



Chevron

February 16, 1996

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

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

Mark A. Miller
SAR Engineer
Phone No. 510 842-8134
Fax No. 510 842-8252

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

Dear Ms. Eberle:

Enclosed is the Quarterly Groundwater Sampling Report dated January 26, 1996, prepared by our consultant Gettler-Ryan, Inc. for the above referenced site. Ground water samples collected were analyzed for total petroleum hydrocarbons as gasoline and BTEX. ~~As previously agreed, monitoring and sampling of wells B-2 and B-4 has been suspended.~~ Dissolved concentrations of these constituents observed during this sampling event are consistent with historical results. Depth to ground water was measured at approximately 6.5 to 10.4 feet below grade. ~~The site appears to lie on a ground water divide with gradient flowing to the northwest and southeast.~~

It appears that the extent of the dissolved hydrocarbon plume has been defined with the exception of the up gradient extent in the vicinity of B-9. The source of hydrocarbons observed in this well is unknown. Chevron will continue the monitoring and sampling program at this site and report findings on a quarterly basis.

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: Ms. Y.M. Byeman



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GETTLER-RYAN INC.

January 26, 1996

Job #5203.80

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

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

Dear Mr. Miller:

This report documents the quarterly groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On December 22, 1995, field personnel were on-site to gauge and sample ten wells (B-1, B-3, B-5 through B-12) at Chevron Service Station #9-2506 located at 2630 Broadway in Oakland, California.

Static groundwater levels were measured on December 22 1995. All wells were checked for the presence of separate-phase hydrocarbons. Separate-phase hydrocarbons were not present in any of the site wells. Static water level data and groundwater elevations are presented in Table 1. A potentiometric map is included as Figure 1.

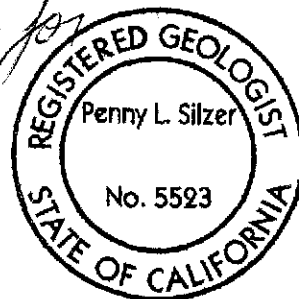
Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Quarterly Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by GTEL Environmental Laboratories, Inc. Analytical results are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

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

Sincerely,

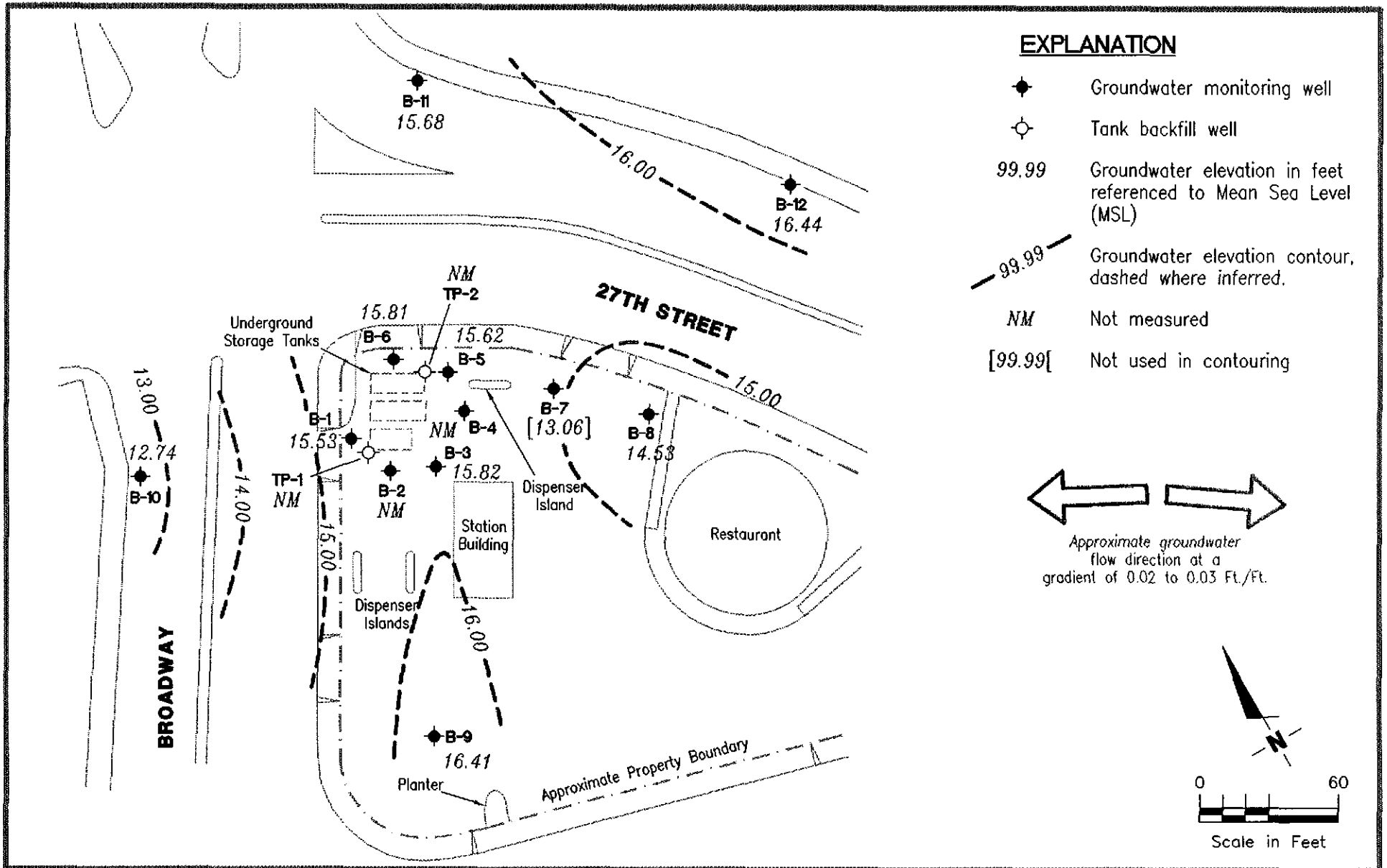
Greg A. Gurss
Greg A. Gurss
Project Manager

Penny L. Silzer
Penny L. Silzer
Senior Geologist, R.G. No. 5523



GAG/PLS/dlh
5203.QML

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



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

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

FIGURE

1

JOB NUMBER
5203

REVIEWED BY

DATE

December 22, 1995

REVISED DATE



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)	Product				MTBE	
						B	T	E	X		
						←-----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	
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	—	
12/2/93		5.70	16.08	0	9,800	790	870	380	1,500	—	
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	—	



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 (mal)	Product Thickness* (ft)	TPH(G)	←-----ppb----->					
						B	T	E	X	MTBE	
B-3/24.35 ⁵ (cont)	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	
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	---
9/21/95		9.10	15.13	0	3,500 ⁶	300	30	260	330	---	
12/22/95		8.61	15.62	0	6,500 ⁹	370	120	400	870	5,500	
B-6/ 22.03 ¹	3/18/82	7.56	14.47	0	---	---	---	---	---	---	
	3/25/82	6.08	15.95	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)	←-----ppb----->					
						B	T	E	X	MTBE	
B-6 (cont)	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	---	
24.72 ³	9/15/94	9.94	12.09	0	6,400	900	24	490	620	---	
	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	
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	---
		6/5/95	5.79	16.43	0	65	<0.5	<0.5	<0.5	<0.5	---
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		
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	---	



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 (mal)	Product Thickness* (ft)	TPH(G)	←-----ppb----->				MTBE
						B	T	E	X	
B-8	6/10/94	5.63	12.86	0	<50	<0.5	<0.5	<0.5	<0.5	—
(cont)	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
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
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
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
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



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)	←-----ppb----->				
						B	T	E	X	MTBE
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-Lab 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
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:

DTW = Depth to water
TOC = Top of casing elevation
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 analytic 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.
- 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.



STANDARD OPERATING PROCEDURE QUARTERLY GROUNDWATER SAMPLING

Gettler-Ryan 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 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 analytic 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, preservative (if any), and the sample collector's initials. The water samples are placed in cooler maintained at 4 C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivery 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 USA Products Company, the purge and decontamination water generated during sampling activities is taken to Chevron's Richmond Refinery for disposal.

WELL SAMPLING FIELD DATA SHEET

SAMPLER Fitchie DATE 12-21-95
 ADDRESS 2630 Broadway JOB # 520385
 CITY Oakland CA SS# 9-2506

Well ID B-1 Well Condition dry
 Well Location Description _____

Well Diameter 2" in Hydrocarbon Thickness 0
 Total Depth 29.04 ft

Depth to Liquid 16.14 ft

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

of casing 3x Volume 18.90 x 0.17 x (VF) Oil #Estimated 9.6 gal. purge Volume

Purge Equipment Suction Sampling Equipment Boiler

Did well dewater MC Yes If yes, Time 1301 Volume 5

Starting Time 11:57 Purging Flow Rate 1.6 gpm.
 Sampling Time 1206:35

Time	pH	Conductivity	Temperature	Volume
<u>1159</u>	<u>7.10</u>	<u>470</u>	<u>18.7</u>	<u>3.2</u>
<u>1201</u>	<u>7.84</u>	<u>488</u>	<u>19.8</u>	<u>6.4</u>
<u>1203</u>				<u>9.6</u>
<u>1206</u>	<u>6.53</u>	<u>495</u>	<u>19.5</u>	<u>10.0</u>

Weather Conditions Rainy
 Water Color: Clear Odor: Milk
 Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-1</u>	<u>3x40ml VCN</u>	<u>Y</u>	<u>ML</u>	<u>COTBL</u>	<u>Gas Benz MTBE</u>

Comments _____

(9)

WELL SAMPLING FIELD DATA SHEET

SAMPLER Fiche DATE 12-21-95
 ADDRESS 2630 Broadway JOB # 520385
 CITY Oakland CA SS# 9-2506

Well ID B-3 Well Condition okay
 Well Location Description _____

Well Diameter 2" in
 Total Depth 1818 ft
 Depth to Liquid 8.53 ft

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

of casing 3x 10127 x 0.17 x (VF) 1.7 #Estimated 512 gal.
 Purge Equipment Suction Sampling Equipment Bailer
 Did well dewater Yes If yes, Time 12:31 Volume 3 1/2

Starting Time 12:09 Purging Flow Rate 1 gpm.
 Sampling Time _____

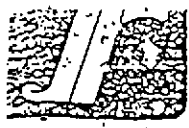
Time	pH	Conductivity	Temperature	Volume
<u>12:11</u>	<u>6.10</u>	<u>588</u>	<u>17.7</u>	<u>2</u>
<u>12:12</u>	<u>6.92</u>	<u>516</u>	<u>18.3</u>	<u>4 3/4</u>
<u>12:40</u>	<u>6.90</u>	<u>581</u>	<u>18.10</u>	<u>6 1/2</u>

Weather Conditions Rainy
 Water Color: grey Odor: Mild
 Sediment Description Light Brown

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-3</u>	<u>3x40ml VCM</u>	<u>Y</u>	<u>HCL</u>	<u>GTBL</u>	<u>Gas BIVE MTRB</u>

Comments _____



(9)

WELL SAMPLING FIELD DATA SHEET

SAMPLER FiChie DATE 12-21-95
 ADDRESS 2630 Broadway JOB # 520385
 CITY Oakland CA SS# 9-2506

Well ID B-5 Well Condition Okay
 Well Location Description _____

Well Diameter 2" in
 Total Depth 18.98 ft
 Depth to Liquid 8.01 ft

Hydrocarbon Thickness 0

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

of casing 3x Volume 10.37 x 0.17 x (VF) 1.76 #Estimated 5.3 gal.
 Purge Equipment Suction Sampling Equipment Barler purge Volume _____

Did well dewater Yes If yes, Time 12:22 Volume 3 1/2

Starting Time 12:21 Purging Flow Rate 1 gpm.
 Sampling Time 12:45

Time	pH	Conductivity	Temperature	Volume
<u>12:20</u>	<u>6.85</u>	<u>513</u>	<u>18.6</u>	<u>2</u>
<u>12:22</u>	<u>6.84</u>	<u>567</u>	<u>19.1</u>	<u>3 1/2</u>
<u>12:45</u>	<u>6.80</u>	<u>568</u>	<u>19.0</u>	<u>4.5</u>

Weather Conditions Rainy
 Water Color: Clear Odor: Strong
 Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Ratig	Preservative Type	Lab	Analysis
<u>B-5</u>	<u>3x40ml VCN</u>	<u>Y</u>	<u>HCL</u>	<u>COTEL</u>	<u>Gas BIVE MTBE</u>

Comments _____

(9)

WELL SAMPLING FIELD DATA SHEET

SAMPLER FiChie DATE 12-21-95
 ADDRESS 2030 Broadway JOB # 520385
 CITY Oakland CA SS# 9-2506

Well ID B-6 Well Condition okay
 Well Location Description _____

Well Diameter 2" in Hydrocarbon Thickness 0
 Total Depth 19.40 ft

Depth to Liquid 8.91 ft

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

of casing 3x Volume 10.49 x Oil x (VF) 1.8 #Estimated 5.4 gal.
 Purge Equipment Suction Sampling Equipment Bailer #Estimated 5.4 gal.
 Did well dewater Yes If yes, Time 1:39 Volume 5

Purge Equipment Suction Sampling Equipment Bailer

Did well dewater Yes If yes, Time 1:39 Volume 5

Starting Time 11:35 Purging Flow Rate 1 gpm.
 Sampling Time 12:30

Time	pH	Conductivity	Temperature	Volume
<u>11:37</u>	<u>6.6</u>	<u>573</u>	<u>19.0</u>	<u>3</u>
<u>11:39</u>	<u>6.65</u>	<u>561</u>	<u>19.2</u>	<u>4</u>
<u>11:44</u>	<u>6.65</u>	<u>563</u>	<u>19.2</u>	<u>6</u>
<u>12:30</u>	<u>6.65</u>	<u>563</u>	<u>19.2</u>	<u>7</u>

Weather Conditions Rainy
 Water Color: clear Odor: None
 Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-6</u>	<u>3x40m PVC</u>	<u>Y</u>	<u>HE</u>	<u>COTEL</u>	<u>Gas BTEX MTBE</u>

Comments _____



(9)

WELL SAMPLING FIELD DATA SHEET

SAMPLER Fi-Chlor DATE 12-21-95
 ADDRESS 2630 Broadway JOB # 520385
 CITY Oakland CA SS# 9-2506

Well ID B-7 Well Condition okay
 Well Location Description _____

Well Diameter 2" in
 Total Depth 19.31 ft
 Depth to Liquid 9.16 ft
 # of casing 3x
 Volume 10.15 x 0.17

Hydrocarbon Thickness 0

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

x(VF) 1.17 #Estimated 511 gal. purge Volume

Purge Equipment Suction Sampling Equipment Bailer
 Did well dewater NO If yes, Time _____ Volume _____

Starting Time 11:25 Purging Flow Rate 1 gpm.
 Sampling Time 11:35

Time	pH	Conductivity	Temperature	Volume
<u>11:27</u>	<u>6.80</u>	<u>502</u>	<u>18.3</u>	<u>2</u>
<u>11:29</u>	<u>6.69</u>	<u>501</u>	<u>19.7</u>	<u>4</u>
<u>11:31</u>	<u>6.62</u>	<u>503</u>	<u>19.8</u>	<u>6</u>
<u>11:35</u>	<u>6.463</u>	<u>505</u>	<u>19.7</u>	<u>7</u>

Weather Conditions Rainy
 Water Color: clear Odor: None
 Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-7</u>	<u>3x40ml VOA</u>	<u>Y</u>	<u>HCL</u>	<u>GTBL</u>	<u>CO2S BIVE MTBE</u>

Comments _____

(9)

WELL SAMPLING FIELD DATA SHEET

SAMPLER FiChiz DATE 12-21-95
 ADDRESS 2630 Broadway JOB # 520385
 CITY Oakland CA SS# 9-2506

Well ID B-8 Well Condition Okay
 Well Location Description _____

Well Diameter 2" in Hydrocarbon Thickness Ø
 Total Depth 180 ft
 Depth to Liquid 6.48 ft

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

of casing 3x Volume 11.52 x 0.17 x (VF) 1.9 #Estimated purge Volume 5.8 gal.

Purge Equipment Suction Sampling Equipment Boiler
 Did well dewater No If yes, Time _____ Volume _____

Starting Time 11:12 Purging Flow Rate 1 gpm.
 Sampling Time 11:21

Time	pH	Conductivity	Temperature	Volume
<u>11:14</u>	<u>6.57</u>	<u>572</u>	<u>16.6</u>	<u>2</u>
<u>11:16</u>	<u>6.55</u>	<u>577</u>	<u>18.16</u>	<u>4</u>
<u>11:18</u>	<u>6.56</u>	<u>576</u>	<u>18.3</u>	<u>6</u>
<u>11:21</u>	<u>6.56</u>	<u>578</u>		

Weather Conditions Rainy
 Water Color: Clear Odor: None
 Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-8</u>	<u>3x40ml VCN</u>	<u>Y</u>	<u>HEC</u>	<u>COTEL</u>	<u>COAS BIXE MTBB</u>

Comments _____

(9)

WELL SAMPLING FIELD DATA SHEET

SAMPLER FiChie DATE 12-21-95
 ADDRESS 2030 Broadway JOB # 520385
 CITY Oakland CA SS# 9-2506

Well ID B-9 Well Condition dry
 Well Location Description _____

Well Diameter 2" in
 Total Depth 1890 ft
 Depth to Liquid 9.70 ft

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

of casing 3x 9.70 x Oakl x (VF) 1.6 #Estimated 4.9 gal.
 Purge Equipment Suction Sampling Equipment Bailer Volume _____

Did well dewater No If yes, Time _____ Volume _____

Starting Time 11:48 Purging Flow Rate 1.5 gpm.
 Sampling Time 11:54

Time	pH	Conductivity	Temperature	Volume
<u>11:49</u>	<u>6.89</u>	<u>71.6</u>	<u>16.4</u>	<u>1.0</u>
<u>11:50</u>	<u>6.60</u>	<u>75.4</u>	<u>19.20.4</u>	<u>3.0</u>
<u>11:51</u>	<u>6.59</u>	<u>75.5</u>	<u>20.4</u>	<u>4.5</u>
<u>11:54</u>	<u>6.61</u>	<u>75.6</u>	<u>20.3</u>	<u>6.5</u>

Weather Conditions Rainy
 Water Color: Clear Odor: Mild
 Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-9</u>	<u>3x40ml VCM</u>	<u>Y</u>	<u>HCL</u>	<u>COTEL</u>	<u>Gas BTEX MTBE</u>

Comments _____



(9)

WELL SAMPLING FIELD DATA SHEET

SAMPLER FiChie DATE 12-21-95
 ADDRESS 2630 Broadway JOB # 520385
 CITY Oakland CA SS# 9-2506

Well ID B-10 Well Condition clay
 Well Location Description _____

Well Diameter 2" in Hydrocarbon Thickness 0
 Total Depth 18.95 ft

Depth to Liquid 10.41 ft

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

of casing 3x Volume 8.54 x 0.17 x(VF) 7.5 #Estimated purge Volume 4.12 gal.

Purge Equipment Suction Sampling Equipment Bailer

Did well dewater NO If yes, Time _____ Volume _____

Starting Time 10:24 Purging Flow Rate _____ gpm.
 Sampling Time 10:30

Time	pH	Conductivity	Temperature	Volume
<u>10:25</u>	<u>6.47</u>	<u>346</u>	<u>16.2</u>	<u>1.5</u>
<u>10:26</u>	<u>6.50</u>	<u>349</u>	<u>18.15</u>	<u>3.0</u>
<u>10:27</u>	<u>6.54</u>	<u>348</u>	<u>18.13</u>	<u>4.0</u>
<u>10:30</u>	<u>6.23</u>	<u>349</u>	<u>18.4</u>	<u>5.0</u>

Weather Conditions Rainy
 Water Color: Brown Odor: None
 Sediment Description Light Silt

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-10</u>	<u>3x40ml VCM</u>	<u>Y</u>	<u>HCL</u>	<u>GTBL</u>	<u>Gas BTEX MTBE</u>

Comments _____

(9)

WELL SAMPLING FIELD DATA SHEET

SAMPLER FiChiz DATE 12-21-95

ADDRESS 2630 Broadway JOB # 520385

CITY Oakland CA SS# 9-2506

Well ID B-11 Well Condition okay

Well Location Description _____

Well Diameter 2" in Hydrocarbon Thickness 0

Total Depth 18.21 ft

Depth to Liquid 9.55 ft

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

of casing 3x 8.666 x 0.17 x (VF) 1.5 #Estimated 4.5 gal. purge Volume

Purge Equipment Suction Sampling Equipment Barler

Did well dewater No. If yes, Time _____ Volume _____

Starting Time 10:05 Purging Flow Rate _____ gpm.

Sampling Time 10:11

Time	pH	Conductivity	Temperature	Volume
<u>10:06</u>	<u>6.55</u>	<u>316</u>	<u>16.1</u>	<u>1.5</u>
<u>10:07</u>	<u>6.40</u>	<u>321</u>	<u>17.8</u>	<u>3.0</u>
<u>10:08</u>	<u>6.43</u>	<u>323</u>	<u>18.0</u>	<u>4.5</u>
<u>10:11</u>	<u>6.45</u>	<u>323</u>	<u>17.9</u>	<u>5.0</u>

Weather Conditions Rainy

Water Color: Brown Odor: None

Sediment Description Light Silt

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-11</u>	<u>3x40ml VOA</u>	<u>Y</u>	<u>ML</u>	<u>COTEL</u>	<u>Gas Benz MTBE</u>

Comments _____

(9)

WELL SAMPLING FIELD DATA SHEET

SAMPLER FiChie DATE 12-21-95

ADDRESS 2630 Broadway JOB # 520385

CITY Oakland CA SS# 9-2506

Well ID B-12 B-12 Well Condition OK

Well Location Description _____

Well Diameter 2" in Hydrocarbon Thickness 0

Total Depth 18.04 ft

Depth to Liquid 3.96 ft

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

of casing 3x Volume 14.08 x 0.17 x(VF) 2.4 #Estimated 7.2 gal. purge Volume

Purge Equipment Suction Sampling Equipment Barter

Did well dewater No If yes, Time _____ Volume _____

Starting Time 9:46 Purging Flow Rate 112 gpm.

Sampling Time 9:57

Time	pH	Conductivity	Temperature	Volume
<u>9:48</u>	<u>6.83</u>	<u>355</u>	<u>13.6</u>	<u>2.4</u>
<u>9:50</u>	<u>6.69</u>	<u>361</u>	<u>16.5</u>	<u>4.8</u>
<u>9:52</u>	<u>6.68</u>	<u>370</u>	<u>16.3</u>	<u>7.2</u>
<u>9:57</u>	<u>6.65</u>	<u>368</u>	<u>16.1</u>	<u>8.0</u>

Weather Conditions Rainy

Water Color: Clear Odor: N/A

Sediment Description None

LABORATORY INFORMATION

Sample ID	Container	Refrig	Preservative Type	Lab	Analysis
<u>B-12</u>	<u>3x40ml VOM</u>	<u>Y</u>	<u>HCL</u>	<u>COTEL</u>	<u>COAS BIXZ MTCB</u>

Comments _____

316 945 0506:# 8

WALNUT CREEK

: 1-16-96 : 13:53

SENT BY: SEQUOIA ANALYTICAL

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
Consultant Project Number 5203.85
Consultant Name Gettler-Ryan
Address 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name) Deanna Harding
(Phone) 510 551-7555 (Fax Number) 510 551-7888

Chevron Contact (Name) Mark Miller
(Phone) 842-8134
Laboratory Name GTEL
Laboratory Release Number 3971000
Samples Collected by (Name) F. Ching
Collection Date 12-22-95
Signature HAW

Sample Number	Lab Sample Number	Number of Containers	Media 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										DO NOT BILL TB-LB ANALY
								TPH Gas + STEK w/MTBE (8018)	TPH Diesel (8015)	Oil and Grease (8520)	Purgeable Halocarbons (8810)	Purgeable Aromatics (8820)	Purgeable Organics (8840)	Extractable Organics (8870)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)	AMENDED COC	Remarks	
TB-43		2	W	TB		MLL	Y	A							5122277	A, B		
B-12		3		G	957										5122278	A-C		
B-11					1011										5122279			
B-10					1030										5122280			
B-8					1121										5122281			
B-7					1135										5122282			
B-6					1230										5122283			
B-9					1154										5122284			
B-1					1235										5122285			
B-3					1240										5122286			
B-5					1245										5122287	V		

Relinquished By (Signature) <i>HAW</i>	Organization <u>GTEL</u>	Date/Time <u>12-22-95 13:47</u>	Received By (Signature) <i>John Weber</i>	Organization <u>GTEL</u>	Date/Time 13:47 <u>12-22-95</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature) <i>John Weber</i>	Organization <u>GTEL</u>	Date/Time <u>12-22-95</u>	Received By (Signature)	Organization	Date/Time	
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature) <i>Karin Molaugh</i>		Date/Time 17:20 <u>12/22/95</u>	

Chevron U.S.A. Inc.
P.O. BOX 500
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number: 9-2506
Facility Address: 2630 Broadway Oakland
Chevron Contact (Name): Mark Miller
(Phone): 842-8134

Consultant Project Number: 5203.85
Laboratory Name: GTEL
Consultant Name: Gettler-Ryan
Laboratory Release Number: 3971000
Address: 6747 Sierra Ct, Ste J, Dublin 94568
Samples Collected by (Name): R. Chne
Project Contact (Name): Deanna Harding
Collection Date: 12-22-95
(Phone) 510-551-7555 (Fax Number) 510-551-7888
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	Iced (Yes or No)	Analyses To Be Performed										DO NOT BILL TB-LB ANALYSIS	Remarks
								TPH Gas + BTEX w/MIB (801E)	TPH Diesel (801S)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd, Cr, Pb, Zn, Ni (ICAP or AA)				
TB-43	01	2	W	TB		HCL	Y	A											
1B-12	02	3		G	957														
B-11	03				1011														
B-10	04				1030														
B-8	05				1121														
B-7	06				1135														
B-6	07				1230														
B-9	08				1154														
B-1	09				1235														
B-3	10				1240														
B-5	11				1245														

Relinquished By (Signature): <u>[Signature]</u>	Organization: <u>CR</u>	Date/Time: <u>12-22-95 13:15</u>	Received By (Signature): <u>Deen Weer</u>	Organization: <u>GTEL</u>	Date/Time: <u>12-22-95 13:47</u>	Turn Around Time (Circle Choice) 24 Hrs. 48 Hrs. 5 Days 10 Days <u>As Contracted</u>
Relinquished By (Signature): <u>Deen Weer</u>	Organization: <u>GTEL</u>	Date/Time: <u>12-22-95</u>	Received By (Signature):	Organization:	Date/Time:	
Relinquished By (Signature):	Organization:	Date/Time:	Received For Laboratory By (Signature): <u>Kevin Polanski</u>	Organization:	Date/Time: <u>12/22/95</u>	

COC-3.DWG/03 01/HCH



GTEL

ENVIRONMENTAL
LABORATORIES, INC.

Midwest Region
4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

Project Number: 5203.85
Chevron SS
#9-2506
2630 Broadway
Oakland, CA

Work Order Number: W6-01-0017

January 17, 1996

Deanna Harding
Gettler-Ryan
6747 Sierra Ct.
Suite J
Dublin, CA 94568

RECEIVED

JAN 31 1996

GETTLER-RYAN INC.
GENERAL CONTRACTORS

Dear Deanna Harding:

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories on 12-22-95 under your chain-of-custody record.

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

GTEL is certified by the Department of California Health Services under Certification Number 1845.

If you have any questions concerning this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

Justin Wars, Project Coordinator for
Terry R. Loucks
Laboratory Director

GTEL Wichita, Ks



GTEL (Wichita) 4211 May Ave. Wichita, KS 67209 Attention: Justin Ward	Client Project ID: Chevron #9-2506 Sample Matrix: Water Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 512-2277	Sampled: Dec 22, 1995 Received: Dec 22, 1995 Reported: Jan 16, 1996
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QC Batch Number:	GC010396	GC010396	GC010396	GC010396	GC010396	GC010396
	802002A	802002A	802002A	802002A	802002A	802002A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 512-2277 TB-LB	Sample I.D. 512-2278 B-12	Sample I.D. 512-2279 B-11	Sample I.D. 512-2280 B-10	Sample I.D. 512-2281 B-8	Sample I.D. 512-2282 B-7
Purgeable Hydrocarbons	50	N.D.	140	N.D.	N.D.	N.D.	N.D.
Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.50	N.D.	0.93	N.D.	N.D.	N.D.	N.D.

Chromatogram Pattern: -- Gasoline & Unidentified Hydrocarbons >C8 -- -- -- --

Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	10
Date Analyzed:	1/3/96	1/3/96	1/3/96	1/3/96	1/3/96	1/3/96
Instrument Identification:	HP-2	HP-2	HP-2	HP-2	HP-2	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	105	100	100	95	101	92

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
 Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271


 Kenneth L. Wimer
 Project Manager



Sequoia Analytical

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GTEL (Wichita) 4211 May Ave. Wichita, KS 67209 Attention: Justin Ward	Client Project ID: Chevron #9-2506 Sample Matrix: Water Analysis Method: EPA 5030/8015 Mod./8020 First Sample #: 512-2283	Sampled: Dec 22, 1995 Received: Dec 22, 1995 Reported: Jan 16, 1996
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QC Batch Number: GC010896 GC010996 GC011096 GC010396 GC011396

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

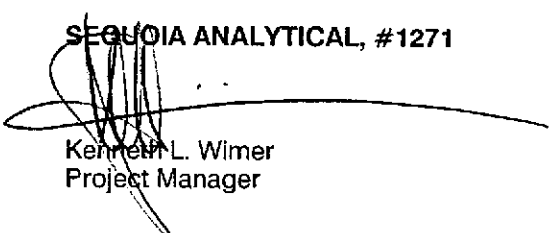
Analyte	Reporting Limit µg/L	Sample I.D. 512-2283 B-6	Sample I.D. 512-2284 B-9	Sample I.D. 512-2285 B-1	Sample I.D. 512-2286 B-3	Sample I.D. 512-2287 B-5
Purgeable Hydrocarbons	50	N.D.	1,800	N.D.	5,400	6,500
Benzene	0.50	N.D.	170	N.D.	340	370
Toluène	0.50	N.D.	6.6	N.D.	37	120
Ethyl Benzene	0.50	N.D.	59	N.D.	150	400
Total Xylenes	0.50	N.D.	20	N.D.	450	870
Chromatogram Pattern:	--	Gasoline	--	Gasoline & Discrete Peaks	Gasoline & Discrete Peaks	

Quality Control Data

Report Limit Multiplication Factor:	40	10	10	40	50
Date Analyzed:	1/8/96	1/9/96	1/10/96	1/10/96	1/13/96
Instrument Identification:	HP-4	HP-2	HP-2	HP-2	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	107	115	103	107	91

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
 Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271


 Kenneth L. Wimer
 Project Manager



GTEL (Wichita)
4211 May Ave.
Wichita, KS 67209
Attention: Justin Ward

Client Project ID: Chevron #9-2506
Sample Descript: Water
Analysis for: MTBE (Modified EPA 8020)
First Sample #: 512-2277

Sampled: Dec 22, 1995
Received: Dec 22, 1995
Analyzed: Jan 3-13, 1996
Reported: Jan 16, 1996

LABORATORY ANALYSIS FOR: MTBE (Modified EPA 8020)

Sample Number	Sample Description	Detection Limit $\mu\text{g/L}$	Sample Result $\mu\text{g/L}$	QC Batch Number	Instrument ID
512-2277	TB-LB	0.60	N.D.	GC010396802002A	HP-2
512-2278	B-12	0.60	N.D.	GC010396802002A	HP-2
512-2279	B-11	0.60	N.D.	GC010396802002A	HP-2
512-2280	B-10	0.60	N.D.	GC010396802002A	HP-2
512-2281	B-8	0.60	190	GC010396802002A	HP-2
512-2282	B-7	6.0	930	GC010396802002A	HP-2
512-2283	B-6	24	15,000	GC010896802004A	HP-4
512-2284	B-9	6.0	N.D.	GC010996802002A	HP-2
512-2285	B-1	60	40,000	GC011096802002A	HP-2
512-2286	B-3	24	8,600	GC011096802002A	HP-2
512-2287	B-5	30	5,500	GC011396802005A	HP-5

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

SEQUOIA ANALYTICAL, #1271


Kenneth L. Wimer
Project Manager



GTEL (Wichita)
4211 May Ave.
Wichita, KS 67209
Attention: Justin Ward

Client Project ID: Chevron #9-2506
Matrix: Liquid

QC Sample Group: 512277-287

Reported: Jan 22, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC010396 802002A	GC010396 802002A	GC010396 802002A	GC010396 802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	D. Sharma	D. Sharma	D. Sharma	D. Sharma
MS/MSD #:	5122279	5122279	5122279	5122279
Sample Conc.:	N.D.	N.D.	N.D.	0.92 mg/L
Prepared Date:	1/3/96	1/3/96	1/3/96	1/3/96
Analyzed Date:	1/3/96	1/3/96	1/3/96	1/3/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	26	24	25	73
MS % Recovery:	130	120	125	122
Dup. Result:	23	22	23	68
MSD % Recov.:	115	110	115	113
RPD:	12	8.7	8.3	7.1
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	1LCS010396	1LCS010396	1LCS010396	1LCS010396
Prepared Date:	1/3/96	1/3/96	1/3/96	1/3/96
Analyzed Date:	1/3/96	1/3/96	1/3/96	1/3/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	22	21	22	66
LCS % Recov.:	110	106	112	109

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
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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

SEQUOIA ANALYTICAL, #1271

Kenneth L. Wimer
Project Manager



GTEL (Wichita)
4211 May Ave.
Wichita, KS 67209
Attention: Justin Ward

Client Project ID: Chevron #9-2506
Matrix: Liquid

QC Sample Group: 5122277-287

Reported: Jan 22, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC010896 802004A	GC010896 802004A	GC010896 802004A	GC010896 802004A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	D. Sharma	D. Sharma	D. Sharma	D. Sharma
MS/MSD #:	5122279	5122279	5122279	5122279
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/8/96	1/8/96	1/8/96	1/8/96
Analyzed Date:	1/8/96	1/8/96	1/8/96	1/8/96
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	20	21	21	62
MS % Recovery:	100	105	105	103
Dup. Result:	21	22	22	66
MSD % Recov.:	105	110	110	110
RPD:	4.9	4.7	4.7	6.3
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	2LCS010896	2LCS010896	2LCS010896	2LCS010896
Prepared Date:	1/8/96	1/8/96	1/8/96	1/8/96
Analyzed Date:	1/8/96	1/8/96	1/8/96	1/8/96
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	23	24	24	71
LCS % Recov.:	115	120	120	118

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
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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

SEQUOIA ANALYTICAL, #1271

Kenneth L. Wimer
Project Manager



GTEL (Wichita)
4211 May Ave.
Wichita, KS 67209
Attention: Justin Ward

Client Project ID: Chevron #9-2506
Matrix: Liquid

QC Sample Group: 5122277-287

Reported: Jan 22, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC010996 802002A	GC010996 802002A	GC010996 802002A	GC010996 802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	N. Beaman	N. Beaman	N. Beaman	N. Beaman
MS/MSD #:	5122564	5122564	5122564	5122564
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/9/96	1/9/96	1/9/96	1/9/96
Analyzed Date:	1/9/96	1/9/96	1/9/96	1/9/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	22	21	21	64
MS % Recovery:	110	105	105	107
Dup. Result:	24	23	24	71
MSD % Recov.:	120	115	120	118
RPD:	8.7	9.1	13	10
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	2LCS010996	2LCS010996	2LCS010996	2LCS010996
Prepared Date:	1/9/96	1/9/96	1/9/96	1/9/96
Analyzed Date:	1/9/96	1/9/96	1/9/96	1/9/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	22	21	21	65
LCS % Recov.:	110	105	105	108

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
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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

SEQUOIA ANALYTICAL, #1271


Kenneth L. Wimer
Project Manager



GTEL (Wichita) 4211 May Ave. Wichita, KS 67209 Attention: Justin Ward	Client Project ID: Chevron #9-2506 Matrix: Liquid QC Sample Group: 5122277-287	Reported: Jan 22, 1996
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QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC011096 802002A	GC011096 802002A	GC011096 802002A	GC011096 802002A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	S. Chullakorn	S. Chullakorn	S. Chullakorn	S. Chullakorn
MS/MSD #:	5122684	5122684	5122684	5122684
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/10/96	1/10/96	1/10/96	1/10/96
Analyzed Date:	1/10/96	1/10/96	1/10/96	1/10/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	22	21	23	66
MS % Recovery:	110	105	115	110
Dup. Result:	21	20	20	62
MSD % Recov.:	105	100	100	103
RPD:	4.7	4.9	14	6.3
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	2LCS011096	2LCS011096	2LCS011096	2LCS011096
Prepared Date:	1/10/96	1/10/96	1/10/96	1/10/96
Analyzed Date:	1/10/96	1/10/96	1/10/96	1/10/96
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	23	22	23	67
LCS % Recov.:	115	110	115	112

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
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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

SEQUOIA ANALYTICAL, #1271

Kenneth L. Wimer
Project Manager



GTEL (Wichita)
4211 May Ave.
Wichita, KS 67209
Attention: Justin Ward

Client Project ID: **Chevron #9-2506**
Matrix: **Liquid**

QC Sample Group: 5122277-287

Reported: Jan 22, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC011396 802005A	GC011396 802005A	GC011396 802005A	GC011396 802005A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	D. Sharma	D. Sharma	D. Sharma	D. Sharma
MS/MSD #:	5122693	5122693	5122693	5122693
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	1/13/96	1/13/96	1/13/96	1/13/96
Analyzed Date:	1/13/96	1/13/96	1/13/96	1/13/96
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
Result:	17	16	17	51
MS % Recovery:	85	80	85	85
Dup. Result:	23	22	22	67
MSD % Recov.:	115	110	110	112
RPD:	30	32	26	27
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	3LCS011396	3LCS011396	3LCS011396	3LCS011396
Prepared Date:	1/13/96	1/13/96	1/13/96	1/13/96
Analyzed Date:	1/13/96	1/13/96	1/13/96	1/13/96
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L
LCS Result:	19	19	19	57
LCS % Recov.:	95	95	95	95

MS/MSD LCS Control Limits	71-133	72-128	72-130	71-120
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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

SEQUOIA ANALYTICAL, #1271


Kenneth L. Wimer
Project Manager