

Reviewed by O'Heed 2/1/95



*ALCO
Hazardous*

95 JAN -9 PM 3:47

January 3, 1995

Chevron U.S.A. Products Company
6001 Bollinger Canyon Rd., Bldg. L
P.O. Box 5004
San Ramon, CA 94583-0804

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

Ms. Juliet Shin
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. Shin:

Enclosed is the Quarterly Ground Water Sampling report dated December 1, 1994, prepared by our consultant Sierra Environmental Services 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 are consistent with historical results. Depth to ground water was measured at approximately 10.5 to 14.9 feet below grade, and the direction of flow is to the south-southwest.

Concentrations of EPA Method 8010 constituents were below method detection limits in the sample collected from C-4, therefore we will discontinue sampling for these constituents. ✓ *OK*

The ground water extraction system is temporarily off due to a small leak in the system and carbon breakthrough. Startup of this system has been delayed pending submittal and review of our Comprehensive Site Review and Proposed Future Action Plan (CSRPFAP). *— Did not receive*

We are currently preparing the CSRPFAP for the site and anticipate submitting it to your office during the first quarter of 1995. Based on historic site maps found in our files, it appears that a former service station was located adjacent to the Chevron site in the vicinity of monitor well C-7. We are in the process of gathering additional data on this site and will include our findings in the forthcoming report.

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

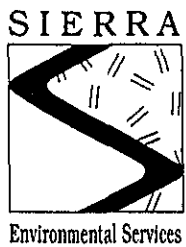
cc: Mr. S.A. Willer

Page 2
January 3, 1995
Chevron SS#9-0504

Mr. Bruce E. Prigoff, Esq.
Steeffel, Levitt & Weiss
One Embarcadero Center, 29th Floor
San Francisco, CA 94111

File: 9-0504 QM9

Reviewed by O'Leary
on 2/1/95



December 1, 1994

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 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 September 29 and November 9, 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 September 29 and November 9, 1994, in accordance with SES Standard Operating Procedure - Ground Water Sampling (attached). The field waer 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.



Sincerely,
Sierra Environmental Services

A handwritten signature in black ink, appearing to read "Richard E. Hilton".

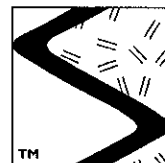
Richard E. (Rick) Hilton
Staff Environmental Scientist

A handwritten signature in black ink, appearing to read "Chris J. Bramer".

Chris J. Bramer
Professional Engineer #C48846

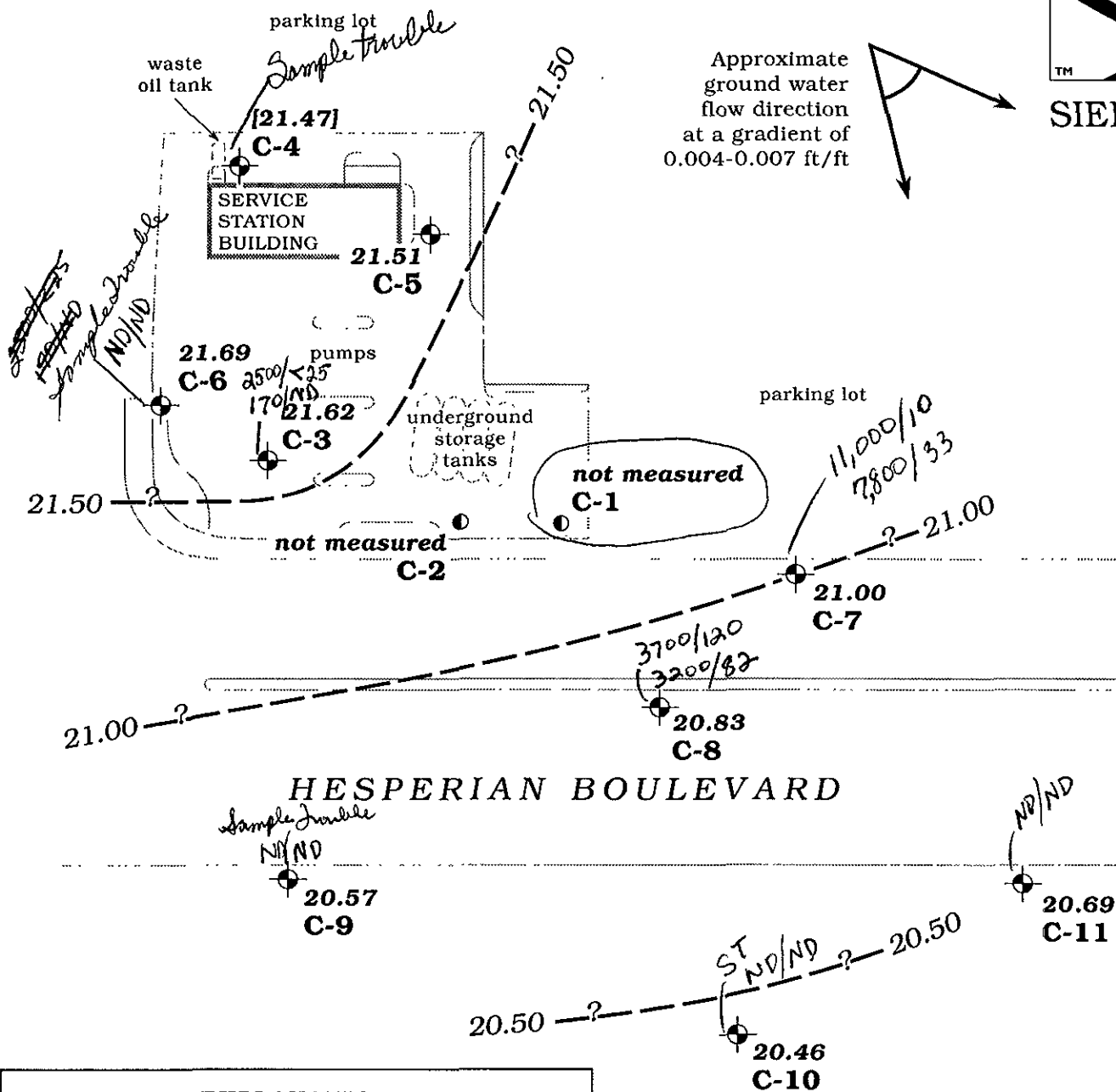
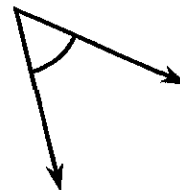
REH/CJB/wmc
31904QM.DE4

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



SIERRA

Approximate ground water flow direction at a gradient of 0.004-0.007 ft/ft



EXPLANATION

- ⊕ C-11 Monitoring well
- C-2 Extraction well
- 20.69 Ground water elevation, in feet
- [21.47] Ground water elevation not used in contouring
- 21.50 Ground water elevation contour, dashed where inferred, queried where uncertain

Base map after Weiss Associates after Geostrategies, Inc

Figure 1. Monitoring Well Locations and Ground Water Elevation Contour Map - September 29, 1994 - Chevron Service Station #9-0504, 15900 Hesperian Boulevard, San Lorenzo, California



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)	←-----ppb----->			
							B	T	E	X
C-1 33.93 ²	6/6/89	---	---	0	8015/8020	5,100	250	170	200	990
	12/8/89	13.14	---	0.01	---	---	---	---	---	---
	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	---	---	---	---	---	---	---	---	---
C-2 34.21 ²	6/6/89	---	---	0	8015/8020	130,000	14,000	28,000	3,400	24,000
	12/8/89	13.44	---	0.15	---	---	---	---	---	---
	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
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		---	---	---	---	---	---	---	---	---
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



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)	-----ppb----->			
							B	T	E	X
C-3 (cont)										
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
	11/9/94⁸	---	---	0	8015/8020	170	<0.5	0.8	3.3	16
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
	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



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				
						-----ppb----->				
C-4	3/31/94 ⁴	---	---	---	---	---	---	---	---	---
(cont)	6/8/94	11.92	23.31	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	9/29/94 ^{5,7}	13.76	21.47	0	8015/8020/8010	<2,500	<25	<25	<25	<25
	11/9/94^{6,7}	---	---	0	8015/8020/8010	<50	<0.5	<0.5	<0.5	<0.5
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 ⁸	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
	11/9/94⁶	---	---	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
	10/29/92	16.98	19.91	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5
	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



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					
						-----ppb----->					
C-6 (cont) 36.57	7/28/93	13.86	23.03	0	8015/8020	<50	<0.5	<0.5	<0.5	<1.5	
	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 ⁵	---	---	0	8015/8020	<50	<0.5	0.5	<0.5	<0.5	
C-7 32.75 ²	12/8/89	---	---	0	8015/8020	1,700	32	12	17	150	
	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	
C-8 33.82 ²	12/8/89	---	---	0	8015/8020	4,800	62	11	95	180	
	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	
	4/20/92	10.36	23.46	0	8015/8020	2,600	110	32	180	260	
	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	



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)	-----ppb----->				
							B	T	E	X	
C-8 (cont) 33.25	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	
	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	
	11/9/94⁶	---	---	0	8015/8020	3,200	82	44	160	110	
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	
11/9/94⁵		---	---	0	8015/8020	<50	<0.5	<0.5	<0.5	0.7	
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	
	9/26/91	12.42	19.21	0	8015/8020	<50	<0.5	<0.5	<0.5	<0.5	
	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	



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				
						-----ppb----->				
C-10 (cont)	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
	11/9/94⁶	---	---	0	8015/8020	<50	<0.5	1.4	0.8	1.2
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
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
	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



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) <-----ppb----->	B	T	E	X
Trip Blank (cont)	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
DTSC MCLs	---	---	---	---	---	NE	1.0	100 [†]	680	1,750

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
 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.
- 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 Monitoring well was analyzed for HVOCs this event by EPA Method 8010. HVOCs were not detected at detection limits of 0.5 - 1.0 ppb.



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 $\pm 0.5^{\circ}\text{F}$, 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.



WATER SAMPLING DATA

Job Name 1-391-04 Job Number San Lorenzo Sampler D.B./L.C.
 Well Number C-3 Date 09/29/94 Well Diameter 2"
 Sample Point Location/Description North of Punip Island Well Depth (spec.) _____
 Depth to Water (static) 13.84 Well Depth (sounded) 19.00
 Initial height of water in casing 5.16 Volume 0.84 gallons
 Volume to be purged 2.32 gallons
 Purged With Sub Pump Sampled With Disp. Bottle
 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
 $V_{5"}$ casing = 0.826 gal/ft
 $V_{6"}$ casing = 1.47 gal/ft
 $V_{8"}$ casing = 2.61 gal/ft

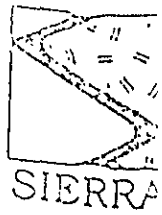
CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	µmhos/cm
12.50	12.52	1	1	7.65	29.7	—	
	12.54	1	2	7.77	29.9	—	
	12.56	1	3	7.84	29.9	—	

SAMPLES COLLECTED Time 13.10 Total volume purged (gal.) 3
 Water color Clear Odor None
 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-3	6	—	1	HCL	Y	SPA	G/ATEX + 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 _____



WATER SAMPLING DATA

Job Name 1-391-04 Job Number San Lorenzo Sampler D.B./L.C.
 Well Number C-4 Date 09/29/94 Well Diameter 2"
 Sample Point Location/Description EAST OF GAS STATION Well Depth (spec.) _____
 Depth to Water (static) 13.76 Well Depth (sounded) 19.55
 Initial height of water in casing 5.74 Volume 0.94 gallons
 Volume to be purged 2.83 gallons
 Purged With Sub Pump Sampled With Disp. Bailor
 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 gal. = $\pi r^2 h$
 7.48 gal/ft³
 $V_{1/2}$ casing = 0.163 gal/ft
 $V_{1/3}$ casing = 0.367 gal/ft
 $V_{1/4}$ casing = 0.653 gal/ft
 $V_{1/5}$ casing = 0.826 gal/ft
 $V_{1/6}$ casing = 1.47 gal/ft
 $V_{1/8}$ casing = 2.61 gal/ft

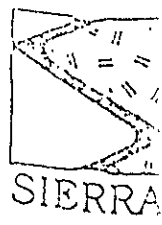
CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
12.00	12.02	1	1	2.8	68.4	470	
	12.04	1	2	2.9	68.5	480	
	12.06	1	3	2.9	68.5	480	

SAMPLES COLLECTED Time 12.10 Total volume purged (gal.) 3.0
 Water color Cloudy Odor None
 Description of sediments or material in sample: Light brown sediment
 Additional Comments: _____

Sample ID	# of Cont.	Container Type	Filtered (size, μ)	Preservative (DPC)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
C-4	B	—	1	HCL	Y	SPA	G/ATEX + 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 _____



WATER SAMPLING DATA

Job Name 1-391-04 Job Number San Lorenzo Sampler D.B./L.C.
 Well Number C-5 Date 09/29/94 Well Diameter 2"
 Sample Point Location/Description SOUTH SIDE GAS STATION Well Depth (spec.) _____
 Depth to Water (static) 13.10 Well Depth (sounded) 18.42
 Initial height of water in casing 5.32 Volume 0.86 gallons
 Volume to be purged 2.5 gallons
 Purged With Sub Pump Sampled With Disp. Bailor
 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
 V₁" casing = 0.163 gal/ft
 V₂" casing = 0.367 gal/ft
 V₃" casing = 0.653 gal/ft
 V₄" casing = 0.926 gal/ft
 V₅" casing = 1.47 gal/ft
 V₆" casing = 2.61 gal/ft

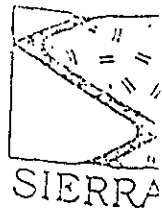
CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	µmhos/cm
12,20	12,22	1	1	7.27	73.2	13.30	
	12,24	1	2	7.20	73.4	6.05	
	12,26	1	3	7.11	74.1		

SAMPLES COLLECTED Time 12:35 Total volume purged (gal.) 3
 Water color Clear Odor None
 Description of sediments or material in sample: _____
 Additional Comments: _____

Sample ID	# of Cont.	Container Type	Filtered (size, µ)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
C-5	3		1	HCL	Y	SPA	G/ATEX + 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 _____; G = Other _____



WATER SAMPLING DATA

Job Name 1-391-04 Job Number San Lorenzo Sampler D.P. / LC
 Well Number C-6 Date 09/29/94 Well Diameter 2"
 Sample Point Location/Description NORTH LOT PROP. LINE Well Depth (spec.) _____
 Depth to Water (static) 14.7' Well Depth (sounded) _____
 Initial height of water in casing _____ Volume 1.14 gallons
 Volume to be purged _____ gallons
 Purged With Sub Pump Sampled With Dipp. Bailor
 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
 $V_{1'} \text{ casing} = 0.163 \text{ gal/ft}$
 $V_{2'} \text{ casing} = 0.367 \text{ gal/ft}$
 $V_{3'} \text{ casing} = 0.653 \text{ gal/ft}$
 $V_{4'} \text{ casing} = 0.826 \text{ gal/ft}$
 $V_{5'} \text{ casing} = 1.47 \text{ gal/ft}$
 $V_{6'} \text{ casing} = 2.61 \text{ gal/ft}$

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	\times umhos/cm
12.35	12.37	1	1	6.92	13.9	6.93	
	12.39	1	2	7.01	1.8	10.75	
	12.41	2	4	7.75	11.4	11.57	

SAMPLES COLLECTED Time 12.45 Total volume purged (gal.) 4
 Water color Color Odor None
 Description of sediments or material in sample: No sediments
 Additional Comments: _____

Sample ID	# of Cont.	Container Type	Filtered (size, μ)	Preservative (type)	Refrig. (Y/N)	Lab (In/)	Analysts Requested
C-6	8	—	1	HCL	Y	SPA	G/ATEX + 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 _____; G = Other _____



WATER SAMPLING DATA

Job Name 1-391-04 Job Number San Lorenzo Sampler DB/L.C.
 Well Number C-7 Date 09/29/94 Well Diameter 2"
 Sample Point Location/Description EAST SIDE HERRERA BLVD. IN STREET Well Depth (spec.) _____
 Depth to Water (static) 11.32 Well Depth (sounded) 24.50
 Initial height of water in casing 13.18 Volume 2.14 gallons
 Volume to be purged 5.4 gallons
 Purged With Sub Pump Sampled With Disp. Bailer
 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
 V₁ casing = 0.163 gal/ft
 V₂ casing = 0.367 gal/ft
 V₃ casing = 0.653 gal/ft
 V₄ casing = 0.826 gal/ft
 V₅ casing = 1.47 gal/ft
 V₆ 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
13.10	13.15	2	2	6.84	72	—	
	13.17	2	4	6.96	71.3	—	
	13.19	2	6	6.95	71.0	—	

SAMPLES COLLECTED Time 13.25 Total volume purged (gal.) 6
 Water color Clear Odor None
 Description of sediments or material in sample: No sediments
 Additional Comments: _____

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
C-7	6	—	1	HCL	Y	SPA	G/ATEX + 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 _____



WATER SAMPLING DATA

Job Name 1-39/-04

Job Number San Lorenzo

Well Number C-8

Date 09/29/94

Sampler DB. / L.C.

Sample Point Location/Description Middle of Heparian Bl.

Well Diameter 2"

Depth to Water (static) 12.42

Well Depth (sounded) 24.57

Well Depth (spec.) _____

Initial height of water in casing 12.15

Volume 1.98 gallons

Volume to be purged _____

5.94 gallons

Purged With Sub Pump

Sampled With Disp. Bailor

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_1 casing = 0.163 gal/ft
 V_2 casing = 0.367 gal/ft
 V_3 casing = 0.653 gal/ft
 V_4 casing = 0.826 gal/ft
 V_5 casing = 1.47 gal/ft
 V_6 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
10:55							
	10:58	2	2	6.70	68.4	4.70	x 1,000
	11:00	2	4	5.70	55.9	4.79	
	11:02	1	5	5.65	53.5	4.91	↓

SAMPLES COLLECTED Time 11:05

Total volume purged (gal.) 5

Water color CLEAR

Odor RETROCLEAN

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)	Analysts Requested
C-8	6	—	1	HCL	Y	SPA	G/ATEX + 8010

Container Type Codes: 1 = 40 ml clear VOX/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 _____; G = Other _____



WATER SAMPLING DATA

Job Name 1-391-04

Job Number San Lorenzo

Sampler DB./L.C.

Well Number C-9

Date 09/29/94

Well Diameter 2"

Sample Point Location/Description N. SIDE OF WEST SIDE WALK Hesperian

Depth to Water (static) 12.40

Well Depth (sounded) 24.35

Well Depth (spec.)

Initial height of water in casing 11.95

Volume 1.94 gallons

Volume to be purged 5.84 gallons

Purged With Sub Pump

Sampled With Disp. Cailer

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
 V₁ casing = 0.163 gal/ft
 V₂ casing = 0.367 gal/ft
 V₃ casing = 0.653 gal/ft
 V₄ casing = 0.826 gal/ft
 V₅ casing = 1.47 gal/ft
 V₆ casing = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	µmhos/cm
13.25	13.27	2	2	7.33	65.8	—	
	13.29	2	4	7.33	66.3	—	
	13.31	2	6	7.25	65.6	—	

SAMPLES COLLECTED Time 13.35

Water color Clear

Total volume purged (gal.) 6

Odor None

Description of sediments or material in sample:

Additional Comments:

Sample ID	# of Cont.	Container Type	Filtered (size, µ)	Preservative (type)	Refrig. (Y/N)	Lab (Inst)	Analysis Requested
C-9	8	—	1	HCL	Y	SPA	G/ATEX + 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 ; G = Other



WATER SAMPLING DATA

Job Name 1-391-04

Job Number San Lorenzo

Well Number C-10

Date 09/29/94

Sampler DB/L.C.

Sample Point Location/Description Parking lot West of Gas Station

Well Diameter 2"

Depth to Water (static) 10.70

Well Depth (sounded) 24.32

Well Depth (spec.) _____

Initial height of water in casing 13.62

Volume 2.22 gallons

Volume to be purged _____

6.6 gallons

Purged With Sub Pump

Sampled With Disp. Cailer

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
 $V_{2" \text{ casing}}$ = 0.163 gal/ft
 $V_{3" \text{ casing}}$ = 0.367 gal/ft
 $V_{4" \text{ casing}}$ = 0.653 gal/ft
 $V_{5" \text{ casing}}$ = 0.826 gal/ft
 $V_{6" \text{ casing}}$ = 1.47 gal/ft
 $V_{8" \text{ casing}}$ = 2.61 gal/ft

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
14.00	14.02	2	2	6.90	72.4	—	—
	14.04	2	4	6.86	71.3	—	—
	14.06	2	6	6.85	71.1	—	—

SAMPLES COLLECTED Time 11.15

Total volume purged (gal.) 6

Water color Clear

Odor None

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-10	6	—	1	HCL	Y	SPA	G/ATED + 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 _____; G = Other _____



WATER SAMPLING DATA

Job Name 1-391-04

Job Number San Lorenzo

Well Number C-11

Date 09/29/94

Sampler DB/L.C.

Sample Point Location/Description S. SIDE, SIDEWALK, WEST OF GAS STATION

Well Diameter 2"

Depth to Water (static) 10.54

Well Depth (sounded) 24.34

Well Depth (spec.) _____

Initial height of water in casing 13.80

Volume 2.24 gallons

Volume to be purged _____

6.74 gallons

Purged With Sub Pump

Sampled With Disp. Bailer

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_1 casing = 0.163 gal/ft
 V_2 casing = 0.367 gal/ft
 V_3 casing = 0.653 gal/ft
 $V_{1.5}$ casing = 0.826 gal/ft
 V_4 casing = 1.47 gal/ft
 V_5 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
13.40	13.42	2	2	7.15	71.03	—	
	13.44	2	4	7.18	70.30	—	
	13.46	3	7	7.10	70.30	—	

SAMPLES COLLECTED Time 13.55

Water color Clear

Total volume purged (gal.) 7

Description of sediments or material in sample: _____

Odor None

Additional Comments: _____

None

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (init)	Analysis Requested
C-11	8	—	1	HCL	Y	SPA	G/ATEX + 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 _____; G = Other _____



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

Sierra Environmental
Attn: ED MORALES

Project 1-391-04
Reported 06-October-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Chronology

Laboratory Number 30779

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
C-4	09/29/94	09/30/94	10/04/94	10/04/94		2

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



Superior Precision Analytical, Inc.

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Sierra Environmental
Attn: ED MORALES

Project 1-391-04
Reported 06-October-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Laboratory Number	Sample Identification	Matrix
30779- 2	C-4	Water

RESULTS OF ANALYSIS

Laboratory Number: 30779- 2

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-Tetrachloroeth:	ND<0.5
1,3-Dichlorobenzene:	ND<0.5
1,2-Dichlorobenzene:	ND<0.5
1,4-Dichlorobenzene:	ND<0.5

Concentration: ug/L



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.
Quality Assurance and Control Data - Water

Laboratory Number 30779

Compound	Method Blank (ug/L)	RL (ug/L)	Spike Recovery (%)	Limits (%)	RPD (%)
Chloromethane:	ND<0.5	0.5			
Vinyl Chloride:	ND<0.5	0.5			
Bromomethane:	ND<0.5	0.5			
Chloroethane:	ND<0.5	0.5			
Trichlorofluoromethane:	ND<0.5	0.5			
1,1-Dichloroethene:	ND<0.5	0.5	62/64	50-189	3%
Dichloromethane:	ND<1.0	1.0			
t-1,2-Dichloroethene:	ND<0.5	0.5			
1,1-Dichloroethane:	ND<0.5	0.5			
c-1,2-Dichloroethene:	ND<0.5	0.5			
Chloroform:	ND<0.5	0.5			
1,1,1-Trichloroethane:	ND<0.5	0.5			
Carbon tetrachloride:	ND<0.5	0.5			
1,2-Dichloroethane:	ND<0.5	0.5			
Trichloroethene:	ND<0.5	0.5	78/76	53-161	3%
c-1,3-Dichloropropene:	ND<0.5	0.5			
1,2-Dichloropropane:	ND<0.5	0.5			
t-1,3-Dichloropropene:	ND<0.5	0.5			
Bromodichloromethane:	ND<0.5	0.5			
1,1,2-Trichloroethane:	ND<0.5	0.5			
Tetrachloroethene:	ND<0.5	0.5			
Dibromochloromethane:	ND<0.5	0.5			
Chlorobenzene:	ND<0.5	0.5	100/98	57-171	2%
Bromoform:	ND<0.5	0.5			
1,1,2,2-Tetrachloroeth:	ND<0.5	0.5			
1,3-Dichlorobenzene:	ND<0.5	0.5			
1,2-Dichlorobenzene:	ND<0.5	0.5			
1,4-Dichlorobenzene:	ND<0.5	0.5			

Definitions:

ND = Not Detected
 RPD = Relative Percent Difference
 RL = Reporting Limit
 ug/L = Parts per billion (ppb)
 QC File No. 30779

Abraham S. Salas 10/17/94
 Senior Chemist
 Account Manager



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

Sierra Environmental
Attn: ED MORALES

Project 1-391-04
Reported 10/12/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30779- 1	C-3	09/29/94	10/07/94 Water
30779- 2	C-4	09/29/94	10/07/94 Water
30779- 3	C-5	09/29/94	10/07/94 Water
30779- 4	C-6	09/29/94	10/07/94 Water
30779- 5	C-7	09/29/94	10/07/94 Water
30779- 6	C-8	09/29/94	10/07/94 Water
30779- 7	C-9	09/29/94	10/07/94 Water
30779- 8	C-10	09/29/94	10/07/94 Water
30779- 9	C-11	09/29/94	10/07/94 Water

RESULTS OF ANALYSIS

Laboratory Number: 30779- 1* 30779- 2* 30779- 3* 30779- 4* 30779- 5

Gasoline:	ND<2500	ND<2500	ND<2500	ND<2500	11000
Benzene:	ND<25	ND<25	ND<25	ND<25	10
Toluene:	ND<25	ND<25	ND<25	ND<25	11
Ethyl Benzene:	ND<25	ND<25	ND<25	ND<25	620
Total Xylenes:	220	ND<25	ND<25	ND<25	810
Concentration:	ug/L	ug/L	ug/L	ug/L	ug/L

Laboratory Number: 30779- 6 30779- 7* 30779- 8* 30779- 9*

Gasoline:	3700	ND<5000	ND<5000	ND<50
Benzene:	120	ND<50	ND<50	ND<0.5
Toluene:	20	ND<50	ND<50	ND<0.5
Ethyl Benzene:	120	ND<50	ND<50	ND<0.5
Total Xylenes:	85	ND<50	ND<50	ND<0.5
Concentration:	ug/L	ug/L	ug/L	ug/L

* Detection limits raised due to foaming sample.



Superior Precision Analytical, Inc.

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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

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2
QA/QC INFORMATION
SET: 30779

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	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	98/100	2%	56-117
Benzene:	72/72	0%	59-149
Toluene:	80/79	1%	59-149
Ethyl Benzene:	87/85	2%	59-149
Total Xylenes:	92/91	1%	59-149

Alana Salinger 10/17/94
Senior Chemist

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

Fax copy of Lab Report and COC to Chevron Contact: Yes No 30779

Chain-of-Custody-Recd

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 RAMON, CA
Consultant Project Number 1-391-04
Consultant Name SIERRA ENVIRONMENTAL SERVICES
Address P.O. BOX 2546 MARTINEZ, CA 94553
Project Contact (Name) ED MORALES
(Phone) 370-1280 (Fax Number) 370-7959

Chevron Contact (Name) MARK MILLER
(Phone) 842-8134
Laboratory Name Superior Analytical
Laboratory Release Number 1927240
Samples Collected by (Name) DAVID BEARSLY
Collection Date 9-29-94
Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water A = Air C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Lead (Yes or No)	Analyses To Be Performed										Remarks				
								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)							
C-3	1	6	W	G	13:10	HCl	YES	✓														
C-4	2				12:10			✓														
C-5	3				12:35			✓														
C-6	4				12:45			✓														
C-7	5				13:25			✓														
C-8	6				11:05			✓														
C-9	7				13:35			✓														
C-10	8				14:15			✓														
C-11	9				13:55			✓														

Note:
Do Not Bill
TB-LB Samples

Relinquished By (Signature) [Signature]
Relinquished By (Signature) [Signature]
Relinquished By (Signature) [Signature]

Organization SES
Organization [Blank]
Organization [Blank]

Date/Time 4:35
Date/Time 9-30-94
Date/Time [Blank]

Received By (Signature) [Signature]
Received By (Signature) [Signature]
Received For Laboratory By (Signature) [Signature]

Organization [Blank]
Organization [Blank]
Organization [Blank]

Date/Time [Blank]
Date/Time [Blank]
Date/Time 9/30/94

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



WATER SAMPLING DATA

Job Name HERNANDEZ B.W. Job Number 1-391-04 Sampler DB.
 Well Number TB Date 11-9-94 Well Diameter 2"
 Sample Point Location/Description TRIP BLANK 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 ROAF Sampled With Drip Purge
 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/ft^3
 $V_{2"} \text{ casing} = 0.163 \text{ gal/ft}$
 $V_{3"} \text{ casing} = 0.367 \text{ gal/ft}$
 $V_{4"} \text{ casing} = 0.653 \text{ gal/ft}$
 $V_{4.5"} \text{ casing} = 0.826 \text{ gal/ft}$
 $V_{6"} \text{ casing} = 1.47 \text{ gal/ft}$
 $V_{8"} \text{ casing} = 2.61 \text{ gal/ft}$

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: TRIP BLANK

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

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 _____



WATER SAMPLING DATA

Job Name Hesperias Riv. Job Number 1-391-04 Sampler DB.
 Well Number C-1 Date 11.9.94 Well Diameter 2"
 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 PUMP Sampled With DISP BAILER
 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
 $V_{2"} \text{ casing} = 0.163 \text{ gal/ft}$
 $V_{3"} \text{ casing} = 0.367 \text{ gal/ft}$
 $V_{4"} \text{ casing} = 0.653 \text{ gal/ft}$
 $V_{4.5"} \text{ casing} = 0.826 \text{ gal/ft}$
 $V_{6"} \text{ casing} = 1.47 \text{ gal/ft}$
 $V_{8"} \text{ casing} = 2.61 \text{ gal/ft}$

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: Pumping Well Shut Down NO SAMPLE

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
<u>C-</u>		<u>1</u>	<u>-</u>	<u>HCl</u>	<u>YES</u>	<u>SPA</u>	<u>G/BTEX</u> <u>3010</u>

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 _____



WATER SAMPLING DATA

Job Name Hesperian Bw. Job Number 1-391-04 Sampler P.B.
 Well Number C-2 Date 11.9.94 Well Diameter 3"
 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 PUMP Sampled With DISP BAILER
 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
 $V_{2"} \text{ casing} = 0.163 \text{ gal/ft}$
 $V_{3"} \text{ casing} = 0.367 \text{ gal/ft}$
 $V_{4"} \text{ casing} = 0.653 \text{ gal/ft}$
 $V_{4.5"} \text{ casing} = 0.826 \text{ gal/ft}$
 $V_{6"} \text{ casing} = 1.47 \text{ gal/ft}$
 $V_{8"} \text{ casing} = 2.61 \text{ gal/ft}$

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: PUMPING WERE SHUT DOWN, NO SAMPLES

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
<u>C-</u>		<u>1</u>	<u>-</u>	<u>HCl</u>	<u>YES</u>	<u>SPA</u>	<u>G/BTEX</u> <u>8010</u>

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 _____



WATER SAMPLING DATA

Job Name Herodias Riv. Job Number 1-391-04 Sampler DB.
 Well Number C-3 Date 11-9-94 Well Diameter 3"
 Sample Point Location/Description N.W. of Pump Island Well Depth (spec.) _____
 Depth to Water (static) 12.86 Well Depth (sounded) 19.0
 Initial height of water in casing 6.14 Volume 2.25 gallons
 Volume to be purged 7 gallons
 Purged With PUMP Sampled With DISP BAILER
 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/ft^3
 V_2 " casing = 0.163 gal/ft
 V_3 " casing = 0.367 gal/ft
 V_4 " casing = 0.653 gal/ft
 V_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
13:20							
			7				

SAMPLES COLLECTED Time 13:35 Total volume purged (gal.) 7
 Water color CLOUDY Odor SLIGHT
 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
C-3	6	1	-	HCl	YES	SPA	G/BTEX 3010

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 _____



WATER SAMPLING DATA

Job Name HERZOG BLVD. Job Number 1-391-04 Sampler DB.
 Well Number C-4 Date 11-9-94 Well Diameter 3"
 Sample Point Location/Description N. SIDE SS BLD. Well Depth (spec.) _____
 Depth to Water (static) 12.81 Well Depth (sounded) 19.5
 Initial height of water in casing 6.6A Volume 7.45 gallons
 Volume to be purged _____ gallons
 Purged With PUMP Sampled With DISP BALL
 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
 $V_{5"}$ 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
9:15							
	9:17	3	3	7.13	69	*	x 1,000
	9:18	2	5	6.92	↓	1.16	↓
	9:19	2	7	6.90	↓	1.18	↓

SAMPLES COLLECTED Time 9:25 Total volume purged (gal.) 7
 Water color CLEAR Odor NO
 Description of sediments or material in sample: _____
 Additional Comments: C

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
<u>C-4</u>	<u>3</u>	<u>1</u>	<u>-</u>	<u>HCl</u>	<u>YES</u>	<u>SRA</u>	<u>G/BTEX</u> <u>18010</u>

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 _____



WATER SAMPLING DATA

Job Name HERPARDIAN Bldg. Job Number 1-391-04 Sampler DB.
 Well Number C-5 Date 11.9.94 Well Diameter 3"
 Sample Point Location/Description S.E. SIDE SS BLDING Well Depth (spec.) 7
 Depth to Water (static) 12.13 Well Depth (sounded) 18.5
 Initial height of water in casing 6.87 Volume 2.29 gallons
 Volume to be purged 7 gallons
 Purged With PUMP Sampled With DISP BAILER
 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
 $V_{5"}$ 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
12:30							
	12:32	3	3	7.03	68	1.43	x 1,000
	12:33	2	5	7.01	↓	1.47	↓
	12:34	2	7	7.02	↓	1.49	↓

SAMPLES COLLECTED Time 12:45 Total volume purged (gal.) 7
 Water color CLOUDY TAN Odor NO
 Description of sediments or material in sample:
 Additional Comments: NEEDS NEW WELL SEAL

Sample ID	# of Cont.	Container Type	Filtered (size, u)	Preservative (type)	Refrig. (Y/N)	Lab (Init)	Analysis Requested
C-5	6	1	-	HCl	YES	SPA	G/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 _____



WATER SAMPLING DATA

Job Name Hesperian Blv. Job Number 1-391-04 Sampler D.B.
 Well Number C-6 Date 11-9-94 Well Diameter 2"
 Sample Point Location/Description N. Pump Island Well Depth (spec.) _____
 Depth to Water (static) 14.00 Well Depth (sounded) 25.0
 Initial height of water in casing 11.0 Volume 1.79 gallons
 Volume to be purged 5 gallons
 Purged With PUMP Sampled With DISP BAILER
 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/ft^3
 $V_{2"} \text{ casing} = 0.163 \text{ gal/ft}$
 $V_{3"} \text{ casing} = 0.367 \text{ gal/ft}$
 $V_{4"} \text{ casing} = 0.653 \text{ gal/ft}$
 $V_{5"} \text{ casing} = 0.826 \text{ gal/ft}$
 $V_{6"} \text{ casing} = 1.47 \text{ gal/ft}$
 $V_{8"} \text{ casing} = 2.61 \text{ gal/ft}$

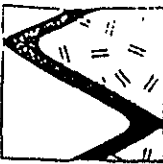
CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp (°C)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
12:57							
	12:58	2	2				
	12:59	2	4				
	13:00	1	5				

SAMPLES COLLECTED Time 13:10 Total volume purged (gal.) 6
 Water color CLOUDY Odor NO
 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
<u>C-6</u>	<u>6</u>	<u>1</u>	<u>-</u>	<u>HCl</u>	<u>YES</u>	<u>SPA</u>	<u>G/BTEX</u>
							<u>3010</u>

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 Hesperus Bw. Job Number 1-391-04 Sampler D.B.
 Well Number C-7 Date 11.9.94 Well Diameter 2"
 Sample Point Location/Description Hesperus Bw. Well Depth (spec.) _____
 Depth to Water (static) 10.22 Well Depth (sounded) 25.0
 Initial height of water in casing 14.78 Volume 2.4 gallons
 Volume to be purged 7 gallons
 Purged With PUMP Sampled With DISP BAUER
 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
10:02							
	10:04	2	2	6.92	68	.66	x 1,000
	10:06	3	5	6.98	↓	.61	
	10:07	2	7	7.01	↓	.59	

SAMPLES COLLECTED Time 10:15 Total volume purged (gal.) 7
 Water color CLEAR Odor STRONG HYDROCARBON
 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
C-7	3	1	-	HCl	YES	SFA	G/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 _____



WATER SAMPLING DATA

Job Name Hesperias Riv. Job Number 1-391-04 Sampler DB.
 Well Number C-8 Date 11.9.94 Well Diameter 2"
 Sample Point Location/Description MEDIUM LEFT TURN LANE Well Depth (spec.) _____
 Depth to Water (static) 11.51 Well Depth (sounded) 25.0
 Initial height of water in casing 13.49 Volume 2.17 gallons
 Volume to be purged _____ gallons
 Purged With PUMP Sampled With DISP BAILER
 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)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
0937							
	0938	2	2	6.75	67	1.06	X 1,000
	0939	2	4	6.77	↓	1.16	↓
	0940	2	6	6.76	↓	1.14	↓

SAMPLES COLLECTED Time 09:48 Total volume purged (gal.) 6
 Water color CLEAR Odor HYDROCARBON OILS
 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
C-8	3	1	-	HCl	YES	SPA	G/BTEX 3010

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 _____



WATER SAMPLING DATA

Job Name Hesperian Blv. Job Number 1-391-04 Sampler DB.
 Well Number C-9 Date 11-9-94 Well Diameter 2"
 Sample Point Location/Description Hesperian Blv. Sidewalk Well Depth (spec.) _____
 Depth to Water (static) 11.54 Well Depth (sounded) _____
 Initial height of water in casing 13.96 Volume 2.19 gallons
 Volume to be purged 6.214 gallons
 Purged With PUMP Sampled With DISP BAILER
 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
 $V_{2"} \text{ casing} = 0.163 \text{ gal/ft}$
 $V_{3"} \text{ casing} = 0.367 \text{ gal/ft}$
 $V_{4"} \text{ casing} = 0.653 \text{ gal/ft}$
 $V_{4.5"} \text{ casing} = 0.826 \text{ gal/ft}$
 $V_{6"} \text{ casing} = 1.47 \text{ gal/ft}$
 $V_{8"} \text{ casing} = 2.61 \text{ gal/ft}$

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp ^F (°)	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
10:30							
10:33	10:33	6	6 6	8.27	67	.21	X 1,000
10:35	10:35	4	10 10	8.33	↓	.22	
10:37	10:37	4	14 14	8.30	↓	.23	

SAMPLES COLLECTED Time 10:45 Total volume purged (gal.) 15
 Water color CLEAR Odor N
 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
<u>C-9</u>	<u>3</u>	<u>1</u>	<u>-</u>	<u>HCl</u>	<u>YES</u>	<u>SPA</u>	<u>G/BTEX</u> <u>8010</u>

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 _____



WATER SAMPLING DATA

Job Name Hesperian Blvd. Job Number 1-391-04 Sampler DB.
 Well Number C-10 Date 11-9-94 Well Diameter 2"
 Sample Point Location/Description Access Hesperian in parking lot Well Depth (spec.) _____
 Depth to Water (static) 9.78 Well Depth (sounded) 26
 Initial height of water in casing 15.22 Volume 2.48 gallons
 Volume to be purged _____ gallons
 Purged With PUMP Sampled With Disp Bailer
 Pumped or Bailed Dry? Yes No Time _____ After _____ gallons
 Water level at sampling A 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
 $V_{2"} casing = 0.163 \text{ gal/ft}$
 $V_{3"} casing = 0.367 \text{ gal/ft}$
 $V_{4"} casing = 0.653 \text{ gal/ft}$
 $V_{4.5"} casing = 0.826 \text{ gal/ft}$
 $V_{6"} casing = 1.47 \text{ gal/ft}$
 $V_{8"} casing = 2.61 \text{ gal/ft}$

CHEMICAL DATA

Purge Time		Purge Volume (gal.)	Cumulative (gal.)	pH	Temp	Specific Conductance	
Start	Stop					Measurement	x umhos/cm
<u>11:28</u>							
	<u>11:30</u>	<u>3</u>	<u>3</u>	<u>7.02</u>	<u>68</u>	<u>1.32</u>	<u>X 1,000</u>
	<u>11:31</u>	<u>2</u>	<u>5</u>	<u>7.00</u>	<u>↓</u>	<u>1.28</u>	<u>↓</u>
	<u>11:32</u>	<u>2</u>	<u>7</u>	<u>7.01</u>	<u>↓</u>	<u>1.25</u>	<u>↓</u>

SAMPLES COLLECTED Time 11:42 Total volume purged (gal.) 8
 Water color (CLOUDY TAN) Odor NO
 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
<u>C-10</u>	<u>6</u>	<u>1</u>	<u>-</u>	<u>HCl</u>	<u>YES</u>	<u>SRA</u>	<u>G/BTEX</u> <u>8010</u>

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 _____



WATER SAMPLING DATA

Job Name Hesperian Riv. Job Number 1-391-04 Sampler DB.
 Well Number C-11 Date 11-9-94 Well Diameter 2"
 Sample Point Location/Description S. Across STREET on SIDEWALK Well Depth (spec.) _____
 Depth to Water (static) 9.57 Well Depth (sounded) 25
 Initial height of water in casing 15.43 Volume 2.51 gallons
 Volume to be purged 7.5 gallons
 Purged With PUMP Sampled With DISP BAILER
 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
 $V_{5"}$ casing = 1.47 gal/ft
 $V_{6"}$ 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
10:59							
	10:00	3	3	7.35	16.6°	.84	X 1,000
	11:01	2	5	7.40	↓	.82	↓
	11:02	2	7	7.41	↓	.80	↓

SAMPLES COLLECTED Time 11:10 Total volume purged (gal.) 7
 Water color CLEAR Odor N
 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
C-11	6	1	-	HCl	YES	SRA	G/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 _____

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

3.0844

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 HEEPAN BLV.
 Consultant Project Number 1-391-04
 Consultant Name SIERRA ENVIRONMENTAL SERVICES
 Address P.O. BOX 2546 MARTINEZ, CA 94553
 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) D.B.
 Collection Date 11-9-94
 Signature [Signature]

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil W = Water C = Charcoal	Type C = 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 (8020)	Purgeable Hydrocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (103 or AA)									
TB	1	2	W	G	-	HCl	Y																	
C-3	2	3			13:35																			
C-4	3	3			9:25																			
C-5	4	3			12:45																			
C-6	5	3			13:10																			
C-7	6	3			10:15																			
C-8	7	3			9:48																			
C-9	8	3			10:45																			
C-10	9	3			11:42																			
C-11	10	3	↓	↓	11:10	↓	↓																	

Note:
 Do Not Bill
 TB-LB Sample

Remarks

Please initial:
 Samples stored in ice SK
 Appropriate containers yes
 Samples preserved ✓
 VOA's without headspace ✓
 Comments: OK

Relinquished By (Signature) [Signature]
 Relinquished By (Signature) [Signature]
 Relinquished By (Signature) [Signature]

Organization SES
 Date/Time 11-10-94
 Organization
 Date/Time
 Organization

Received By (Signature) [Signature]
 Received By (Signature) [Signature]
 Received For Laboratory By (Signature)

Organization Superior
 Date/Time 11/10 4:00
 Organization
 Date/Time

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



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

Sierra Environmental
Attn: ED MORALES

Project 1-391-04
Reported 11/17/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
30844- 1	TB	11/09/94	11/15/94 Water
30844- 2	C-3	11/09/94	11/15/94 Water
30844- 3	C-4	11/09/94	11/15/94 Water
30844- 4	C-5	11/09/94	11/15/94 Water
30844- 5	C-6	11/09/94	11/15/94 Water
30844- 6	C-7	11/09/94	11/15/94 Water
30844- 7	C-8	11/09/94	11/15/94 Water
30844- 8	C-9	11/09/94	11/15/94 Water
30844- 9	C-10	11/09/94	11/15/94 Water
30844-10	C-11	11/09/94	11/15/94 Water

RESULTS OF ANALYSIS

Laboratory Number: 30844- 1 30844- 2 30844- 3 30844- 4 30844- 5

Gasoline:	ND<50	170	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	0.8	ND<0.5	ND<0.5	0.5
Ethyl Benzene:	ND<0.5	3.3	ND<0.5	ND<0.5	ND<0.5
Total Xylenes:	ND<0.5	16	ND<0.5	ND<0.5	ND<0.5

Concentration: ug/L ug/L ug/L ug/L ug/L

Laboratory Number: 30844- 6 30844- 7 30844- 8 30844- 9 30844-10

Gasoline:	7800	3200	ND<50	ND<50	ND<50
Benzene:	33	82	ND<0.5	ND<0.5	ND<0.5
Toluene:	18	44	ND<0.5	1.4	0.6
Ethyl Benzene:	570	160	ND<0.5	0.8	ND<0.5
Total Xylenes:	1100	110	0.7	1.2	0.7

Concentration: ug/L ug/L ug/L ug/L ug/L



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

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2
QA/QC INFORMATION
SET: 30844

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	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	88/94	7%	56-117
Benzene:	98/96	2%	59-149
Toluene:	105/102	3%	59-149
Ethyl Benzene:	104/100	4%	59-149
Total Xylenes:	104/98	6%	59-149

Certified Laboratories
Senior Chemist