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ENVIRONMENTAL PROTECTION
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Chevron

Chevron Products Company
6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 6004
San Ramon, CA 94583-0904

Marketing – Sales West
Phone 510 842-9500

May 14, 1998

Mr. Thomas Peacock
Manager, Environmental Protection Division
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Service Station #9-2506
2630 Broadway
Oakland, California

Dear Mr. Peacock:

Enclosed is the First Quarter (Semi-Annual) Groundwater Monitoring Report for 1998 prepared by our consultant Gettler-Ryan, Inc. for the above noted facility. Ground water samples were analyzed for TPH-g, BTEX, and MtBE. As previously agreed, sampling for monitoring wells B-2 and B-4 have been suspended.

Monitoring wells B-10 and B-11 were below method detection limits for all constituents while well B-8 was below method detection limits for the TPH-g and BTEX constituents. The benzene constituent declined in well B-5 from the previous sampling event while increasing in wells B-1, B-3, B-6, B-7 and B-9. Well B-12 showed benzene at a concentration of 1.2 ppb.

Depth to ground water varied from 2.14 feet to 10.18 feet below grade with a variable direction of flow northwesterly and southwesterly.

For your information the station was closed in February and the tanks and lines were removed in March. Demolition of the building and canopies are on hold pending approval of the demolition permit by the City Of Oakland.

Chevron's consultant is finalizing the report on the removal of the tanks and lines and I expect to have the report to your office in two weeks. The increase of benzene in several of the wells may be attributed to the removal of the tanks and lines and it would be expected that the concentrations would decline in the next sampling event.

The next sampling event will be conducted as noted above. If you have any questions or comments, call me at (510) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

Cc. Mr. Bill Scudder, Chevron

GETTLER-RYAN INC.

May 8, 1998 Job #5203.80

Mr. Phil Briggs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

Re: Semi-Annual Groundwater Monitoring & Sampling Report
Chevron Service Station #9-2506
2630 Broadway
Oakland, California

Dear Mr. Briggs:

This report documents the semi-annual groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On April 2, 1998, field personnel were on-site to monitor and sample ten wells (B-1, B-3, and B-5 through B-12) at the above mentioned site.

Static groundwater levels were measured and all wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the wells. Static water level data and groundwater elevations are presented in Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by Sequoia Analytical. Analytical results are presented in Table 1. The chain of custody document and laboratory analytical reports are attached.

Thank you for allowing Gettler-Ryan Inc. to provide environmental services to Chevron. Please call if you have any questions or comments regarding this report.

Sincerely,

Deanna L. Harding
Project Coordinator

Barbara Sieminski
Project Geologist, R.G. No. 6676

REGISTERED GEOLOGIST
BARBARA SIEMINSKI
No. 6676
STATE OF CALIFORNIA

DLH/SJC/dlh
5203.QML

Figure 1: Potentiometric Map
Table 1: Water Level Data and Groundwater Analytical Results
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports

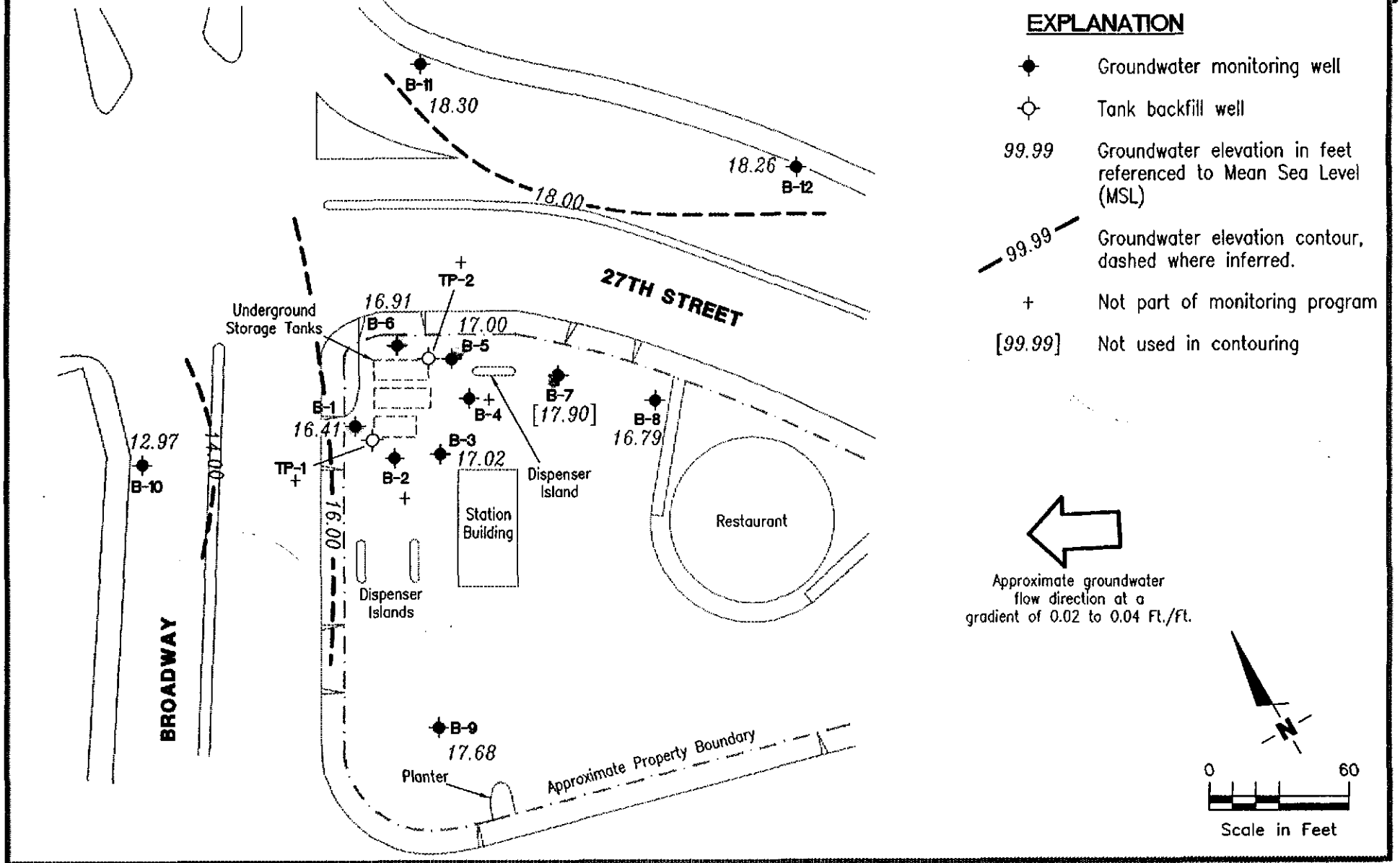

FIGURE 1

Gettler - Ryan Inc.
6747 Sierra Ct., Suite J (925) 551-7555
Dublin, CA 94568

POTENTIOMETRIC MAP
Chevron Service Station No. 9-2506
2630 Broadway
Oakland, California

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
5203		April 2, 1998	

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE
					<--------		ppb			-------->
B-1/										
23.00[1]	3/18/82	7.81	15.19	0	---	---	---	---	---	---
	3/25/82	8.67	14.33	0	---	---	---	---	---	---
	5/21/82	9.30	13.70	0	---	---	---	---	---	---
	5/26/82	10.18	12.82	0	---	---	---	---	---	---
	6/24/82	9.92	13.08	0	---	---	---	---	---	---
	9/9/93	9.90	13.10	0	8,800[2]	240	280	<2.5	<7.5	---
	12/2/93	9.10	13.90	0	1,100	100	7.9	3.4	3.9	---
	3/17/94	9.41	13.59	0	1,600	370	13	13	26	---
	6/10/94	9.89	13.11	0	1,400	270	24	18	78	---
	9/15/94	11.24	11.76	0	4,100	740	<5	270	300	---
25.67[3]	12/28/94	9.25	16.42	0	1,200	200	32	37	79	---
	3/29/95	8.32	17.35	0	13,000	540	54	77	120	---
	6/5/95	9.72	15.95	0	3,000	610	<25	<25	<25	---
	9/21/95	10.92	14.75	0	630[6]	5.4	<0.5	1.3	6.1	---
	12/22/95	10.14	15.53	0	<50	<0.50	<0.50	<0.50	<0.50	40,000
	3/22/96	8.83	16.84	0	<1,200[11]	150	<12	<12	<12	32,000
	9/25/96	10.80	14.87	0	28,000[12]	19	<12	<12	<12	38,000
	3/6/97	9.15	16.52	0	<5,000[15]	52	<50	<50	<50	18,000
	9/12/97	10.72	14.95	0	89	<0.50	0.54	<0.50	1.3	9,200
	4/2/98	**9.26**	**16.41**	**0**	**<5,000**	**110**	**<50**	**<50**	**<50**	**25,000**
B-2/										
22.28[1]	3/18/82	3.83	18.45	0	---	---	---	---	---	---
	3/25/82	5.79	16.49	0	---	---	---	---	---	---
	5/21/82	4.85	17.43	0	---	---	---	---	---	---
	5/26/82	8.53	13.75	0	---	---	---	---	---	---
	6/24/82	8.40	13.88	0	---	---	---	---	---	---
	9/9/93	6.46	15.82	0	4,700	470	630	180	590	---
	12/2/93	5.41	16.87	0	2,200	59	27	110	350	---
	3/17/94	7.44	14.84	0	1,800	52	33	97	320	---
	6/10/94	8.15	14.13	0	1,200	37	48	20	93	---
	9/15/94	10.00	12.28	0	4,900	710	12	340	450	---
25.13[3]	12/28/94	7.32	17.81	0	2,600	63	49	56	370	---
	3/29/95[5]	---	---	---	---	---	---	---	---	---
B-3/										
21.78[1]	3/18/82	5.65	16.13	0	---	---	---	---	---	---
	3/25/82	5.75	16.03	0	---	---	---	---	---	---
	5/21/82	5.58	16.20	0	---	---	---	---	---	---
	5/26/82	7.99	13.79	0	---	---	---	---	---	---
	6/24/82	7.68	14.10	0	---	---	---	---	---	---
	9/9/93	5.99	15.79	0	7,800	500	760	180	720	---

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
B-3	12/2/93	5.70	16.08	0	9,800	790	870	380	1,500	---
(cont)	3/17/94	6.50	15.28	0	2,400	88	55	74	270	---
	6/10/94	7.23	14.55	0	2,300	110	95	84	240	---
	9/15/94	9.16	12.62	0	5,000	670	9.3	340	410	---
24.35[3]	12/28/94	6.44	17.91	0	4,100	650	34	320	440	---
	3/29/95	5.47	18.88	0	3,300	170	2.2	51	8.9	---
	6/5/95	7.05	17.30	0	2,500	850	31	170	85	---
	9/21/95	8.92	15.43	0	2,900[7]	1,300	280	140	100	---
	12/22/95	8.53	15.82	0	5,400[9]	340	37	150	460	8,600
	3/22/96	5.98	18.37	0	2,200	79	50	58	200	1,600
	9/25/96	9.02	15.33	0	11,000	530	97	74	400	7,200
	3/6/97	6.71	17.64	0	<500[16]	20	<5.0	<5.0	<5.0	420
	9/12/97	9.31	15.04	0	<500[18]	<5.0	<5.0	<5.0	<5.0	1,900
	4/2/98	**7.33**	**17.02**	**0**	**110**	**8.3**	**0.79**	**4.0**	**7.4**	**590**
B-4/										
21.35[1]	3/18/82	4.65	16.70	0	---	---	---	---	---	---
	3/25/82	5.08	16.27	0	---	---	---	---	---	---
	5/21/82	---	---	2.5	---	---	---	---	---	---
	5/26/82	9.21	12.14	---	---	---	---	---	---	---
	6/24/82	8.22	13.13	0.5	---	---	---	---	---	---
	9/9/93	6.09	15.26	0	88,000	3,200	16,000	2,000	9,500	---
	12/2/93	5.54	15.81	0	110,000	3,600	25,000	2,800	15,000	---
	3/17/94	6.00	15.35	0	60,000	1,400	16,000	1,800	8,900	---
	6/10/94	6.87	14.48	0	25,000	770	880	190	1,100	---
	9/15/94	8.74	12.61	0	3,300	800	8.0	300	350	---
24.11[3]	12/28/94	5.74	18.37	0	17,000	400	4,000	630	2,900	---
	3/29/95[5]	---	---	---	---	---	---	---	---	---
B-5/										
21.53[1]	3/18/82	5.13	16.40	0	---	---	---	---	---	---
	3/25/82	5.27	16.26	0	---	---	---	---	---	---
	5/21/82	4.40	17.13	0	---	---	---	---	---	---
	5/26/82	7.55	13.98	0	---	---	---	---	---	---
	6/24/82	7.27	14.26	0	---	---	---	---	---	---
	9/9/93	6.45	15.08	0	110,000	1,800	1,800	6,300	25,000	---
	12/2/93	5.13	16.40	0	81,000	4,400	3,800	6,700	28,000	---
	3/17/94	6.55	14.98	0	38,000	2,100	3,100	1,800	9,100	---
	6/10/94	7.34	14.19	0	110,000	5,100	7,000	5,400	27,000	---
	9/15/94	6.34	15.19	0	2,700	770	15	240	320	---
24.23[3]	12/28/94	6.55	17.68	0	94,000	4,600	10,000	4,400	19,000	---
	3/29/95	5.59	18.64	0	59,000	1,500	3,100	2,100	8,100	---
	6/5/95	7.19	17.04	0	58,000	2,300	4,300	2,600	11,000	---

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE
					<------	------	------ppb	------	------	------>
B-5	9/21/95	9.10	15.13	0	3,500[6]	300	30	260	330	---
(cont)	12/22/95	8.61	15.62	0	6,500[9]	370	120	400	870	5,500
	3/22/96	6.02	18.21	0	13,000	410	1,000	750	2,900	5,400
	9/25/96	9.20	15.03	0	8,000	170	<5.0	140	110	7,200
	3/6/97	6.63	17.60	0	60,000	630	320	2,300	9,500	4,700
	9/12/97	8.30	15.93	0	1,400	66	<10	59	24	3,300
	4/2/98	**7.23**	**17.00**	**0**	**1,000[19]**	**5.9**	**2.1**	**18**	**5.1**	**470**
B-6/										
22.03[1]	3/18/82	7.56	14.47	0	---	---	---	---	---	---
	3/25/82	6.08	15.95	0	---	---	---	---	---	---
	5/21/82	4.85	17.18	0	---	---	---	---	---	---
	5/26/82	8.31	13.72	0	---	---	---	---	---	---
	6/24/82	8.03	14.00	0	---	---	---	---	---	---
	9/9/93	8.12	13.91	0	6,800[2]	<0.5	<0.5	<0.5	<1.5	---
	12/2/93	7.06	14.97	0	320	29	<0.5	<0.5	<0.5	---
	3/17/94	7.57	14.46	0	570	130	6.2	4.7	14	---
	6/10/94	8.21	13.82	0	1,500	100	81	51	240	---
	9/15/94	9.94	12.09	0	6,400	900	24	490	620	---
24.72[3]	12/28/94	7.45	17.27	0	350	110	4.4	3.7	14	---
	3/29/95	6.40	18.32	0	3,300	46	<0.5	1.3	1.2	---
	6/5/95	8.07	16.65	0	230	<0.5	<0.5	<0.5	<0.5	---
	9/21/95	9.55	15.17	0	<50[6]	<0.5	<0.5	<0.5	<0.5	---
	12/22/95	8.91	15.81	0	<50	<0.50	<0.50	<0.50	<0.50	15,000
	3/22/96	6.94	17.78	0	<1,200[10]	<12	<12	<12	<12	18,000
	9/25/96	9.63	15.09	0	15,000[12]	<10	<10	<10	<10	20,000
	3/6/97	7.50	17.22	0	<5,000[14]	<50	<50	<50	<50	18,000
	9/12/97	9.70	15.02	0	<100[18]	<1.0	<1.0	<1.0	<1.0	1,300
	4/2/98	**7.81**	**16.91**	**0**	**<500**	**17**	**<5.0**	**<5.0**	**<5.0**	**5,800**
B-7/										
19.54[1]	3/18/82	4.08	15.46	0	---	---	---	---	---	---
	3/25/82	4.00	15.54	0	---	---	---	---	---	---
	5/21/82	3.00	16.54	0	---	---	---	---	---	---
	5/26/82	4.96	14.58	0	---	---	---	---	---	---
	6/24/82	4.90	14.64	0	---	---	---	---	---	---
	9/9/93	6.54	13.00	0	230	1.3	2.3	0.6	2.1	---
	12/2/93	6.20	13.34	0	190	4.7	<0.5	1.1	1.9	---
	3/17/94	5.19	14.35	0	320	15	3.3	1.0	3.0	---
	6/10/94	5.97	13.57	0	210	6.1	5.7	2.3	5.8	---
	9/15/94	7.78	11.76	0	<50	<0.5	<0.5	<0.5	<0.5	---
22.22[3]	12/28/94	5.04	17.18	0	520	17	4.8	2.5	2.1	---
	3/29/95	4.35	17.87	0	420	6.0	2.3	1.8	0.9	---

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
B-7	6/5/95	5.79	16.43	0	65	<0.5	<0.5	<0.5	<0.5	---
(cont)	9/21/95	7.55	14.67	0	<50[6]	<0.5	<0.5	<0.5	<0.5	---
	12/22/95	9.16	13.06	0	<50	<0.50	<0.50	<0.50	<0.50	930
	3/22/96	4.60	17.62	0	300	1.0	0.5	<0.5	0.6	280
	9/25/96	7.98	14.24	0	310[12]	<0.5	0.6	<0.5	0.8	420
	3/6/97	5.06	17.16	0	1,200	9.0	<0.5	<0.5	2.9	1,000
	9/12/97	7.85	14.37	0	<500[18]	<5.0	<5.0	<5.0	<5.0	3,500
	4/2/98	**4.32**	**17.90**	**0**	**<500**	**26**	**1.0**	**9.0**	**20**	**2,200**
B-8/										
18.49[1]	3/18/82	4.27	14.22	0	---	---	---	---	---	---
	3/25/82	4.06	14.43	0	---	---	---	---	---	---
	5/21/82	4.86	13.63	0	---	---	---	---	---	---
	5/26/82	4.96	13.53	0	---	---	---	---	---	---
	6/24/82	4.87	13.62	0	---	---	---	---	---	---
	9/9/93	5.20	13.29	0	<50	3.4	<0.5	<0.5	<1.5	---
	12/2/93	5.31	13.18	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/17/94	4.87	13.62	0	<50	1.7	0.5	<0.5	0.6	---
	6/10/94	5.63	12.86	0	<50	<0.5	<0.5	<0.5	<0.5	---
	9/15/94	7.10	11.39	0	<50	<0.5	<0.5	<0.5	<0.5	---
21.01[3]	12/28/94	4.63	16.38	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/29/95	4.20	16.81	0	<50	<0.5	<0.5	<0.5	<0.5	---
	6/5/95	5.18	15.83	0	<50	<0.5	<0.5	<0.5	<0.5	---
	9/21/95	6.80	14.21	0	<50[6]	<0.5	<0.5	<0.5	<0.5	---
	12/22/95	6.48	14.53	0	<50	<0.50	<0.50	<0.50	<0.50	190
	3/22/96	4.49	16.52	0	<50	<0.5	<0.5	<0.5	<0.5	86
	9/25/96	7.18	13.83	0	90[12]	<0.5	<0.5	<0.5	1.0	110
	3/6/97[13]	---	---	---	---	---	---	---	---	---
	9/12/97[13]	---	---	---	---	---	---	---	---	---
	4/2/98	**4.22**	**16.79**	**0**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**56**
B-9/[4]	8/4/94	11.53	14.08	---	650	4.4	2.4	6.3	14	---
	11/2/94	9.42	16.19	---	---	---	---	---	---	---
25.61[3]	12/28/94	8.35	17.26	0	2,400	290	8.4	90	36	---
	3/29/95	7.43	18.18	0	5,900	540	24	200	84	---
	6/5/95	8.47	17.14	0	3,000	130	<25	<25	<25	---
	9/21/95	8.99	16.62	0	240[8]	1,500	14	62	55	---
	12/22/95	9.20	16.41	0	1,800	170	6.6	59	20	<6.0
	3/22/96	7.84	17.77	0	2,400	230	6.2	77	9.7	9.2
	9/25/96	9.24	16.37	0	1,800	28	4.7	39	13	56
	3/6/97	8.46	17.15	0	3,400	68	3.3	45	18	47

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
B-9	9/12/97	9.15	16.46	0	560	13	7.9	5.8	16	67
(cont)	**4/2/98**	**7.93**	**17.68**	**0**	**2,500[19]**	**93**	**14**	**15**	**39**	**30**
B-10/[4]	8/4/94	10.95	12.20	---	<50	<0.5	<0.5	<0.5	<0.5	---
	11/2/94	11.19	11.96	---	---	---	---	---	---	---
23.15[3]	12/28/94	10.30	12.85	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/29/95	9.68	13.47	0	<50	<0.5	<0.5	<0.5	<0.5	---
	6/5/95	10.59	12.56	0	<50	<0.5	<0.5	<0.5	<0.5	---
	9/21/95	10.87	12.28	0	<50	<0.5	<0.5	<0.5	<0.5	---
	12/22/95	10.41	12.74	0	<50	<0.50	<0.50	<0.50	<0.50	<0.60
	3/22/96	10.11	13.04	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/25/96	10.15	13.00	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/6/97	9.98	13.17	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/12/97	10.90	12.25	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
	4/2/98	**10.18**	**12.97**	**0**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**
B-11/[4]	8/4/94	10.39	14.84	---	<50	<0.5	<0.5	<0.5	<0.5	---
	11/2/94	11.50	13.73	---	---	---	---	---	---	---
25.23[3]	12/28/94	9.09	16.14	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/29/95	7.40	17.83	0	<50	<0.5	<0.5	<0.5	<0.5	---
	6/5/95	8.26	16.97	0	<50	<0.5	<0.5	<0.5	<0.5	---
	9/21/95	9.79	15.44	0	<50	<0.5	<0.5	<0.5	<0.5	---
	12/22/95	9.55	15.68	0	<50	<0.50	<0.50	<0.50	<0.50	<0.60
	3/22/96	7.35	17.88	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/25/96	10.21	15.02	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/6/97	7.76	17.47	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/12/97	10.08	15.15	0	<50	<0.50	<0.50	<0.50	<0.50	2.5
	4/2/98	**6.93**	**18.30**	**0**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**
B-12/[4]	8/4/94	6.41	13.99	---	<50	<0.5	<0.5	<0.5	<0.5	---
	11/2/94	8.75	11.65	---	---	---	---	---	---	---
20.40[3]	12/28/94	2.76	17.64	0	74	1.0	2.6	1.3	4.4	---
	3/29/95	2.46	17.94	0	210	<0.5	<0.5	0.7	1.6	---
	6/5/95	4.59	15.81	0	<50	<0.5	<0.5	<0.5	0.7	---
	9/21/95	7.36	13.04	0	<50	<0.5	<0.5	<0.5	<0.5	---
	12/22/95	3.96	16.44	0	140[9]	<0.50	<0.50	<0.50	0.93	<0.60
	3/22/96	2.92	17.48	0	150	<0.5	0.8	<0.5	2.0	<5.0
	9/25/96	7.84	12.56	0	90	<0.5	<0.5	<0.5	<0.5	<5.0
	3/6/97	3.17	17.23	0	270[12]	<0.5	<0.5	<0.5	<0.5	<5.0

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California (continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B	T	E	X	MTBE
					<----------ppb---------->					
B-12 (cont)	9/12/97	6.81	13.59	0	130[17]	<1.0	<1.0	<1.0	<1.0	<5.0
	4/2/98	**2.14**	**18.26**	**0**	**110[19]**	**1.2**	**<0.50**	**<0.50**	**<0.50**	**12**
TP-1/ ---	9/9/93	7.33	---	0	8,500	770	890	120	590	---
TP-2/ ---	9/9/93	6.18	---	0	13,000	2,400	3,200	380	1,900	---
Trip-Blank TB-LB	9/9/93	---	---	---	<50	<0.5	<0.5	<0.5	<1.5	---
	12/2/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	3/17/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	6/10/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	9/15/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	12/28/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	3/29/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	6/5/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	9/21/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	12/22/95	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	<0.60
	3/22/96	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/25/96	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/6/97	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/12/97	---	---	---	<50	<0.50	0.55	<0.50	<0.50	<2.5
	4/2/98	**---**	**---**	**---**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**<2.5**
Bailer Blank BB	9/9/93	---	---	---	<50	<0.5	<0.5	<0.5	<1.5	---
	12/2/93	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	3/17/94	---	---	---	<50	<0.5	<0.5	<0.5	0.6	---

Table 1. Water Level Data and Groundwater Analytical Results - Chevron Service Station #9-2506, 2630 Broadway, Oakland, California (continued)

EXPLANATION:

TOC = Top of casing elevation
(ft) = feet
DTW = Depth to water
GWE = Groundwater elevation
msl = Measurements referenced relative to mean sea level
TPH(G) = Total Purgeable Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary-butyl ether
ppb = Parts per billion
--- = Not analyzed/Not applicable

ANALYTICAL METHODS:

EPA Method 8015/5030 for TPH(G)
EPA Method 8020 for BTEX & MTBE

NOTES:

Water level data and laboratory analytical results prior to March 29, 1995, compiled from the quarterly monitoring reports prepared for Chevron by Sierra Environmental Services.

* Product thickness was measured on and after September 9, 1993, with an MMC flexi-dip interface probe.

[1] Top of casing elevations were compiled from IT Enviroscience Program Report, August 2, 1982. TOC for MW-1 was assumed to be 23 feet MSL.
[2] Laboratory indicates a non-typical gasoline pattern.

NOTES (continued):

[3] Wells were resurveyed. Top of casing elevations were compiled from RESNA Subsurface Investigation Report, October 19, 1994.
[4] Water level and analytic data prior to 12/28/94 from RESNA Subsurface Investigation Report, October 19, 1994.
[5] Well removed from monitoring program January 11, 1995, per approval of Alameda County Health Services.
[6] Laboratory report indicates uncategorized compounds are not included in gasoline concentration.
[7] Laboratory report indicates uncategorized compounds are not included in gasoline concentration. Data obtained from multiple dilutions. Dilution factor noted represents the dilution used for majority of results.
[8] BFB recovery high due to interference of hydrocarbons.
[9] Laboratory report indicates gasoline and discrete peaks.
[10] Laboratory report indicates hydrocarbons in the gasoline range do not match the gasoline standard pattern. The TPH as gasoline value was 4,200 ug/L which was attributed to the presence of MTBE.
[11] Laboratory report indicates hydrocarbons in the gasoline range do not match the gasoline standard pattern. The TPH as gasoline value was 9,600 ug/L which was attributed to the presence of MTBE.
[12] Laboratory report indicates hydrocarbons in the gasoline range do not match the gasoline standard pattern.
[13] Well was inaccessible.
[14] Laboratory report indicates the TPH as Gasoline value was 22,000 ug/L which was attributed to the presence of a single target analyte.
[15] Laboratory report indicates the TPH as Gasoline value was 21,000 ug/L which was attributed to the presence of a single target analyte.
[16] Laboratory report indicates the TPH as Gasoline value was 770 ug/L which was attributed to the presence of a single target analyte.
[17] Laboratory report indicates unidentified hydrocarbons >C8.
[18] Laboratory report indicates discrete peaks.
[19] Laboratory report indicates gas and unidentified hydrocarbons C6-C12.

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using a MMC flexi-dip interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

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

As requested by Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-2506 Job#: 5203.80

Address: 2630 Broadway Date: 4-2-98

City: Oakland, CA Sampler: F.Cline

Well ID B- 1 Well Condition: okay

Well Diameter 2" in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 29 ft.

Depth to Water 9.26 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

19.74 X VF 0.17 = 3.4 X 3 (case volume) = Estimated Purge Volume: 10.0 (gal.)

Purge Equipment:
- Disposable Bailer
- Bailer
- Stack
- Suction
- ~~Grundfos~~
- Other: _____

Sampling Equipment:
- Disposable Bailer
- ~~Bailer~~
- Pressure Bailer
- Grab Sample
- Other: _____

Starting Time: 15:44 Weather Conditions: cloudy cool

Sampling Time: 1552 Water Color: clear Odor: Mild

Purging Flow Rate: 1.8 gpm. Sediment Description: None

Did well de-water? No If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1546	3.6	6.79	1341	19.7			
1548	7.2	6.67	1295	19.2			
1550	10.8	6.73	1298	19.7			
1552	11.5	6.76	1296	19.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B- 1	3 x 40m/VOA	Y	HCL	~~NEWTEL~~ SEQUOIA	TPH-Gas/BTEX/MTBE

COMMENTS: _____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-2506 Job#: 5203.80

Address: 2630 Broadway Date: 4-2-98

City: Oakland, CA Sampler: F.Cline

Well ID B- 3 Well Condition: okay

Well Diameter 2" in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 19' ft.

Depth to Water 7.33 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

11.67 X VF 0.17 = 1.98 X 3 (case volume) = Estimated Purge Volume: 5.95 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; (Suction); Grundfos; Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 15.56 Weather Conditions: Cloudy cool

Sampling Time: 1604 Water Color: Clear Odor: Mild

Purging Flow Rate: 1 gpm. Sediment Description: Mod.

Did well de-water? No If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1558	2	6.69	2830	17.8			
1600	4	6.73	2880	17.5			
1602	6	6.83	2850	16.9			
1604	7	6.80	2860	17.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B- 3	3 x 40m/VOA	Y	HCL	~~NEWTEL~~ SEQUOIA	TPH-Gas/BTEX/MTBE

COMMENTS: 4' Down casing sheared & shifted needs to be dug out & repaired replaced or Abandoned

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-2506 Job#: 5203.80

Address: 2630 Broadway Date: 9-2-98

City: Oakland, CA Sampler: F.Cline

Well ID B- 5 Well Condition: okay

Well Diameter 2" in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 19' ft.

Depth to Water 7.23 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

11.77 X VF 0.17 = 2.0 X 3 (case volume) = Estimated Purge Volume: 6 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; Suction; Grundfos; Other: _____

Sampling Equipment: Disposable Bailer; ~~Bailer~~; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 1612 Weather Conditions: Cloudy clear

Sampling Time: 1630 Water Color: clear Odor: None

Purging Flow Rate: 1 gpm. Sediment Description: None

Did well de-water? No If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1624	2	6.86	1389	18.4			
1626	3	7.07	1408	18.4			
1628	5	7.10	1409	18.3			
1630	7	7.09	1408	18.4			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B- 5	3 x 40m/VOA	Y	HCL	~~NEMOTEL~~ SEQUOIA	TPH-Gas/BTEX/MTBE

COMMENTS: _____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-2506 Job#: 5203.80

Address: 2630 Broadway Date: 4-8-96

City: Oakland, CA Sampler: F.Cline

Well ID B- 6 Well Condition: okay

Well Diameter 2" in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 19.1 ft.

Depth to Water 7.81 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

11.19 X VF 0.17 = 1.9 X 3 (case volume) = Estimated Purge Volume: 5.7 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; Suction; Grundfos; Other: _____

Sampling Equipment: Disposable Bailer; Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 1518 Weather Conditions: cloudy cool

Sampling Time: 1536 Water Color: clear Odor: None

Purging Flow Rate: 1 gpm. Sediment Description: N/A

Did well de-water? No. If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1522	2	6.81	1804	17.7			
1529	4	6.76	1845	19.0			
1534	6	6.80	1850	18.9			
1536	7	6.79	1848	19.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B- 6	3 x 40m/VOA	Y	HCL	~~NEI/GTEL~~ SEQUOIA	TPH-Gas/BTEX/MTBE

COMMENTS: _____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-2506 Job#: 5203.80

Address: 2630 Broadway Date: 4-2-98

City: Oakland, CA Sampler: F. Cline

Well ID B- 7 Well Condition: okay

Well Diameter 2" in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 19' ft.

Depth to Water 4.32 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

14.68 X VF 0.17 = 2.5 X 3 (case volume) = Estimated Purge Volume: 7.5 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; (Suction); Grundfos; Other:

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other:

Starting Time: 10:13 Weather Conditions: cloudy cool

Sampling Time: 10:21 Water Color: clear Odor: none

Purging Flow Rate: 1.4 gpm. Sediment Description: N/a

Did well de-water? If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1015	2.8	6.72	1690	18.9			
1017	5.6	6.80	1514	19.1			
1019	8.4	6.82	1506	19.2			
1021	9.0	6.81	1498	19.1			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B- 7	3 x 40m/VOA	Y	HCL	~~NEWTEL~~ SEQUOIA	TPH-Gas/BTEX/MTBE

COMMENTS:

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-2506 Job#: 5203.80

Address: 2630 Broadway Date: 4-8-98

City: Oakland, CA Sampler: F.Cline

Well ID B- 8 Well Condition: Okay

Well Diameter 2" in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 18' ft.

Depth to Water 4.22 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

13.78 X VF 6.17 = 23 X 3 (case volume) = Estimated Purge Volume: 70 (gal.)

Purge Equipment:
- Disposable Bailer
- Bailer
- Stack
- (Suction)
- Grundfos
- Other:

Sampling Equipment:
- (Disposable Bailer)
- Bailer
- Pressure Bailer
- Grab Sample
- Other:

Starting Time: 1505 Weather Conditions: Cloudy (Cool)

Sampling Time: 1513 Water Color: Clear Odor: None

Purging Flow Rate: 1.2 gpm. Sediment Description: None

Did well de-water? No If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1507	2.4	6.79	1268	17.6			
1509	4.8	6.79	510	18.0			
1511	7.2	6.79	526	18.1			
1513	8.0	6.80	520	18.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B- 8	3 x 40m/VOA	Y	HCL	~~NEI/GTEL~~ SEQUOIA	TPH-Gas/BTEX/MTBE

COMMENTS:

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-2506 Job#: 5203.80

Address: 2630 Broadway Date: 4-2-98

City: Oakland, CA Sampler: F. Cline

Well ID B- 9 Well Condition: Okay

Well Diameter 2" in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 19' ft.

Depth to Water 7.93 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

11.07 X VF 0.17 = 1.88 X 3 (case volume) = Estimated Purge Volume: 5.6 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; (Suction); Grundfos; Other:

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other:

Starting Time: 15:28 Weather Conditions: cloudy cool

Sampling Time: 15:36 Water Color: clear Odor: Mild

Purging Flow Rate: 1 gpm. Sediment Description: N/A

Did well de-water? No. If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
15:30	2	6.73	1895	20.1			
15:32	4	6.66	1884	20.3			
15:34	6	6.64	1890	20.5			
15:36	7	6.65	1889	20.4			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B- 9	3 x 40m/VOA	Y	HCL	~~NCI/GTEL~~ SEQUOIA	TPH-Gas/BTEX/MTBE

COMMENTS:

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-2506 Job#: 5203.80

Address: 2630 Broadway Date: 4-2-9E

City: Oakland, CA Sampler: F.Cline

Well ID B- 10 Well Condition: Okay

Well Diameter 2" in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 19' ft.

Depth to Water 10.18 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

8.52 X VF 0.17 = 1.5 X 3 (case volume) = Estimated Purge Volume: 4.5 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; Suction; Grundfos; Other: _____

Sampling Equipment: Disposable Bailer; Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 13:50 Weather Conditions: Cloudy cool

Sampling Time: 1355 Water Color: Clear Odor: N/a

Purging Flow Rate: 1.5 gpm. Sediment Description: N/a

Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1351	1.5	6.58	390	19.0			
1352	3.0	6.83	384	18.8			
1353	4.5	6.80	378	18.9			
1355	5.0	6.81	380	18.8			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B- 10	3 x 40m/VOA	Y	HCL	~~NEI/GTEL~~ SEQUOIA	TPH-Gas/BTEX/MTBE

COMMENTS: _____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-2506 Job#: 5203.80

Address: 2630 Broadway Date: 4-2-98

City: Oakland, CA Sampler: F. Cline

Well ID B- 11 Well Condition: dry

Well Diameter 2" in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)

Total Depth 18' ft.

Depth to Water 6.93 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

11.07 X VF 0.17 = 1.8 X 3 (case volume) = Estimated Purge Volume: 5.6 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; ~~Suction~~; ~~Grundfos~~; Other: _____

Sampling Equipment: ~~Disposable Bailer~~; Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 1400 Weather Conditions: cloudy cool

Sampling Time: 1413 Water Color: clear Odor: None

Purging Flow Rate: 2 gpm. Sediment Description: None

Did well de-water? NC If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
14:11	2	6.70	232	17.7			
14:12	4	6.43	233	17.7			
14:13	6	6.40	332	17.7			
14:15	7	6.42	338	17.6			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B- 11	3 x 40m/VOA	Y	HCL	~~NEWTEL~~ SEQUOIA	TPH-Gas/BTEX/MTBE

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Chevron Facility # 9-2506 Job#: 5203.80

Address: 2630 Broadway Date: 4-2-98

City: Oakland, CA Sampler: F.Cline

Well ID B- 12 Well Condition: clay

Well Diameter 2" in. Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): — (gal.)

Total Depth 18' ft.

Depth to Water 2.14 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

15.86 x VF 0.17 2.7 X 3 (case volume) = Estimated Purge Volume: 8.1 (gal.)

Purge Equipment:
- Disposable Bailer
- Bailer
- (Stack)
- ~~Suction~~
- Grundfos
- Other: _____

Sampling Equipment:
- (Disposable Bailer)
- ~~Bailer~~
- Pressure Bailer
- Grab Sample
- Other: _____

Starting Time: 14:28 Weather Conditions: cloudy (cool)

Sampling Time: 14:36 Water Color: Clear Odor: None

Purging Flow Rate: 1.5 gpm. Sediment Description: N/a

Did well de-water? _____ If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
14:32	3	6.32	389	18.2			
14:32	6	6.53	395	17.8			
14:34	9	6.60	400	17.6			
14:36	12	6.58	399	17.7			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
B-12	3 x 40m/VOA	Y	HCL	~~NEWCTEL~~ SEQUOIA	TPH-Gas/BTEX/MTBE

COMMENTS: _____

9/97-fieldat.frm

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

Chain-of-Custody-Record

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

Chevron Facility Number #9-2506
Facility Address 2630 Broadway, Oakland, CA
Consultant Project Number 5203
Consultant Name Gettler-Ryan
Address 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name) Deanna Harding
(Phone) 551-7555 (Fax Number) 551-7888

Chevron Contact (Name) Mr. Phil Briggs
(Phone) (510) 842-9136
Laboratory Name ~~NEI/GTEL~~ SEQUOIA Service Code: ZZ02790
Laboratory Service Order # ~~9039195~~ 9090635
Samples Collected by (Name) [illegible]
Collection Date 4-2-98
Signature [signature]

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)	TPH Gas + BTEX w/MTBE (8015) (8020)	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)						Remarks
TB-LB	01	2	W	TB	–	HCl	Y	X													DO NOT BILL TB-LB ANALYSIS 9804219
B-10	02	3		G	1305			X													AP 3 5 47
B-11	03				1415			X													
B-12	04				1430			X													
B-8	05 (2)				1513			X						on Bottle Broken							
B-6	06				1524			X													
B-9	07				1536			X													
B-1	08				1552			X													
B-3	09				1609			X													
B-7	10				1620			X													
B-5	11				1630			X													

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
[signature]	G-R Inc.	4-3-98/0830	D. Harding	G-R Inc.	4/3/98
D. Harding	G-R	4/3/98	[signature]	SEQUOIA	4.3.98 4.7.??
[signature]	[illegible]	4-3-98	Received For Laboratory By (Signature): [signature]		4/3/98 1747

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

Sequoia Analytical

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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Gettler Ryan/Geostrategies
6747 Sierra Court Suite J
Dublin, CA 94568

Attention: Deanna Harding

Client Proj. ID: Chevron 9-2506, Oakland
Sample Descript: TB-LB
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9804219-01

Sampled: 04/02/98
Received: 04/03/98
Analyzed: 04/09/98
Reported: 04/16/98

QC Batch Number: GC040998802007A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	86

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-2506, Oakland	Sampled: 04/02/98
6747 Sierra Court Suite J	Sample Descript: B-1	Received: 04/03/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/98
Attention: Deanna Harding	Lab Number: 9804219-08	Reported: 04/16/98

QC Batch Number: GC040998802007A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	5000	N.D.
Methyl t-Butyl Ether	**250**	**25000**
Benzene	**50**	**110**
Toluene	50	N.D.
Ethyl Benzene	50	N.D.
Xylenes (Total)	50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-2506, Oakland	Sampled: 04/02/98
6747 Sierra Court Suite J	Sample Descript: B-3	Received: 04/03/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/98
Attention: Deanna Harding	Lab Number: 9804219-09	Reported: 04/16/98

QC Batch Number: GC040998802007A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	110
Methyl t-Butyl Ether	2.5	590
Benzene	0.50	8.3
Toluene	0.50	0.79
Ethyl Benzene	0.50	4.0
Xylenes (Total)	0.50	7.4
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	80

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-2506, Oakland	Sampled: 04/02/98
6747 Sierra Court Suite J	Sample Descript: B-5	Received: 04/03/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/98
Attention: Deanna Harding	Lab Number: 9804219-11	Reported: 04/16/98

QC Batch Number: GC040998802007A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	1000
Methyl t-Butyl Ether	2.5	470
Benzene	0.50	5.9
Toluene	0.50	2.1
Ethyl Benzene	0.50	18
Xylenes (Total)	0.50	5.1
Chromatogram Pattern:		
Gas & Unidentified HC		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	118

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-2506, Oakland	Sampled: 04/02/98
6747 Sierra Court Suite J	Sample Descript: B-6	Received: 04/03/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/98
Attention: Deanna Harding	Lab Number: 9804219-06	Reported: 04/16/98

QC Batch Number: GC040998802007A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	N.D.
Methyl t-Butyl Ether	**25**	**5800**
Benzene	**5.0**	**17**
Toluene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Xylenes (Total)	5.0	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	85

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-2506, Oakland	Sampled: 04/02/98
6747 Sierra Court Suite J	Sample Descript: B-7	Received: 04/03/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/98
Attention: Deanna Harding	Lab Number: 9804219-10	Reported: 04/16/98

QC Batch Number: GC040998802007A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	N.D.
Methyl t-Butyl Ether	**25**	**2200**
Benzene	**5.0**	**26**
Toluene	**5.0**	**1.0**
Ethyl Benzene	**5.0**	**9.0**
Xylenes (Total)	**5.0**	**20**
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	93

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-2506, Oakland	Sampled: 04/02/98
6747 Sierra Court Suite J	Sample Descript: B-8	Received: 04/03/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/98
Attention: Deanna Harding	Lab Number: 9804219-05	Reported: 04/16/98

QC Batch Number: GC040998802007A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	**2.5**	**56**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	78

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-2506, Oakland	Sampled: 04/02/98
6747 Sierra Court Suite J	Sample Descript: B-9	Received: 04/03/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/98
Attention: Deanna Harding	Lab Number: 9804219-07	Reported: 04/16/98

QC Batch Number: GC040998802007A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	2500
Methyl t-Butyl Ether	2.5	30
Benzene	0.50	93
Toluene	0.50	14
Ethyl Benzene	0.50	15
Xylenes (Total)	0.50	39
Chromatogram Pattern:		
Gas & Unidentified HC		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	92

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-2506, Oakland	Sampled: 04/02/98
6747 Sierra Court Suite J	Sample Descript: B-10	Received: 04/03/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/98
Attention: Deanna Harding	Lab Number: 9804219-02	Reported: 04/16/98

QC Batch Number: GC040998802007A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	82

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-2506, Oakland	Sampled: 04/02/98
6747 Sierra Court Suite J	Sample Descript: B-11	Received: 04/03/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/98
Attention: Deanna Harding	Lab Number: 9804219-03	Reported: 04/16/98

QC Batch Number: GC040998802007A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	77

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-2506, Oakland	Sampled: 04/02/98
6747 Sierra Court Suite J	Sample Descript: B-12	Received: 04/03/98
Dublin, CA 94568	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 04/09/98
Attention: Deanna Harding	Lab Number: 9804219-04	Reported: 04/16/98

QC Batch Number: GC040998802007A
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**110**
Methyl t-Butyl Ether	**2.5**	**12**
Benzene	**0.50**	**1.2**
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Unidentified HC		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	85

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

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Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-2506, Oakland	Received: 04/03/98
6747 Sierra Court Suite J		
Dublin, CA 94568	Lab Proj. ID: 9804219	Reported: 04/16/98
Attention: Deanna Harding		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 14 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPGBMW: Sample 9804219-06 was diluted 10-fold.
Sample 9804219-08 was diluted 100-fold.
Sample 9804219-10 was diluted 10-fold.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Sequoia Analytical

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Gettler Ryan/Geostrategies
6747 Sierra Court, Ste J
Dublin, CA 94568
Attention: Deanna Harding

Client Project ID: Chevron 9-2506, Oakland
Matrix: Liquid
Work Order #: 9804219 -01-11
Reported: Apr 17, 1998

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC040998802007A	GC040998802007A	GC040998802007A	GC040998802007A	GC040998802007A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	S.L.	S.L.	S.L.	S.L.	S.L.
MS/MSD #:	98040094	98040094	98040094	98040094	-
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	-
Prepared Date:	4/9/98	4/9/98	4/9/98	4/9/98	-
Analyzed Date:	4/9/98	4/9/98	4/9/98	4/9/98	-
Instrument I.D.#:	GC7	GC7	GC7	GC7	-
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	-
Result:	17	16	18	54	-
MS % Recovery:	85	80	90	90	-
Dup. Result:	21	21	22	68	-
MSD % Recov.:	105	65	110	113	-
RPD:	21	27	20	23	-
RPD Limit:	0-25	0-25	0-25	0-25	-
LCS #:	LCS040998	LCS040998	LCS040998	LCS040998	LCS040998
Prepared Date:	4/9/98	4/9/98	4/9/98	4/9/98	4/9/98
Analyzed Date:	4/9/98	4/9/98	4/9/98	4/9/98	4/9/98
Instrument I.D.#:	GC7	GC7	GC7	GC7	GC7
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	500 µg/L
LCS Result:	22	22	23	70	468
LCS % Recov.:	110	110	115	117	94
MS/MSD Control Limits	60-140	60-140	60-140	60-140	60-140
LCS Control Limits	70-130	70-130	70-130	70-130	70-130

SEQUOIA ANALYTICAL
Elap #2142

Mike Gregory
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference