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ENVIRONMENTAL  
PROTECTION 

**Chevron**

98 MAY 21 AM 9:03

May 18, 1998

**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

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

**Re: Former Chevron Service Station #9-0100  
2428 Central Avenue, Alameda, California**

Dear Mr. Peacock:

Enclosed is a copy of the Semi-Annual Groundwater Monitoring Report 1998 (First Quarter), that was prepared by our consultant Gettler-Ryan Inc. for the above noted site. Groundwater samples were analyzed for TPH-g, BTEX, and MtBE constituents.

The benzene constituent in monitoring well MW-1 increased from the previous sampling event, while remaining the same in well MW-2. In monitoring wells MW-3, MW-4, MW-5, and MW-6 the concentrations were below method detection levels for all constituents.

Ground water depth varied from 4.38 feet to 5.07 feet below grade with the direction of flow northeasterly.

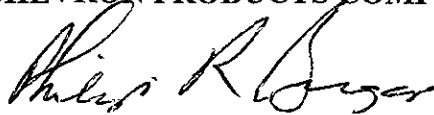
A Risk Based Corrective Action (RBCA) plan was submitted and is currently under review along with an Addendum to the RBCA, by Ms. Madhulla Logan of your office. The results from this sampling event should not effect the findings in the submitted RBCA or Addendum. Therefore, Chevron continues to state that no additional investigation is warranted and the site appears to meet the RWQCB's Interim Guidance Criteria for a low risk groundwater case. The leak and source has been stopped and removed. The site has been adequately characterized and there is minimal impact to the groundwater. The plume is limited in area and is not migrating. With the sources removed, the groundwater will not be impacted further and natural attenuation will continue to occur.

May 18, 1998  
Mr. Thomas Peacock  
Former Chevron Service Station #9-0100  
Page 2

**Therefore, Chevron request that the wells be abandoned and the site closed.**

The next sampling event is scheduled for September 1998, however, the response to the submitted RBCA may change this schedule. If you have any questions, call me at (510) 842-9136.

Sincerely,  
**CHEVRON PRODUCTS COMPANY**



Philip R. Briggs  
Site Assessment and Remediation Project Manager

Enclosure

Cc. Ms. Bette Owen, Chevron

Mr. Robert Stahl  
Stahl-Woolridge Investment Properties  
2428 Central Avenue  
Alameda, CA 94501

(Memo: Enclosed is copy of the RBCA and Addendum, and letter from Mahulla Logan, dated December 15, 1997 for your files.)



# GETTLER - RYAN INC.

May 11, 1998

Job #5178.80

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

Re: Semi-Annual 1998 Groundwater Monitoring & Sampling Report  
Former Chevron Service Station #9-0100  
2428 Central Avenue  
Alameda, CA

Dear Mr. Briggs:

This report documents the semi-annual groundwater sampling event performed by Gettler-Ryan Inc. (G-R). On March 31, 1998, field personnel were on-site to monitor and sample six wells (MW-1 through MW-6) 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.

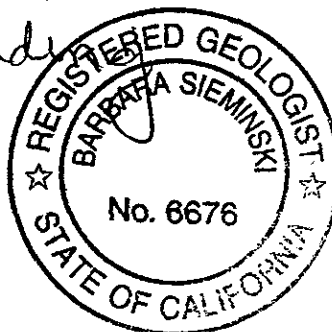
Groundwater samples were collected from the monitoring wells as specified by G-R Standard Operating Procedure - Groundwater Sampling (attached). The field data sheets for this event are also attached. The samples were analyzed by Sequoia Analytical. Results are presented in Table 1. The chain of custody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

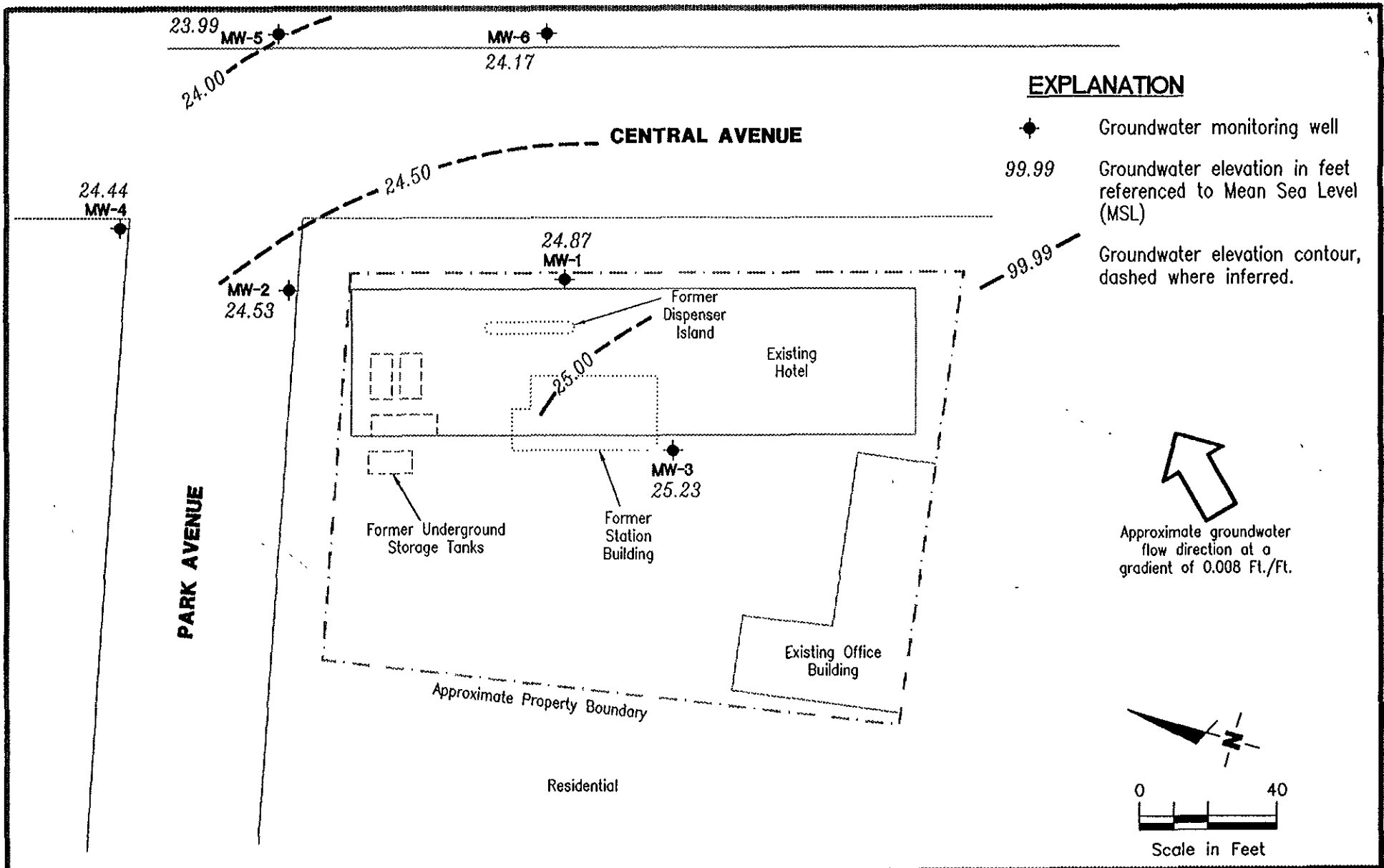
*Deanna L. Harding*  
Deanna L. Harding  
Project Coordinator

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



DLH/PLS/ah  
5178.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



**Gettler - Ryan Inc.**

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

**POTENTIOMETRIC MAP**  
Former Chevron Service Station No. 9-0100  
2428 Central Avenue  
Alameda, California

FIGURE

**1**

JOB NUMBER  
5178

REVIEWED BY

DATE  
March 31, 1998

REVISED DATE

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-0100, 2428 Central Avenue, Alameda, California

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	Concentration (ppb)				
						B	T	E	X	MTBE
MW-1/ 29.23	3/10/94 <sup>1,2</sup>	6.79	22.44	0	7,400	120	120	33	72	---
	6/21/94	7.74	21.49	0	5,300	140	60	21	43	---
	9/26/94	8.94	20.29	0	9,500	<250 <sup>s</sup>	<250 <sup>s</sup>	<250 <sup>s</sup>	<250 <sup>s</sup>	---
	12/16/94	6.57	22.66	0	4,700	<0.5	46	15	48	---
	3/22/95	5.16	24.07	0	8,800	55	14	11	<10	---
	6/13/95	5.84	23.39	0	2,100	130	29	9.5	15	---
	9/15/95	7.65	21.58	0	8,100	110	26	6.0	13	---
29.25**	3/8/96	5.36	23.87	0	5,600	250	<5.0	<5.0	<5.0	60
	9/3/96	8.03	21.22	0	7,600	270	5.6	3.4	4.9	120
	3/5/97	5.33	23.92	0	5,000	130	5.2	3.7	5.7	31
	9/30/97	8.86	20.39	0	3,500	53	2.4	2.8	6.4	26
	3/31/98	4.38	24.87	0	2,200	210	<5.0	<5.0	14	60
MW-2/ 29.18	3/10/94 <sup>2,3</sup>	6.94	22.24	0	6,400	<5	64	58	17	---
	6/21/94	7.89	21.29	0	1,800	23	12	6.9	32	---
	9/26/94	8.98	20.20	0	8,400	<100 <sup>s</sup>	<100 <sup>s</sup>	<100 <sup>s</sup>	<100 <sup>s</sup>	---
	12/16/94	6.65	22.53	0	2,300	<0.5	29	8.9	33	---
	3/22/95	5.15	24.03	0	1,500	0.6	4.5	<0.5	2.5	---
	6/13/95	6.06	23.12	0	880	<0.5	<0.5	2.2	10	---
	9/15/95	7.72	21.46	0	2,700	<0.5	17	4.8	13	---
	3/8/96	5.38	23.80	0	1,300	42	2.0	0.7	2.2	10
29.19**	9/3/96	8.14	21.05	0	2,700	64	4.6	1.6	4.6	35
	3/5/97	5.43	23.76	0	1,200	25	3.0	<0.5	3.6	<5.0
	9/30/97	9.01	20.18	0	2,400	12	1.0	1.4	5.8	6.9
	3/31/98	4.66	24.53	0	490	12	1.2	<1.0	1.2	<5.0
MW-3/ 30.09	3/10/94 <sup>2,4</sup>	7.30	22.79	0	<50	<0.5	<0.5	<0.5	<0.5	---
	6/21/94	8.53	21.56	0	<50	<0.5	<0.5	<0.5	<0.5	---
	9/26/94	9.80	20.29	0	<50	<0.5	<0.5	<0.5	<0.5	---
	12/16/94	7.11	22.98	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/22/95	5.54	24.55	0	<50	<0.5	<0.5	<0.5	<0.5	---
	6/13/95	6.48	23.61	0	<50	<0.5	<0.5	<0.5	<0.5	---
	9/15/95	8.40	21.69	0	<50	<0.5	<0.5	<0.5	<0.5	---
	3/8/96	5.69	24.40	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
30.10**	9/3/96	8.80	21.30	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/5/97	5.89	24.21	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/30/97	9.68	20.42	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/31/98	4.87	25.23	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
MW-4 29.31**	9/3/96	8.32	20.99	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/5/97	5.80	23.51	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-0100, 2428 Central Avenue, Alameda, California  
(continued)

Well ID/ TOC (ft)	Date	DTW (ft)	GWE (msl)	Product Thickness* (ft)	TPH(G)	B T E X MTBE				
						-----ppb-----				
MW-4 (cont)	9/30/97	9.18	20.13	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/31/98	4.87	24.44	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
MW-5 28.88**	9/3/96	7.90	20.98	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/5/97	5.70	23.18	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/30/97	8.73	20.15	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/31/98	4.89	23.99	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
MW-6 29.24**	9/3/96	7.98	21.26	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/5/97	5.61	23.63	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/30/97	8.88	20.36	0	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/31/98	5.07	24.17	0	<50	<0.50	<0.50	<0.50	<0.50	<2.5
Trip Blank	3/10/94	---	---	---	<50	<0.5	0.7	<0.5	<0.5	---
TB-LB	6/21/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	9/26/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	12/16/94	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	3/22/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	6/13/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	9/15/95	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	---
	3/8/96	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/3/96	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/5/97	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	9/30/97	---	---	---	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/31/98	---	---	---	<50	<0.50	<0.50	<0.50	<0.50	<2.5

Table 1. Water Level Data and Groundwater Analytical Results - Former Chevron Service Station #9-0100, 2428 Central Avenue, Alameda, California  
(continued)

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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  
TPH(D) = Total Petroleum Hydrocarbons as Diesel  
B = Benzene  
T = Toluene  
E = Ethylbenzene  
X = Xylenes  
MTBE = Methyl tertiary butyl ether  
EDB = Ethylene Dibromide  
ppb = Parts per billion  
--- = Not analyzed/Not applicable

ANALYTICAL METHODS:

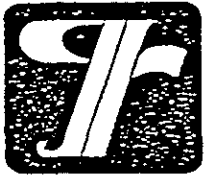
EPA Method 8015/5030 for TPH(G)  
EPA Method 8020 for BTEX & MTBE

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NOTES:

Water level elevation data and laboratory analytic results prior to March 22, 1995, were compiled from Quarterly Monitoring Reports prepared for Chevron by Sierra Environmental Services.

- \* Product thickness was measured on and after June 21, 1994 with a MMC Flexi-Dip interface probe.
- \*\* Wells MW-1 through MW-6 were surveyed on September 17, 1996, by Virgil Chavez of Vallejo, California (PLS #6323).
- <sup>1</sup> TPH(D) was also analyzed and detected at 840 ppb. However, chromatogram does not match typical diesel pattern.
- <sup>2</sup> Organic lead and EDB were also analyzed but not detected at detection limits of 4 and 0.02 ppb, respectively.
- <sup>3</sup> TPH(D) was also analyzed and detected at 920 ppb. However, chromatogram does not match typical diesel pattern.
- <sup>4</sup> TPH(D) was also analyzed but not detected at detection limits of 50 ppb.
- <sup>5</sup> Detection limits raised due to the dilution required by a high amount of foaming in the sample.



## 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 # 9-0100  
 Address: 2428 Central Avenue  
 City: Alameda, CA

Job#: 5178.80  
 Date: 3-31-98  
 Sampler: F.Cline

Well ID: MW- 1  
 Well Diameter: 2" in.  
 Total Depth: 84<sup>7</sup> ft.  
 Depth to Water: 4,38 ft.

Well Condition: okay

Hydrocarbon Thickness: 0 in. Amount Bailed: 0 (gal.)  
 Volume Factor (VF):  
 2" = 0.17      3" = 0.38      4" = 0.66  
 6" = 1.50      12" = 5.80

20132 x VF 0.17 = 3.45 x 3 (case volume) = Estimated Purge Volume: 10.4 (gal.)

Purge Equipment: Disposable Bailer-  
Stack  
 Bailer  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 14:08  
 Sampling Time: 14:16  
 Purging Flow Rate: 20 gpm.  
 Did well de-water? \_\_\_\_\_

Weather Conditions: Rainy cloudy cool  
 Water Color: clear Odor: Mild  
 Sediment Description: None  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>14:10</u>	<u>4</u>	<u>6.97</u>	<u>950</u>	<u>16.6</u>			
<u>14:16</u>	<u>8</u>	<u>6.98</u>	<u>925</u>	<u>16.6</u>			
<u>14:19</u>	<u>12</u>	<u>6.99</u>	<u>930</u>	<u>16.8</u>			
<u>14:19</u>	<u>13</u>	<u>6.98</u>	<u>928</u>	<u>16.7</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW- 1</u>	<u>3 x 40m/VOA</u>	<u>Y</u>	<u>HCL</u>	<u>NEHOTEL SEQ.</u>	<u>TPH-Gas/BTEX/MTBE</u>

COMMENTS: \_\_\_\_\_

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Chevron Facility # 9-0100  
 Address: 2428 Central Avenue  
 City: Alameda, CA

Job#: 5178.80  
 Date: 3-29-28  
 Sampler: E.Cline

Well ID MW- 2  
 Well Diameter 2" in.  
 Total Depth 23.75 ft.  
 Depth to Water 4.66 ft.

Well Condition: Okay  
 Hydrocarbon Thickness: 0 in. Amount Bailed (product/water): 0 (gal.)  
 Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66  
 6" = 1.50 12" = 5.80

19.09 x VF <sup>0.17</sup>/<sub>32</sub> = 9.7 X 3 (case volume) = Estimated Purge Volume: 9.7 (gal.)

Purge Equipment: Disposable Bailer  
Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 12:15  
 Sampling Time: 12:23  
 Purging Flow Rate: 1.7 gpm.  
 Did well de-water? \_\_\_\_\_

Weather Conditions: Clear  
 Water Color: Clear Odor: None  
 Sediment Description: None  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
12:17	3.4	6.75	773	18.0			
12:19	6.8	6.83	759	18.1			
12:21	10.2	6.83	716	18.2			
12:23	11.6	6.83	719	18.1			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 2	3 x 40m/VOA	Y	HCL	NEWTEL SEQ.	TPH-Gas/BTEX/MTBE

COMMENTS: \_\_\_\_\_

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Chevron Facility # 9-0100  
 Address: 2428 Central Avenue  
 City: Alameda, CA

Job#: 5178.80  
 Date: 3-31-88  
 Sampler: E.Cline

Well ID: MW-3 Well Condition: okay

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

Total Depth: 295 ft.

Depth to Water: 4.07 ft.

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

219.63 x VF 0.17 = 3.3 x 3 (case volume) = Estimated Purge Volume: 10.1 (gal.)

Purge Equipment: Disposable Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 1:57  
 Sampling Time: 12:05  
 Purging Flow Rate: 2 gpm.  
 Did well de-water? \_\_\_\_\_

Weather Conditions: clear, warm  
 Water Color: clear Odor: None  
 Sediment Description: None  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>11:54</u>	<u>4</u>	<u>6.81</u>	<u>315</u>	<u>18.1</u>			
<u>12:01</u>	<u>8</u>	<u>6.91</u>	<u>310</u>	<u>18.2</u>			
<u>12:03</u>	<u>12</u>	<u>6.91</u>	<u>314</u>	<u>18.2</u>			
<u>12:05</u>	<u>13</u>	<u>6.91</u>	<u>312</u>	<u>18.2</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>3 x 40m/VOA</u>	<u>Y</u>	<u>HCL</u>	<u>NEWTEL SEQ</u>	<u>TPH-Gas/BTEX/MTBE</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Chevron Facility # 9-0100  
Address: 2428 Central Avenue  
City: Alameda, CA

Job#: 5178.80  
Date: 3-30-98  
Sampler: F. Cline

Well ID MW-4  
Well Diameter 2" in.  
Total Depth 20 ft.  
Depth to Water 4187 ft.

Well Condition: okay  
Hydrocarbon Thickness: 0 in.  
Amount Bailed (product/water): C (gal.)  
Volume Factor (VF) 2" = 0.17 3" = 0.38 4" = 0.66  
6" = 1.50 12" = 5.80

15.13 X VF 0.17 = 2.6 X 3 (case volume) = Estimated Purge Volume: 7.7 (gal.)

Purge Equipment: Stack  
Disposable Bailer  
Suction  
Grundfos  
Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
Bailer  
Pressure Bailer  
Grab Sample  
Other: \_\_\_\_\_

Starting Time: 13:57  
Sampling Time: 19:03  
Purging Flow Rate: 1.5 gpm.  
Did well de-water? NC

Weather Conditions: Rainy cloudy cool  
Water Color: clear Odor: None  
Sediment Description: None  
If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
13:57	3	6.79	826	17.4			
14:01	6	6.91	827	17.9			
14:03	9	6.58	825	17.9			
14:05	10	6.56	823				

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 x 40m/VOA	Y	HCL	NETTEL SEQ.	TPH-Gas/BTEX/MTBE

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Chevron Facility # 9-0100  
 Address: 2428 Central Avenue  
 City: Alameda, CA

Job#: 5178.80  
 Date: 3-31-98  
 Sampler: E.Cline

Well ID: MW-5  
 Well Diameter: 2" in.  
 Total Depth: 21 ft.  
 Depth to Water: 4.89 ft.

Well Condition: okay  
 Hydrocarbon Thickness: 0 in.  
 Amount Bailed (product/water): 0 (gal.)

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

1611 X VF 0.17 = 2.74 X 3 (case volume) = Estimated Purge Volume: 82 (gal.)

Purge Equipment: \_\_\_\_\_  
 Disposable Bailer: \_\_\_\_\_  
 Bailer: Stack  
 Suction: \_\_\_\_\_  
 Grundfos: \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer: \_\_\_\_\_  
 Pressure Bailer: \_\_\_\_\_  
 Grab Sample: \_\_\_\_\_  
 Other: \_\_\_\_\_

Starting Time: 13:45  
 Sampling Time: 13:53  
 Purging Flow Rate: 1.5 gpm.  
 Did well de-water? No

Weather Conditions: Cloudy Rainy  
 Water Color: Clear  
 Odor: None  
 Sediment Description: None  
 If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
13:47	3	6.95	82	18.14			
13:49	6	6.93	117.0	18.15			
13:51	9	6.98	118.3	18.3			
13:53	10	6.89	115.0	18.4			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	3 x 40m/VOA	Y	HCL	<del>NOVATEL</del> SEQ.	TPH-Gas/BTEX/MTBE

COMMENTS: \_\_\_\_\_

**WELL MONITORING/SAMPLING  
FIELD DATA SHEET**

Chevron Facility # 9-0100  
 Address: 2428 Central Avenue  
 City: Alameda, CA

Job#: 5178.80  
 Date: 3-31-98  
 Sampler: F. Cline

Well ID: MW-6 Well Condition: okay  
 Well Diameter: 2" in. Hydrocarbon Amount Bailed  
 Thickness: \_\_\_\_\_ in. (product/water): \_\_\_\_\_ (gal.)  
 Total Depth: 21 ft.  
 Depth to Water: 5.07 ft.

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

15913 X VF 0.17 = 27 X 3 (case volume) = Estimated Purge Volume: 8.13 gal.

Purge Equipment: Disposable Bailer  
 Bailer  
 Stack  
 Suction  
 Grundfos  
 Other: \_\_\_\_\_

Sampling Equipment: Disposable Bailer  
 Bailer  
 Pressure Bailer  
 Grab Sample  
 Other: \_\_\_\_\_

Starting Time: 13:34 Weather Conditions: Rainy cool  
 Sampling Time: 13:40 Water Color: clear Odor: None  
 Purging Flow Rate: 1.5 gpm. Sediment Description: None  
 Did well de-water? Alc If yes; Time: \_\_\_\_\_ Volume: \_\_\_\_\_ (gal.)

Time	Volume (gal.)	pH	Conductivity $\mu$ mhos/cm	Temperature $^{\circ}$ C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>13:36</u>	<u>3</u>	<u>7.20</u>	<u>113</u>	<u>17.9</u>			
<u>13:38</u>	<u>6</u>	<u>7.06</u>	<u>114</u>	<u>18.0</u>			
<u>13:40</u>	<u>9</u>	<u>7.68</u>	<u>111</u>	<u>18.6</u>			
<u>13:42</u>	<u>10</u>	<u>7.07</u>	<u>112</u>	<u>18.7</u>			

**LABORATORY INFORMATION**

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- <u>6</u> / <u>1</u>	<u>3 x 40m/VOA</u>	<u>Y</u>	<u>HCL</u>	<u>NEW/TEL SEQ.</u>	<u>TPH-Gas/BTEX/MTBE</u>

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





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

Attention: Deanna Harding

Client Proj. ID: Chevron 9-0100, Alameda  
Sample Descript: TB-LB  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9804230-01

Sampled: 03/31/98  
Received: 04/03/98  
Analyzed: 04/10/98  
Reported: 04/17/98

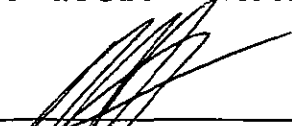
QC Batch Number: GC041098802009A  
Instrument ID: GCHP09

**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:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	99

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

**SEQUOIA ANALYTICAL - ELAP #1271**

  
\_\_\_\_\_  
Mike Gregory  
Project Manager







# Sequoia Analytical

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

Client Proj. ID: Chevron 9-0100, Alameda  
Sample Descript: MW-1  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9804230-07

Sampled: 03/31/98  
Received: 04/03/98  
Analyzed: 04/13/98  
Reported: 04/17/98

Attention: Deanna Harding

QC Batch Number: GC041398802004A  
Instrument ID: GCHP04

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	2200
Methyl t-Butyl Ether	25	60
Benzene	5.0	210
Toluene	5.0	N.D.
Ethyl Benzene	5.0	N.D.
Xylenes (Total)	5.0	14
Chromatogram Pattern:		Gas
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	100

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

SEQUOIA ANALYTICAL - ELAP #1271

Mike Gregory  
Project Manager



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

Attention: Deanna Harding

Client Proj. ID: Chevron 9-0100, Alameda  
Sample Descript: MW-2  
Matrix: LIQUID  
Analysis Method: 8015Mod/8020  
Lab Number: 9804230-06

Sampled: 03/31/98  
Received: 04/03/98  
Analyzed: 04/13/98  
Reported: 04/17/98

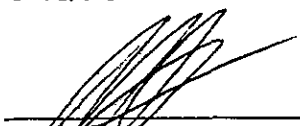
QC Batch Number: GC041398802004A  
Instrument ID: GCHP04

## Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	100	490
Methyl t-Butyl Ether	5.0	N.D.
Benzene	1.0	12
Toluene	1.0	1.2
Ethyl Benzene	1.0	N.D.
Xylenes (Total)	1.0	1.2
Chromatogram Pattern:		Gas
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	88

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

**SEQUOIA ANALYTICAL - ELAP #1271**

  
\_\_\_\_\_  
Mike Gregory  
Project Manager



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Gettler Ryan/Geostrategies 6747 Sierra Court Suite J Dublin, CA 94568	Client Proj. ID: Chevron 9-0100, Alameda Sample Descript: MW-3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9804230-05	Sampled: 03/31/98 Received: 04/03/98 Analyzed: 04/10/98 Reported: 04/17/98
Attention: Deanna Harding		


QC Batch Number: GC041098802009A  
Instrument ID: GCHP09

## 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:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	99

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

**SEQUOIA ANALYTICAL - ELAP #1271**




---

Mike Gregory  
Project Manager



# Sequoia Analytical

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Gettler Ryan/Geostrategies 6747 Sierra Court Suite J Dublin, CA 94568	Client Proj. ID: Chevron 9-0100, Alameda Sample Descript: MW-4 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9804230-04	Sampled: 03/31/98 Received: 04/03/98 Analyzed: 04/10/98 Reported: 04/17/98
Attention: Deanna Harding		

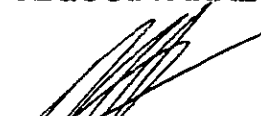
QC Batch Number: GC041098802009A  
Instrument ID: GCHP09

## 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:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	100

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

**SEQUOIA ANALYTICAL - ELAP #1271**




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Mike Gregory  
Project Manager



Gettler Ryan/Geostrategies 6747 Sierra Court Suite J Dublin, CA 94568 Attention: Deanna Harding	Client Proj. ID: Chevron 9-0100, Alameda Sample Descript: MW-5 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9804230-03	Sampled: 03/31/98 Received: 04/03/98 Analyzed: 04/10/98 Reported: 04/17/98
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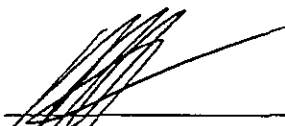
QC Batch Number: GC041098802009A  
Instrument ID: GCHP09

**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:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	102

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

**SEQUOIA ANALYTICAL - ELAP #1271**

  
\_\_\_\_\_  
Mike Gregory  
Project Manager



# Sequoia Analytical

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Gettler Ryan/Geostrategies 6747 Sierra Court Suite J Dublin, CA 94568	Client Proj. ID: Chevron 9-0100, Alameda Sample Descript: MW-6 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9804230-02	Sampled: 03/31/98 Received: 04/03/98 Analyzed: 04/10/98 Reported: 04/17/98
Attention: Deanna Harding		

QC Batch Number: GC041098802009A  
Instrument ID: GCHP09

## 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:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	100

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

**SEQUOIA ANALYTICAL - ELAP #1271**

  
Mike Gregory  
Project Manager



Sequoia  
Analytical

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

Client Proj. ID: Chevron 9-0100, Alameda  
Lab Proj. ID: 9804230

Received: 04/03/98  
Reported: 04/17/98

### LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 11 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

TPGBMW: Sample 9804230-06 was diluted 2-fold.  
Sample 9804230-07 was diluted 10-fold.

SEQUOIA ANALYTICAL



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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 9-0100, Alameda  
Matrix: Liquid

Work Order #: 9804230 -01-05

Reported: Apr 21, 1998

## QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC041098802009A	GC041098802009A	GC041098802009A	GC041098802009A	GC041098802009A
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:	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb	D. Newcomb
MS/MSD #:	8040426	8040426	8040426	8040426	8040426
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/10/98	4/10/98	4/10/98	4/10/98	4/10/98
Analyzed Date:	4/10/98	4/10/98	4/10/98	4/10/98	4/10/98
Instrument I.D.#:	HP9	HP9	HP9	HP9	HP9
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	350 µg/L
Result:	20	21	21	65	330
MS % Recovery:	100	105	105	108	94
Dup. Result:	21	23	23	68	350
MSD % Recov.:	105	115	115	113	100
RPD:	4.9	9.1	9.1	4.5	5.9
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS041098	LCS041098	LCS041098	LCS041098	LCS041098
Prepared Date:	4/10/98	4/10/98	4/10/98	4/10/98	4/10/98
Analyzed Date:	4/10/98	4/10/98	4/10/98	4/10/98	4/10/98
Instrument I.D.#:	HP9	HP9	HP9	HP9	HP9
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	350 µg/L
LCS Result:	18	19	20	59	310
LCS % Recov.:	90	95	100	98	89

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

SEQUOIA ANALYTICAL  
Elap #1271

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

9804230.GET <1>





# Sequoia Analytical

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

Client Project ID: Chevron 9-0100, Alameda  
Matrix: Liquid

Attention: Deanna Harding

Work Order #: 9804230-06, 07

Reported: Apr 21, 1998

## QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC041398802004A	GC041398802004A	GC041398802004A	GC041398802004A	GC041398802004A
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:	K. Nill	K. Nill	K. Nill	K. Nill	K. Nill
MS/MSD #:	8040682	8040682	8040682	8040682	8040682
Sample Conc.:	N.D.	0.58	N.D.	N.D.	N.D.
Prepared Date:	4/13/98	4/13/98	4/13/98	4/13/98	4/13/98
Analyzed Date:	4/13/98	4/13/98	4/13/98	4/13/98	4/13/98
Instrument I.D.#:	HP4	HP4	HP4	HP4	HP4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	370 µg/L
Result:	21	22	21	66	410
MS % Recovery:	105	107	105	110	111
Dup. Result:	20	22	21	65	390
MSD % Recov.:	100	107	105	108	105
RPD:	4.9	0.0	0.0	1.5	5.0
RPD Limit:	0-20	0-20	0-20	0-20	0-50

LCS #:	LCS041398	LCS041398	LCS041398	LCS041398	LCS041398
Prepared Date:	4/13/98	4/13/98	4/13/98	4/13/98	4/13/98
Analyzed Date:	4/13/98	4/13/98	4/13/98	4/13/98	4/13/98
Instrument I.D.#:	HP4	HP4	HP4	HP4	HP4
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	370 µg/L
LCS Result:	21	22	21	65	270
LCS % Recov.:	105	110	105	108	73

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

SEQUOIA ANALYTICAL  
Elap #1271

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

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