Chevron

Chevron U.S.A. Products Company
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P.O. Box 5004
San Ramon, CA 94583-0804

Site Assessment & Remediation Group
Phone (510) 842-9500

March 2, 1995

Ms. Amy Leech
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Service Station #9-0504
15900 Hesperian Boulevard, San Lorenzo, CA

Dear Ms. Leech:

Enclosed is the Quarterly Ground Water Sampling report dated January 27, 1995, prepared by our consultant Sierra Environmental Services (SES) for the above referenced site. As indicated in the report, ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and BTEX.

Dissolved concentrations of these constituents observed during the past quarter represent a deviation from historical results. Low concentrations of hydrocarbons were detected in samples collected from C-4, C-6, C-9, C-10, and C-11 while historically these wells have not contained concentrations above method detection limits. At this time the reason for this occurrence is unclear, however it may be related to cross contamination during the sample collection and handling process. After reviewing field procedures and data with SES, no determination could be made regarding whether cross contamination is responsible for the concentrations observed in the wells mentioned above.

To determine the validity of the current data set, we propose to continue monitoring and sampling all wells at this site on a quarterly basis. We will carefully evaluate data gathered during the next quarter to determine possible trends. We anticipate that concentrations will return to historic levels during the next quarter.

The ground water extraction system is temporarily off due to a small leak in the system and carbon breakthrough. As we recently discussed, we would like to obtain results from the next quarterly sampling event to assist in determining whether restarting the system is required.

Also enclosed are copies of aerial photographs from 1959 and 1973 indicating the location of former facilities at the site and surrounding sites. We are currently reviewing historical records to determine who the operators and/or owners of the service station properties and facilities were.

If you have any questions or comments, please do not hesitate to contact me at (510) 842-8134.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY

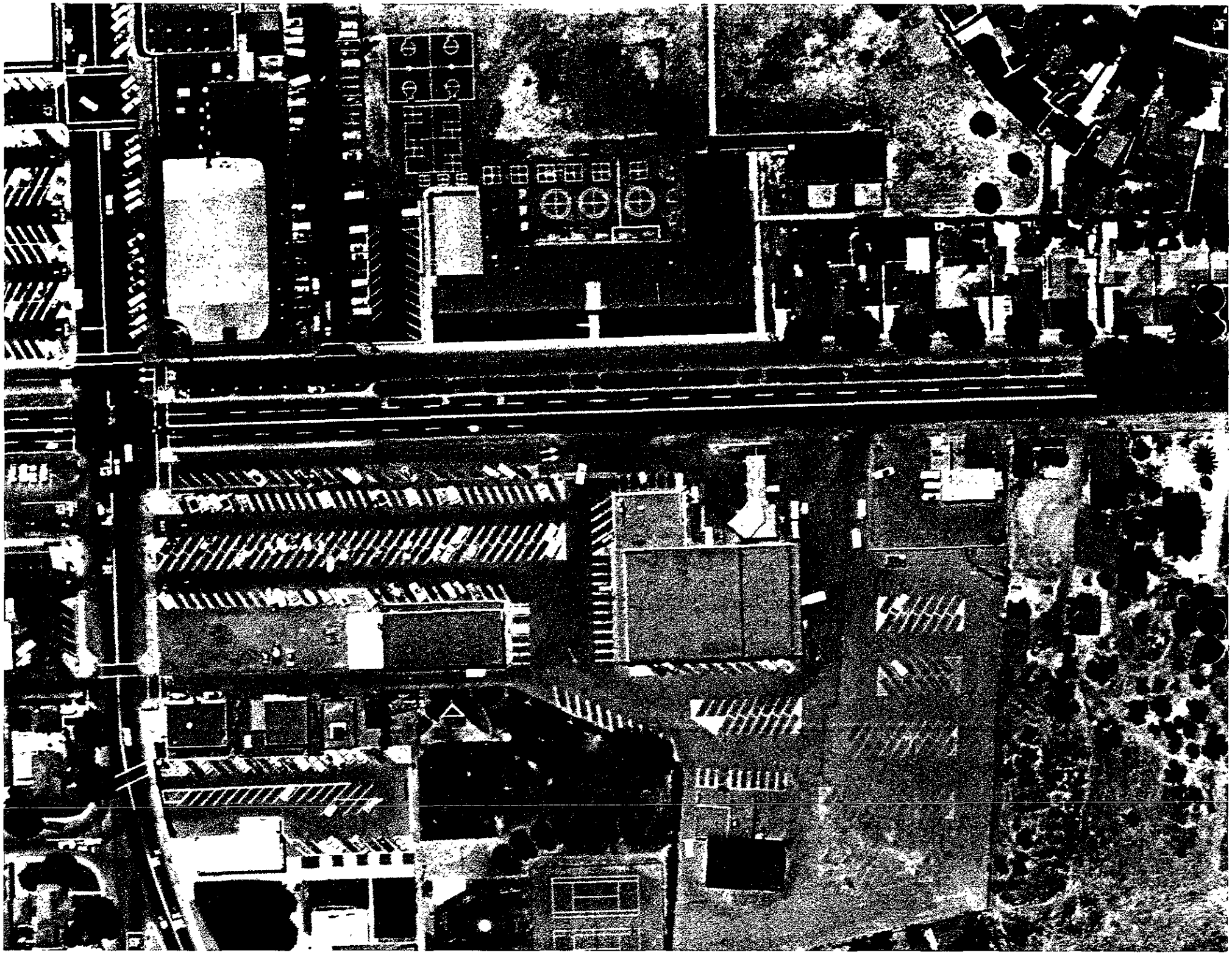
Mark A. Miller
Site Assessment and Remediation Engineer

Enclosure

cc: Mr. S.A. Willer
Ms. B.C. Owen

Mr. Ron Sykora
David E. Bohannon Organization
60 Hillsdale Mall
San Mateo, CA 94403

File: 9-0504 QM10



Reviewed by Aheech on 3/8/95

SIERRA
Environmental Services

January 27, 1995

Mark Miller
Chevron USA Products Company
P.O. Box 5004
San Ramon, CA 94583

Re: Chevron Service Station #9-0504
15900 Hesperian Boulevard
San Lorenzo, California
SES Project #1-391-04

Dear Mr. Miller:

This report presents the results of the quarterly ground water sampling for the fourth quarter of 1994 at Chevron Service Station #9-0504, located at 15900 Hesperian Boulevard in San Lorenzo, California. Nine wells, C-3 through C-11, were sampled (Figure 1).

On December 14, 1994, SES personnel visited the site. Water level measurements were collected in all site wells and all wells were checked for the presence of free-phase hydrocarbons. Free-phase hydrocarbons were not present in any of the site wells. Water level data are shown in Table 1 and ground water elevation contours are included on Figure 1.

The ground water samples were collected on December 14, 1994, in accordance with SES Standard Operating Procedure - Ground Water Sampling (attached). The field water sampling forms for this event are included. All analyses were performed by Superior Precision Analytical, Inc. of Martinez, California. Analytic results for ground water are presented in Table 1. The chain of custody document and laboratory analytic reports are attached. SES is not responsible for laboratory omissions or errors.

Thank you for allowing us to provide services to Chevron. Please call if you have any questions.

REGISTERED PROFESSIONAL ENGINEER
CHRIS J. BRAMER
C 048846
CIVIL
STATE OF CALIFORNIA

Sincerely,
Sierra Environmental Services

Richard E. (Rick) Hilton
Staff Environmental Scientist

Chris J. Bramer
Professional Engineer #C48846

REH/CJB/lmo
39104QM.DE4

Attachments: Figure
Tables
SES Standard Operating Procedure
Field Water Sampling Forms
Chain of Custody Document and Laboratory Analytic Reports

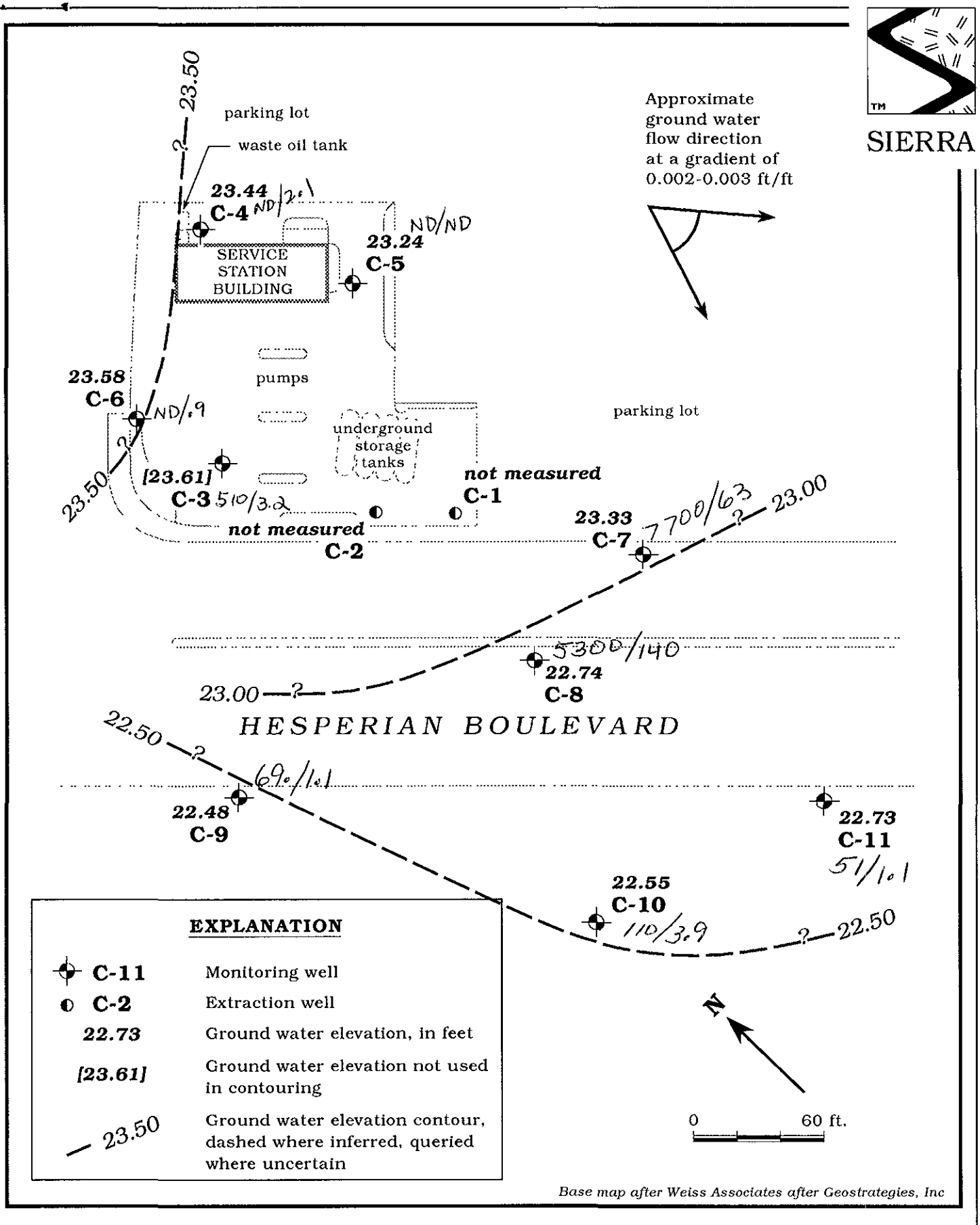


Figure 1. Monitoring Well Locations and Ground Water Elevation Contour Map – December 14, 1994 – Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California

1-391-04 1/30/95

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-0504, 115900 Hesperian Boulevard, San Lorenzo, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X	C	HVOCs
						<----------ppb---------->						
C-1	6/6/89	---	---	0	8015/8020	5,100	250	170	200	990	---	---
	12/8/89	13.14	---	0.01	---	---	---	---	---	---	---	---
33.93[2]	9/7/90	14.04	19.91[1]	0.03	---	---	---	---	---	---	---	---
	12/20/90	13.87	20.07[1]	0.01	---	---	---	---	---	---	---	---
	3/15/91	11.40	22.53	0	8015/8020	37,000	220	53	53	1,900	---	---
	6/28/91	12.25	21.68	0	8015/8020	3,300	110	6.2	6.2	350	---	---
	9/26/91	14.02	19.91	0	8015/8020	3,200	220	6.9	6.9	710	---	---
	1/27/92	12.63	21.30	0	8015/8020	330	20	0.6	0.6	48	---	---
	4/20/92	10.43	23.50	0	8015/8020	2,700	130	3.4	3.4	690	---	---
	7/17/92	12.61	21.32	0	8015/8020	490	17	<0.5	<0.5	52	---	---
	1/20/93	9.42	24.51	0	---	---	---	---	---	---	---	---
	7/28/93	10.48	23.45	0	---	---	---	---	---	---	---	---
32.80	10/27/93	11.32	21.48	0	8015/8020	240	3.6	<0.5	11	23	---	---
	3/31/94	9.45	23.35	0	8015/8020	530	23	1.2	10	120	---	---
	6/8/94	9.93	22.87	0	8015/8020	990	15	1.5	42	89	---	---
	9/29/94[4]	---	---	---	---	---	---	---	---	---	---	---
	11/9/94[4]	---	---	---	---	---	---	---	---	---	---	---
	12/14/94[4]	---	---	---	---	---	---	---	---	---	---	---
C-2	6/6/89	---	---	0	8015/8020	130,000	14,000	28,000	3,400	24,000	---	---
	12/8/89	13.44	---	0.15	---	---	---	---	---	---	---	---
34.21[2]	9/7/90	14.28	20.01[1]	0.10	---	---	---	---	---	---	---	---
	12/20/90	14.06	20.16[1]	0.01	---	---	---	---	---	---	---	---
	3/15/91	11.59	22.63[1]	0.01	8015/8020	1,200,000	4,700	16,000	13,000	140,000	---	---
	6/28/91	12.55	21.66	0	8015/8020	150,000	3,500	4,200	2,100	16,000	---	---
	9/26/91	14.20	20.01	0	8015/8020	4,900	220	290	130	880	---	---
	1/27/92	12.46	21.75	0	8015/8020	8,200	510	590	230	1,300	---	---
	4/20/92	10.24	23.97	0	8015/8020	19,000	1,700	1,700	930	4,700	---	---
	7/17/92	12.81	21.40	0	8015/8020	20,000	950	950	1,300	4,700	---	---
	1/20/93	8.79	25.42	0	8015/8020	---	---	---	---	---	---	---
33.46	10/27/93	12.36	21.10	0	8015/8020	1,600	63	5.8	5.9	190	---	---
	3/31/94	9.62	23.84	0	8015/8020	12,000	300	96	510	2,700	---	---
	6/8/94	9.98	23.48	0	8015/8020	8,700	140	35	250	1,500	---	---
	9/28/94[4]	---	---	---	---	---	---	---	---	---	---	---
	11/9/94[4]	---	---	---	---	---	---	---	---	---	---	---
	12/14/94[4]	---	---	---	---	---	---	---	---	---	---	---

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-0504, 115900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X	C	HVOCs
						<----------ppb---------->						
C-3	6/6/89	---	---	0	8015/8020	2,600	63	20	390	370	---	---
	12/8/89	---	---	0	8015/8020	680	6.0	1.0	31	58	---	---
35.46[2]	9/7/90	15.31	20.15	0	8015/8020	490	6.0	<0.5	41	120	---	---
(d)	9/7/90	---	---	0	8015/8020	460	6.0	<0.5	40	110	---	---
	12/20/90	15.17	20.29	0	8015/8020	100	5.0	<0.5	27	130	---	---
	3/6/91	13.27	22.19	0	8015/8020	1,300	7.0	<0.5	75	250	---	---
(d)	3/6/91	---	---	0	8015/8020	1,400	8.0	<0.5	76	250	---	---
	6/28/91	13.67	21.79	0	8015/8020	770	6.0	<0.5	81	71	---	---
(d)	6/28/91	---	---	0	8015/8020	990	5.5	<0.5	86	75	---	---
	9/26/91	15.32	20.14	0	8015/8020	1,400	7.9	<0.5	98	340	---	---
	1/27/92	13.91	21.55	0	8015/8020	150	0.7	<0.5	12	12	---	---
	4/20/92	11.66	23.80	0	8015/8020	1,600	9.3	1.0	190	370	---	---
	7/17/92	13.96	21.50	0	8015/8020	460	18	<0.5	20	52	---	---
	10/29/92	15.51	19.95	0	8015/8020	520	2.4	1.0	30	79	---	---
	1/20/93	10.99	24.47	0	8015/8020	4,200	7.4	<0.5	140	380	---	---
	5/3/93	10.97	24.49	0	8015/8020	1,300	6.8	3.2	71	170	---	---
	7/28/93	12.41	23.05	0	8015/8020	220	1.4	<0.5	17	39	---	---
	10/27/93	13.37	21.78	0	8015/8020	1,800	5.5	0.7	68	290	---	---
	3/31/94	11.56[3]	23.90	0	8015/8020	310	1.2	<0.5	19	54	---	---
	6/8/94	12.07	23.39	0	8015/8020	300	2.7	1.6	19	48	---	---
	9/29/94[5]	13.84	21.62	0	8015/8020	2,500	<25	<25	<25	220	---	---
	11/9/94[6]	---	---	0	8015/8020	170	<0.5	0.8	3.3	16	---	---
	12/14/94	**11.85**	**23.61**	**0**	**8015/8020**	**510**	**3.2**	**1.4**	**28**	**60**	**---**	**---**
C-4	6/6/89	---	---	0	8015/8020	<50	<0.05	<1.0	<1.0	<3.0	---	---
	12/8/89	---	---	0	8015/8020	<500	<0.5	<0.5	<0.5	<0.5	---	---
35.78[2]	9/7/90	15.58	20.20	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	12/20/90	15.42	20.36	0	8015/8020	170	1.0	<0.5	<0.5	4.0	---	---
	3/6/91	13.54	22.24	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	6/28/91	13.93	21.85	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.8	---	---
	9/26/91	15.64	20.14	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	9/26/91	15.64	---	0	8015/8020	<50	<0.5	<0.5	<0.5	---	---	---
	1/27/92	13.96	21.82	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	4/20/92	11.71	24.07	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	7/17/92	14.19	21.59	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/29/92	15.72	20.06	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	1/20/93	11.17	24.61	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	5/3/93	10.94	24.84	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-0504, 115900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X	C	HVOCs
						<----------ppb---------->						
C-4 (cont)	7/28/93	12.40	23.38	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
35.23	10/27/93	13.32	21.91	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
	3/31/94[4]	---	---	---	---	---	---	---	---	---	---	---
	6/8/94	11.92	23.31	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	9/29/94[5]	13.76	21.47	0	8015/8020/8010	<2,500	<25	<25	<25	<25	<0.5	ND[7]
	11/9/94[6]	---	---	0	8015/8020/8010	<50	<0.5	<0.5	<0.5	<0.5	<0.5	ND[7]
	12/14/94	**11.79**	**23.44**	**0**	**8015/8020/8010**	**<50**	**2.1**	**3.0**	**1.9**	**3.7**	**1.8**	**ND[7]**
C-5	6/6/89	---	---	0	8015/8020	<50	<0.05	<0.05	<1.0	<3.0	---	---
	12/8/89	---	---	0	8015/8020	<500	<0.5	<0.5	<0.5	<0.5	---	---
35.31[2]	9/7/90	15.10	20.21	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	12/20/90	14.94	20.37	0	8015/8020	80	<0.5	<0.5	<0.5	<0.5	---	---
	3/6/91	13.06	22.25	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	6/28/91	13.46	21.85	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	9/26/91	15.14	20.17	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	1/27/92	13.31	22.00	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	4/20/92	11.10	24.21	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	7/17/92	13.73	21.58	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/29/92	15.20	20.11	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	1/20/93	10.72	24.59	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	5/3/93	10.43	24.88	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
	7/28/93	11.81	23.50	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
34.61	10/27/93	12.68	21.93	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
	3/31/94	11.00[3]	23.61	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	6/8/94	11.26	23.35	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	9/29/94[5]	13.10	21.51	0	8015/8020	<2,500	<25	<25	<25	<25	---	---
	11/9/94[6]	---	---	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	12/14/94	**11.37**	**23.24**	**0**	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**---**	**---**
C-6	12/8/89	---	---	0	8015/8020	<500	<0.5	<0.5	<0.5	<0.5	---	---
36.89[2]	9/7/90	16.83	20.06	0	8015/8020	57	<0.5	<0.5	0.6	4.0	---	---
	12/20/90	16.66	20.23	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	3/6/91	14.80	22.09	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	6/28/91	15.16	21.73	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	9/26/91	16.82	20.07	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	1/27/92	15.44	21.45	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	4/20/92	13.17	23.72	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	7/17/92	15.44	21.45	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-0504, 115900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X	C	HVOCs
						<----------ppb---------->						
C-6	10/29/92	16.98	19.91	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
(cont)	1/20/93	12.47	24.42	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	5/3/93	---	---	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	7/28/93	13.86	23.03	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
36.57	10/27/93	14.85	21.72	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
	3/31/94	13.00	23.57	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	6/8/94	13.44	23.13	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	9/29/94[5]	14.88	21.69	0	8015/8020	<2,500	<25	<25	<25	<25	---	---
	11/9/94[6]	---	---	0	8015/8020	<50	<0.5	0.5	<0.5	<0.5	---	---
	12/14/94	**12.99**	**23.58**	**0**	**8015/8020**	**<50**	**0.9**	**1.5**	**1.3**	**2.6**	**---**	**---**
C-7	12/8/89	---	---	0	8015/8020	1,700	32	12	17	150	---	---
32.75[2]	9/7/90	13.02	19.73	0	8015/8020	880	84	23	46	180	---	---
	12/20/90	12.28	20.47	0	8015/8020	560	24	3.0	19	21	---	---
	3/6/91	16.92	15.83	0	8015/8020	240	25	2.0	4.0	26	---	---
	6/28/91	11.31	21.44	0	8015/8020	2,400	130	13	82	220	---	---
	9/26/91	12.28	20.47	0	8015/8020	8,100	47	35	350	1,200	---	---
	1/27/92	11.43	21.32	0	8015/8020	12,000	170	40	420	830	---	---
	4/20/92	9.28	23.47	0	8015/8020	1,200	80	11	90	110	---	---
	7/17/92	11.49	21.26	0	8015/8020	2,400	20	7.4	95	200	---	---
	10/29/92	13.05	19.70	0	8015/8020	69	1.3	<0.5	3.8	7.2	---	---
	1/20/93	8.69	24.06	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	5/3/93	8.68	24.07	0	8015/8020	2,400	29	8.6	140	210	---	---
	7/28/93	9.99	22.76	0	8015/8020	3,600	38	16	290	920	---	---
32.32	10/27/93	10.72	21.60	0	8015/8020	22,000	23	26	990	2,600	---	---
	3/31/94	9.11	23.21	0	8015/8020	2,300	45	7.0	130	190	---	---
	6/8/94	9.22	23.10	0	8015/8020	6,900	46	11	380	820	---	---
	9/29/94	11.32	21.00	0	8015/8020	11,000	10	11	620	810	---	---
	11/9/94[6]	---	---	0	8015/8020	7,800	33	18	570	1,100	---	---
	12/14/94	**8.99**	**23.33**	**0**	**8015/8020**	**7,700**	**63**	**16**	**140**	**1,200**	**---**	**---**
C-8	12/8/89	---	---	0	8015/8020	4,800	62	11	95	180	---	---
33.82[2]	9/7/90	14.32	19.50	0	8015/8020	3,700	170	31	180	270	---	---
	12/20/90	14.20	19.61	0	8015/8020	3,900	120	20	130	180	---	---
	3/6/91	14.80	19.02	0	8015/8020	1,200	45	6.0	34	57	---	---
	6/28/91	12.65	21.17	0	8015/8020	6,900	180	46	340	640	---	---
	9/26/91	14.29	19.53	0	8015/8020	1,400	66	9.8	38	40	---	---
	1/27/92	12.60	21.22	0	8015/8020	3,600	100	26	170	260	---	---

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-0504, 115900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X	C	HVOCs
						<----------ppb---------->						
C-8	4/20/92	10.36	23.46	0	8015/8020	2,600	110	32	180	260	---	---
(cont)	7/17/92	12.88	20.94	0	8015/8020	1,100	34	5.9	35	52	---	---
	10/29/92	14.39	19.43	0	8015/8020	820	29	4.8	23	27	---	---
	1/20/93	10.02	23.80	0	8015/8020	6,000	81	22	200	310	---	---
	5/3/93	9.75	24.07	0	8015/8020	11,000	75	96	880	2,600	---	---
	7/28/93	11.14	22.68	0	8015/8020	2,800	60	13	92	150	---	---
33.25	10/27/93	12.01	21.24	0	8015/8020	2,700	49	17	60	90	---	---
	3/31/94	10.27	22.98	0	8015/8020	190	8.6	1.7	9.1	11	---	---
	6/8/94	10.56	22.69	0	8015/8020	2,800	52	110	78	110	---	---
	9/29/94	12.42	20.83	0	8015/8020	3,700	120	20	120	85	---	---
	11/9/94[6]	---	---	0	8015/8020	3,200	82	44	160	110	---	---
	12/14/94	**10.51**	**22.74**	**0**	**8015/8020**	**5,300**	**140**	**30**	**170**	**310**	---	---
C-9/												
33.43[2]	9/7/90	14.06	19.37	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	12/20/90	14.03	19.40	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	3/6/91	12.12	21.31	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	6/28/91	12.41	21.02	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	9/26/91	14.02	19.41	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	1/27/92	12.53	20.90	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	4/20/92	10.22	23.21	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	7/17/92	12.64	20.79	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/29/92	14.20	19.23	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	1/20/93	9.72	23.71	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	5/3/93	9.55	23.66	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
	7/28/93	10.98	22.45	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
32.97	10/27/93	11.98	20.99	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
	3/31/94	10.17	22.80	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	6/8/94	10.53	22.44	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	9/29/94[5]	12.40	20.57	0	8015/8020	<5,000	<50	<50	<50	<50	---	---
	11/9/94[6]	---	---	0	8015/8020	<50	<0.5	<0.5	<0.5	0.7	---	---
	12/14/94	**10.49**	**22.48**	**0**	**8015/8020**	**69**	**1.1**	**2.2**	**3.4**	**7.8**	---	---
C-10/												
31.63[2]	9/7/90	12.49	19.14	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	12/20/90	12.36	19.27	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	3/6/91	10.45	21.18	0	8015/8020	<50	<0.5	0.8	<0.5	0.8	---	---
	6/28/91	10.74	20.69	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-0504, 115900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X	C	HVOCs
						<----------ppb---------->						
C-10	9/26/91	12.42	19.21	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
(cont)	1/27/92	10.84	20.79	0	8015/8020	<50	<0.5	1.3	<0.5	<0.5	---	---
(d)	1/27/92	---	---	0	8015/8020	<50	<0.5	1.3	<0.5	<0.5	---	---
	4/20/92	8.55	23.06	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	7/17/92	11.02	20.61	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/29/92	12.40	19.23	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	1/20/93	8.14	23.49	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	5/3/93	7.92	23.71	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
	7/28/93	9.36	22.27	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
31.16	10/27/93	10.30	20.86	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
	3/31/94	8.45	22.71	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	6/8/94	8.85	22.31	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	9/29/94[5]	10.70	20.46	0	8015/8020	<5,000	<50	<50	<50	<50	---	---
	11/9/94[6]	---	---	0	8015/8020	<50	<0.5	1.4	0.8	1.2	---	---
	12/14/94	**8.61**	**22.55**	**0**	**8015/8020**	**110**	**3.9**	**5.4**	**4.3**	**11**	**---**	**---**
C-11/												
31.58[2]	9/7/90	12.22	19.36	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	12/20/90	12.08	19.50	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	3/6/91	16.15	15.43	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	6/28/91	10.52	21.06	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	9/26/91	12.20	19.38	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	1/27/92	10.73	20.85	0	8015/8020	<50	<0.5	0.8	<0.5	<0.5	---	---
	4/20/92	8.56	23.02	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	7/17/92	10.78	20.80	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/29/92	12.07	19.51	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	1/20/93	7.97	21.61	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	5/3/93	7.95	23.63	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
	7/28/93	9.31	22.27	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
31.23	10/27/93	10.17	21.06	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
	3/31/94	8.43	22.80	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	6/8/94	8.76	22.47	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	9/29/94	10.54	20.69	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	11/9/94	---	---	0	8015/8020	<50	<0.5	0.6	<0.5	0.7	---	---
	12/14/94	**8.50**	**22.73**	**0**	**8015/8020**	**51**	**1.1**	**1.7**	**1.6**	**4.0**	**---**	**---**
Trip Blank	9/7/90	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	12/20/90	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-0504, 115900 Hesperian Boulevard, San Lorenzo, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	Analytic Method	TPPH(G)	B	T	E	X	C	HVOCs
						<----------ppb---------->						
Trip Blank (cont)	3/6/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	6/28/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	9/26/91	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	1/27/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	4/20/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	7/17/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/29/92	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	1/20/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	5/3/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
	7/28/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
	10/27/93	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	---	---
	3/31/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	6/8/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	11/9/94	---	---	---	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	---	---
	12/14/94	---	---	---	**8015/8020**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	---	---
DTSC MCLs	---	---	---	---	---	NE	1.0	100†	680	1,750	---	---

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Table 1. Water Level Data and Ground Water Analytic Results - Chevron Service Station #9-0504, 115900 Hesperian Boulevard, San Lorenzo, California (continued)

EXPLANATION:

DTW = Depth to water
TOC = Top of casing elevation
GWE = Ground water elevation
msl = Measurements referenced relative to mean sea level
TPPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
C = Chloroform
HVOC = Halogenated Volatile Organic Compounds
DTSC = Department of Toxic Substances Control
MCLs = Maximum Contaminant Level
NE = Not established
ppb = Parts per billion
--- = Not available/not applicable

ANALYTIC METHODS:

8015 = EPA Method 8015/5030 for TPPH(G)
8020 = EPA Method 8020 for BTEX
8010 = EPA Method 8010 for HVOCs

NOTES:

Analytic results and ground water elevation data prior to September 29, 1994 were compiled from the Second Quarter 1994 Ground Water Monitoring Report prepared for Chevron by Weiss Associates, July 8, 1994.

Data from June 6, 1989 to July 28, 1993 presented in Groundwater Technology, Inc., September 21, 1993 report.

† DTSC recommended action level for drinking water; MCL not established

1 Ground Water Elevation = [(Top-of-casing elevation - depth to water) + (0.8 x hydrocarbon thickness)]. The assumed specific gravity for free-phase hydrocarbons is 0.8.
2 Elevation of well box.
3 Depth to water measured from top of well vault.
4 Well inaccessible due to down-hole extraction equipment.
5 Detection limit raised due to foaming sample.
6 All site monitoring wells were re-sampled due to an excessive number of foaming samples on the 9/29/94 event.
7 Other HVOCs were not detected at detection limits of 0.5 - 1.0 ppb.

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SES STANDARD OPERATING PROCEDURE
GROUND WATER SAMPLING

The following describes sampling procedures used by SES field personnel to collect and handle ground water samples. Before samples are collected, careful consideration is given to the type of analysis to be performed so that precautions are taken to prevent loss of volatile components or contamination of the sample, and to preserve the sample for subsequent analysis. Wells will be sampled no less than 24 hours after well development. Collection methods specific to ground water sampling are presented below.

Prior to sampling, each well is checked for the presence of free-phase hydrocarbons using an MMC flexi-dip interface probe. Product thickness (measured to the nearest 0.01 foot) is noted on the sampling form. Water level measurements are also made using either a water level meter or the interface probe. The water level measurements are also noted on the sampling form.

Prior to sampling, each well is purged of a minimum of three well casing volumes of water using a steam-cleaned PVC bailer, or a pre-cleaned pump. Temperature, pH and electrical conductivity are measured at least three times during purging. Purging is continued until these parameters have stabilized (i.e., changes in temperature, pH or conductivity do not exceed ±0.5°F, 0.1 or 5%, respectively).

The purge water is taken to Chevron's Richmond Refinery for disposal.

Ground water samples are collected from the wells with Chevron designated disposable bailers. The water samples are decanted into the appropriate container for the analysis to be performed. Pre-preserved sample containers may be used or the analytic laboratory may add preservative to the sample upon arrival. Duplicate samples are collected from each well as a back-up sample and/or to provide quality control. The samples are labeled to include the project number, sample ID, date, preservative, and the field person's initials. The samples are placed in polyethylene bags and in an ice chest (maintained at 4°C) for transport under chain of custody to the laboratory.

The chain of custody form includes the project number, analysis requested, sample ID, date analysis and the SES field person's name. The form is signed and dated (with the transfer time) by each person who yields or receives the samples beginning with the field personnel and ending with the laboratory personnel.

A trip blank accompanies each sampling set, or 5% trip blanks are included for sets of greater than 20 samples. The trip blank is analyzed for some or all of the same compounds as the ground water samples.

Trip Blank

SIERRA

WATER SAMPLING DATA

Job Name 15900 Hesperian Blvd Job Number 1-391-04 Sampler J.L.

Well Number TB-LB Date 12/14/94 Well Diameter

Sample Point Location/Description Well Depth (spec.)

Depth to Water (static) Well Depth (sounded)

Initial height of water in casing Volume gallons

Volume to be purged gallons

Purged With Sampled With

Pumped or Bailed Dry? ___Yes ___No Time ____ After ____ gallons

Water level at sampling Percent Recovery

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm

SAMPLES COLLECTED Time ____ Total volume purged (gal.)

Water color Odor

Description of sediments or material in sample:

Additional Comments:

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
TBLB	2	1	—	HCl	Y	SPA	8/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other ____; 6 = Other ____

UNSAMPLED DUE to DOWN HOLE EXTRACTION EQUIPMENT

SIERRA

WATER SAMPLING DATA

Job Name 15900 HESPERIAN Blvd. Job Number 1-391-04 Sampler J.C.

Well Number C-1 Date 12/14/94 Well Diameter 2"

Sample Point Location/Description ON SITE South East of SERVICE STA. BLDG. Well Depth (spec.) _____

Depth to Water (static) _____ Well Depth (sounded) _____

Initial height of water in casing ____ Volume _____ gallons

Volume to be purged _____ gallons

Purged With Sub pump Sampled With DISPOSABLE BAILERS

Pumped or Bailed Dry? ___ Yes ___ No Time _____ After _____ gallons

Water level at sampling _____ Percent Recovery _____

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F/°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm

SAMPLES COLLECTED Time _____ Total volume purged (gal.) _____

Water color _____ Odor _____

Description of sediments or material in sample: _____

Additional Comments: UNSAMPLED DUE to DOWN HOLE EXTRACTION EQUIPMENT

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
C-1	2	1	—	HCl	Y	SQA	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other _____; 6 = Other _____

UNSAMPLED DUE to DOWN HOLE EXTRACTION EQUIPMENT

SIERRA

WATER SAMPLING DATA

Job Name 15900 HESPERIAN Blvd. Job Number 1-391-04 Sampler J.C.

Well Number C-2 Date 12/14/94 Well Diameter 2"

Sample Point Location/Description ON SITE North of HESPERIAN Blvd Well Depth (spec.) _____

Depth to Water (static) _____ Well Depth (sounded) _____

Initial height of water in casing ____ Volume _____ gallons

Volume to be purged _____ gallons

Purged With Sub pump Sampled With DISPOSABLE BAILERS

Pumped or Bailed Dry? ___ Yes ___ No Time _____ After _____ gallons

Water level at sampling _____ Percent Recovery _____

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F/C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm

SAMPLES COLLECTED Time _____ Total volume purged (gal.) _____

Water color _____ Odor _____

Description of sediments or material in sample: _____

Additional Comments: UNSAMPLED DUE to down HOLE EXTRACTION.

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
C-2	2	1	—	HCl	Y	SPA	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other _____; 6 = Other _____

SIERRA

WATER SAMPLING DATA

Job Name 15900 Hesperian Blvd. Job Number 1-391-04 Sampler J.C.

Well Number C-3 Date 12/14/94 Well Diameter 3"

Sample Point Location/Description ON site South of service sta. Bldg Well Depth (spec.) ——

Depth to Water (static) 11.85 Well Depth (sounded) 19.25

Initial height of water in casing 7.4 Volume 2.71 gallons

Volume to be purged 8 gallons

Purged With Sub pump Sampled With DISPOSABLE BAILERS

Pumped or Bailed Dry? ___ Yes X No Time ____ After ____ gallons

Water level at sampling ____ Percent Recovery ____

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
3:57	3:58	2	2	7.9	65	1580	
	4:00	3	5	7.9	65	1660	
	4:02	3	8	7.8	64	1625	

SAMPLES COLLECTED Time 4:11 Total volume purged (gal.) 8

Water color Slight cloud Odor Hydrocarbon

Description of sediments or material in sample: Some Sed.

Additional Comments: NO PRESERV.

NOTE: WELL NEEDS IMMEDIATE, WELL LID REPAIR.

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
C-3	2	1	—	HCl	Y	SPA	8/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other ____; 6 = Other ____

SIERRA

WATER SAMPLING DATA

Job Name 15900 HESPERIAN Blvd. Job Number 1-391-04 Sampler J.C.

Well Number C-4 Date 12/14/94 Well Diameter 3"

Sample Point Location/Description ON SITE behind SERVICE STA. Bldg. NORTH END Well Depth (spec.) —

Depth to Water (static) 11.79 Well Depth (sounded) 19.75

Initial height of water in casing 7.96 Volume 2.92 gallons

Volume to be purged 9 gallons

Purged With SUB pump Sampled With DISPOSABLE BAILER

Pumped or Bailed Dry? ___ Yes X No Time ___ After ___ gallons

Water level at sampling ___ Percent Recovery ___

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
~~V_2" casing = 0.163 gal/ft~~
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F/°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
1:40	1:42	3	3	7.8	70	1600	
	1:44	3	6	7.7	68	1660	
	1:46	3	9	7.6	66	1680	

SAMPLES COLLECTED Time 1:57 Total volume purged (gal.) 9

Water color CLEAR Odor NONE

Description of sediments or material in sample: NONE

Additional Comments:

NOTE: SEE FIELD REPORT FOR REFERENCE, too.

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
C-4	2	1	—	HCl	Y	SPA	BTEX 8010
↓	↓	↓	↓	↓	↓	↓	↓

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other ___; 6 = Other ___

SIERRA

WATER SAMPLING DATA

Job Name 15900 HESPERIAN Blvd. Job Number 1-391-04 Sampler J.C.

Well Number C-5 Date 12/14/94 Well Diameter 3"

Sample Point Location/Description ON SITE ON SIDE of SERVICE STA. Bldg SOUTH END Well Depth (spec.) ——

Depth to Water (static) 11.37 Well Depth (sounded) 18.65

Initial height of water in casing 7.28 Volume 2.6 gallons

Volume to be purged 8 gallons

Purged With SUB PUMP Sampled With DISPOSABLE BAILERS

Pumped or Bailed Dry? ___ Yes X No Time ____ After ____ gallons

Water level at sampling ____ Percent Recovery ____

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
2:20	2:21	2	2	7.9	68	1480	
	2:23	3	5	7.9	68	1510	
	2:25	3	8	7.8	67	1530	

SAMPLES COLLECTED Time 2:34 Total volume purged (gal.) 8

Water color CLEAR Odor NONE

Description of sediments or material in sample: SOME SED.

Additional Comments: NOTE! SEE Field Report for REFERENCE.

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
C-5	2	1	—	HCl	Y	SPA	8/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other ____; 6 = Other ____

SIERRA

WATER SAMPLING DATA

Job Name 15900 HESPERIAN Blvd. Job Number 1-391-04 Sampler J.C.

Well Number C-6 Date 12/14/94 Well Diameter 2"

Sample Point Location/Description ON SITE NEAR AIR & WATER Well Depth (spec.) 25

Depth to Water (static) 12.99 Well Depth (sounded) —

Initial height of water in casing 12.01 Volume 1.95 gallons

Volume to be purged 6 gallons

Purged With Sub pump Sampled With DISPOSABLE BAILERS

Pumped or Bailed Dry? ___ Yes X No Time ___ After ___ gallons

Water level at sampling ___ Percent Recovery ___

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F/°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
2:55	2:56	2	2	7.9	66	1630	
	2:57	2	4	7.9	65	1670	
	2:58	2	6	7.8	64	1700	

SAMPLES COLLECTED Time 3:07 Total volume purged (gal.) 6

Water color CLEAR Odor NONE

Description of sediments or material in sample: NONE

Additional Comments: — NOTE: SEE FIELD REPORT FOR REFERENCE.

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
C-6	2	1	—	HCl	Y	SPA	8/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other ___; 6 = Other ___

SIERRA

WATER SAMPLING DATA

Job Name 15900 HESPERIAN Blvd. Job Number 1-391-04 Sampler J.C.

Well Number C-7 Date 12/14/94 Well Diameter 2"

Sample Point Location/Description South EAST of SITE ON HESPERIAN Blvd. Well Depth (spec.) 25

Depth to Water (static) 8.99 Well Depth (sounded) —

Initial height of water in casing 16.01 Volume 2.60 gallons

Volume to be purged 8 gallons

Purged With Sub pump Sampled With DISPOSABLE BAILERS

Pumped or Bailed Dry? ___ Yes X No Time ___ After ___ gallons

Water level at sampling ___ Percent Recovery ___

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
11:20	11:21	2	2	7.8	66	920	
	11:23	3	5	7.9	66	980	
	11:25	3	8	7.9	66	1020	

SAMPLES COLLECTED Time 11:32 Total volume purged (gal.) 8

Water color CLEAR Odor HYDROCARBON

Description of sediments or material in sample: SOME SED.

Additional Comments: NO PRESERV.

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
C-7	2	1	—	HCl	Y	SPA	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other ___; 6 = Other ___

SIERRA

WATER SAMPLING DATA

Job Name 15900 Hesperian Blvd. Job Number 1-391-04 Sampler J.C.

Well Number C-8 Date 12/14/94 Well Diameter 2"

Sample Point Location/Description South of site on Hesperian Blvd. Well Depth (spec.) 25

Depth to Water (static) 10.51 Well Depth (sounded) —

Initial height of water in casing 14.49 Volume 2.36 gallons

Volume to be purged 7 gallons

Purged With Sub pump Sampled With DISPOSABLE BAILERS

Pumped or Bailed Dry? ___ Yes X No Time ___ After ___ gallons

Water level at sampling ___ Percent Recovery ___

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
10:40	10:41	2	2	7.9	69	1540	
	10:43	3	5	7.8	68	1560	
	10:44	2	7	7.7	68	1520	

SAMPLES COLLECTED Time 10:52 Total volume purged (gal.) 7

Water color CLEAR Odor Hydrocarbon

Description of sediments or material in sample: NONE

Additional Comments: NO PRESERV.

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
C-8	2	1	—	HCl	Y	SPA	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other ___; 6 = Other ___

SIERRA

WATER SAMPLING DATA

Job Name 15900 Hesperian Blvd. Job Number 1-391-04 Sampler C.C.

Well Number C-9 Date 12/14/04 Well Diameter 2"

Sample Point Location/Description South of site & Hesperian Blvd. on curb. Well Depth (spec.) 25

Depth to Water (static) 10.49 Well Depth (sounded) ——

Initial height of water in casing 14.51 Volume 2.36 gallons

Volume to be purged 7 gallons

Purged With Sub pump Sampled With Disposable Bailers

Pumped or Bailed Dry? ___ Yes X No Time ____ After ____ gallons

Water level at sampling ____ Percent Recovery ____

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
11:50	11:51	2	2	7.5	64	240	
	11:53	3	5	7.6	63	230	
	11:54	2	7	7.6	63	240	

SAMPLES COLLECTED Time 12:03 Total volume purged (gal.) 7

Water color CLEAR Odor Hydrocarbon

Description of sediments or material in sample: NONE

Additional Comments: ~

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
C-9	2	1	—	HCl	Y	SPA	g/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other ____; 6 = Other ____

SIERRA

WATER SAMPLING DATA

Job Name 15900 HESPERIAN Blvd. Job Number 1-391-04 Sampler J.C.

Well Number C-10 Date 12/14/94 Well Diameter 2"

Sample Point Location/Description South of site IN VIDEO HANDICAPPARKING STALL Well Depth (spec.) 25

Depth to Water (static) 8.61 Well Depth (sounded) ——

Initial height of water in casing 16.39 Volume 2.67 gallons

Volume to be purged 8 gallons

Purged With Sub pump Sampled With DISPOSABLE BAILERS

Pumped or Bailed Dry? ___ Yes X No Time ____ After ____ gallons

Water level at sampling ____ Percent Recovery ____

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F/C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
3:25	3:26	2	2	7.9	65	1380	
	3:28	3	5	7.8	66	1360	
	3:30	3	8	7.8	65	1330	

SAMPLES COLLECTED Time 3:36 Total volume purged (gal.) 8

Water color CLEAR Odor NONE

Description of sediments or material in sample: NONE

Additional Comments: NOTE: SEE field Report for REFERENCE.

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
C-10	2	1	—	HCl	Y	SPA	8/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other ____; 6 = Other ____

SIERRA

WATER SAMPLING DATA

Job Name 15900 Hesperian Blvd. Job Number 1-391-04 Sampler J.C.

Well Number C-11 Date 12/14/94 Well Diameter 2"

Sample Point Location/Description South EAST of Site, South of Hesperian Blvd. on curb Well Depth (spec.) 25

Depth to Water (static) 8.50 Well Depth (sounded) —

Initial height of water in casing 16.5 Volume 2.68 gallons

Volume to be purged 8 gallons

Purged With Sub pump Sampled With DISPOSABLE BAILERS

Pumped or Bailed Dry? ___ Yes X No Time ___ After ___ gallons

Water level at sampling ___ Percent Recovery ___

Formulas/Conversions
r = well radius in ft
h = ht of water col. in ft
vol. in cyl. = $\pi r^2 h$
7.48 gal/ft³
V_2" casing = 0.163 gal/ft
V_3" casing = 0.367 gal/ft
V_4" casing = 0.653 gal/ft
$V_{4.5}$" casing = 0.826 gal/ft
V_6" casing = 1.47 gal/ft
V_8" casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°F)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
12:20	12:21	2	2	7.6	65	930	
	12:23	3	5	7.6	65	970	
	12:25	3	8	7.5	65	970	

SAMPLES COLLECTED Time 12:32 Total volume purged (gal.) 8

Water color CLEAR Odor Slight Hydrocarbon

Description of sediments or material in sample: NONE

Additional Comments: ___

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
C-11	2	1	—	HCl	Y	SPA	G/BTEX

Container Type Codes: 1 = 40 ml clear VOA/Teflon septa; 2 = Brown glass/teflon lined cap (specify size); 3 = Clear glass/teflon lined cap (specify size); 4 = Polyethylene/polyethylene cap (specify size); 5 = Other ___; 6 = Other ___

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No

80286

Chain-of-Custody-Record

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 9-0504
Facility Address 15900 HESPERIAN Blvd., SAN LORENZO
Consultant Project Number 1-391-04
Consultant Name Sierra Environmental Services
Address P.O. Box 2546, Martinez, CA
Project Contact (Name) Ed Morales
(Phone) 370-1280 (Fax Number) 370-7959

Chevron Contact (Name) MARK MILLER
(Phone) 842-8134
Laboratory Name SPA
Laboratory Release Number 7583810
Samples Collected by (Name) Joe Carter
Collection Date 12/14/94
Signature Joe Carter

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)					
TB-LB		2	W	G	—	HCL	Y	✓												
G-8					10:52	NONE		✓												
C-7					11:32	NONE		✓												
C-11					12:32	HCL		✓												
C-9					12:03			✓												
C-4		4			1:57			✓			✓						4	3C		
C-5					2:34			✓												
C-6					3:07			✓												
C-10					3:36	↓		✓												
C-3		↓	↓	↓	4:11	NONE	↓	✓												

Please initial: NH
Samples Stored in ice ✓
Appropriate containers ✓
Samples preserved Yes ✓ No
VOA's without headspace ✓
Comments:

Note:
Do Not Bill
TB-LB Samples

Remarks
ANALYZE
* NOTE: Some Samples are NOT Preserved.

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Joe Carter	SES				
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			Nicki Heath		12/15/94 4:25

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 91/HCH

Superior Precision Analytical, Inc.
A member of ESSCON Environmental Support Service Consortium

Sierra Environmental
P.O. Box 2546
Martinez, CA 94553

Date: December 23, 1994

Attn: ED MORALES

Laboratory Number : 80266 Project Number/Name : 1-391-04

This report has been reviewed and

approved for release.

Senior Chemist
Account Manager

Sierra Environmental
Attn: ED MORALES

Project 1-391-04
Reported on December 17, 1994

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Chronology

Laboratory Number 80266

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
C-4	12/14/94	12/15/94	12/16/94	12/16/94	AL161.07	06

QC Samples

QC Batch #	QC Sample ID	Type	Ref.	Matrix	Extract.	Analyzed
AL161.07-01	Method Blank	MB		Water	12/16/94	12/16/94
AL161.07-02	979SB02	MS	80274-02	Water	12/16/94	12/16/94
AL161.07-03	979SB02	MSD	80274-02	Water	12/16/94	12/16/94

Certified Laboratories

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

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Sierra Environmental
Attn: ED MORALES

Project 1-391-04
Reported on December 17, 1994

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

LAB ID	Sample ID	Matrix	Moisture
80266-06	C-4	Water	-

R E S U L T S O F A N A L Y S I S

Compound	80266-06 Conc. ug/L	RL
Chloromethane	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	0.5
Chloroethane	ND	0.5
Trichlorofluoromethane	ND	0.5
1,1-Dichloroethene	ND	0.5
Dichloromethane	ND	1.0
t-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
c-1,2-Dichloroethene	ND	0.5
Chloroform	1.8	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
c-1,3-Dichloropropene	ND	0.5
1,2-Dichloropropane	ND	0.5
t-1,3-Dichloropropene	ND	0.5
Bromodichloromethane	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
>> Surrogate Recoveries (%) <<		
4-Bromofluorobenzene	90	

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Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429

Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 80266
Method Blank(s)

	AL161.07-01 Conc. ug/L	RL
Chloromethane	ND	0.5
Vinyl Chloride	ND	0.5
Bromomethane	ND	0.5
Chloroethane	ND	0.5
Trichlorofluoromethane	ND	0.5
1,1-Dichloroethene	ND	0.5
Dichloromethane	ND	1.0
t-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
c-1,2-Dichloroethene	ND	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
c-1,3-Dichloropropene	ND	0.5
1,2-Dichloropropane	ND	0.5
t-1,3-Dichloropropene	ND	0.5
Bromodichloromethane	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
>> Surrogate Recoveries (%) <<		
4-Bromofluorobenzene	99	

Certified Laboratories

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Halogenated Volatile Organics by EPA SW-846 Methods 5030/8010

Quality Assurance and Control Data

Laboratory Number: 80266

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L) AL161.07 02 / 03 - Sample Spiked: 80274 - 02						
1,1-Dichloroethene	ND	100	78/84	78/84	50-189	7
Trichloroethene	ND	100	86/95	86/95	53-161	10
Chlorobenzene	ND	100	93/102	93/102	57-171	9
>> Surrogate Recoveries (%) <<						
4-Bromofluorobenzene				90/93	50-150	

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

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Superior Precision Analytical, Inc.
A member of ESSCON Environmental Support Service Consortium

Sierra Environmental
Attn: ED MORALES

Project 1-391-04
Reported on December 23, 1994

TOTAL PETROLEUM HYDROCARBONS

LAB #	Sample ID	Sampled	Analyzed	Matrix
80266-01	TB-LB	12/14/94	12/21/94	Water
80266-02	C-8	12/14/94	12/21/94	Water
80266-03	C-7	12/14/94	12/22/94	Water
80266-04	C-11	12/14/94	12/22/94	Water
80266-05	C-9	12/14/94	12/21/94	Water
80266-06	C-4	12/14/94	12/21/94	Water
80266-07	C-5	12/14/94	12/21/94	Water
80266-08	C-6	12/14/94	12/21/94	Water
80266-09	C-10	12/14/94	12/21/94	Water
80266-10	C-3	12/14/94	12/21/94	Water

R E S U L T S O F A N A L Y S I S

Laboratory Number:	80266-01	80266-02	80266-03	80266-04	80266-05
Gasoline_Range	ND<50	5300	7700	51	69
Benzene	ND<0.5	140	63	1.1	1.1
Toluene	ND<0.5	30	16	1.7	2.2
Ethyl Benzene	ND<0.5	170	140	1.6	3.4
Total Xylenes	ND<0.5	310	1200	4.0	7.8
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number:	80266-06	80266-07	80266-08	80266-09	80266-10
Gasoline_Range	ND<50	ND<50	ND<50	110	510
Benzene	2.1	ND<0.5	0.9	3.9	3.2
Toluene	3.0	ND<0.5	1.5	5.4	1.4
Ethyl Benzene	1.9	ND<0.5	1.3	4.3	28
Total Xylenes	3.7	ND<0.5	2.6	11	60
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

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C E R T I F I C A T E O F A N A L Y S I S

TOTAL PETROLEUM HYDROCARBONS

QA/QC Information
Laboratory Number: 80266

NA - Analysis NOT required
ND - Not Detected above quantitation limit

Matrix: Water

Analyte	Spike Recovery	RPD	Control Limits
Gasoline_Range	116/133	14	65-135
Benzene	98/92	6	65-135
Toluene	100/93	7	65-135
Ethyl Benzene	129/135	5	65-135
Total Xylenes	132/118	11	65-135

Senior Chemist
Account Manager

Certified Laboratories

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