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2:43 pm, May 04, 2009

Alameda County Environmental Health



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

FAX (916) 372-8781

Project No. 02070 4233

June 7, 1993

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

RE:

QUARTERLY MONITORING AND SAMPLING ACTIVITIES CHEVRON SERVICE STATION 9-1924

4904 SOUTHFRONT ROAD LIVERMORE, CALIFORNIA

Dear Mr. Hunter:

Groundwater Technology, Inc. submits this letter as a summary of quarterly groundwater monitoring and sampling data collected at the above-referenced site on April 22, 1993. The eighteen site-related groundwater monitoring wells were gauged to determine depth to groundwater (DTW) and to check for the presence of separate-phase petroleum hydrocarbons (SP). A potentiometric surface map (Figure 1) and a summary of groundwater monitoring data (Table 1) are included. The April 22, 1993 potentiometric surface map includes data collected on the same date by Kaprelian Engineering, Inc. for the Unocal station northwest of the Chevron site. After measuring DTW, each monitoring well was purged and sampled. The groundwater samples were analyzed for dissolved benzene, toluene, ethylbenzene and xylenes (BTEX), and total petroleum hydrocarbons-as-gasoline (TPH-G). Results of the chemical analyses are summarized in Table 1. Laboratory reports and chain-of-custody manifests are included in Attachment I. All purge water generated during sampling was collected in a Department of Transportation (DOT)-approved purge trailer and transported for recycling to the Chevron refinery in Richmond, California.

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

Sincerely,

Groundwater Technology, Inc.

Written/Submitted by

BRŮCE H. EPPLER

Environmental Geologist

Project Manager

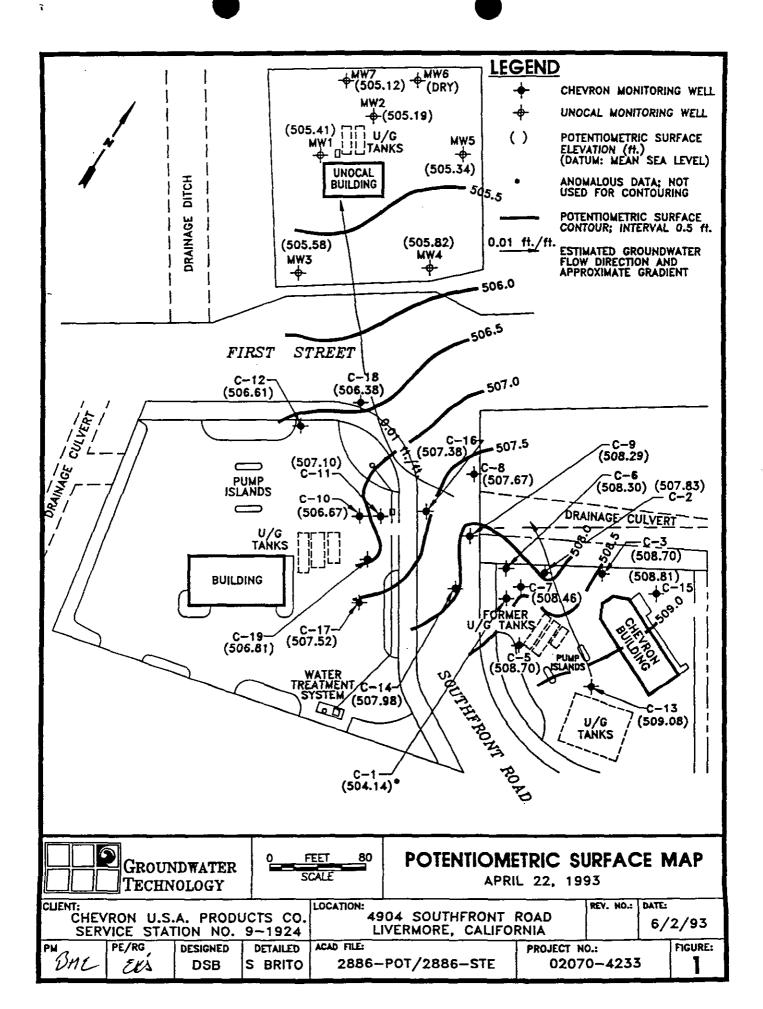
DSB/BHE/EKS:rb Attachments 42330TR2.LTR Groundwater Technology, Inc. Reviewed/Approved by

E. K. SIMONIS, R.O

Senior Environmen

No 4477

Offices throughout the U.S., Canada and Overseas



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

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	1 04/22/33	16							-							ge 1 of 10

Page 1 of 10
GROUNDWATER
TECHNOLOGY

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

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ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	DTW	8PT	WTE
(TOC)	DATE	(ppb)	(ppb)	(ppb)	(<u>pp</u> b)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(teet)	(feet)	(feet)
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521.31	03/15/88	86	В	30	36.0	2,100				-	***			14.21	0.00	507.10
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1	01/01/89													12.70	0.00	508.61
	04/10/89	2.1	ND	44	2.6	200	ND	990 J. <u>4</u> .	yssammer.	985 88	200 200 200 200 200 200 200 200		No High	14.36	0.00	506,95
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	01/03/90	ND	ND	0.9	1.4	ND		0.7						14.42	0.00	506.89
	05/08/90	ND	ND	ND	ND	ND		0.7	3865 SEE	ND	7 WEE	ON NO		14.65	0.00	506.66
\	09/27/90	ND	1.0	ND	ND	71	l	ND	ND	1.1	1.6	ND		14.67	0.00	506.64
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Į Į	04/06/92	ND	ND	0.8	ND	88	i	ND	ND	ND	ND	ND	ND	13.83	0.00	507.48
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1	05/10/88	ì												13.92	0.00	506.90
į	07/10/88						100 (1) ASS			121 201 200 40 F				13.72	0.00	507,10
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]	07/28/92	15	ND	1.8	0.5	130	ì							14.13	0.00	506.69
	10/16/92	ND	ND	ND	1.2	ND		3 (100 PM B4) 3 (100 PM B4)						14.68	0.00	506.14
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Page 2 of 10



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

WELL ID/	-c-9888480	Fagi (Xd Gallinas G.)		ETHYL-				1,2-		100000000000000000000000000000000000000	ু নু,1,1,⊕	1,1#		4.52004		4.486
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	DTW	SPT	WTE
(TOC)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(teet)
C-6 T	03/26/86													11.12	0.00	508.50
519.62	03/15/88	870	4,600	1,500	8,200	46,000				400.				12.93	0.00	506,69
3.3,32	05/10/88	1,400	10,000	3,000	19,000	86,000							1	13.03	0.00	506.59
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j	07/25/88													12.95	0.00	506.67
1	10/13/88	300	600	260	1,600	5,300				***				18,14	0,00	506.4
	01/01/89		,											12.14	0.00	507.4
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Í	04/12/89	90	190	190	680	5,000	4.0	ND			e se escribir de la como		. — — [N. 100701980 NO.	12.98	0.00	506.6
	06/26/89	77	250	140	610	3,600	ND	ND						13.39	0.00	508.2 506.2
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İ	05/08/90	17	140	ND	400	1,800		1.6		ND	SAN CHARAC	ND	21/2142	13.39	0.00	506.3
·	09/29/90	58	210	260	2,100	8,000	2 2 00.000 0	1.0	ND	ND	2.4	1.6 ND	ND	13.19	0.00	506.4
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	03/26/93	30	90	290	1,100	1	18 16 4 4		<u> </u>	i saata	\$0.25 <u>0</u> 4	200 1 4 40 A	,-	9.83	0.00	509.7
	04/22/93	29	170	640	2,400	20,000		— -						11.32	0.00	508.3
C-7														11.67	0.00	508.6
520.30	03/28/86	98	690	120	120	8,000		arra sansa da	s verita ti	Mara a	388 57	3860 4. 5.	ekafaci ai −	13.48	0.00	506.8
520.30	03/15/88 05/10/88	**************************************	14,000,000	180,180 180 120			1 APS ALAKATE DO — —	1676/vt.	P V 100			100,00000 100000		13.60	0.00	506.7
ŀ	06/10/88	100 00 CA	1 8 3 6 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	- 1585/00000/844	in dak i #		irana+ira	***#F	ASSES		3.888.124.24	1000 Fig.		14.68	0.00	505.€
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	10/13/88	4,400	220	1.000	3,000	16,000	J			1882 C# 7	3.300 A.X		表现分争士	13.61	0,00	506,6
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	04/12/89	1,100	30	760	370		ND	ND						13.60	0.00	506.7
,	06/26/89	1,300	50	600	340		ND	ND			Mar. 55		d€⊅ ± ÷	13.88	0.00	
	10/13/89	1,300	ND	160	150		I	ND						13.81	0.00	506.4
•	01/03/90	1,200	13	180	200						BENET	1000 T.Z		13.71		506.5
	05/08/90	1,100	15	110	140		1.1. 12 (1.1.0)	1.7	1000000	ND	100 mm 100 mm	ND	1830.00 T.D	13.85	0.00	506.4
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İ	10/07/91	170		1	100			ND			ND		ND			
	04/06/92	95	0.8 3.4	110	2745 26110	. 1							100 H #	13.76		
	07/28/92 10/16/92	120 130	4.2	68	74	A CONTRACTOR OF A CONTRACTOR O		Uppscha 9/5				200000000000000000000000000000000000000		14.42	A	
		130	1 7.4	, 00	I # "	2,,00	. 1	Lance and annual		.1	A recognision of the second	decourse conserve	Book was appropriate	1 Alex 1 200 1		
				APP.	2 210	7 800					1 		10.00 × 1	10.98	0.00	509
	01/14/93*	160 39	33 9	the Art and area services as a ser-	210 15	to a section of some section in the section of the	The contraction of the contracti	==					30 30 0000 0 0000 0 0000 0 	10.98	0.00	100124

Page 3 of 10
GROUNDWATER
TECHNOLOGY

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

WELL ID/	. 2002/2009			ETHYL-				1,2 -			1.1.1=	1.1-		ş de va	\$ - \$ 1	1.5.52
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	WID	SPT	WTE
(тос)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(dqq)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-8	03/28/86					version and the area	00000					 Daniel (1980)		11.78	0.00	507.96
519.74	03/15/88	360	25	10	ON	7,500		40 3 5						13.63 13.74	0.00	506.11 506.00
	05/10/88	0.000.000.000.000.0000.00000								38238 2 22	000000000000000000000000000000000000000	₩# F E		14.89	0.00	504.85
ļ j	06/10/88 07/25/88									[96-86-868] 				13.65	0.00	506.09
}	10/13/88	6	5.3	> ND	ND ND	ON		YX¥ + .	80 300	**************************************	****			13.78	0.00	505.96
	01/01/89									 	 			12.68	0.00	507.06
	01/12/89	37	4	1	ND	3,000	12.0	5	8 1 - 5 1					13.77	0.00	505.97
\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	04/12/89 06/26/89	18 14	ND B	DN DN	6	780	ND	008508 4 2				38.55	14743 4 4	14.03	0.00	505.71
ĺ	10/13/89	ND	ND	ND	ND	ND	ND	ND						14.06	0.00	505.68
	01/03/90	ND	ND	######################################		910	建筑等是	1.5	300 AA	0 % 7 <u>.2</u>				13.74	0.00	506.00
)	05/07/90	3.9	6	0.5	3.4 ND	620 77	0.8040.002	1.9 ND	ND	ND 0.6	ND	ND ND		14.10 13.97	0.00	505.64 505.77
	09/29/90 01/03/91	ND 2	2	ND ND	2	67		ND	ND	0.7	ND	ND	ND	13.81	0.00	505.93
	04/12/91	403 Le26-4	04 87 385 NO	ON NO	QN See See	1	: 000 00 0 ± ± 000 000 000 000 000 000 0	0.6	ND.	ON	S ND	ND	ON	13.60	0.00	506.14
	09/04/91	1.8	4.7	0.8	4.8	140		ND	ND	ND	ND	ND.	ND.	14.14	0.00	505.60
	04/06/92	S ND		ND	ND.	150		ND	, ND	ND	ND	ND	ND	13.12 14.10	0.00	506.62 505.64
	07/28/92	ND ND		ND ND	0.8 기가 ND	90		, w 144	1465E	7267 4		 	880 YZ	14.57	0.00	505.17
	10/16/92 01/14/93*	ND ND		1.0	3.5	120					1130300000000000			10.95	0.00	508.79
	03/26/93		listo state	Procession of the	1	800 A 7	1800 - #.	8680	- 100	1990 - 1 -1	KODEH.	~~~			1.7	
<u> </u>	04/22/93	ND		0.6	8.0	68**	_==							12.07	0.00	507.67
C-9	03/28/86	<u> </u>	1							1905 - 5010 100	1,000,000,000			11.24 12.92	0.00	508.28 506.60
519.52	03/15/88	540	580	580	3,900	29,000		(XX)	\$\$ 4.2 <u>2</u>		经现金专	}@@@		13.12	0.00	506.40
ii i	05/10/88 06/10/88								S. 4.4	300 - 1			S POSSIBLE A	14.16	0.00	505.36
	07/25/88	Eliterate de La Caracter de La Carac		F100 800 6018 508										13.00	0.00	506.52
ll i	10/13/88	57		20	150	2,200			360 AH			1000 H +1		13.13	0.00	506.39
	01/01/89				real restriction of the			sarī.		005		wassanie is		12.19	0.00	507.33
II I	01/12/89	39		51 55	48 240	34 × 600 × 6 × 77 × 7		2.1				 		13.11	0.00	506.41
	04/12/89	16 14			1			ND				1880 11 4		8 13.11	0.00	506.41
	06/26/89	37		100 december 200 and 200			ND	ND					!	13.40	0.00	506.12
	10/13/89	7	ND		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 100 00 00 1 5 0 0 1 TO					**************************************			13.46	0.00	506.06 506.22
<u> </u>	01/03/90	ND		202	address and the	4 as . A object.	** Some of School Com	1.5 1.9		ND		ND		13.48	0.00	506.04
	05/07/90	21 21		89 31	500 110			1.0	ND		1.8	1.0		13.39	0.00	506.13
519.72	09/29/90	ND				A AMERICA AND A STATE OF THE ST			ND	ND			ND	13.28		506.44
	04/12/91	1	-		-1			·				980 8 300 1 300 0 10	J	13.00	0.00	506.72
	09/04/91		2. 1			2 22			NO.	# #	ND	ND	ND	13.61 12.54	0.00	507.18
	04/06/92	ND						DN 	NO 	ND 	ND	ND	(4) - 4 F	13.45	1	506.27
N .	07/28/92	6.5 ND		🕶 range in de en en en en en en en en en en en en en	all a service and a service of	and a service of the)							13.98	0.00	505.74
	01/14/93	A REPORT OF THE PROPERTY OF THE PARTY OF THE				A CONTRACTOR OF STREET			2833					10.44	0.00	509.28
	03/26/93		-		·		·						 ==============================	 11.43	0.00	508.29
	04/22/93	60	40	68	98	7,300)		a 2000 to 1	- regulation	1	1-22-22		<u> </u>		ge 4 of 10



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

WELL ID/	5.6% o 350s		Terencedayon	ETHYL-	Service Aurora Albert	HON I HOA	Margar de la col	1,2-	28 394, 305 (383)	88 v- 9-830	1,1,1	81.1±8	20009 6.cc**	medde gest.	**** ********************************	12.89 B
ELEVATION		BENZENE	TOWENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	DTW	SPT	WTE
(ТОС)	DATE	(ppb)	(dgq)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(dqq)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-10	03/28/86															
520.41	03/15/88	7	ND	ND	ND	90					100 44	30 A+	335 4 6	14.85	0.00	505,55
ļ	05/10/88													14.90	0.00	505.51
. 1	06/10/88	94 (4.6) 4.8		i en en en en en en en en en en en en en			Project.		North Mark	ಳಾಗಿ ನಮ		****		15.94 14.85	0.00	504.47 505.56
	07/25/88 10/13/88	סא	ND	ND	ON SND	ND.			08. <u>4</u> 4					14.90	0.00	505.51
	01/01/89	307(307000-00000												14.83	0.00	505.58
:	01/12/89	ND.	ND.	ND.	ND.	ND			1004 BX				8883 55			
1	04/11/89	4.8	ND	ND	ND	ND	ND	6.1						14.90 15.12	0.00	505.51 505.29
	06/26/89 10/13/89	0.7 ND	ND ND	ND ND	1.5 ND	ND ND	4.0 ND	ND ND		1300 g.g.			ide Me Zaz	15,11	0.00	1.
	01/03/90	ND ND	ND	ND.	ND:	ND		3		5 (<u>22</u>	79.43.62° 22°		(A. W. # # # # # # # # # # # # # # # # # #	15.01	0.00	505.40
	05/07/90	ND	ND	ND	ND	DN		ND	I	ND		ДИ		15.53	0.00	504.88
	09/27/90:	ND	S ND	ND.	ND	ND	100 A # # # # # # # # # # # # # # # # # #	ND.	ND	1.2	ND	ND	300 280 30 30 30 3	15.20	0.00	505.21
	01/03/91	ND 16	ND ND	ND 2.9	ND 2.7	ND	<u> </u>	ND	ND ND	ND ND	ND ND	DN DN (100)	ND ND	15.06	0.00	505.35 505.55
	04/12/91 09/04/91	16 ND	ND	ND	ND	ND	িং কুল	ND	ND	ND	ND	ND	ND	15.22	0.00	505.19
	04/06/92	ND.	ND	ND ND	ND	57.	े श्रेर च	1.1	ND	ND	ND	ON	ND	14.21	0.00	506.20
	07/28/92	ND	ND	ND	ND	ND]	i — —]]	J	14.78	0.00	
	10/16/92	ND	ND	ND.	ND	ND		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				10994) 18708- 7700		15.51	0.00	504.90 506.97
	01/14/93*	4.7 ND	ND ND	2.3	1.6 ND	88 ND						waati	0x13x	13.44 12.55	0.00	500.97
	03/26/93	ND ND	ND	ND	ND	ND			1 mare 27.0%	83 d 97. % 				13.74	0.00	
C-11	03/28/86			T			 	<u> </u>						13.82	0.00	506.22
520.04	03/15/88		86586 3 8	Market bet		302 S + 3	3000 404	1444	SMILES	े इंकेट कें	3305±#		\$300 5	14.49	0.00	
	05/10/88													14.31	0.00	
	06/10/88		PRREPARE			37.3. H#	100	200 A.S			10.200 5 .#		**************************************	15.47	ે ૂ0.00	
	07/25/88 10/14/88	240	33	4.7	 67		lo III	[≈ - - - - - - -		rate in Line	 			13.60	0.00	
	01/01/89			5163685		11 6 7 5 5 1 C S 1 5 1				40000000000000000000000000000000000000	l		 	14.10	0.00	505.94
	01/12/89	DN	0.8	ND	, ND	ND		20 E				0 30 ± 1		200		
ľ	04/12/89	4.3	ND	ND	ND	ND	ND	ND						14,36	0.00	
	06/26/89	7 0 0 0 2	ND ND	ND ND	ND ND	IND ND	4.0 ND	ND ND	[왕조하스 턴 등	1665 			Nair To	14.58 14.71	0.00	
	10/13/89 01/03/90	DN DN	ND.	NO NO		ND			 100.44		::::::::::::::::::::::::::::::::::::::	285. 2 4		14.61	0.00	
	05/08/90	12	11	0.9	22	110		ND		ND		ND		15.53	0.00	
	09/28/90	2.0	Sec. 344	ND	3.3	ND	fran es	ND	ND	1.2	DN			15.51	0.00	
	01/03/91	2	ND	ND	2	ND		ND.	ND	ND	ND	ND	FIRE MRS MSS A	14.63	0.00	
	04/12/91		START SE	2008年1月1日									। अधिकात्त्व विकास	14.30 14.84	0.00	
	09/04/91	סא	ND.	ND	ND	ND		ND	ND	ND	ND	ND	ND	13.56	0.00	
	07/28/92	ND	ND	ND	ND	ND								14.39	0.00	P
	10/16/92	ND	ND	ND .	ND.	ND	1886 88				1.886.9		1 1 1 3 3 3 5	15,79	0.00	
	01/14/93*	ND	1.8	0.7	6 20 November 20	94	100,000,000	1000 T	1,030,000,000	1.2113614.83	nace edize	800034678	Lw. 221-25	12.14	0.00	
1	03/26/93	2 0.8	ND ND	0.6 ND	1 ND	130 ND	 At account to proceed. 	N - 1						11.81 12.94	0.00	
	04/22/93	1 0,0	110	I NO	140	1 140	<u> </u>				<u> </u>			16.37		ge 5 of 10

Page 5 of 10



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

WELL ID/	1.192			ETHYL+		100000000000000000000000000000000000000	80 (M. 1989)	1,2+			1,1,1=	1,1-	s Arribba	#130 . K.	138.62	
ELEVATION	7 - 75 Z	BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	DTW	SPT	WTE
(ТОС)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(dgq)	(dqq)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-12	03/28/86													13.61	0.00	506.21
519.82	03/15/88	ND	ND	ND	ND	ND	1200 - 1			<i>~~**</i>			###	14.55	0.00	505.27
	05/10/88	ACSAMA (SEC. S.) (SEC. SEC.		una energenera	ing a single control		40 m 45 h 300	 5060aun 1805	 Cosostate s		a svestarves.	 00000009840		14.57	0.00	505.25
1	06/10/88 07/25/88	7000052												15.63 14.51	0.00	504.19 505.31
ŀ	10/13/88	and San NO	ND	DA SEC ND	ND	ND.	2 44		2000 N A	\$ 13 X	3808 44		27.4-	14.60	0.00	505.22
	01/12/89	ND	ND	ND	ND	ND		i						14.62	0.00	505.20
\	04/11/89	ND	ND	ND	ND:	ND.	ND.	ND						14.61	0.00	505.21
	06/26/89	ND	ND Aub	ND	ND	ND ND	ND	ND	69303:6408:				es (1400 a 1	14.75	0.00	505.07
	10/13/89 01/03/90	ND ND	ND ND	ND ND	ND 0,6	ND ND	ND.	ND ND						14.77	0.00	505.05 504.97
<u> </u>	05/07/90	TANA ND	ND.	ND	ND ND	ND:		ND.	g	ୁ ND		ND	rasaet	14.75	0.00	505.07
	09/27/90	ND	ND	ND	ND	ND		ND	ND	1.2	ND	ND		14.61	0.00	505.21
	01/03/91	ND	ND	ND	Second	ND:	. `o\ ,+' }	- ND	ND	ND	ND	ND	ON	14.70	0.00	505.12
<u> </u>	04/12/91 09/04/91	-21 02 VAA	elmie pipp.	3990 N. P. P.		1888 - 1812 1888 - 1812 1888 - 1812	 	AND L			1916 IN	2.022		14.52 14.83	0.00	505.30 504.99
	04/06/92	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	13.81	0.00	506.01
	07/28/92	ND	ND	ND	ND:	ND	F1:: : <u>≥</u> ;	g to 12	22				ر بريد دريد دريد دريد دريد دريد دريد دري	14.32	0.00	505.50
	10/16/92	ND	ND	ND	ИD	ON						·		15.12	0.00	504.70
	01/14/93*	ND	ND	20 MD	1.7	65	िश चर्च		. 835 5 €	ಎ ಸಮನೆ	25 6 24 #]####	# 7 ÷ −	. 13.23	0.00	506.59
	03/26/93 04/22/93	0.9 ND	ND ND	ND ND	ND ND	ND ND					 Jugg e	30000 44	~~~ ~~~	12.20	0.00 0.00	507.62 506.61
C-13	03/28/88		5.0 0. 2 140.	33 10000110	1		New 200 (200 (100 (100 (100 (100 (100 (100						1 V 19 2 T 17 T	12.95	0.00	509.29
522.24	03/15/88	2		9	20 33 44 3	250	989. 	9.059	***	22 (S) (C) (A) (A) (A)	.x8999.44	2000 (ALA)	3.77.22	14.82	0.00	507.42
	05/10/88		1							**************************************	(1 m., 200, 40 / 41 / 41 / 400) — —			15.03	0.00	507.21
	06/10/88	5000 00 1 MW	korazs		688 2 8 9		7400 1 44.					30 388 <u>197 49</u> 3 3 3 3 3 4 4 4 5		16.10	⊙.00	506,14
1	07/25/88	1 00.001 000 00 00		9-90 UT 1-9-90T KIS T			1.00.000		10 000000000000000000000000000000000000	804. VAE.	2021 2000000000	1000010000 0 0000 1.4		14.73	0.00	507.51
	10/13/88 01/01/89	1.9	ND.	ND	ND	ND.			11 000 0 M J J Z					14.91	0.00 0.00	507.33 508.14
	01/12/89	ND	0.6	1.4-1.25 A	23 G 18 ND	ND:	12.50 mm # #	108(01) #FAT	388 74				1000-000 <u>0-11</u>	3 ± ± ±		(° ° − − (
\	04/10/89	ND	ND	8	ND	ND	ND	ND						14.99	0.00	507.25
	06/26/89	0.3	ND	ND	ND.	ND	ND:	ND					经数据证	15.16	0.00	507,08
	10/13/89	ND ND	ND ND	ND 0.5	ND 0.6	ND ND	ND 	ND ND		3000 <u>a</u>		<u> </u>	285 5 5	15.23 15.15	0.00	507.01 507.09
<u> </u>	01/03/90	ND	ND	ND	I ND	ND ND		ND		ND		ND	(পুর্বাইটেড জ্বল	15.02	0.00	507.22
1	09/27/90	SOUND		ND SECTION	ND	ND		ND	ND	1.7	ND	₩ ND	30. <u>5</u> 5	15.11	0.00	507.13
[01/03/91	ND	ND	ND	0.6	ND		ND	ND	ND	ND	ND	ND	15.08	0.00	507.16
lj l	04/12/91						PORT TO							14.77	00.00	507.47 506.81
	09/04/91 04/06/92	 ND	ON OND	ND	ND	66		ND	ND	DN	ND	ND	 ND	15.43 14.43	0.00	507.81
	07/28/92	8.2	ND ND	ND	1.1	60								15.37	0.00	506.87
	10/16/92	ON	ND ND	ND	ON	ON	le so ra						- WA 128 S	15.87	0.00	506.37
	01/14/93*	ND			1.3	100				200.000.000	: 0./ 5/05/ 9/20			12.83	0.00	509.41
	03/26/93	DANNE			ON ND	ND ND							-38-2 <u>25</u>	12.59 13.16	0.00	509.65 509.08
<u></u>	04/22/93	NDND	ND ND	<u>ND</u>	L NU	I NU								10.10		e 6 of 10

Page 6 of 10



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

WELL ID/	· 54.889.083864	15/00/09/09 (18/2)		ETHYL-			Eg. Angest	1.2-	LIFORNIA		1.1.1+	ed (1 + %	21874-6-831	2.1232.2581	Ac YOURNESS.	
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	DTW	SPT	WTE
(ТОС)	DATE	(ppb)	(ppb)	(ppb)	(dqq)	(ppb)	(ppb)	(ppb)	(ppb)	(dad)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-14	03/28/86															
520.08	03/15/88			88888##	Kirlinia.		38.5E						\$00.00 B	200 (N) C (200)		
]] [05/10/88	13,000	29,000	2,700	18	120,000						- -		13.39	0.00	506.69
j	06/10/88			300000000		ಾ ಸಾ				100 A 100			8 ST 5	14.65	0.00	505,43
	07/25/88 10/13/88	 ND	 ND	 ND	 ND	ON					0.5320525-254	 Widel et a	 D48840.2851.01	13.47 13.58	0.00	506.61 506.50
]]	01/01/89						1889/888/10/1008	16600 J.T.	\$750 E T	***				13.00	0.00	507.08
	01/12/89	ND	ND.	ND	ND	NS	WEEK	NOTE:				600 S A .9	3733 5 5	2032		\$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
	04/12/89	ND	ND	ND	ND	NS	ND	ND			.0000000000000000			13.47	0.00	506.61
<u>)</u>]	06/26/89	14,000	25,000	3,400	28,000	100000000000000000000000000000000000000		30						13,80	0.00	506.28
	10/13/89 01/03/90	12,000	16,000 16,000	1,600	13,000	86,000				0007000 0000000000	 		 	13.62	0.00	506.46
	01/03/90	9,500 3,900	8,100	1,800 1,200	13,000 7,700	120,000 76,000		25 18	3		(1000 T.B.)			13.91 13.91	0.00	506.17 506.17
i	05/08/90	7,500	17,000	1,400	14,000	62,000		13		ND ND		ND		13.89	0.00	506.19
[09/27/90		!							l ——				13.78	0.00	506.30
	01/03/91				97. YÆ	998 X X X	上水冷 草 量.	ある場合	0,88##.) के ल पीत	Section 1	30 €#	13,72	0.00	506.36
	04/12/91	750	3,800	720	9,200	60,000	120 1000	ND	ND	ND	o ND	ND	ND	12.97	0.00	507.11
	09/04/91 04/06/92	2,800 190	11,000	1,800 440	13,000 5,100	110,000 41,000		ND	ND	ND				13.84	0.00	506.24 507.64
[07/28/92	2,300	9,700	1,800	15,000	130,000			ND See - 1 -		ND	ON CELES	ND	12.44	0.00	506.38
	10/16/92						****					: 1000000 (C. 10)		14.38	0.00	505.70
	01/14/93*	220	790	220	2,700	27,000		多数		982FF	SEE A	00000000 <u>00000</u> 8. 68 66 66 66	100 S. ##	8,80	0.00	511.28
<u> </u>	03/26/93	330	1,600	460	4,000	23,000**		!		ſ - -	((!	9.12	0.00	510.96
l	04/22/93	840	2,300	130	3,500	17,000		San H	VII. 16					12.10	SHEEN	507.98
C-15 522.41	03/28/86		- The Larry of Albah	 	 			# ## # # # # # # # # # # # # # # # # #	and any Moran	208-22-1000	100110000000001.00		linate a la	13.14	0.00	509.27
522.41	03/15/88 05/10/88	ND 	ND:	ON NO	NO	NO							235 <u>- 1</u>	15.13 15.40	0.00	507.28 507.01
1	06/10/88					an week		sse e						16.49	0.00	505.92
]]	07/25/88									i	**************************************	torseacoustically		15.17	0.00	507.24
	10/13/88	ON.	ND:	ND.	ND	- ND	12.42. 4.4		:::::::::::::::::::::::::::::::::::::	23×5 4, *				15.33	0,00	507.08
	01/01/89		:		→ →	Carpo aprofesiona apro-								13,70	0.00	508.71
	01/12/89 04/12/89	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND		3888 5 4			338# 5	15.04	~~	F07.07
[[06/26/89	ND	ND	ND	ND.	ND	ON .	ND			1800000	lasas I I	100057	15.34 15.72	0.00	507.07 506.69
	10/13/89	ND	ND	ND	ND	ND	ND	DN			0.0.00000000000000000000000000000000000	 		15.96	0.00	506.45
	01/03/90	ND.	nD ND	ND	ND	ND		ND.	## 65 £					15.42	0.00	506.99
1	05/08/90	ND	ND	ND	ND.	ND		ND		ND.		ND ND		15.62	0.00	506.79
	09/27/90 01/03/91	ND ND	ND ND	ND ND	ND 0.6	ND ND		ND ND	ND ND	2.9 ND	ND ND	ND.	- Programme and the second	15.59	0.00	506,82
	04/12/91					*** **	12 m 1	And the	ND H	ND Th	ND See	ND	ND 	15.50 15.21	0.00	506.91 507.20
1	09/04/91					 			Jamaana. 23		ransonsons.		The contractor	15.90	0.00	506.51
	04/08/92	ND	ND	ND	ND	NO		ND	ND	ND	ND	ND	ND	14.88	0.00	507.53
] 1	07/28/92	ND	ND	ND	ND	ND	223229190		A - 00100000 NY		- 201-201-201-201-	AN 10 000 , 500 AN 1000		15.82	0.00	506.59
{	10/16/92	ND	ND	ND	ND	ND		33.25 5 .5) waa			1880 4.7	leef t.	16.25	0.00	506.16
ļ ļ	01/14/93*	ND ND	1.9 ND	0.8 ND	5.1 1	61 ND								12,48 12,67	0.00	509.93
	04/22/93	ND	ND	ND	ND	ND				12000 : 000000 J			(3.35 (3.3 5)	13.60	0.00	509.74 508.81
<u> </u>		119			- 1.0					<u> </u>			:	10.00		300.0

Page 7 of 10
GROUNDWATER
TECHNOLOGY

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

WELL ID/	J-1968-1988.			ETHYL-			8.30.30.00 s.i.	1,2			1,1,1-	8111+°	8888 TO 101	. A SON:	7 (y - 2)	
ELEVATION	- 200	BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	TOG	DCA	OTHER	MC	TCA	DCA	PCE	DTW	SPT	WTE
(тос)	DATE	(ppb)	(dqq)	(dgq)	(dqq)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-16	03/28/86															
519.68	03/15/88													5 (v ###	``\`~'=	
İ	05/10/88	1,000	73	140	180	4,500			11		2002 T2		1	13.78	0.00	505.90
\	06/10/88 07/25/88	2003			NAME OF THE SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND S			838 VOTES	3 8 8 2 2 2	NWEE E				14.88 13.69	0.00	504.80 505.99
	10/13/88	:#junijan/18	5.5	en and and and and and and and and and an	g > 16 (e)	1,600	. Yy y +} # !		C 3 0 € €	3. c. 2 5. \$.		78. 49	ရက္ခြင့္ 🛶 📫	13.80	0.00	505.88
	01/01/89 01/12/89	360	 .::::::::::::::::::::::::::::::::::	78	51	% 1.000	okan III		A COMMENT			Nether Addition	i <u>1</u> 1	13.45	0.00	506.23
}	04/11/89	130	harai-war a ta	21	19	15,800	ND	8	১৯৯১ <u>কুল</u>		1	7600 6 8 1 VB		13.78	0.00	505.90
1	06/26/89	170		£.5%%.%. 37 .	43	300,1	ND:	ND	100				g, 25 2 −	14.02	0.00	505.66
	10/13/89 01/03/90	20 150	ND S	9808884 - 411	ND 24	1,000	ND	ND 5	78##		2.45524 ***	200		14.01 13.97	0.00	505.67 505.71
1	05/07/90	49	4.4	29	13	480		4.5		ND	52 (*3a. caa	ND		14.45	0.00	505.23
	09/29/90	18	2.1	80 U 11	8.0	360 230		1.8	ND ND	ND	ND ND	ND		ੂ 14.32 13.06	0.00	505.36 505.72
1	01/03/91 04/12/91	12	ND —	6	6	230	. - -	2		0.8 		ND	ND 	13.96 13.74	0.00	505.72
,	09/04/91			[\	 !			1]1	14.22	0.00	505.46
	04/06/92 07/28/92	30 31	DN DN	14 6.8	12.0 16	360 310		1.0	ND	ND	ND	ND	ND	13,18 13,93	0.00	506.50 505.75
	10/16/92	. 11	, ND	5.1	3.4	140	lu, ≌e,			.a +.				14.92	0.00	504.76
	01/14/93*	24	ND	36	21	740	l			ι				11.81	0.00	507.87 508.32
Į į	03/26/93 04/22/93	22 46	ND	16 24	10	730 850	734 <u>T</u>			3 <u>+</u> =	321 <u>E</u> E		'AET	11.36	0.00	506.32
C-17	03/28/86													13.48	0.00	507.34
520.82	03/15/88		aid la Sail.	578 SW	863684 4	33000		Sec. 35.5	735 # B		2006#	800 Z ±	205	14.78	0.00	506.06
ļ	05/10/88								ii	i	50,000 develop 200	194 90 0 90 414		14.77 15.84	0.00	506.05 504.98
	06/10/88 07/25/88			######################################				0.80 mm.			**************************************			14.63	0.00	506.19
{	10/13/88	18	900	760	5,500	270,000			2000 to to			30 30 Tab.	2788 5 5	14.83	0.00	505.99
	01/01/89 01/12/89	DN	19926. 490	2,100	6,700	= 190,000		<u>=</u> =			-0.888222	8,000, M. 27020 Calaboration	200000000000000000000000000000000000000	14.78	0.00	506.04
	04/11/89	30	150	320	1,000	27,000	6.0	ND		·	38500 000.00	\$3.6560 vector	frifither	14.83	0.00	505.99
	06/26/89	2,000,000,000	390	660	2,000	20,000	ND.	ND		****	**************************************	***	3.57 + #	15.03	0.00	505.79
	06/26/89 10/13/89	40 (00 - 00 ND)	420 48	740 230	2,200 480	27,000 17,000	ND	ND ND					2.325###	15.03	0.00	505.79 505.80
	01/03/90	ND	29	120	210	14,000		ND			 	i		15.10	0.00	505.72
İ	05/08/90	25.25	130 ND	210 ND	470 ND	9,500 ND		ND.	ON DN	ND ND	1.9	ND ND	8756 55	15.12 14.99	0.00	505.70 505.83
1	09/29/90 09/29/90	ND ND	3.4	ND ND	ND.	NO NO	MARK.	ND	ND ND	1.8	1.9	ND		14.99	0.00	505.83
	01/03/91	ND	28	56	140	3,700		ND	ND	1.8	1.9	ND	ND	14.92	0.00	505.90
	01/03/91 04/12/91	ND ND	10	59	150 120	8,600 8,600	w.w.m.	ND ND	ND ND	ND ND	ND ND	DN ON	ND ND	14.71	0.00	505.90 506.11
 	04/12/91	ND	111	-2% a × 1 € 48.	120	4,400	KUMEE	ND.	ND:	ND ND	ND.	ND	SASS ND.	· 14.71.	0.00	506.11
	09/04/91	ND	27	49	79	5,800		ND	ND	ND	ND ND	ND ND	ND ND	15.17 15.17	0.00	505.65 505.65
	09/04/91 04/06/92	a de ND. ND	21 5.8	36 27	61 29	4,100 2,300	3.30 <u>H.</u>	ND ND	ND ND	ND ND	ND	ND	ND	14.14	0.00	506.68
lį l	07/28/92	99	180	3170	430	11,000	<u> </u>							15.18	0.00	505.64
	10/16/92 01/14/93*	ND 9.3	4,800 9,1	3,900 23	6,600 34	1,200,000		 		388 55	-2464 14.5 20 525	 		15.76 13.44	0.00	505.06 507.38
	03/26/93	ND	19	23 20	35	3,700**]		ে গেল এন আ			12.46	0.00	508.36
<u> </u>	04/22/93	18	88	3339 To 35 44	#95.Z/92/0 97	8,900	**************************************		2000 		2000 + +	2000 A	**************************************	13,30	0.00	507.52

Page 8 of 10



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

WELL (D) ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2 ~ DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1- DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
C-18 518.96	03/28/86 03/15/88	24495322			2014 (11.1 Lutter La 2014)	Transaction	X2413504 D31615		00.00.00.00.00.000.00		3/01/3/3/2004		1113 0 10 20 20		sou orroudor, tie	
0.0.00	05/10/88	 								44		7.5				
	06/10/88			0.000							38333 <u>3444</u>	:		14.89	0.00	504.07
	07/25/88		TO SECURE USES AND AND AND AND AND AND AND AND AND AND			— —			·		2786245.000 = =			13.79	0.00	505,17
	10/13/88 01/01/89	ND	ND ~-	DN	ON S	DN			Property (13.86	0.00	505.10
	01/12/89	ND	ND ND	ND	ND.	ND	500 AGE:##1	2825X 2 4	288044		2000 A A			13.94	0.00	505.02 518.96
	04/11/89	ND.	ND	ND	ND	DN	ND	3.6				[14.86	0.00	504.10
	06/26/89 10/13/89	DN ND	ND ND	ND ND	ND ND	ND ND	ND ND	3,1 ND						14.02	0.00	504.94
	01/03/90	ND.	ND	ND	NO NO	ON			23.4.42EE	### = =				15.06 14.07	0.00	503.90 504.89
	05/07/90	ND ND	ND	ND	ND	ND		ND	75101 (8480)	ND	0.000 sens	ND	(C) - 2 (C) - 1	14.01	0.00	504.95
	09/27/90 01/03/91	ND ND	ND ND	ND ND	ND ND	ND DN	36 (44) 	ND ND	ON ON	୍ଦ ୧.୫ ND	ND ND	ND ND		13.91	0.00	505.05
i	04/12/91	NO.	ND	% (≪ND	ND	ND ND		ND	ND	S ND	SEE NO.	ND	ND ND	13.98 13.83	0.00	504.98 505.13
!	09/04/91	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	14.20	0.00	504.76
ı	04/06/92	ND ND	ND ND	ND ND	ND ND	ON DN		: OND	ND	ND	ND	DN	ND		0.00	505.89
II	10/16/92	基.psp ND	ND.	ND	ND	ND	5 % a		5 (4) (1 		## ##	828 ZZ		13.55 14.38	0.00	505.41 504.58
	01/14/93*	ND	ND	ND	1.8	56								12.46	0.00	506.50
	03/26/93 04/22/93	ND ND	ND ND	ND ND	SARSSA NDI ND	ND ND				% :: +++ 	200 A.E.		<i>૱</i> ૽ૼૢૺૼ ૻ૽ ₩.	11.46	○ 0.00	507.50
					100	140						<u>- </u>		12,58		506.3

Page 9 of 10



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

WELL ID/ ELEVATION (TOC)	DATE 03/28/86	BENZENE (ppb)	TOLUENE (ppb)	ETHYL- BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	TOG (ppb)	1,2- DCA (ppb)	OTHER (ppb)	MC (ppb)	1,1,1- TCA (ppb)	1,1 DCA (ppb)	PCE (ppb)	DTW (feet)	SPT (feet)	WTE (feet)
520.99	03/15/88 05/10/88 06/10/88 07/25/88	1,400 	360	350	1,300	 18								15.23 16.58	0.00	505.76 504.41
	10/13/88 01/01/89 01/12/89 04/11/89	8,3 5 1,8	4.7	4.4 	ND ND	ND							8%,5 22 	15.19 15.27 15.20	0.00 0.00 0.00	505.80 505.72 505.79
	04/11/89 06/26/89 10/13/89 01/03/90	1.2 2.5 ND 1.2	ND ND ND ND	0.6 ND ND	ND 0.6 ND ND	ND 500 500 540	ND 1 ND 1 ND 1 ND 1 ND 1 ND 1 ND 1 ND 1	13 14 26 13						15.24 15.24 15.44 15.47	0.00 0.00 0.00 0.00	505.75 505.75 505.55 505.52
	05/07/90 09/28/90 01/03/91 04/12/91	ND ND ND	ND ND ND	1.3 ND ND ND	0,9 ND ND ND	ND ND ND 66		11 4.6 ND	HH ND ND	 ND 1.2 ND	ND ND	ND ND ND	0.9	15.45 15.68 15.52 15.56	0.00 0.00 0.00 0.00	505.54 505.31 505.47 505.43
	09/04/91 04/06/92 07/28/92	0.7 1.4	ND ND	1.0 1.0	 ND 4.2	 110 ND	3 [7 	1.9	ND	ND	ND	 ND	ND	15.20 15.60 14.58 15.26	0.00 0.00 0.00	505.79 505.39 506.41
	10/16/92 01/14/93* 03/26/93 04/22/93	ND 1.1 ND 0.6	ND ND ND	ND 0.9 ND	ND 0.9 ND	ND 100 ND 250**				 				16.00 16.69 12.96	0.00 0.00 0.00	505.73 504.99 507.30 508.03

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

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

Page 10 of 10

GARTAB1,WK1



ATTACHMENT !

ANALYTICAL LABORATORY REPORTS

AND

CHAIN-OF-CUSTODY MANIFESTS





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

Client Number: 020704233 Facility Number: 9-1924

Project ID: 4904 Southfront Rd.

Livermore

Work Order Number: C3-04-0368

May 7, 1993

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

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 04/23/93.

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

GTEL is certified by the California State Department of Health Services, Laboratory certificate numbers 194 and 1075, 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.

Eileen F. Bullen

Laboratory Director

Livermore
Work Order Number: C3-04-0368

Table 1

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Water

GTEL Sample Number		01	02	03	04
Client Identification		TB-LB	RINSATE	C-11	C-12
Date Sampled		04/22/93	04/22/93	04/22/93	04/22/93
Date Analyzed		05/04/93	05/04/93	05/05/93	05/05/93
Analyte	Detection Limit, ug/L		Concentra	ation, ug/L	
Benzene	0.5	<0.5	< 0.5	0.8	<0.5
Toluene	0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5
Xylene, total	0.5	<0.5	<0.5	<0.5	<0.5
BTEX, total	-	-	-	0.8	
TPH as Gasoline	50	<50	<50	<50	<50
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		95.9	100	98.4	95.3

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



Client Number: 020704233
Facility Number: 9-1924
Project ID: 4904 Southfront Rd.
Livermore
Work Order Number: C3-04-0368

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Water

GTEL Sample Number		05	06	07	08
Client Identification		C-15	C-18	C-10	C-13
Date Sampled		04/22/93	04/22/93	04/22/93	04/22/93
Date Analyzed		05/05/93	05/05/93	05/05/93	05/05/93
Analyte	Detection Limit, ug/L		Concentration	on, ug/L	
Benzene	0.5	<0.5	<0.5	<0.5	<0.5
Toluene	0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5	<0.5	<0.5	<0.5	<0.5
Xylene, total	0.5	<0.5	<0.5	<0.5	<0.5
BTEX, total		-	-		1
TPH as Gasoline	50	<50	<50	<50	<50
Detection Limit Multiplier		1	1	1	1
BFB surrogate, % recovery		97.3	93.6	96.5	98.5

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



Work Order Number: C3-04-0368

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Water

GTEL Sample Number		09	10	11	12						
Client Identification		C-3	C-19	C-16							
Date Sampled		04/22/93	04/22/93	04/22/93	04/22/93						
Date Analyzed		05/05/93	05/05/93	05/05/93	05/05/93						
Analyte	Detection Limit, ug/L	Concentration, ug/L									
Benzene	0.5	<0.5	0.6	<0.5	46						
Toluene	0.5	<0.5	1	0.6	<0.5						
Ethylbenzene	0.5	<0.5	1	0.6	24						
Xylene, total	0.5	<0.5	1	0.8	6						
BTEX, total	-	_	4	2	76						
TPH as Gasoline	50	<50**	250*	68*	850						
Detection Limit Multiplier		1	1	11	1						
BFB surrogate, % recovery		96.8	96.8 99.7 98.0								

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. Bromofluorobenzene surrogate recovery acceptability limits are 70 - 130%.
 * Uncategorized compounds not included in gasoline hydrocarbon concentration.
 ** Hydrocarbon pattern uncharacteristic of fresh gasoline.



Client Number: 020704233 Facility Number: 9-1924

Project ID: 4904 Southfront Rd.

Livermore

Work Order Number: C3-04-0368

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Water

EPA Methods 5030, 8020, and Modified 8015a

GTEL Sample Number		13	14	15	16					
Client Identification		RINSATE C-5	C-5	C-1	C-2					
Date Sampled		04/22/93	04/22/93	04/22/93	04/22/93					
Date Analyzed		05/05/93	05/05/93	05/05/93	05/05/93					
Analyte	Detection Limit, ug/L	Concentration, ug/L								
Benzene	0.5	<0.5	220	26	12					
Toluene	0.5	<0.5	18	44	12					
Ethylbenzene	0.5	<0.5	120	580	28					
Xylene, total	0.5	<0.5	65	330	29					
BTEX, total	_		420	980	81					
TPH as Gasoline	50	<50	2300*	18000	2000					
Detection Limit Multiplier		1	1	5	1					
BFB surrogate, % recovery		101	108	116						

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

Uncategorized compounds not included in gasoline hydrocarbon concentration.

***BFB recovery high due to interference of the target compounds at the BFB peak.



Livermore
Work Order Number: C3-04-0368

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Water

GTEL Sample Number		17	18	19	20					
Client Identification		C-17	C-7	C-14						
Date Sampled		04/22/93	04/22/93 04/22/93 04/22/93							
Date Analyzed		05/06/93	05/06/93	05/05/93	05/06/93					
Analyte	Detection Limit, ug/L	Concentration, ug/L								
Benzene	0.5	16	16 130 60							
Toluene	0.5	68	18	40_	2300					
Ethylbenzene	0.5	44	43	68	130					
Xylene, total	0.5	97	36	98	3500					
BTEX, total	_	230	230	270	6800					
TPH as Gasoline	50	8900	3800	7300	17000					
Detection Limit Multiplier		1	1	1	10					
BFB surrogate, % recovery		142***	127	112						

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Control Board LUFT Manual protocols, May 1988 revision. Bromofluorobenzene surrogate recovery acceptability limits are 70 - 130%.
 ***BFB recovery high due to interference of the target compounds at the BFB peak.



Livermore

Work Order Number: C3-04-0368

Table 1 (Continued)

ANALYTICAL RESULTS

Aromatic Volatile Organics and Total Petroleum Hydrocarbons as Gasoline in Water

GTEL Sample Number		21	050593GCQ						
Client Identification		C-6	METHOD BLANK						
Date Sampled		04/22/93	04/22/93 -						
Date Analyzed		05/06/93	05/05/93						
Analyte	Detection Limit, ug/L	Concentration, ug/L							
Benzene	0.5	29	<0.5						
Toluene	0.5	170	<0.5						
Ethylbenzene	0.5	640	<0.5						
Xylene, total	0.5	2400	<0.5						
BTEX, total		3200	00						
TPH as Gasoline	50	20000	<50						
Detection Limit Multiplier		5	1						
BFB surrogate, % recovery		129							

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



Client Number: 020704233
Facility Number: 9-1924
Project ID: 4904 Southfront Rd. Livermore
Work Order Number: C3-04-0368

QC Matrix Spike and Duplicate Spike Results

Matrix: Water

Analyte Modified EPA 8020:	Sample ID_	Spike Amount	Units	Recovery,	Duplicate Recovery, %	RPD, %	Control Limits
Modified EPA 8020.		ļ					
Benzene	Reagent Water	20.0	ug/L	98.5	94.5	4.1	70 - 147
Toluene	Reagent Water	20.0	ug/L	101	97.5	3.5	67 - 150
Ethylbenzene	Reagent Water	20.0	ug/L	95.5	92.0	3.7	69 - 145
Xylene, total	Reagent Water	60.0	ug/L	97.8	94.2	3.8	71 - 152



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Chevron U.S.A. P.O. BOX 5004 San Ramon, CA 94 FAX (415)842-9	Inc. Consultant Project Number 02070-1233 Consultant Home Grandwater Technology (1871 Mark Market Technology)											Chevron Contact (Name) Sreft Hunter (Phone) 510-862-8695 Laboratory Name CTEL Laboratory Release Humber 9033280 Samples Collected by (Name) Take makes 1 Collection Date 4.22											
Sample Number		Number of Containers	Matrix S. Soil A. A. Weter C. Charcool		ype C = Composite C = Composite D = Clearete	Tra-s		Sample Preservation	load (Yes or No)	BTEX + TPH GAS (8020 + 8015)	1PH Siesel (8015)	Oil and Greate (5520)	Purpenble Halocarbons (8010)	,		• To B	e Perfor	med	,				NOTE: DO NOT BILL TB-LB SAMPLES *Seal 116 3.90 HC
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