	505.79 505.79
	06/26/89 10/13/89	40 ND	420 48	740 230	2,200 480	17,000	 OM			****			**********		15.03	0.00	505.79
	01/03/90	ND	29	120	210	14,000		ΝĹ	1				-		15.10	0.00	505.72
	05/08/90	25	130	210	470	9,500	30.010000000000000000000000000000000000	NE		ND		ND		l	15.12	0.00	505.70
	09/29/90	ND	ND	ND	ND	ND	9000,9000,000,000	NE				ND			14.99	0.00	505.83
	09/29/90	ND		ND		ND	x65x650x30x00x0 44	NE				ND			14.99		505.83
	01/03/91	ND	28	56	140	3,700		NC		1.8	1.9	ND	NC		14.92	0.00	505.90
1	01/03/91	ND	10	59	150	8,600	000000000000000000000000000000000000000	NE			ND	ND			14,92	0.00	505.90
	04/12/91	ND		47	120	8,600		NE							14.71	0.00	506,11
	04/12/91	ND.		48	120	4,400		NC		and the control of th				* Annon tenen tenen tenen tenen tenen te	14.71	0.00	506.11
	09/04/91	ND	27	49	79	5,800		NE							15.17	0.00	505.65
	09/04/91	NĐ		36	61	4,100		NC							15,17	0.00	505.65
	04/06/92	ND	5.8 180	27 170	29 430	2,300 11,000	 	NĒ) ND	ND	ND	ND	NE	1	14.14 15.18	0.00	506.68 505.64
	07/28/92	99 ND		3,900	6,600	1,200,000							600 000 000 000 00 0		15.76	0.00	505.06
	10/16/92 01/14/93*	9.3	4,600 9.1	3,900	34	3,500		<u>-</u> 		1000 8 V 8 V 8 V 8 V 8 V 8 V 8 V 8 V 8 V					13.44	0.00	507.38
1	03/26/93	ND	19	20 20	35	3,700**	400000000000000000000000000000000000000	000000000000000000000000000000000000000		000000000000000000000000000000000000000	00000000000000000000000000000000000000	000000000000000000000000000000000000000			12.46	0.00	508.36
	04/22/93	16	68	44	97	8,900						100 000 000			13,30	0.00	507.52
	07/20,21/93	5	35	33	62	4,200		, g 300 300 000 000 100 -		-0000 x000000000000000	p.tog.txt:pot.ppeg.tog.bo	P100 X0000 2010 X00	20001001000000000	-	17.21	0.00	503.61
	10/20/93	j 5	12	43	64	4,500			4	0.0000000000000000000000000000000000000					15.09	0.00	505.73
	01/20/94	4	42	24	73	1,900		anna ann an a					-	-	14.47	0.00	506.35
	04/21/94	5.0	20	23	42	1,100	100.000	000000000000000000000000000000000000000	100000000000000000000000000000000000000			00000000000000000000000000000000000000	•		14.95	0.00	505.87
	07/21,22/94	ND ND		ND	0.9	72		-	-		_	-	-	- ND	14.60	0.00	506.22
																Page	16 of 18

GROUNDWATER
TECHNOLOGY *

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

WELL ID/ ELEVATION		BENZENE	TOLUENE	ETHYL- BENZENE	XYLENES	TPH-G	TOG	1,2- DCA	OTHER	мс	1,1,1- TCA	1,1- DCA	PCE	TOTAL	wta	SPT	WTE
(TOC)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-18 518.96	03/28/86 03/15/88		_	_	_		-			_	_				201000000000		_
310.50	05/10/88		-				88088800000 	1500 000 000 000 000 		88888888888			-	-	88888888888	-	-
	06/10/88 07/25/88	**	-		-			::::::::::::::::::::::::::::::::::::::	::::::::::::::::::::::::::::::::::::::	3833333333 3					14.89 13.79	0.00	
	10/13/88	ND	NE	ND	ND	ND				•	-				13,86	0.00	505.10
	01/01/89 01/12/89	ND	- NC	 ND	 ND	 ND		 			<u>.</u>	.	-	-	13.94 	0.00 0.00	
	04/11/89	ND	ND.	ND	ND	ND	ND					100 100 100 100 100 100 1		_	14.86	0.00	504.10
	06/26/89 10/13/89	ND ND	NE	ND	ND	ND	ND	3.1 ND			-	-	-		14.02 15.06	0.00 0.00	503.90
	Ø1/03/90 05/07/90	ND ND			Assessment on the second state of	Action and the second second second second second second	::::::::::::::::::::::::::::::::::::::	1 ND		. NE	::::::::::::::::::::::::::::::::::::::	ND			14,07 14,01	0.00 0.00	504.89 504.95
	09/27/90	ND	NC	ND	ND	ND	NAMES OF THE PROPERTY OF THE P	ND	ND	0,6	NE	NC		000000000000000000000000000000000000000	13.91	0.00	505.05
	01/03/91 04/12/91	ND ND						ND ND	ND UN						13.98 13.83	0.00 0.00	504.98 505.13
	09/04/91	ND	NC	ND	ND	ND	_	ND	ND	ND	ND	ND	ND		14.20	0.00	504.76
	04/06/92 07/28/92	ND ND	NE NE	MD ND				ND 	ND -	NC -	ND -	NE	NO	• • • • • • • • • • • • • • • • • • •	13.07 13.55	0.00 0.00	505.89 505.41
	10/16/92 01/14/93*	ND ND	NC NC	ND	derest recenteer recenteer to recenteer describered.	construction and account with all		. 101 14 194 194 19 5			0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			30.000.000	14.38 12.46	0.00 0.00	504.58 506.50
	03/26/93 04/22/93	ON DN	NE	ND ND	ND	ND			<u>.</u>						11,46 12,58	0.00	507.50 506.38
	07/20,21/93	ЙĎ						x 99 10 (1992 - 1 <u>92</u> (1982 - 1993 - 1995							15.64		503,32
PAVED OVER7	10/20/93 01/20/94 04/21/94				=	-				-		-		_			

Page 17 of 18



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

WELL ID/		newseue.		ETHYL-	100 PMP			1,2-			1,1,1-	1,1-		TOTAL			
(TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG	DCA	OTHER	MC (ppb)	TCA	DCA	PCE	LEAD	DTW	SPT	WTE
	DAIL	լակրոյ	(ppp)	(ppp)	(hhn)	(hlan)	(ppb)	(ppb)	(ppb)	(ppp)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-19	03/28/86				_	-	_			_	<u> </u>	_	_	_			4
520.99	03/15/88	<u></u>	9		::::::::::::::::::::::::::::::::::::::				3 2000 00000000000000000000000000000000	200000000000000000000000000000000000000	<u> </u>			4	#1.400.000000 <u>01</u>		80 800 800 800
	05/10/88	1,400	360	350	1,300	18		-		-	-	-	-	-	15.23	0.00	505,76
	06/10/88	· ·	<u>-</u>	<u>-</u>	0.0000000000000000000000000000000000000	-					000000000000000000000000000000000000000		0.00 x 00 x 600 x 00.		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	············		000000000000000000000000000000000000000	00000000000000000000000000000000000000					15.27	0.00	505.72
	01/01/89					 Chookeassassassassassassassassassassassassass		000500000000000000000000000000000000000	- -				-	-	15.20	0.00	505,79
8	01/12/89 04/11/89	4.0	ND	NIÐ ND	ND ND	ND ND	N D	42	*************	30, 00, 00, 00000 0000 30, 00, 00, 00, 00, 00, 00, 00, 00, 00,	1000 000 000 000		·	1			•
	04/11/89	1.8 1.2	ND DN		0.6	500	ND	13 14		200000000000000000000000000000000000000					15.24	0.00	505.75
li li	06/26/89	2.5	ND ND		ND	500	ND	26							15.24 15.44	0.00	505.75 505.55
[]	10/13/89	์ นับ				540	ÜN			000000000000000000000000000000000000000	000000000000000000000000000000000000000	S20,200,000,000,000	08:080.808080		15.44	0.00	505.55
	01/03/90	1.2	0.7	1.3	0.9	ND		11		99050000000000000000000000000000000000		, de 10% (000 xen)	00.000000000		15.45	0.00	505.54
	05/07/90	ND	ND	ND		ND	x0x0x0x0x0x0	4.6	::::::::::::::::::::::::::::::::::::::	ND		ND	000000000000000000000000000000000000000		15.68	0,00	505.31
"	09/28/90	ND				ND		NÇ	ND	1.2	NC	ND		100000000000000000000000000000000000000	15.52	0.00	505.47
	01/03/91	ND	ND	ND	ND	66	0010001313 <u>24</u>	1	ND	ND	NC			(15.56	0.00	505.43
	04/12/91	-	-			٠ ــ		-		-				-1	15.20	0.00	505.79
	09/04/91	**************************************	00 × 00 00 00 00 00 00 00 00 00 00 00 00	N.C. 900 1000, 000 100 MC		_				-	90000000000000000000000000000000000000	1604 000 000 000 000 <u>26</u>			15.60	0.00	505.39
1.	04/06/92	0.7	ND		ND	110		1.9	ND	ND	ND	ND	NE) -	14.58	0.00	506.41
	07/28/92	1.4	ND	1,0	4.2	ND						2 <u>22</u>			15.26	0.00	505.73
	10/16/92	ND	ND ND		ND	ND		 (4 (44 (44 (44 (44 (44 (44 (44 (44 (44			0000000000000000		en Norwenia (norwenia normania na	1	16.00	0.00	504.99
	01/14/93* 03/26/93	1,1 ND	ND ND		0.9 ND	100 ND		(300 to 000 to	•	26.60 30.70 30 8 ⊕6 	10: 10:00:00:00 x g		· · · · · · · · · · · · · · · · · · ·	•	13.69	0.00	507.30
	03/20/93	0.6			IN L.7 2003201 1003203030303030480	250**	 				200220303030303			=- crocrococococococ	12.96 14.18	0.00	508.03
	07/20,21/93	ND	ND	0.8	2	390**				200 2 000 000 000 000 000 000 000 000 0		000 000 000			16.58	0.00	506.81 504.41
	10/20/93	ΝĎ		CIN CIN	ทั้	™QN	******** <u>~</u>			000000000000000000000000000000000000000		2001000000000	800 80% 450 898	0.600.000.0000.000	15.23	0.00	505.76
	01/20/94	ND	ND		ND	ND	en de		1.50.2000.000000	Rodovioviovioviovios ***	Aspessor occasions		-	0.000.000.0000	14.84	0.00	506.15
	04/21/94	ND				60	<u>.</u>		100000000000000000000000000000000000000		8800108000000	888 888 88 <u>8</u>	0.0000000000000000000000000000000000000	0.00.00.00.00.00	15.26	0.00	505.73
	07/21,22/94	ND	ND		ND ND	60 ND		00000000000000000000000000000000000000	000000000000000000000000000000000000000		100 to the 1000 qqq			ND	14.90	0.00	506.09
						·											18 of 18

Explanation

Elevations are expressed as feet above mean sea level.

TOC = Top of casing

WTE = Water table elevation (well elevation - (DTW-(SPT x 0.8))

DTW = Depth to water

SPT = Separate-phase hydrocarbon thickness .

TPH-G = Total Petroleum Hydrocarbons as Gasoline (ppb)
TOG = Total Oil & Grease (EPA Method 503D & 503E)

* = Rinsate sample contaminated; resampled 03/26/93

** = Uncategorized compound not included in gasoline hydrocarbon total

*** = Hydrocarbon pattern uncharacteristic of fresh gasoline

= Not enough water to purge and sample

PCE = Tetrachloroethene

1,2-DCA = 1,2-Dichloroethane

MC = Methylene Chloride

TCA = 1,1,1-Trichloroethane

1,1-DCA = 1,1-Dichloroethane

ND = Not detected at or above the minimum quantitation limit (MQL)

-- = Not sampled, not monitored, inaccessible

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 Vinly Chloride detected in C-14 on 1/4/90 13 ppb Carbon Disulfide detected in C-19 on 10/13/89

GARTAB1.WK1

GROUNDWATER TECHNOLOGY .

ATTACHMENT 3

Groundwater Monitoring and Sample Collection Protocol and Field Data Sheets



GROUNDWATER TECHNOLOGY GROUNDWATER MONITORING AND SAMPLE COLLECTION PROTOCOL

Groundwater Monitoring

Groundwater monitoring is accomplished using a INTERFACE PROBE" Well Monitoring System. The INTERFACE PROBE" Well Monitoring System is a hand held, battery operated device for measuring the depth to separate-phase hydrocarbons and depth to water. The INTERFACE PROBE" Well Monitoring System consists of a dual-sensing probe which utilizes an optical liquid sensor and electrical conductivity to distinguish between water and petroleum products.

Monitoring is accomplished by measuring from the surveyed top of well casing or grade to groundwater and separate-phase hydrocarbons if present. The static water elevation is then calculated for each well and a potentiometric surface map is constructed. If separate-phase hydrocarbons are detected the water elevation is adjusted by the following calculation:

(Product thickness) x (0.8) + (Water elevation) = Corrected water elevation

Groundwater monitoring wells are monitored in order of wells with lowest concentrations of volatile organic compounds to wells with the highest concentrations, based upon historical concentrations. If separate-phase hydrocarbons are encountered in a well, the product is visually inspected to confirm and note color, amount, and viscosity. Monitoring equipment is washed with laboratory grade detergent and rinsed with distilled or deionized water before monitoring each well.

Groundwater Sampling

Before groundwater samples are collected, sufficient water is purged from each well to ensure representative formation water is entering the well. Wells are purged and sampled in the same order as monitoring, from wells with the lowest concentrations of volatile organic compounds to wells with the highest concentrations. Wells are purged using either a polyvinyl chloride (PVC) bailer fitted with a check valve or with a stainless steel submersible Grundfos pump. The purge equipment is decontaminated before use in each well by washing with laboratory grade detergent and tripled rinsing with delonized or distilled water. A minimum of 3 well-casing volumes of water are removed from each well while pH, electrical conductivity, and temperature are recorded to verify that "fresh" formation water is being sampled and the parameters have stabilized. If the well is low yielding, it may be purged dry and sampled before 3 casing volumes are purged. The wells are then allowed to recharge to approximately 80 percent of the initial water level before a sample is collected.

Groundwater samples are collected from each well using a new, prepackaged disposable bailer and string. The water sample is decanted from the bailer into laboratory-provided containers (appropriate for the analyses required) so that there is no headspace in the containers. Samples collected for benzene, toluene, ethylbenzene, xylene, and total petroleum hydrocarbons (TPH)-as-gasoline analyses are collected in 40-milliliter vials fitted with Teflon® septum lids. Samples are preserved with hydrochloric acid (HCL) to a pH of less than 2. Dissolved metals samples are filtered through a 0.45-micron paper filter in the field and preserved as required before submitting to the laboratory for analyses. All samples are labeled immediately upon collection and logged on the chain-of-custody record. Sample label and chain-of-custody recorded information includes the project name and number, sample identification, date and time of collection, analyses requested, and the sampler's name. Sample bottles are placed in plastic bags (to protect the bottles and labels) and on ice (frozen water) in an insulated cooler and are shipped under chain-of-custody protocol to the laboratory.

The chain-of-custody record documents who has possession of the samples until the analyses is performed. Other pertinent information is also noted for the laboratory use on the chain-of-custody record.

Trip blanks (TBLBs) are used for each project as a quality assurance/quality control measure. The TBLBs are prepared by the laboratory and are placed in the insulated cooler and accompany the field samples throughout the sampling event.

Project Name: Site Address:		Livermore		Pa	.ge <u> </u>	1_18	-
Project Number Well ID: Well Diameter:		·		/ Measuremer	nts:	Volume: gal	<u> </u>
Purge Method Peristaltic Gear Drive Submersible	Pump Hand Air Lift	DepthBailed	ft.	Instrumer YSI: Hydac:		Other:	
Time	Temp C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments	
11'.02	21,3	0.89	6,57	0	Cloudy].
11'.03	21,4	125	Ce.lel	2			
11.04	21.1	1,24	6.66	3			
11:05	20.8	1,24	(e.70)	4			
11'-06	2007	1.24	6.71	5	Clear.		
				-		·	

²roject Name:	Chevron -	Livermore		Da	te:	1/2/194	
Site Address:	4904 Sout	hfront St, Live	ermore	Pa	ge <u>}</u>	of (8	
⊃roject Number	: 0201042	33.0610		Pro	oject Manag	er: Ken Johnson	-
Well ID: Well Diameter:	<u>C-(</u> 3	5	DTW Initia Rech	/ Measuremen il: narge:	Calc \	Vell Volume:gal Volume:gal	
Purge Method Peristaltic	Hand Air Lif	Depth Bailed t		Hydac:	its Used		
Time	Temp / C F	Conductivity	рН	Purge Volume Gallons	Turbidit	Comments	
11114	20.8	1,62	6179	0	Chap		-
11'.15	240	1.71	6,79	2			<u>-</u>
11-16	2019	1171	6.73	4 -			l
11:17	20.8	1:71	6.69	6	1	_	İ
			-				

Project Name: Site Address: Project Number Well ID: Well Diameter: Purge Method Peristaltic Gear Drive Submersible	4904 Sout : 0201042	hfront St, Liv	DTW Initia Recl	Pag Pro / Measurement II: narge: Instrument YSI: Hydac:	ts: Calc Well Well Volu	Volume:gal me:gal Other:
Time	Temp C C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments
,						UNDER ASPHALT
		<u>-</u> .				

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Chevron -	<u>Livermore</u>		Da	te:	7/21/94
4904 Sout	hfront St, Live	ermore	·	Y 	of8
0201042	33.0610		Pro	oject Manag	er: Ken Johnson
			l:	Calc V	Vell Volume:gal olume:gal
Hand Air Lift	Bailedt		YSI: _ > Hydac:	<u>(</u>	
Temp C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments
20,0	1,31	6.68	5	doudy	
20,0	1,32	Ce69	10.		
20.1	1,32	6,70	15.		-
201	1,32	G.70	20		
20.1	1631	Ge.72	21		
	4904 Sout 0201042:	020104233.0610 C - (O	4904 Southfront St, Livermore 020104233.0610	A904 Southfront St, Livermore Pa	1904 Southfront St, Livermore

Project Name:	Chevron -	Livermore		Dat	te: 7	2/194
Site Address:		hfront St, Liv	ermore		ge(و ر	the second second second second second
Project Number	0201042	33.0610	·	Pro	oject Manager:	Ken Johnson
Well ID:			 Initia	/ Measuremen al: narge:	Calc Well	Volume: gal me: 4 gal
Purge Method Peristaltic Gear Drive Submersible	Hand Air Lift	Depth Bailed	<u> </u>	Hydac:	ts Used	Other:
Time	Temp C	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments
111.48	215	1.60	Cen	0	Clear	
11,49	217	1,60	6,72	(
11.50	22.0	1.60	6.73	2		, #
16.51	219	1,57	6.73	4	V	
				_		

· Project Name:	Chevron -	Livermore		Dat	te:	7/21/94
Site Address:	4904 Sout	hfront St, Liv	ermore	Pag	ge	of 🔞
Project Number	0201042	33.0610		Pro	ject Manager:	Ken Johnson
Well ID: Well Diameter:	<u>C-3</u>		DTW Initia Recl	/ Measuremental: narge:	ts: Calc Wel Well Volu	l Volume: gal ume: gal
Purge Method Peristaltic	Hand Air Lift			Hydac:	ts Used	
Time	Temp C F	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
11:57	22.8	1,58	(0.78	O	chai	
11:58	224	1,56	Coi83	(
11:59	125	1.57	Ce :84	2		DRYOUX Zgallow.
121.00)			4		
					1	

²roject Name:	Chevron -	Livermore	<u>-</u>	Date: $7(21)94$				
Site Address:	4904 Sout	hfront St, Live	ermore	Page & of 18				
² roject Number	:0201042	33.0610		Project Manager: Ken Johnson				
Well ID:	C-19		DTW Measurements Initial: Recharge:		Calc Well Volume: gal			
Purge Method Peristaltic	Hand Air Lift	Bailed ()		Instrument YSI:	<u>. </u>	Other:		
Time	Temp C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments		
12'.09	-22.9	1,60	6,80	0	cloudy			
1210	2218	1,44	6.81	ł				
121.11	22.4	1,45	G.85	2				
12:13	22.0	147	G.77	4				
12:14	21.7	1,44	6.76	5				

,					1	. 1		
Project Name:	Chevron -	Livermore	 	Date: 7(2)194 Page 9 of 18				
Site Address:	4904 Sout	hfront St, Liv	ermore					
Project Number: 020104233.0610 Project Manager: Ken Johnson								
Well ID: Well Diameter:		· · · · · · · · · · · · · · · · · · ·	 Initia	/ Measuremen l: narge:	Calc Well	Volume: gal me: C gal		
Purge Method Peristaltic Gear Drive Submersible	Hand Air Lift	DepthBailed	_	Hydac:	ts Used	Other:		
Time	Temp C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments		
12:22	22,0	0,94	G173	-2	Char			
12:24	20,3	0.93	G177	4				
12,26	19.8	0,94	6.83	6				
17:28	1914	0.95	Ge85	3				
[Z5-30	19.2	0.92	Ge 87	10				

Chevron -L	ivermore		Date: 7/21/94					
4904 South	nfront St, Live	ermore	Page Of S Project Manager: Ken Johnson					
02010423	3.0610							
C-1k)	 Initia	al: Calc Well					
Hand Bailed Air Lift						· •		
Temp C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments			
20,7	1100	688	5	choe				
2011	104	6.84	10					
20,0	1.00	C81	15					
20.0	101	6.82	16					
20.1	00	6.82	17					
	2010423 C-(k-3) Pump Hand E Air Lift Other Temp C F 20,7 20,1	A904 Southfront St, Live 020104233.0610	1904 Southfront St, Livermore 020104233.0610 DTW Initia Recht Re	A904 Southfront St, Livermore Page	Agouthfront St, Livermore	Agoust Agoustic Agoustic		

Project Name:	Chevron -	Livermore	··	Da	Date: 7/2/194				
Site Address:	4904 Sout	hfront St, Liv	ermore	Page 11 of 18					
Project Number:	0201042	33.0610		Pro	oject Manager:	Ken Johnson			
Well ID:		>	 Initia	DTW Measurements: Initial: Calc Well Volume: gal Recharge: Well Volume: gai					
Purge Method Peristaltic Gear Drive Submersible	Hand Air Lif	Depth_ Bailed_ t		Hydac:	ts Used	Other:			
Time	Temp V) C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments .			
12:47	21.9	146	(,33	5	oloudy	•			
12:49	21.9	1.45	6,77	10					
12'.51	2119	1,46	6.75	15			_ *		
12'.53	2210	1,46	6.78	17					
-									

roject Name:	Chevron -	Chevron -Livermore			Date: 1171194				
Bite Address:			ermore	Pa	ge <u>[Z</u>	1 8	· ·		
³roject Number:				Pro	oject Manager:	Ken Johnson			
Well ID: Well Diameter:	C-1 3	DTW Measurements: Initial: Calc Well Volume: gal Recharge: Well Volume: gal							
Gear Drive	Hand Air Lift	Pump Depth ft. Instruments Used Hand Bailed YSI: Other: Air Lift Hydac: Other Omega:							
Time	Temp C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments	•		
13'-03	22,6	1.34	675	0	Clear				
13'-04	23,2	1:41	G174	1					
13'.05	23.1	1.36	/				!		
13'-07	23,0	1,37	6.76	4					
:									
					1 1		1		

j.

roject Name:	Chevron -	Chevron - Livermore Date: 7/21/94							
Site Address: Project Number	*	hfront St, Liv			gec	of (8 Ken Johnson			
Well ID:	D: C-Z DTW Measurements: Initial: Calc Well Volume: gal Galc Well Volume: gal Galc Well Volume: gal Galc Well Volume: Galc Well Volume:								
Purge Method Peristaltic	Hand Air Lif	Depth Bailedt	·	Hydac:	ts Used	_			
Time	Temp C C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments			
1326	22.7	1.18	6.80	2	Clar				
13'.18	21.9	1021	4.80	4,		·			
135.20	21,5	1,28	6.80	6					
13',22	21,2	1,32	6,79	§.					
13'.24	242	1,33	(,79	(0)			!		
		1:33	!	12	V				
					,				

Project Name:	Chevron -	Livermore		Date: 7/21/94					
Site Address:		hfront St, Liv	ermore	Pa	ge <u> </u>	u (<u>8</u>	— (: .		
Project Number	el la la serie de la companya de la La companya de la co			Project Manager: Ken Johnson					
Well ID: Well Diameter:	3			OTW Measurements: nitial: Calc Well Volume: gal Recharge: Well Volume: gal					
Purge Method Peristaltic	Hand Air Lif	Depth_ Bailedt		YSI: 7 Hydac: 7	Instruments Used YSI: Other: Hydac: Omega:				
Time	Temp C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments			
13'.34	21.8	1.04	6.30	0.	Cherc				
13'36	21.9	0,98	6.80	2					
13'.37	21.8	1001	6.33	4					
13'.39	21.9	1,02	6.83	6					
				!					
					(

, Project Name:	oject Name: Chevron -Livermore				Date: 7/2/194			
Site Address:	4904 Sout	hfront St, Liv	ermore	Page 15 of 18				
Project Number	r: <u>0201042</u> :	33.0610	· · · · · ·	Project Manager: Ken Johnson				
Well ID: DTW Measurements: Initial: Calc Well Volume: gal Recharge: Well Volume: gal								
Purge Method Pump Depth ft. Instruments Used Peristaltic Hand Bailed YSI: Other: Gear Drive Air Lift Hydac: Submersible Other Omega:								
Time	Temp C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments .		
135.49	22.5	1.36	(e.80	21	Clar			
13151	2213	1,36	Ce.78	4				
13:53	22.2	1.37	Co.77	Ç	÷			
131.55	222	137	6,78	8				
13'57	22.2	1.38	6.77	9		,		
				. :			:	
				:			. 4	

ı

Project Name:	Chevron -Livermore Date: 7/2/194								
Site Address:	4904 Sout	hfront St, Liv	ermore	Pa	ge <u> </u>	of R			
Project Number	: 0201042	33.0610		Pro	ject Manager:	Ken Johnson			
Well ID: Well Diameter:	C-9 3	Initial: Calc Well Volume:gal							
Purge Method Peristaltic Gear Drive Submersible	Hand Air Lift	Air Lift Hydac:							
Time	Temp C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments .			
14:07	22.9	0,98	6.77	2	DRIC				
14:09	2/14	0.84	(ei81	4					
1471	20.8	0.88	680	Q					
14:13	205	0.92	6.78	3					
14:15	20,4	0.93	Q177	77 10 V					
1			:						
		:							

.

;

Site Address:	Chevron -Livermore Date: 72 94 4904 Southfront St, Livermore Page 10 10 10 10 10 10 10 10							
Well ID: Well Diameter:	C-1	C-14 DTW Measurements: Initial: Calc Well Volume: gal Recharge: Well Volume: gal						
Purge Method Peristaltic Gear Drive Submersible	Hand Air Lift			YSI: Other:_				
Time	Temp C F	Conductivity	рH	Purge Volume Gallons	Turbidity	Comments		
141,23	20.9	100	6,79	0	clean			
14532	20.8	1-01	6.78	(V	DRYAN 19al.		
!				2				
		i						
		:						
,								
			1					

.

Project Name: Site Address: Project Number		Livermore hfront St, Liv 33.0610	rermore	Page 8 of 18 Project Manager: Ken Johnson					
Vell ID: Vell Diameter:	<u>C-(e</u> _3		Initia	/ Measuremen l: narge:	Calc Well '				
Purge Method Peristaltic Gear Drive Submersible	Hand Air Lif	DepthBailed		Hydac:	ts Used	Other:	: - 		
Time	Temp C F	Conductivity	рН	Purge Volume Gallons	Turbidity	Comments	, ,		
141.37	222	1,24	6,78	2	Char				
741.39	2210	1,25	6,77	4					
14141	219	1,28	6,70	6					
14:43	219	1,29	6,70	8					
141.45	219	1,29	671	10					
					:				
					·				
					1				
				1			1		

ATTACHMENT 4

Laboratory Report





Western Region 4080 Pike Lane, Suite C Concord, CA 94520 (510) 685-7852 (800) 544-3422 Inside CA FAX (510) 825-0720

Client Number: 020104233 Consultant Project Number: 020104233.0610 Facility Number: 9-1924 Project ID: 4904 S. Front St.

Livermore

Work Order Number: C4-07-0372

August 2, 1994

Ken Johnson Groundwater Technology, Inc. 4057 Port Chicago Hwy. Concord, CA 94520

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 07/23/94.

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.

Rashmi Shah

Laboratory Director

Client Number: 020104233
Consultant Project Number: 020104233.0610
Facility Number: 9-1924
Project ID: 4904 S. Front St. Livermore
Work Order Number: C4-07-0372

ANALYTICAL RESULTS

Lead in Water by Graphite Furnace AA

EPA Methods 7421¹/3005²

GTEL Sample Number		02	03	04	05		
Client Identification		C-11	C-12	C-15	C-10		
Date Sampled		07/22/94	07/22/94	07/22/94	07/22/94		
Date Prepared	07/29/94	07/29/94	07/29/94	07/29/94			
Date Analyzed				08/01/94	08/01/94		
Analyte	Detection Analyte Limit, ug/L.			Concentration, ug/L			
Lead, total	5	7	<5	<5	<5		
Detection Limit Multiplier	1	1	1	1			

GTEL Sample Number		06	07	08	09
Client Identification		C-13	C-3	C-19	C-8
Date Sampled		07/22/94	07/22/94	07/22/94	07/22/94
Date Prepared		07/29/94	07/29/94	07/29/94	07/29/94
Date Analyzed	Date Analyzed			08/01/94	08/01/94
Analyte	Detection Limit, ug/L		Concentra	ation, ug/L	
Lead, total	5	<5	<5	<5	<5
Detection Limit Multiplier	1	1	1	1	

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, November 1986. Sample preparation by Modified EPA Method 3005. Acid concentration have been adjusted to allow analysis by GFAAS.



Client Number: 020104233
Consultant Project Number: 020104233.0610
Facility Number: 9-1924
Project ID: 4904 S. Front St. Livermore
Work Order Number: C4-07-0372

ANALYTICAL RESULTS

Lead in Water by Graphite Furnace AA

EPA Methods 74211/30052

GTEL Sample Number		10	11	12	13
Client Identification	Client Identification			C-1	C-2
Date Sampled	07/22/94	07/22/94	07/22/94	07/22/94	
Date Prepared	07/29/94	07/29/94	07/29/94	07/29/94	
Date Analyzed	Date Analyzed			08/01/94	08/01/94
Analyte	Concentration, ug/L				
Lead, total	5	8	<5	<5	<5
Detection Limit Multiplier	1	1	1	1	

GTEL Sample Number		14	15	16	17		
Client Identification		C-17	C-7	C-9	C-14		
Date Sampled		07/22/94	07/22/94	07/22/94	07/22/94		
Date Prepared		07/29/94	07/29/94	07/29/94	07/29/94		
Date Analyzed	Date Analyzed			08/01/94	08/01/94		
Analyte	Detection Analyte Limit, ug/L			Concentration, ug/L			
Lead, total	5	<5	<5	13	330		
Detection Limit Multiplier	1	1	1	4			

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, November 1986.
Sample preparation by Modified EPA Method 3005. Acid concentration have been adjusted to allow analysis by GFAAS.



Client Number: 020104233
Consultant Project Number: 020104233.0610
Facility Number: 9-1924
Project ID: 4904 S. Front St. Livermore
Work Order Number: C4-07-0372

ANALYTICAL RESULTS

Lead in Water by Graphite Furnace AA

EPA Methods 7421¹/3005²

GTEL Sample Number		18	072994 MET	
Client Identification	C-6	METHOD BLANK		
Date Sampled	07/22/94			
Date Prepared	Date Prepared			
Date Analyzed		08/01/94	08/01/94	
Detection Limit, ug/L			Concentra	ation, ug/L
Lead, total	5	<5	<5	
Detection Limit Multiplier		1	1	

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, November 1986. Sample preparation by Modified EPA Method 3005. Acid concentration have been adjusted to allow analysis by GFAAS.



Client Number: 020104233
Consultant Project Number: 020104233.0610
Facility Number: 9-1924
Project ID: 4904 S. Front St.
Livermore
Work Order Number: C4-07-0372

QC Matrix Spike and Duplicate Spike Results

Matrix: Water

Analyte	Sample ID	Spike Amount	Units	Recovery,	Duplicate Recovery, %	RPD, %	Control Limits
Metals:							
Lead	C4070372	50.0	ug/L	88.8	82.6	7.23	75 - 125



020104233

ANALYTICAL RESULTS

Login Number:

C4070372

Volatile Organics

Project ID (number): 020104233.0610

Method: **EPA 8020**

Project ID (name):

CHEVRON #9-1924, 4904 S. Front Street, Livermore, CA

Matrix: Aqueous

90.4

CTEL	Sample Number C4070372-01	C4070372-02 C4070372-03	C4070372-04
	Client ID TB-LB	C-11 C-12	C-15
	Date Sampled 07/22/94	07/22/94 07/22/94	07/22/94
	Date Analyzed 07/27/94	07/27/94 07/26/94	07/26/94
Di.	lution Factor 1.00	1.00 1.00	1.00

	Keporting					
Analyte	Limit	Units	(Concentration:		
Benzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Ethy lbenzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
TPH as GAS	50	t/a/4	< 50	< 50.	< 50.	< 50.

Notes:

Dilution Factor:

BFB (Surrogate)

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, SW-846", Third Edition, Revision 1, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 62-129%. Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap.

C4070372-02:



020104233 ANALYTICAL RESULTS

Login Number:

C4070372

Project ID (number): 020104233.0610

Method:

Volatile Organics

EPA 8020

Project ID (name):

CHEVRON #9-1924, 4904 S. Front Street, Livermore, CA

Matrix: Aqueous

(-) I	EL Sample Number C4070372-05 C4070372-0	
	(1) feet 10	
	Citetic ID C 10 C 1	
	01001F0 101081F0 L-134-0	4 NT799704 NT484444
	Date Sampled 07/22/94 07/22/9	*
	Date Analyzed 07/26/94 07/27/9	4 0//2//94 0//2//94
	Milution Factor 100 10	
	211041011140401 1.00 1.00	V

	Keporting					
Analyte	Limit	Units	Co	ncentration:		
Benzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Xylenes (total)	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
TPH as GAS	50.	ug/L	< 50.	< 50.	< 50.	< 50.
BFB (Surrogate)		X	90.1	87.1	89.0	87.1

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, SW-846". Third Edition, Revision 1, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 62-129%. Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap.

C4070372-05:

Uncategorized compound is not included in gasoline concentration.

C4070372-08:



020104233

. ANALYTICAL RESULTS

Login Number:

C4070372

Project ID (number): 020104233.0610

Volatile Organics

Method: Matrix: EPA 8020 Aqueous

96.5

Project ID (name):

CHEVRON #9-1924, 4904 S. Front Street, Livermore, CA

NTT (Name 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	9.30	C4070270 15	77.67.43±13.67.6
GTEL Sample Number C407037. Client ID	4-09 (40/03/2-10	C407037Z*11 1	.4V/U3/Z+1Z
Citent ID	C-8 C-16	C+5	C-1
Date Sampled 07/2 Date Analyzed 97/2	2/94 07/22/94	07/22/94	07/22/94
Date Included 67/2	7/0/ 07/27/0/	07/27/04	07/27/04
uate Analyzen 1772	1134 01121134	U1721134	U// C// 24

	Reporting					
Analyte	Limit	Units		Concentration:		
Benzene	0.5	ug/L	< 0.5	1.2	0.9	4.7
Toluene	0.5	ug/L	< 0.5	< 0.5	< 0.5	2.7
Ethy Ibenzene	0.5	ug/L	< 0.5	< 0.5	6,5	34.
Xylenes (total)	0.5	ug/L	< 0.5	1.0	1.0	13.
TPH as GAS	50.	ug/L	51.	72.	370	800

114.

88.88

96.3

Notes:

Dilution Factor:

BFB (Surrogate)

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, SW-846", Third Edition, Revision 1, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 62-129%. Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap.

C4070372-09:

Uncategorized compounds are not included in gasoline concentration.

C4070372-10:

Uncategorized compound is not included in gasoline concentration,

C4070372-11:

Uncategorized compound is not included in gasoline concentration.

C4070372-12:



ANALYTICAL RESULTS

Login Number:

C4070372

Volatile Organics

Project ID (number): 020104233.0610

Method: EPA 8020

Project ID (name):

CHEVRON #9-1924, 4904 S. Front Street, Livermore, CA

Matrix: Aqueous

GTEL Sample Number C407037.	10 64070070 14 6	4070272 IE C4070272 46
aitr southic amine (rening)	[.T3	40,001,7,10 040,001,7,10
Client ID	7 2 C.17	r.7 ro
	C L L L.	
Date Sampled 07/2	7/Q4	07/22/QA 07/22/QA
ease sempted of the		
Date Analyzed 07/2	7/94 N7/27/94	07/27/94 07/29/94
Dilution Factor	1.00	1.00 1.00

Reporting

Analyte	Limit	Units	Cor	centration:		
Benzene	0.5	ug/L	10:	< 0.5	50.	< 0.5
Toluene	0.5	ug/L	2.8	< 0.5	4.4	4.0
Ethylbenzene	0.5	ug/L	5.2	< 0.5	110	14.
Xylenes (total)	0.5	ug/L	53.	0.9	22.	10.
TPH as GAS	50.	ug/L	1200	72.	1700	1100
BFB (Surrogate)		X	102.	91.1	112.	101.

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, SN-846", Third Edition, Revision 1, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 62-129%. Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap.

C4070372-13:

Uncategorized compound is not included in gasoline concentration.

C4070372 · 15:

Uncategorized compound is not included in gasoline concentration.

C4070372 · 16:



Project ID (name):

020104233

ANALYTICAL RESULTS

Login Number:

C4070372

Project ID (number): 020104233.0610

CHEVRON #9-1924, 4904 S. Front Street, Livermore, CA

Volatile Organics Method: EPA 8020

Matrix: Aqueous

GTEL Sample Number C40 Filent ID	70372-17 C4070372-18	
F1 T0		
Crient 10	C-14 C-6	
Date Sampled Date Analyzed	07/22/94 07/22/94	
• • • • • • • • • • • • • • • • • • • •		
Date Analyzed	U//28/94 U//2//94	
Billotian Esstan	10.0 10.0	
Dilution Factor	10.0 10.0	

Repo	rting
------	-------

Analyte	Limit	Units	Cor	centration:		
Benzene	0.5	ug/L	92.	< 5.0		
Toluene	0.5	ug/L	180	7.1		- -
Ethy1benzene	0.5	ug/L	30.	130	4.5	**
Xylenes (total)	0.5	ug/L	530	130		
TPH as GAS	50.	ug/L		4500		••
BFB (Surrogate)		X	88.6	91.1		

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical and Chemical Methods, SN-846". Third Edition, Revision 1. US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 62-129%. Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap.

C4070372-18:



020104233

QUALITY CONTROL RESULTS

Login Number:

C4070372

Project ID (number): 020104233.0610

Volatile Organics

Method: Matrix:

EPA 8020 Aqueous

Project ID (name): CHEVRON #9-1924, 4904 S. Front Street, Livermore, CA

Method Blank Results

QC Batch No:

Q072694-1

Date Analyzed

26-.111 -94

Ua	te Anaryzeu: 26-Jul-94	
Analyte	Method:EPA 8020	Concentration: ug/L
Benzene	< 0.30	
Toluene	< 0.30	
Ethy I benzene	< 0,30	
Xylenes (Total)	< 0.50	
TPH as Gasoline	< 10.0	

Notes:



020104233

QUALITY CONTROL RESULTS

Login Number:

Project ID (name);

C4070372

Project ID (number): 020104233.0610

Volatile Organics

Method: El

Matrix:

EPA 8020 Aqueous

Matrix Spike and Matrix Spike Duplicate Results

CHEVRON #9-1924, 4904 S. Front Street, Livermore, CA

·	C	Original	Spike	Matrix Spike	Matrix Spike	Matrix Spike Duplicate	Matrix Spike Duplicate	•	Acceptabi	lity Limits
Analyte	Con	centration	Amount	Concentration	Recovery, %	Concentration	Recovery. %	RPD. %	RPD. X	Recovery. X
EPA 8020	GTEL Sample ID	:C407036	7-02	Spike ID:0	072694-3	Dup. ID:Q	72694-4			
Units: ug/L	Analysis Date	: 25 - JUL -	94		26-JUL-94	2	7-JUL-94	Client	ID:Batch	QC
Benzene	<	0.30	20.0	19.4	97.0	18.6	93.0	4.2	34	57.3-138 x
Toluene	<	0.30	20.0	18.5	92.5	17.8	89.0	3.8	31	63-134%
Ethylbenzene	<	0.30	20.0	19.0	95.0	18.3	91.5	3.7	38	59.3-1371
Xylenes (Total) <	0.50	60.0	54.6	91.0	51.7	86.2	5.4	31	59.3-144%

Notes:



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Fax co	py of	Lab	Re	port	and	COC to	Che	vror	n Co	onta	cl: L	<u> </u>					<u>ngi</u>	$\frac{n-c}{\sqrt{c}}$	71-1	<u>Jus</u>	<u>tody-Rec</u>		
		Ch•	Chevron Foellity Number 9-1924 Chevron Contact (Home) BRETT'S FOOTIST LIVERMORE (Phone) 842-													-719E							
Chavron U.	C L las	'1	Fool	Mho Iddea	47	ULDINO	T37 (LUES	rmon	ZE		-			(Plione	<u> </u>	12-	تعه			···································		
P.O. BOX		Consultant Project Humber 020104233, 0610 Consultant Nome Groundwater Technology, Toc. Loborotory Release Humber 9032												3280	0								
San Ramon,		Consultant Home Groundwater Technology, Inc. Laboratory Release Humber 4037 Address 4057 Port Chicago Hwy, Concard, CA. 94520 Samples Collected by Hame) - HECK											100	nER	IND								
FAX (415)8		'	Address 4057 Port Chicago Hary, Concard, CA. 94520 samples collected by Mame) 120 Project Conject (Mame) Tim Watchers collection Date 7/22/94																				
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Chevron U.S.A. In P.O. BOX 5004 San Ramon, CA 9456 FAX (415)842-959	C. Cone	Chevron Facility Humber 9-1929 Chevron Facility Humber 4904 Fractor ST. Liverapper Consultant Project Humber 20104233, 6600 Consultant Name Sycundivates Technology, Tox. Address 4057 Part Chicago Hwy, Concard, CA. 94520 Project Contact (Name) Tim Watchers (Phone) 510-671-2387 (Fox Number) Signature Chevron Contact (Name) BRETT HWNTER (Phone) BY2-8695 Chevron Contact (Name) BRETT HWNTER (Phone) 510-671-2387 (Fox Number) Signature Chevron Contact (Name) BRETT HWNTER (Phone) 510-671-2387 (Fox Number) Signature Signature Signature													ZINC					
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