

Chevron U.S.A. Products Company

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

December 31, 1992

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

Re: Former Chevron Station # 9-5607, 5269 Crow Canyon Road, Castro Valley, CA Enclosed groundwater monitoring report (GTI, 10/12/92)

Dear Mr. Seery:

Attached is a report dated October 12, 1992, which was prepared by Chevron's consultant, Groundwater Technology Inc. (GTI), to describe quarterly groundwater monitoring performed at the subject site on August 3, 1992.

53 mg

I apologize for the delay in submitting this report. The report was mistakenly sent to another person at Chevron by GTI, and I only recently received it.

GTI has completed the fourth quarter monitoring, and their report is forthcoming.

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

Sincerely,

Clint B. Rogers

Environmental Engineer

Attachment

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



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

FAX (916) 372-8781

Project No. 02020 2887

October 12, 1992

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

RE:

QUARTERLY MONITORING AND SAMPLING ACTIVITIES FORMER CHEVRON SERVICE STATION 9-5607 **5269 CROW CANYON ROAD**

CASTRO VALLEY, CALIFORNIA

Dear Mr. Hunter:

Groundwater Technology, Inc. submits this letter as a summary of quarterly groundwater monitoring and sampling data collected on August 3, 1992 at the above-referenced site. Fourteen site-related groundwater monitoring wells were gauged to determine depth to groundwater (DTW) and to check for the presence of separate-phase petroleum hydrocarbons. A potentiometric surface map (Figure 1) and a summary of groundwater monitoring data (Table 1) are included. 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-asgasoline (TPH-G). Results of the chemical analyses are summarized in Table 1. Laboratory reports and chain-of-custody manifests are included in Attachment A. All purge water generated during the sampling process was processed through the onsite groundwater treatment system.

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

Sincerely.

Groundwater Technology, Inc.

Written/Submitted by

JAMES W. GRASTY, R.E.A. Environmental Geologist

Project Manager

JWG/EKS:rc

Attachments 2887QTR4.LTR

Groundwater Technology, Inc.

Reviewed/Approved by

E. K. SIMONIS, R.G.

Senior Environmental Geologist

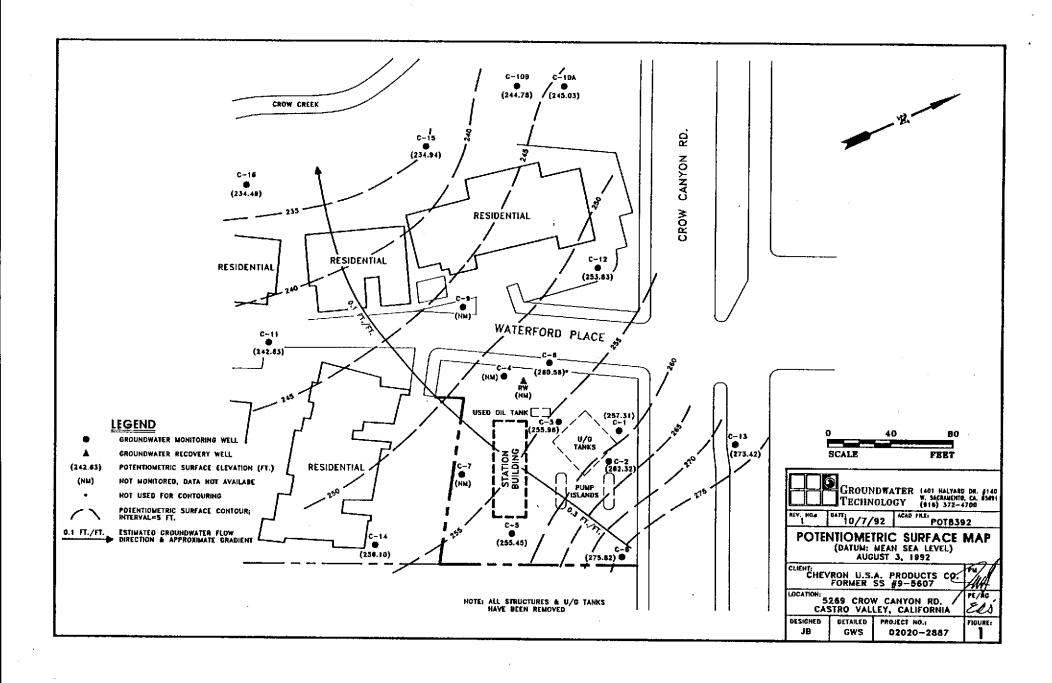


Table 1 HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA

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

	Control Control		5269 CROW C	ANYON ROAD, (CASTRO VALLE	Y, CALIFORNI	<u> </u>			
WELL ID/				ETHYL-			ORGANIC			
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	LEAD	DTW	SPT	WTE
(тос)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet
C-1										1001
	00/00/05		1	ļ						
283.46	03/26/85			l			 b.d occorded accorded accorded a	22.83	0.00	260,
	07/03/86							23.58	0,00	259.
	03/26/87						[20,50	0.00	262.
	03/28/88	,						26.00	0.00	257.
	03/10/89							15.86	0.00	267.
	04/03/89			· · · · · · · · · · · · · · · · · · ·				16.85	0.00	266.
	.05/08/89					T		22.68	0.00	260.
	06/05/89						660,000,000,000,000,000,000,000	24.66	0.00	258
	07/12/90							25.56	0.00	257
	08/10/90	55 55 55 55 55 <u>113 1</u>						300,000,000,000,000,000	 Contractor contractors 	
ļ	09/13/89	3,600	1 100	1 000	0.500	00 000		25.89	0.00	257.
	10/04/89	3,000	1,100	1,000	3,500	22,000		26.55	0.00	256.
i	an analysis and the analysis of public about							25,24	0.00	258.
	11/03/89		- -					25.03	0.00	258.
	12/04/89	2,000	550	610	1,600	13,000		28.37	0.00	257,
	03/07/90	0000 200070000 000000000000000000000000						22.48	0.00	260.
	03/09/90							0.000000000000000000000000000000000000		20 200 CO.
	06/12/90	3,500	1,400	840	4,000	21,000		24.35	0.00	259.
	09/20/90	2,100	1,200	860	5,000	23,000		26.27	0.00	257.
	12/20/90	760	410	260	1,100	8,200		22.59	0.00	260.
	03/27/91	<u></u> .		**************************************				19.08	0.00	264.
	06/18/91							27.11	0.00	256.
	09/12/91	**************************************					(*************************************	28.22	CONTRACTOR CONTRACTOR	Mark Service con-
i	01/23/92				······································				0.00	255.
	04/13/92	ncorestes estatement acceptance in a	\$00000000000000000000000000000000000000			************		26.65	0.00	256.
	08/03/92	3,100	1,300	850	S,100	38,000	-	22.16	0.00	261.
C-2	45,55,52	1,300	470	550	1,600	13,000	ND ND	26.15	0.00	257.
1							j			
284.37	03/26/85									-
	D7/03/86		-		 .			19.69	0.00	264.
	03/26/87							15.45	0.00	268.
	03/28/88							20.92	0.00	263.
	03/10/89							12.80	0.00	271.
	04/03/89					************** <u>****</u> *****		14.26	0.00	270.
ľ	05/08/89		51.000551.0000 HG HG HG HG HG HG HG HG HG					18.42	0.00	265.
ľ	06/05/89			126220000000000000000000000000000000000		000000000000000000000000000000000000000	(50,350,50,30,000,000,000,000	ucagoaci communant	NAMES OF TAXABLE PARTY.	MANUAL NA
ľ				pasikan talijili t (20.09	0.00	264.
ŀ	07/12/90		—— 2007 (1903) - 1903 (1903)	—— Transitavatassavatas				20.79	0.00	263.
į	08/10/90							21.40	0.00	262.
ļ,	09/13/89	62	4	10	14	320		21.86	0.00	262.
	10/04/89			8.0 0 m 7. 7				19.89	0.00	264.
	11/03/89						1	20.76	0.00	263.
	12/04/89	240	37	66	130	1,000		20.82	0.00	263
1	03/07/90							17.83	0.00	266.
	,,				Наровроворит империодани очери	iggigguegeb eutronomonio	990000000000000000000000000000000000000	17.83	0.00	266
	03/09/90	280	35	27	50	390	())));;;;();;()()()()()()()()()()()()()			******
	03/09/90	280 260	35 34	27 28	50 55	390 700				26.4
	03/09/90 06/12/90	280 260	35 34	27 28	50 55	390 700		19.89	0.00	contractors.
	03/09/90 06/12/90 09/20/90	260 		A STATE OF THE STA		1 1000 1000 1000 1000 1000 1000		19.89 21.97	0.00 0.00	262.
	03/09/90 06/12/90 09/20/90 12/20/90	260 		A STATE OF THE STA	5 5	1 1000 1000 1000 1000 1000 1000		19.89 21.97 17.73	0.00 0.00 0.00	262. 266.
	03/09/90 06/12/90 09/20/90 12/20/90 03/27/91	260 		A STATE OF THE STA	5 5	1 1000 1000 1000 1000 1000 1000	 	19.89 21.97 17.73 15.10	0.00 0.00 0.00 0.00	262 266 269
	03/09/90 06/12/90 09/20/90 12/20/90 03/27/91 06/18/91	260 		A STATE OF THE STA	55 	1 1000 1000 1000 1000 1000 1000	 	19.89 21.97 17.73 15.10 22.68	0.00 0.00 0.00 0.00 0.00	262 266 269
	03/09/90 06/12/90 09/20/90 12/20/90 03/27/91 06/18/91 09/12/91	260 		28 	55 	1 1000 1000 1000 1000 1000 1000	 	19.89 21.97 17.73 15.10	0.00 0.00 0.00 0.00	262. 266. 269. 261.
	03/09/90 06/12/90 09/20/90 12/20/90 03/27/91 06/18/91 09/12/91 01/23/92	260 		28 	55 	700 	 	19.89 21.97 17.73 15.10 22.68	0.00 0.00 0.00 0.00 0.00	262. 266. 269. 261. 260.
	03/09/90 06/12/90 09/20/90 12/20/90 03/27/91 06/18/91 09/12/91	260 		28 	55 	700 	 	19.89 21.97 17.73 15.10 22.68 23.92	0.00 0.00 0.00 0.00 0.00 0.00	264.4 262.4 266.0 269.1 261.0 260.4 263.2



Table 1 (Continued) HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA FORMER CHEVRON SERVICE STATION NO. 9-5807 5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

			5269 CROW C	ANYON ROAD, (CASTRO VALLE	Y, CALIFORNIA	1			Page :
WELL ID/				ETHYL-			ORGANIC			90000000
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	LEAD	DTW	SPT	WIE
(TOC)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet)
C-3										
285.98	03/26/85	- -								
	07/03/86			<u></u>				26.04	0.00	259.9
	03/26/87							25.64	0.00	260.3
	03/28/88							28.82	0.00	257,1
	03/10/89							22.78	0.00	263.2
	04/03/89					 -		22.71	. 0.00	263.2
	05/08/89							25.95	0.00	260.0
	06/05/89					} -		27,62	0,00	258,3
	07/12/90			—— :::::::::::::::::::::::::::::::::::				28.29	0.00	257.6
	08/10/90 09/13/89	4 400						28,46	0.00	257.5
	10/04/89	1,400	6,800	2,300	10,000	60,000		29.33	0.00	256.6
	11/03/89					 -		28.97	0.00	257.0
	12/04/89	1,300	3,300	1,400	2,700	58,000		28.72 29.01	0.00 0.00	257.2 256.9
	03/07/90	~						27.69	0.00	258.2
	03/09/90	1,100	5,700	1,600	7,900	42,000		27.69	0.00	258.2
	06/12/90	1,400	7,100	3,400	16,000	160,000		28.09	0.00	257.8
	09/24/90	850	7,700	2,000	10,000	53,000		29.18	0.00	256.8
	12/20/90	1,200	5,400	5,400	33,000	520		28.27	0.00	257.7
	03/27/91	1,300	3,100	1,200	11,000	92,000		24.80	0.00	261.1
	06/18/91]		30.84	0.00	255.1
	09/12/91##	 .						31.64	0.03	254,3
	01/23/92	— — :::::::::::::::::::::::::::::::::::						30.52	SHEEN	255.4
	04/13/92##						==	26.94	0.01	259.0
	08/03/92	1,300	2,800	3,100	17,000	220,000	ND	30.00	0.00	255.9
-4										
273.01	03/26/85	— — — — — — — — — — — — — — — — — — —						15.14	0.00	257.8
	07/03/86							15.37	00,00	257.6
	03/26/87							— — 		
	03/28/88				——			18.04	0.00	254.9
İ	03/10/89 04/03/89					_ 				20100.000.00
	05/08/89			888 888 888 888 88 7 7 3.				13.34	0.00	259.6
	06/05/89	<u></u> _						15.60	0.00	257.4
	07/12/90							16.51 16.99	0.00	256,5 256.0
	08/10/90				**************************************			17.27	0.00	255.7
	09/13/89	21,000	3,100	3,200	11,000	57,000		18.16	0.00	254.8
	10/04/89		i					18.24	0.00	254.7
	11/03/89		·					18.17	0.00	254,8
	12/04/89	17,000	2,200	2,800	9,800	48,000		18.45	0.00	254.5
	03/07/90							17.20	0.00	255.8
	03/09/90	20,000	2,300	2,800	11,000	43,000	88 88 6 + 4	17.20	0.00	255.8
	06/12/90	21,000	2,400	4,000	16,000	82,000		16.66	0.00	256.3
	09/24/90							18.11	0.00	254.9
	12/20/90**									
	03/27/91**				301088800					in it
	06/18/91**					18,501,098,999,1301,131				 \$1,086,000.5
	09/12/91**						S			
	01/23/92**						 	.550.955,125.55		 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1
	08/03/92**	Besselin en keldstært stof		i dina ina sindikal a d a	::V:::::::::::::::::::::::::::::::::::	P. 538.08 (0.94) (57 xm.)		::::::::::::::::::::::::::::::::::::::	ಚಿತ್ರವಿಗೆ ಕಾ	2018-01 7 =
<u> 1</u>	20/03/25							==		



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

5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA Page 3 WELL ID/ ETHYL-**ORGANIC** ELEVATION BENZENE TOLUENE BENZENE **XYLENES** TPH-G LEAD DTW SPT WIE (TOC) DATE (ppb) (ppb) (ppb) (ppb) (ppb) (ppb) (feet) (feet) (feet) C-5 287.95 03/26/85 25 33 0.00 262.62 07/03/86 26.41 0.00 261.54 03/26/87 24.96 0.00 262.99 03/28/88 29,80 0.00 258.15 03/10/89 25.89 0.00 262.06 04/03/89 24.38 0.00 263,57 05/08/89 27.80 0.00 260.15 06/05/89 29.42 0.00 258.53 07/12/90 29.86 0.00 258.09 08/10/90 29.77 0.00 258.18 09/13/89 ND ND ND ND 310 30.95 0.00 257.00 10/04/89 31.48 0.00 256,47 11/03/89 31.32 0.00 256.63 12/04/89 ND ND ND ND ND 31.70 0.00 256.25 03/07/90 30.28 0.00 257.67 03/09/90 ND ND ND ND ND 30.28 0.00 257.67 06/12/90 ND ND ND ND 90 30.48 0.00 257.47 09/24/90 ND ND ND ND ND 31.78 0.00 256.17 12/20/90 ND ND 1.0 0.7 170 33.29 0.00 254.66 03/27/91 27.98 0.00 259.97 06/18/91 32.52 0.00 255.43 09/12/91 33.37 0.00 254.58 01/23/92 32.67 0.00 255.28 04/13/92 ND ND 0.7 ND 140 28 48 0.00 259.47 08/03/92 ND ND ND ND ND ND 32.50 0.00 255.45 C-6 03/26/85 16.74 275.28 07/03/86 17.46 0.00 257.82 03/26/87 18.37 256.91 0.00 03/28/88 29.84 0.00 245.44 03/10/89 14.44 0.00 260.84 04/03/89 14.44 0.00 260.84 05/08/89 17.16 0.00 258.12 06/05/89 18.51 256.77 0.00 07/12/90 18.71 0.00 256.57 08/10/90 19.32 0.00 255.96 09/13/89 5,600 3,000 2.400 10,000 47 19.95 0.00 255.33 10/04/89 19.87 0.00 255.41 11/03/89 19.35 0.00 255.93 12/04/89 8,100 1,800 1,700 7,500 40,000 19.59 0.00 255.69 03/07/90 18.39 0.00 256.89 03/09/90 23,000 5.900 3,400 17,000 73,000 18.39 0.00 256.89 06/12/90 19,000 6,500 3,400 16,000 85,000 18.87 256.41 0.00 09/24/90 15.000 3,200 2,600 11,000 72,000 0.00 19.99 255.29 12/20/90 11.000 4,200 3,400 16,000 100,000 21.57 0.00253.71 03/27/91 11,000 4,400 2,300 11,000 100,000 16.32 0.00 258,96 06/18/91 23.33 0.00 251.95 09/12/91 23,96 0.00 251.32 01/23/92 12.08 0.00 263.20 04/13/92 19.85 SHEEN 255.43 08/03/92 16,000 1,100 2,300 15,000 120,000 ND 14.72 0.00 260.56



Table 1 (continued) HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA FORMER CHEVRON SERVICE STATION NO. 9 – 5607 5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

	F-00-1		5269 CROW C	ANYON ROAD, (CASTRO VALLE	Y, CALIFORNIA	١			Page
WELL ID/				ETHYL-			ORGANIC			
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	LEAD	DTW	SPT	WTE
(TOC)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(feet
C-7					<u> </u>					
O ,	03/26/85							0.04		
270.70	03/20/85		l		ļ			9.61	 :::::::::::::::::::::::::::::::::::	3838283
270.70								10.74	0.00	259.
	03/26/87 03/28/88							10.08	0.00	260.
-	03/10/89			 -		T.		13.79	0.00	256
	04/03/89							10.42	0.00	260.
j	05/08/89							9,14	0.00	261,
	06/05/89	10.000000000000000000000000000000000000						11.91 11.54	0.00	258.
ì	07/12/90							13.45	0.00	259, 257,
	08/10/90							13.37	0.00	257. 257.
	09/13/89	1.3	ND	10	ND	410		14.60	0.00	256.
	10/04/89		98888888888888888	5,55,05,05,040000,0000,000			_ _	15.17	0.00	255.
	11/03/89			¹				15.28	0.00	255.
	12/04/89	1	ND	5	ND	1,000		15.70	0.00	255. 255.
	03/07/90							14.22	0.00	256.
	03/09/90	2.8	2.4	3.5	2	590		14.22	0.00	256. 256.
	06/12/90	ND	5	8.2	3.2	1,200		14.18	0.00	256.
	09/24/90	1.4	1.9	1.4	2.2	40D		15.44	SHEEN	255.
ľ	09/24/90D	ND	2.4	1.4	1.5	580		15.44	SHEEN	255.
	12/20/90	ND	6.5	4.7	9.3	2,300	la concessor con exercise consessor of	17,08	0.00	253. 253.
ľ	03/27/91	ND	2.4	9.1	3	980		12.65	0.00	258.
	06/18/91	110	5. T	J.1		300	28/2003/2003/2003/2003/2003	16.44	0.00	agrados viero
ľ	09/12/91	ND	3.1	6.5	2.7	1,200***		17.05	0.00	254. 253.
	01/23/92		V. 1	0.0	£.f	1,200		16.92	0.00	occopionenten
	04/13/92	ND	1	 7.8	1,2	830		13.00	0.00	253. 257.
	08/03/92			7.5	1,2 7.7.			13.00	0.00	2JI.
C-8						10000000000000000000000000000000000000			201120000000000000000000000000000000000	88068000000
ا ۵–د										
288.40	03/26/85							8.68		
200.40	07/03/86	· · · · · · · · · · · · · · · · · · ·			,		**************************************	13.89	0.00	274.
E	03/26/87			— — — — — — — — — — — — — — — — — — —				6.01	0.00	282.
ŀ	03/28/88							10.66	0.00	277.
ŀ	03/10/89			— — 3533			E DOME I SE DOME DA COMO DA CO	6.61	0.00	281.
ŀ	04/03/89		#+	::		::::::::::::::::::::::::::::::::::::::		6.46	0.00	281.
	05/08/89					— —		8.97	0.00	279.
	06/05/89							10.88	0.00	277.
:	07/12/90							12.15	0.00	276.
]:	08/10/90			00760888888777			21980 COCCO (T. T.)	12:46	0.00	275.
ļ	09/13/89	ND	ND	ND	ND	ND		12.78	0.00	275.
ľ	10/04/89	287 NO 148 SEC 1834 - 9		2.0 (2.00.5.				12.51	0.00	275.
ļ	11/03/89		—— *************************					14.63	0.00	273.
	12/04/89	0.6	0.6	ND		64		9.59	0,00	278.
ļ	03/07/90		—— 					8.80	0.00	279.
	03/09/90	ND	ND	ND	ND	ND		8.80	0.00	279.
į	06/12/90	2.5	1.2		1.4	120		8.94	0.00	279.
ļ.	09/24/90							13.54	0.00	274,
	12/20/90	yet i mana						9.33	0.00	279.
-	03/27/91	0.7	ND	0.7	1.9	54		6.10	0.00	282.
Į,	06/18/91		910000000000000000000000000000000000000				1	11.96	0.00	276.
į:	09/12/91	ND	ND	ND	NĐ	ND		13.60	0.00	274.
	09/12/91D	ND	ND	ND	ND	ND	1	13.60	0.00	274.
	01/23/92			:2				24.20	0.00	264.
ſ	04/13/92	ND	ND	ND	ND	ND		8.35	0.00	280.
					, ,				0.00	



Table 1 (continued) HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA FORMER CHEVRON SERVICE STATION NO. 9-5607 5269 CROW CANYON ROAD, CASTRO VALLEY, CALIFORNIA

			5269 CROW C	ANYON ROAD, (CASTRO VALLE	/, CALIFORNIA	Α			Pag
WELL ID/				ETHYL-			ORGANIC			
ELEVATION		BENZENE	TOLUENE	BENZENE	XYLENES	TPH-G	LEAD	DTW	SPT	WT
(ГОС)	DATE	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(feet)	(feet)	(fee
- 9]]		T T
268,46	07/03/86							13.89	0.00	254
	03/26/87							13.74	0.00	254
	03/28/88							14.99	0.00	253
	03/10/89			=-				13,39	0.00	255
	04/03/89							12.84	0.00	255
	05/08/89				 -			14,38	0.00	254
	06/05/89							15.36	0.00	253
	07/12/90 08/10/90							15.65	0.00	25
	09/13/89	14,000	1,100	2,800	4,200	42,000		15.80	0.00	25
	10/04/89			2,000	7,200	72,000		16.53 16.52	0.00	25 25
	11/03/89							16.51	0.00	25 25
	12/04/89	11,000	670	2,500	3,800	36,000		16.79	0.00	25
	03/07/90							16.22	0.00	25
	03/09/90	12,000	940	9,000	4,700	28,000		16.22	0.00	25
	06/12/90	11,000	1,600	2,300	4,800	39,000		14.88	0.00	25
	09/24/90	13,000	1,600	3,700	6,800	120,000		16.30	0.00	25
	12/20/90	9,300	560	2,800	3,300	51,000		17.23	0.00	25
	12/20/90D	12,000	580	2,800	3,500	44,000		17.23	0.00	25
ľ	03/27/91	3,400	5,000	1,600	5,600	56,000		13.78	0.00	25
s	06/18/91	——.						18,64	0.00	24
ļ	09/12/91#									
	01/23/92# 04/13 / 92#									: ::::::::::::::::::::::::::::::::::::
ļ	08/03/92#	- -							*******************************	
-10A	00,00,02	-								
264.84	03/07/90							20.01		
204.04	03/09/90	1.6	0,7	0.8	3.5	ND		20.21	0.00	24
ľ	06/12/90	ND	ND.	ND	ND	ND		19.70	0.00	24
ŀ	09/24/90	ND	ND	ND	ND	ND.		19.54	0.00	24
	12/20/90	ND	ND	ND	ND	ND		19.84	0.00	24
Į.	03/27/91			i.				18.01	0.00	
	06/18/91	ND	ND	ND	ND	ND		20.16	0.00	24
	09/12/91	ND	ND	ND	ND	ND		20.57	0.00	24
Į	01/23/92	ND	ND	ND	ND	ND		20.67	0.00	24
	04/13/92	0.9	1.3	ND	1	53.0	<u></u>	19.40	0,00	24
	08/03/92	ND	ND	ND	, ND	ND	ND	19.81	0.00	24
-10B								-		
264.85	03/07/90							21.44	0.00	24
	06/12/90	ND	ND	ND	ND	ON		19.94	0.00	24
	09/24/90	ND	ND	ND	ND	ND		19.77	0.00	24
	12/20/90	ND	ND	ND	ND	ND		20.00	00.00	24
į,	03/27/91			100000000 10000000 10000 10000		millage energes consi		18.23	0.00	24
F	06/18/91							20.44	0.00	24
ļ.	09/12/91	ND ND	ND DIA	ND ND	ND ND	ND ND	 :::::::::::::::::::::::::::::::::	20.82	0.00	24
į:	01/23/92 04/13/92	ND ND	DA DA	ND	ND:	ND		20.92	0.00	24
į	08/03/92	ND ND	ND ND	ND ND	ND ND	ND ND	 ND	19.68 20.07	0.00 0.00	24 24
-11	,40,02	145	THU:			sager o Pásici (FIND)		2U.U/	0.00	::< *
265.30	03/07/90							20.74	n 24	~
200.00	03/07/90	1.2	0.7	 ND	 	ND		22.74	0.00	24
f	06/12/90	ND	ND	ND	ND	ND	acaman T.S. ——	21.98	0.00	24
ŀ	09/24/90	ND	ND	ND	ND	ND		21.88	0.00	24
·	12/20/90	ND	ND	ND	ND	ND		23.18	0.00	24
[.	03/27/91	ND	ND	ND	1.5	ND	- -	21.52	0.00	24
3	06/18/91 09/12/91	 ND	 ND	ND		 ND		21.90	0.00	24
8	01/23/92	ND .	ND ND	ND ND	ND ND	ND ND	- -	22.70 23.46	0.00 0.00	24 24
	04/13/92	ND	ND	ND	ND	ND		21.57	0.00	24 24
	08/03/92	ND	ND	ND	ND	ND	ND	22,67	0,00	24:

TECHNOLOGY

Table 1 (continued) HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA FORMER CHEVRON SERVICE STATION NO. 9-5607 5269 CROW CANYON ROAD, CASTRO VALLED CALIFORNIA

C-13 C-13 C-14 C-15	WELL ID/	7 22	1	5269 CROW C	ANYON ROAD,	CASTRO VALLE	Y, CALIFORNI		iri maaaaaa saas	v	Page 6
C-12 269.66 0307/80 180 140 183 160 1.400 1.400 0.914 0.		100000000000000000000000000000000000000	BENZENE	TOLLIENE	ETHYL-	YVIENES	TPH_G	ORGANIC	שדמ	SPT	WTE
C-12 269.66		DATE					10000000000000000000000000000000000000				1976 But 1995 1999
269.66 0307/90 1400 185 1600 1,400 14.72 0.00 254.74 0.00 254.75 0.00 25.72 0.00 0.00 25.72 0.	C-12		1				T				
DS0/09/00		03/07/90							14 92	0.00	254.74
09/12/90		Lancaca de Caración de Caració	230	140	33	180	1.400				
12/20/90		06/12/90	. 	decree recovers and a second of the second o	 Orbital Schools Control Schools Schools (1997) 				14.79	0.00	254.87
0.937796				4							
OS-16-91		4				The contract and contract to the contract of					
698/281			350	220	52	210	2,900	==		the second control of the second	
0.0139/2 110 81 7/9 22 560 - 17/11 0.00 255.88	,		59	12	4.5	A 5	350			1	
C-13 284.32 08.007/90 08.007/90 08.007/90 08.007/90 08.007/90 08.007/90 08.007/90 08.007/90 08.007/90 08.007/90 08.007/90 08.007/90 18.007/90 18.007/90 18.007/90 18.007/90 18.007/90 18.007/90 18.007/90 18.007/90 18.007/90 08.0			a processor and a second contract of the contr							decreases and the second of the	
C-13 284.32 3807/80 08128/80 12.8 080128/80 0812	Ì		apour control control control and the control control control and control cont		100	200				0,00	255.26
284.32 0507/90	<u> </u>	08/03/92	200	21	13	25	520	ND	15.83	0.00	253.83
			Ì	ļ		ļ				Į	
	284.32						autococcotocoutocus		11.18	0.00	273.14
									4070		~~~
1220/96 1.6 ND ND ND ND 10.16 0.06 274.68 06/18/91 7.64 0.00 276.68 06/18/91 ND ND ND ND ND ND ND 11.34 0.00 273.00 09/12/91 ND ND ND ND ND ND ND 11.34 0.00 273.00 09/12/91 ND ND ND ND ND ND 10.56 0.00 273.00 09/12/92 1 ND ND ND ND ND ND ND			🕏 ili ili ili ili ili ili ili ili ili il						CONTROL CONTROL CO	de antigen and a service and a service of	
003/27/91											
O6/18/91			25 150 151 1 20 100 <u>100 1</u> 00			\$ 188 80 80 80 80 80 80 80 80 80 80 80 80 8	100000000000000000000000000000000000000				
O71/29/92		term and advantage accounts							Larra er e er		273.00
C-14 270.74 08/05/92 ND ND ND ND ND ND ND 10.96 0.00 273.82				ND	ND	ND.	ND				
C-14 270.74 270.74 03/07/90 0		kva vyva se seberovi si propostovom		AID	HD	HO	NO.		Every construction and a construction	terroren erroren bereit	
C-14 270.74 270.74 03/07/90 08/12/90 ND		Carrier Commission Com					d cocos se societares es estas	A Anna Carlos Construction (Construction)	F-9-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-		
270.74	C-14					1	,,	,,_			2.02
05/05/80		03/07/90							15 18	0.00	255.58
06/12/90			ND	ND	ND	NO.	ND	le e e e e e e e e e e e e e e e e e e			
12/20/90				ND	ND	ND	ND		13.42	0.00	257.32
05/27/91								<u> </u>	Programme to a 1 mars to 100 miles	*************	
Og/12/91									Contraction of the second		and the second second
D9/12/91					NU	1.3	NU		Contraction to a commercial to		
01/23/92		MANAGE PROGRESS STORY (CONTRACTOR)	ND	ND	ND	ND	ND		Published and accompanies		
C-15 246.15 246.15 03/07/90									Proceedings of the Park St.	A CONTRACTOR OF THE CONTRACTOR	246.10
C-15 246.15 03/07/90 ND 1.4 0.5 06/12/90 ND 1.5 ND ND ND ND ND 420 10.78 0.00 235.05 09/24/90 ND 1.5 ND ND ND 420 10.78 0.00 235.05 12/20/90 1.3 1.1 0.6 1.5 ND ND 15 06/18/91 ND 1.1 ND ND ND 15 06/18/91 ND 1.1 ND ND ND 290 10.83 0.00 235.32 06/18/91 ND 1.1 ND ND ND 320 10.83 0.00 235.32 06/18/91 ND 1.3 ND ND ND 320 10.83 0.00 235.32 06/18/91D ND 0.9 ND ND 320 10.83 0.00 235.32 06/18/91D ND 0.9 ND ND 320 10.83 0.00 235.32 06/18/91D ND 0.9 ND ND 320 10.83 0.00 235.32 06/18/91D ND 0.9 ND ND 320 10.83 0.00 235.32 06/18/91D ND 0.9 ND ND 320 10.83 0.00 235.32 06/18/91D ND 0.9 ND ND 320 10.83 0.00 235.32 06/18/91D ND 0.9 ND ND 320 10.83 0.00 235.32 06/18/91D ND 0.9 ND ND 0.0 0.0 235.35 01/23/92 ND 0.6 ND ND ND 0.0 ND 0.0 0.0 235.35 04/13/92 ND 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						.			
246.15 03/07/90	O 45	08/03/92	טא	ND	ND	ND	ND	ND	14.64	0.00	256.10
03/09/90 ND 1.4 0.5 0.6 410 — — — — — — — — — — — — — — — — — — —		00/07/00			-	·					ļ
06/12/90	240.15								11,10	0.00	235.05
09/24/90									40.70	0.00	005.07
12/20/90											
03/27/91								;			
06/18/91		03/27/91	4.6			Expression for the second contract of the cont		<u>-</u> _			
09/12/91 ND 0.9 ND ND 330*** 11.05 0.00 235.10 01/23/92 ND 0.6 ND ND 210 10.80 0.00 235.35 01/23/92D 1.2 0.8 ND ND 190 10.80 0.00 235.35 04/13/92 1.8 ND ND ND ND 430 9.58 0.00 236.57 08/03/92 ND 2.1 0.7 1.3 640 ND 11.21 0.00 234.94 08/03/92 ND ND ND ND ND ND ND 11.21 0.00 234.94 08/03/99 ND ND ND ND ND ND ND	-								10.83		
01/23/92 ND 0.66 ND ND 210 10.80 0.00 235.35 01/23/92D 1.2 0.8 ND ND ND 190 10.80 0.00 235.35 04/13/92 1.8 ND ND ND ND 430 9.58 0.00 236.57 08/03/92 ND 2.1 0.7 1.3 640 ND 11.21 0.00 234.94 05 0.00 02/03/90 ND											arrara arran arra
01/23/92D 1.2 0.8 ND ND 190 10.80 0.00 235.35 04/13/92 1.8 ND ND ND ND 430 9.58 0.00 236.57 08/03/92 ND 2.1 0.7 1.3 640 ND 11.21 0.00 234.94 05/03/90 ND ND ND ND ND ND ND N										NAMES OF TAXABLE PARTY.	
04/13/92 1.8										continues at the same	
C-16 246.69 03/07/90 18.50 0.00 234.94 C-16 03/09/90 ND										All and a section of the contract of	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
C-16 246.69 03/07/90 18.50 0.00 228.19 03/09/90 ND ND ND ND ND ND ND ND 11.42 0.00 235.27 06/12/90 ND ND ND ND ND ND ND ND ND 11.39 0.00 235.30 12/20/90 ND ND ND ND ND ND ND 11.57 0.00 235.30 12/20/90 ND ND ND ND ND 11.57 0.00 235.12 03/27/91 ND ND ND ND 1.3 ND 8.76 0.00 237.93 03/27/91D ND ND ND ND 1.2 ND 8.76 0.00 237.93 03/27/91D ND ND ND ND ND ND 11.18 0.00 235.51 09/12/91 ND ND ND ND ND ND ND 11.18 0.00 235.51 09/12/91 ND ND ND ND ND ND 11.95 0.00 234.74 01/23/92 ND ND ND ND ND ND ND 12.41 0.00 234.28 04/13/92 ND ND ND ND ND ND ND 10.69 0.00 236.00								ND	to recommend the second		
246.69 03/07/90 18.50 0.00 228.19 03/09/90 ND ND ND ND ND ND <td< td=""><td>C-16</td><td></td><td></td><td></td><td></td><td>,,,,</td><td></td><td></td><td>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</td><td>0.00</td><td>204104</td></td<>	C-16					,,,,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.00	204104
03/09/90 ND <		03/07/90							18.50	0.00	228.19
O6/12/90		the state of the second	ND	ND	ND	ND	ND	νίου δυραμορομορομού για μου			
09/24/90		06/12/90			ND				11.42	0.00	235.27
12/20/90					ND	ND	ND			0.00	235,30
03/27/91 D ND ND ND 1.2 ND 8.76 0.00 237.93 06/18/91 ND ND ND ND ND 11.18 0.00 235.51 09/12/91 ND ND ND ND ND 11.95 0.00 234.74 01/23/92 ND ND ND ND ND 12.41 0.00 234.28 04/13/92 ND ND ND ND ND 10.69 0.00 236.00				control of the second of the second	and the second second second						
06/18/91 ND ND ND ND 11:18 0.00 235:51 09/12/91 ND ND ND ND ND 11:95 0.00 234:74 01/23/92 ND ND ND ND ND ND 12:41 0.00 234:28 04/13/92 ND ND ND ND ND 10:69 0.00 236:00											
09/12/91 ND ND ND ND 11.95 0.00 234.74 01/23/92 ND ND ND ND ND 12.41 0.00 234.28 04/13/92 ND ND ND ND ND ND 10.69 0.00 236.00		the state of the s					1				
D1/23/92 ND ND ND ND ND 12.41 0.00 234.28 04/13/92 ND ND ND ND ND 10.69 0.00 236.00											
04/13/92 ND ND ND ND ND 10.69 0.00 236.00					PROPERTY CONTROL OF THE PROPERTY OF THE PROPER					Contract the contract to the contract of the c	
W^{*}											
		08/03/92	ND	ND	ND	ND	ND	ND	12.20	0.00	234.49



Table 1 (continued)

HISTORICAL GROUNDWATER ANALYTICAL RESULTS AND MONITORING DATA FORMER CHEVRON SERVICE STATION NO. 9-5607

			5269 CROW C	ANYON ROAD, C	CASTRO VALLEY	CALIFORNIA	4			Page 7
WELL ID/ ELEVATION (TOC)	DATE	BENZENE (ppb)	TOLUENE (ppb)	ETHYL— BENZENE (ppb)	XYLENES (ppb)	TPH-G (ppb)	ORGANIC LEAD (ppb)	DTW (feet)	SPT (feet)	WTE
RW	12/04/89	29,000	1,700	1,800	8,800	62,000				
274.52	03/07/90 06/12/90	 15.000	 2,000	 560	3,100	31,000		18:50 18:49	0,00 0.00	256.02 256.03
	09/24/90 12/20/90	 0.5	 ND	 ND	1.2	ND.				200.00
	03/27/91 06/18/91							==		
	09/12/91# 01/23/92#		- -							
	04/13/92# 08/03/92#		 	 	 	- - 	 	 	 	

Explanation

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

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

SP = Separate-phase petroleum hydrocarbons

DTW = Depth to water

SPT = Separate - phase hydrocarbon thickness

WTE = Water table elevation

TOC = Top of casing ppb = parts per billion

ND = Not detected at or above the minimum quantitation limit

-- = Not analyzed

D = Duplicate

* = Not sampled due to insufficient water in well

** = Well could not be located

*** = Typical gasoline chromatographic pattern not present

= Not sampled: Well adapted for onsite remediation system

= Groundwater elevation corrected assuming 0.8 specific gravity for gasoline

Sampling frequency:

Quarterly: C-1, C-3, C-4, C-6, C-8, C-10, C-10B,

C-11, C-12, C-15, and C-16.

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

Annually: C-2.

NOTE: See laboratory reports for minimum quantitation limits.

GARTAB1.WK1

ATTACHMENT A

LABORATORY REPORTS
AND

CHAIN-OF-CUSTODY MANIFESTS





Superior Precision Analytical, Inc.

P.O. Box 1545 • Martinez, California 94553 • (510) 229-1590 / fax (510) 229-0916

Groundwater Technology Inc. Project 02020-2887
Attn: James W. Grasty Reported 08/10/92

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
86367- 1	TB-LB	08/03/92	08/06/92 Water
86367- 2	RINSATE	08/03/92	08/06/92 Water
86367- 3	C-16	08/03/92	08/06/92 Water
86367- 4	C-14	08/03/92	08/06/92 Water
86367- 5	C-13	08/03/92	08/06/92 Water
86367- 6	C-11	08/03/92	08/07/92 Water
86367- 7	C-10B	08/03/92	08/06/92 Water
86367- 8	C-8	08/03/92	08/06/92 Water
86367- 9	C-10A	08/03/92	08/06/92 Water
86367-10	C-5	08/03/92	08/06/92 Water

RESULTS OF ANALYSIS

Laboratory Number:	86367- 1	86367- 2	86367- 3	86367- 4	86367- 5
Gasoline:)				
	ND<50	ND<50	ND<50	ND<50	ND<50
Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Toluene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Xylenes:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L
Laboratory Number:	86367- 6	86367- 7	86367- 8	86367- 9	86367-10
Gasoline:	ND<50	ND<50	ND<50	ND<50	ND<50
Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Toluene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Ethyl Benzene:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Xylenes:	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L



Superior Precision Analytical, Inc.

P.O. Box 1545 • Martinez, California 94553 • (510) 229-1590 / fax (510) 229-0916

Groundwater Technolog	y Inc.	Project 02020-2887
Attn: James W. Grasty		Reported 08/10/92

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
86367-11	C-15	08/03/92	08/06/92 Water
86367-12	C-12	08/03/92	08/06/92 Water
86367-13	C-1	08/03/92	08/07/92 Water
86367-14	C-3	08/03/92	08/06/92 Water
86367-15	C-6	08/03/92	08/07/92 Water

RESULTS OF ANALYSIS

Laboratory Number:	86367-11	86367-12	86367-13	86367-14	86367-15
Gasoline:	640	520	13000	220000	120000
Benzene:	ND<0.5	200	1300	1300	16000
Toluene:	2.1	21	470	2800	1100
Ethyl Benzene:	0.7	13	5 50	3100	2300
Xylenes:	1.3	25	1600	17000	15000
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

CERTIFICATE OF ANALYSIS

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 3 of 3 QA/QC INFORMATION SET: 86367

NA = ANALYSIS NOT REQUESTED

ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT

ug/L = parts per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Water: 5000ug/L

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Water: 50ug/L

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons: Minimum Quantitation Limit for Gasoline in Water: 50ug/L

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Water: 0.5ug/L

ANALYTE	SPIKE LEVEL	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	200 ng	86/86	0%	70-130
Benzene:	200 ng	87/86	. 1%	70-130
Toluene:	200 ng	92/91	1%	70-130
Ethyl Benzene:	200 ng	95/94	1%	70-130
Xylenes:	200 ng	99/98	1%	70-130

Richard Srna, Ph.D.

Manuffy Director for Laboratory Director



Superior Precision Analytical, Inc.

P.O. Box 1545 • Martinez, California 94553 • (510) 229-1590 / fax (510) 229-0916

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 86367

CLIENT: Groundwater Technology Inc.

CLIENT JOB NO.: 02020-2887

DATE RECEIVED: 08/03/92

DATE REPORTED: 08/11/92

DATE SAMPLED: 08/03/92

ANALYSIS FOR TOTAL ORGANIC LEAD by DHS METHOD (LUFT MANUAL)

LAB	Comple Table 151 and 1								
#	Sample Identification	Concentration (mg/L)							
	·								
3	C-16	ND<4							
4	C-14	ND<4							
5	C-13	ND<4							
6	C-11	ND<4							
7	C-10B	ND<4							
8	C-8	ND<4							
9	C-10A	ND < 4							
10	C-5	ND<4							
11	C-15	ND<4							
12	C-12	ND<4							
13	C-1	ND<4							
14	C-3	ND<4							
15	C-6	ND<4							

mg/L - parts per million (ppm)

Method Detection Limit for Organic Lead in Water: 4 mg/L

QAQC Summary: MS/MSD Average Recovery : 96%

Duplicate RPD : 13

Richard Srna, Ph.D.

Fax co	py of	Lab	Rep	ort	and	coc t	o Ch	evro	n C	onta:	ct: [) Y	es o			С	hai	n	が of-	Cus	tody-Record
Chevron U.: P.O. BOX San Ramon, (FAX (415)84	5004 CA 94583	Facility Address 5269 Crow Canyon								Chevron Contact (Name) CLint Rugers (Plione) 510-8428558 Laboratory Name Superior Analytical Laboratory Release Humber 7454550 Samples Collected by (Name) John McIntost Collection Date 8151192 Signature 24 A mental											
						T								es To Be			<u> </u>				NOTE:
Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Chara	Type G = Grab C = Composite D = Discrete		Sample Preservation	Icad (Yes or No.)	BTEX + TPH CAS (8020 + 8015)	TPH Diesed (8015)	Oil and Grease (5520)	Purgeable Holocarbons (8010)	Purgeable Arematica (8020)	Purgeable Organics (8240)				÷				DO NOT BILL TB-LB SAMPLES Remorks
TB-LB	1 %	2	W	G	150	o HCL	Ye		, 	┧──	ļ	 				7	 	<u> </u>	-	<u> </u>	0.00
Zissate	2	2	i		15/0		1	1		1						1		 			> NO ORG
2-16	3	3			152			1		· · · · · ·						-	7			 	- Lead
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