Chevron

July 1, 1999

Chevron Products Company
6001 Bollinger Canyon Road
Building L, Room 1080
PO Box 6004
San Ramon, CA 94583-0904

Philip R. Briggs
Project Manager
Site Assessment & Remediation
Phone 925 842-9136
Fax 925 842-8370

Ms. Eva Chu
Alameda County Health Care Services
Division of Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

Dear Ms. Chu:

Enclosed is the First Quarter Groundwater Monitoring and Sampling Report for 1999 that was prepared by our consultant Blaine Tech Services Inc. for the above noted facility. The groundwater samples were analyzed for the presence of TPH-g, TPH-d, BTEX and MtBE. All wells are sampled quarterly.

Monitoring well MW-1 showed a decrease in the benzene constituent while wells MW-2 and MW-3 showed an increase from the previous sampling event. The TPH-d constituent detected in wells MW1 and MW-2 indicated the presence of an unidentified hydrocarbon. To confirm the presence of MtBE, EPA Method 8260 was used to analyze for MtBE only in monitoring well MW-2, since this well has the highest concentration of the three wells onsite. MtBE was confirmed by this method.

Depth to ground water varied from 24.21 feet to 25.47 feet below grade with a direction of flow westerly.

Three additional wells were recently installed at this site with a Well Installation Report forwarded to you under separate cover. The ground water sampling results from these three wells will be included to the Second Quarter Groundwater Monitoring and Sampling Report.

Chevron will continue with the monitoring program as noted above. If you have any questions call me at (925) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manager

Enclosure

Cc. Mr. Bill Scudder, Chevron

BLAINE
TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE

June 22, 1999

Phil Briggs
Chevron U.S.A. Products Company
P.O. Box 6004
San Ramon, CA 94583-0904

1st Quarter 1999 Monitoring at 9-4800

First Quarter 1999 Groundwater Monitoring at
Chevron Service Station Number 9-4800
1700 Castro St.
Oakland, CA

Monitoring Performed on March 11, 1999

Groundwater Sampling Report **990311-K-2**

This report covers the routine monitoring of groundwater wells at this Chevron facility. Blaine Tech Services, Inc.'s work at the site includes inspection, gauging, evacuation, purgewater containment, sample collection and sample handling in accordance with standard procedures that conform to Regional Water Quality Control Board requirements.

Routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated volume of a three-case volume purge, elapsed evacuation time, total volume of water removed, and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater is, likewise, collected and transported to McKittrick Waste Treatment Site for disposal.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL DATA AND ANALYTICAL RESULTS**. The full analytical report for the most recent samples is located in the **Analytical Appendix**. The table also contains new groundwater elevation calculations taken from the computer plotted gradient

map which is located in the **Professional Engineering Appendix**.

At a minimum, Blaine Tech Services, Inc. field personnel are certified upon completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

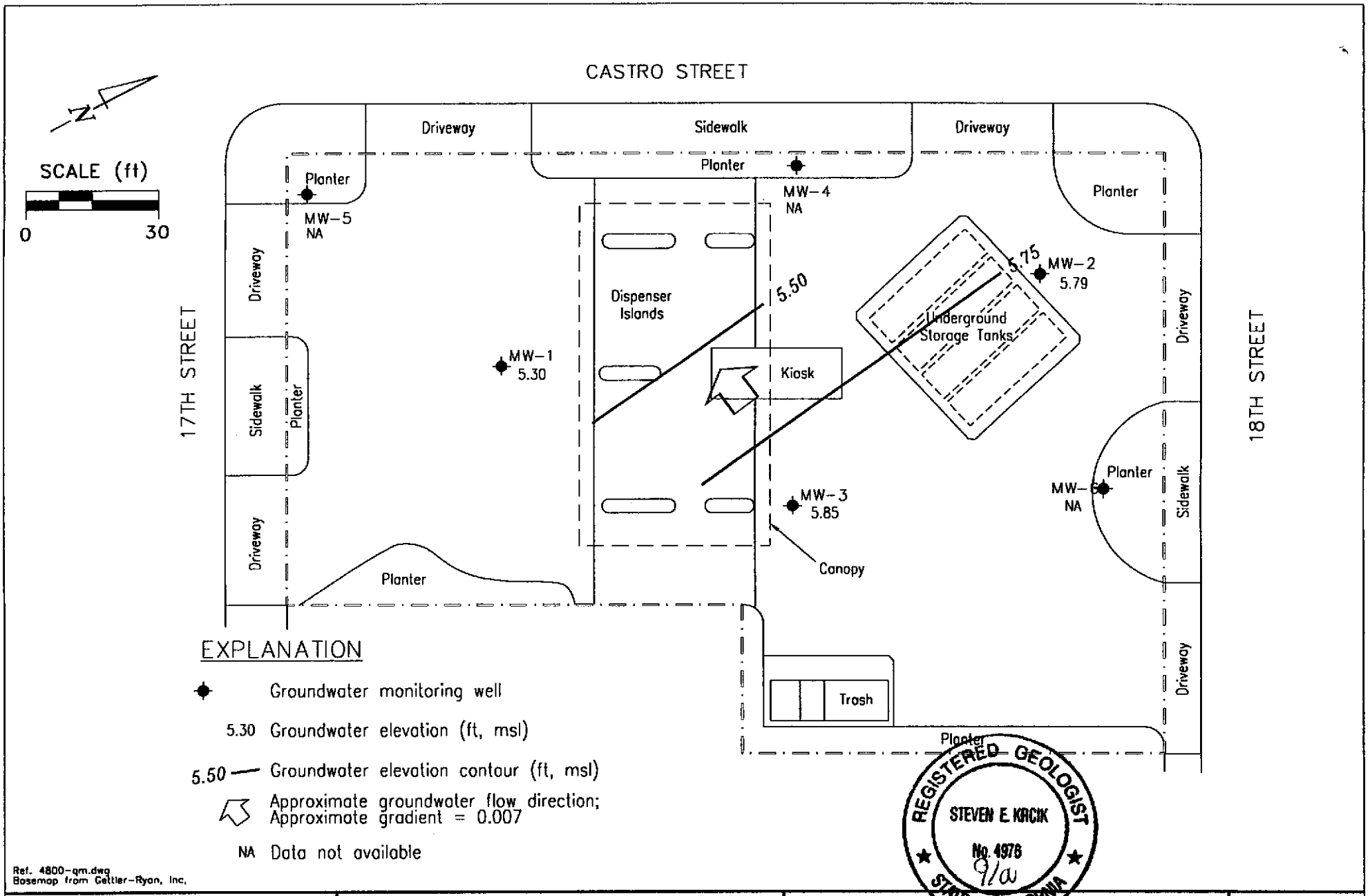
Yours truly,

Christine Lillie
Project Coordinator

CAL/sb

attachments: Professional Engineering Appendix
Cumulative Table of Well Data and Analytical Results
Analytical Appendix
Field Data Sheets

Professional Engineering Appendix



Ref. 4800-qm.dwg
Basemap from Gettler-Ryan, Inc.

PREPARED BY

RRM
engineering contracting firm

Chevron Station 9-4800
1700 Castro Street
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP, MARCH 11, 1999

FIGURE:
1
PROJECT:
DAC04

Table of
Well Data and
Analytical Results

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH-Diesel
MW-1											
06/04/97	30.75	4.39	25.82	--	890	100	110	29	150	<10	71*
09/16/97	30.75	4.85	25.90	--	1600	210	210	60	250	<10	75*
12/17/97	30.75	4.88	25.87	--	940	120	100	41	160	<25	65*
03/18/98	30.75	5.90	24.85	--	530	91	39	22	65	6.8	77*
06/28/98	30.75	5.92	24.83	--	1100	220	140	37	120	14	140*
09/07/98	30.75	5.56	25.19	--	1700	530	86	84	240	49	280*
12/09/98	30.75	5.10	25.65	--	1700	240	130	100	270	32	240*
03/11/99	30.75	5.30	25.45	--	353	53.9	28.6	20.5	56.1	14.1	98*
MW-2											
06/04/97	30.00	5.13	24.87	--	13,000	790	30	420	1700	4000	4000*
09/16/97	30.00	5.06	24.94	--	4000	360	9.7	210	460	1500	2200*
12/17/97	30.00	5.18	24.82	--	4100	380	<10	200	460	2100	2100*
03/18/98	30.00	6.43	23.57	--	8400	1800	<50	350	630	13,000	3700*
06/28/98	30.00	6.21	23.79	EPA 8260	9300	740	340	710	2300	3800	4400*
09/07/98	30.00	5.78	24.22	--	9900	1000	150	640	1800	4500	3100*
09/07/98	30.00	5.78	24.22	Confirmation run	--	--	--	--	--	4100	--
12/09/98	30.00	5.31	24.69	--	8500	860	74	610	960	2600	1900*
12/09/98	30.00	5.31	24.69	Confirmation run	--	--	--	--	--	2600	--
03/11/99	30.00	5.79	24.21	--	12,500	1520	42.2	645	2250	3400	2700*
03/11/99	30.00	5.79	24.21	Confirmation run	--	--	--	--	--	5050	--

* Chromatogram pattern indicates an unidentified hydrocarbon.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH-Diesel
MW-3											
06/04/97	31.32	5.27	26.05	--	190	26	20	1.5	16	8.2	<50
09/16/97	31.32	5.17	26.15	--	270	58	53	6.1	30	21	<50
12/17/97	31.32	5.22	26.10	--	290	50	54	8.1	37	21	<50
03/18/98	31.32	6.42	24.90	--	390	140	33	4.6	30	94	<50
06/28/98	31.32	6.39	24.93	--	290	90	11	1.6	13	150	<50
09/07/98	31.32	5.97	25.35	--	170	46	20	4.3	19	120	<50
12/09/98	31.32	5.41	25.91	--	660	120	93	22	72	150	55*
03/11/99	31.32	5.85	25.47	--	653	136	69.5	13.7	63.8	144	<50

* Chromatogram pattern indicates an unidentified hydrocarbon.

Cumulative Table of Well Data and Analytical Results

Vertical Measurements are in feet. Analytical results are in parts per billion (ppb)

DATE	Well Head Elev.	Ground Water Elev.	Depth To Water	Notes	TPH-Gasoline	Benzene	Toluene	Ethyl-Benzene	Xylene	MTBE	TPH-Diesel
TRIP BLANK											
06/04/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/16/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
12/17/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/18/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
06/28/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
09/07/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
12/09/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
03/11/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on December 9, 1998. Earlier field data and analytical results are drawn from the September 7, 1998, Gettler-Ryan, Inc. report.

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons

ND = Not detected at or above the minimum quantitation limit. See laboratory reports for minimum quantitation limits.

MTBE = Methyl-tert-butyl ether

Analytical Appendix

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

March 26, 1999

Mei Mei Shin
Sequoia - Redwood City
680 Chesapeake Drive
Redwood City, CA 94063

RE: Mei Mei Shin/L903163

Dear Mei Mei Shin:

Enclosed are the results of analyses for sample(s) received by the laboratory on March 22, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Gregory
Project Manager D.M.

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Sequoia - Redwood City	Project:	Mei Mei Shin	Sampled: 3/11/99
680 Chesapeake Drive	Project Number:	9903718(Blaine)	Received: 3/22/99
Redwood City, CA 94063	Project Manager:	Mei Mei Shin	Reported: 3/26/99

ANALYTICAL REPORT FOR L903163

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
9903718-01/MW-1	L903163-01	Water	3/11/99
9903718-02/MW-2	L903163-02	Water	3/11/99
9903718-03/MW-3	L903163-03	Water	3/11/99
9903718-04/TB	L903163-04	Water	3/11/99

Sequoia Analytical

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Sequoia - Redwood City	Project:	Mei Mei Shin	Sampled: 3/11/99
680 Chesapeake Drive	Project Number:	9903718(Blaine)	Received: 3/22/99
Redwood City, CA 94063	Project Manager:	Mei Mei Shin	Reported: 3/26/99

Sample Description: **9903718-01/MW-1**
Laboratory Sample Number: **L903163-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9030078	3/22/99	3/22/99		50.0	**353**	ug/l	
Benzene	"	"	"		0.500	**53.9**	"	
Toluene	"	"	"		0.500	**28.6**	"	
Ethylbenzene	"	"	"		0.500	**20.5**	"	
Xylenes (total)	"	"	"		0.500	**56.1**	"	
Methyl tert-butyl ether	"	"	"		5.00	**14.1**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*85.3*	%	

Sequoia Analytical

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Sequoia - Redwood City	Project:	Mei Mei Shin	Sampled: 3/11/99
680 Chesapeake Drive	Project Number:	9903718(Blaine)	Received: 3/22/99
Redwood City, CA 94063	Project Manager:	Mei Mei Shin	Reported: 3/26/99

Sample Description: **9903718-02/MW-2**
Laboratory Sample Number: **L903163-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - San Carlos					
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9030102	3/24/99	3/24/99		2500	**12500**	ug/l	1
Benzene	"	"	"		25.0	**1520**	"	
Toluene	"	"	"		25.0	**42.2**	"	
Ethylbenzene	"	"	"		25.0	**645**	"	
Xylenes (total)	"	"	"		25.0	**2250**	"	
Methyl tert-butyl ether	"	"	"		250	**3400**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*112*	%	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9030069	3/23/99	3/23/99		100	**5050**	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*105*	%	

Sequoia Analytical

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Sequoia - Redwood City	Project:	Mei Mei Shin	Sampled: 3/11/99
680 Chesapeake Drive	Project Number:	9903718(Blaine)	Received: 3/22/99
Redwood City, CA 94063	Project Manager:	Mei Mei Shin	Reported: 3/26/99

Sample Description: **9903718-04/TB**
Laboratory Sample Number: **L903163-04**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9030078	3/22/99	3/22/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*95.9*	*%*	

Sequoia Analytical

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Sequoia - Redwood City	Project:	Mei Mei Shin	Sampled: 3/11/99
680 Chesapeake Drive	Project Number:	9903718(Blaine)	Received: 3/22/99
Redwood City, CA 94063	Project Manager:	Mei Mei Shin	Reported: 3/26/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9030078	**Date Prepared: 3/22/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9030078-BLK1**									
Purgeable Hydrocarbons as Gasoline	3/22/99			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*7.99*	"	*70.0-130*	*79.9*			
LCS	**9030078-BS1**									
Benzene	3/22/99	10.0		9.78	ug/l	70.0-130	97.8			
Toluene	"	10.0		9.97	"	70.0-130	99.7			
Ethylbenzene	"	10.0		10.5	"	70.0-130	105			
Xylenes (total)	"	30.0		30.9	"	70.0-130	103			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.97*	"	*70.0-130*	*99.7*			
Matrix Spike	**9030078-MS1**		**L903163-01**							
Benzene	3/22/99	10.0	53.9	74.4	ug/l	60.0-140	**NR**			2
Toluene	"	10.0	28.6	45.1	"	60.0-140	**165**			
Ethylbenzene	"	10.0	20.5	35.2	"	60.0-140	**147**			
Xylenes (total)	"	30.0	56.1	93.1	"	60.0-140	**123**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.1*	"	*70.0-130*	*101*			
Matrix Spike Dup	**9030078-MSD1**		**L903163-01**							
Benzene	3/22/99	10.0	53.9	70.9	ug/l	60.0-140	**170**	25.0	**18.7**	3
Toluene	"	10.0	28.6	43.7	"	60.0-140	**151**	25.0	**8.86**	
Ethylbenzene	"	10.0	20.5	34.0	"	60.0-140	**135**	25.0	**8.51**	
Xylenes (total)	"	30.0	56.1	91.5	"	60.0-140	**118**	25.0	**4.15**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.0*	"	*70.0-130*	*100*			
Batch: 9030102	**Date Prepared: 3/24/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9030102-BLK1**									
Purgeable Hydrocarbons as Gasoline	3/24/99			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*11.6*	"	*70.0-130*	*116*			

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Sequoia - Redwood City	Project:	Mei Mei Shin	Sampled: 3/11/99
680 Chesapeake Drive	Project Number:	9903718(Blaine)	Received: 3/22/99
Redwood City, CA 94063	Project Manager:	Mei Mei Shin	Reported: 3/26/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS	**9030102-BS1**									
Purgeable Hydrocarbons as Gasoline	3/24/99	250		267	ug/l	70.0-130	107			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*19.3*	"	*70.0-130*	*193*			*4*
Matrix Spike	**9030102-MS1**		**L903162-05**							
Purgeable Hydrocarbons as Gasoline	3/24/99	250	ND	283	ug/l	60.0-140	**113**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*90.1*	"	*70.0-130*	*NR*			*5*
Matrix Spike Dup	**9030102-MSD1**		**L903162-05**							
Purgeable Hydrocarbons as Gasoline	3/24/99	250	ND	280	ug/l	60.0-140	**112**	25.0	**0.889**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*87.1*	"	*70.0-130*	*NR*			*5*

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Sequoia - Redwood City	Project:	Mei Mei Shin	Sampled: 3/11/99
680 Chesapeake Drive	Project Number:	9903718(Blaine)	Received: 3/22/99
Redwood City, CA 94063	Project Manager:	Mei Mei Shin	Reported: 3/26/99

MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9030069	**Date Prepared: 3/18/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9030069-BLK1**									
Methyl tert-butyl ether	3/18/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*53.5*	"	*76.0-114*	*107*			
Blank	**9030069-BLK2**									
Methyl tert-butyl ether	3/22/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*51.1*	"	*76.0-114*	*102*			
Blank	**9030069-BLK3**									
Methyl tert-butyl ether	3/23/99			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*50.2*	"	*76.0-114*	*100*			
LCS	**9030069-BS1**									
Methyl tert-butyl ether	3/19/99	50.0		58.0	ug/l	70.0-130	116			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*50.0*	"	*76.0-114*	*100*			
LCS	**9030069-BS2**									
Methyl tert-butyl ether	3/22/99	50.0		50.6	ug/l	70.0-130	101			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*49.6*	"	*76.0-114*	*99.2*			
LCS	**9030069-BS3**									
Methyl tert-butyl ether	3/23/99	50.0		52.1	ug/l	70.0-130	104			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*51.0*	"	*76.0-114*	*102*			
Matrix Spike	**9030069-MS1**		**L903125-04**							
Methyl tert-butyl ether	3/18/99	50.0	ND	55.7	ug/l	60.0-140	**111**			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*50.5*	"	*76.0-114*	*101*			
Matrix Spike Dup	**9030069-MSD1**		**L903125-04**							
Methyl tert-butyl ether	3/18/99	50.0	ND	51.6	ug/l	60.0-140	**103**	25.0	**7.48**	
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*51.2*	"	*76.0-114*	*102*			

Sequoia Analytical

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(650) 232-9600
FAX (650) 232-9612

Sequoia - Redwood City	Project:	Mei Mei Shin	Sampled: 3/11/99
680 Chesapeake Drive	Project Number:	9903718(Blaine)	Received: 3/22/99
Redwood City, CA 94063	Project Manager:	Mei Mei Shin	Reported: 3/26/99

Notes and Definitions

#	Note
1	Chromatogram Pattern: Gasoline C6-C12
2	Analyses are not controlled on matrix spike RPD and/or percent recoveries when the sample concentration is significantly higher than the spike level.
3	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit.
4	High surrogate recovery due to spike.
5	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Sequoia - Redwood City	Project:	Mei Mei Shin	Sampled: 3/11/99
680 Chesapeake Drive	Project Number:	9903718(Blaine)	Received: 3/22/99
Redwood City, CA 94063	Project Manager:	Mei Mei Shin	Reported: 3/26/99

Notes and Definitions

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DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

Revised report on 5/28/99 to include sample ID's.

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

Chain-of-Custody-Record

Chevron Products Co.
P.O. BOX 6004
San Ramon, CA 94583
FAX (925)842-8370

Chevron Facility Number 9-4800
Facility Address 1700 Castro St., Oakland
Consultant Project Number
Consultant Name BLAINE TECH SERVICE, INC.
Address 1680 ROGERS AVE., SAN JOSE
Project Contact (Name) CHRISTINE LILLIE
(Phone) 408-573-0555 (Fax Number) 408-573-7771

Chevron Contact (Name) PHIL BRIGGS
(Phone) (925) 842-9136
Laboratory Name SEQUOIA
Laboratory Service Order 9144488
Laboratory Service Code ZZ02800
Samples Collected by (Name)
Signature

State Method: ☐ CA ☐ OR ☐ WA ☐ NW Series ☐ CO ☐ UT

Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Sample Preservation	Date/Time	BTEX/MTBE+TPH GAS (8020 + 8015)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oxygenates (8260)	Purgeable Halocarbons (8010)	Purgeable Organics (8260)	Extractable Organics (8270)	Oil and Grease (5520)	Metals (ICAP or AA) Cd,Cr,Pb,Zn,Ni	BTEX (8020)	BTEX/MTBE/Naph. (8020)	TPH - HCID	TPH-D Extended		Remarks / Lab Sample No.
MW-1	3	W	01	3/11/99/935	X		X												9903718
MW-2	3	W	02	/930	X		X												8260 on MW-2 ONLY
MW-3	3	W	03	/930	X		X												
TB	2	W	04	↓/—	X														

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
for Mark Sprindler		3/12/99 2:20		Sequoia	3/12/99 2:20	
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
		3/12/99				
By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	Iced (Y)/N
					3/12 1755	

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

L903162

SEQUOIA ANALYTICAL
680 CHESAPEAKE DRIVE
REDWOOD CITY, CA 94063
TEL415-364-9600 FAX415-364-9233

SUB-CHAIN OF CUSTODY

PROJECT SUBBED TO: SEQUOIA-SC

TAT REQUESTED: ☐ 24H ☐ 48H ☐ 72H ☐ 5D ☐ 10D

DUE DATE: 032499

REPORT TO: M-SHIN

WORKORDER # 9903718 PROJECT NAME:

	FRACTION NUMBER	SAMPLE DESCRIPTION	MATRIX	NUMBER OF CONT.	TYPE CONT.	SAMPLING TIME/DATE	ANALYSIS REQUESTED: TPH Gas/BTEX + MTBE	ANALYSIS REQUESTED: MTBE by 8260	REMARKS
01	01	MW-1	liquid	~~03~~ 02	VOA	031999	X		Run 2X if...
02	02	2	"	"	"	"	"	X	Confirm MTBE
03	03	3	"	"	"	"	"		by 8260 on
04	04	TB	"	02	"	"	"		MW-2

RELINQUISHED FROM SEQUOIA BY:	DATE	TIME	RECEIVED BY:	DATE / TIME: 032299 0940
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE / TIME
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE / TIME

SAMPLE CONDITION? YES

TEMP? 7.7°C

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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

Blaine Tech Services	Client Proj. ID: Chevron 9-4800, 1700 Castro	Received: 03/12/99
1680 Rogers Avenue		
San Jose, CA 95112	Lab Proj. ID: 9903718	Reported: 03/30/99
Attention: Christine Lillie		

LABORATORY NARRATIVE

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

NOTE: The TPH-Gas/BTEX/MTBEs were analyzed at Sequoia San Carlos.
The TEPH-Diesels were analyzed at Sequoia Walnut Creek.

SEQUOIA ANALYTICAL

Mei Mei Shin
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Chevron 9-4800, 1700 Castro	Sampled: 03/11/99
1680 Rogers Avenue	Sample Descript: MW-1	Received: 03/12/99
San Jose, CA 95112	Matrix: LIQUID	Extracted: 03/23/99
	Analysis Method: EPA 8015 Mod	Analyzed: 03/27/99
Attention: Christine Lillie	Lab Number: 9903718-01	Reported: 03/30/99

Instrument ID: HP3B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**98**
Chromatogram Pattern:		**Unid HC C**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	66

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

SEQUOIA ANALYTICAL - ELAP #1271

Mei Mei Shin
Project Manager

Sequoia Analytical

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404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Chevron 9-4800, 1700 Castro	Sampled: 03/11/99
1680 Rogers Avenue	Sample Descript: MW-2	Received: 03/12/99
San Jose, CA 95112	Matrix: LIQUID	Extracted: 03/23/99
	Analysis Method: EPA 8015 Mod	Analyzed: 03/28/99
Attention: Christine Lillie	Lab Number: 9903718-02	Reported: 03/30/99

Instrument ID: HP3A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**50**	**2700**
Chromatogram Pattern:		**Unid HC C**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	Q

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

SEQUOIA ANALYTICAL - ELAP #1271

Mei Mei Shin
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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

Blaine Tech Services	Client Proj. ID: Chevron 9-4800, 1700 Castro	Sampled: 03/11/99
1680 Rogers Avenue	Sample Descript: MW-3	Received: 03/12/99
San Jose, CA 95112	Matrix: LIQUID	Extracted: 03/23/99
	Analysis Method: EPA 8015 Mod	Analyzed: 03/27/99
Attention: Christine Lillie	Lab Number: 9903718-03	Reported: 03/30/99

Instrument ID: HP3B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	88

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

SEQUOIA ANALYTICAL - ELAP #1271

Mei Mei Shin
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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

Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Christine Lillie

Client Project ID: Chevron 9-4800, 1700 Castro
Matrix: Liquid
Work Order #: 9903718 01-03
Reported: Mar 31, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Diesel
QC Batch#:	SP0323998015EXB
Analy. Method:	EPA 8015M
Prep. Method:	EPA 3510
Analyst:	K. Grubb
BS/BSD #:	BLK032399
Sample Conc.:	N.D.
Prepared Date:	3/23/99
Analyzed Date:	3/26/99
Instrument I.D.#:	HP3A
Conc. Spiked:	500 µg/L
Result:	450
BS % Recovery:	90
Dup. Result:	380
BSD % Recov.:	76
RPD:	17
RPD Limit:	0-50

LCS #:	LCS032399
Prepared Date:	3/23/99
Analyzed Date:	3/26/99
Instrument I.D.#:	HP3A
Conc. Spiked:	500 µg/L
LCS Result:	430
LCS % Recov.:	86

MS/MSD	50-150
LCS	60-140
Control Limits	

SEQUOIA ANALYTICAL
ELAP #1271

Mei-Mei Shin
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

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

Chain-of-Custody-Record

Chevron Products Co.
P.O. BOX 6004
San Ramon, CA 94583
FAX (925)842-8370

Chevron Facility Number 9-4800
Facility Address 1700 Castro St., Oakland
Consultant Project Number
Consultant Name BLAINE TECH SERVICE, INC.
Address 1680 ROGERS AVE., SAN JOSE
Project Contact (Name) CHRISTINE LILLIE
(Phone) 408-573-0555 (Fax Number) 408-573-7771

Chevron Contact (Name) PHIL BRIGGS
(Phone) (925) 842-9136
Laboratory Name SEQUOIA
Laboratory Service Order 9144488
Laboratory Service Code ZZ02800
Samples Collected by (Name)
Signature

State Method: ☐ CA ☐ OR ☐ WA ☐ NW Series ☐ CO ☐ UT

9903718

Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Sample Preservation	Date/Time	BTEX/MTBE+TPH GAS (8020 + 8015)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oxygenates (8260)	Purgeable Halocarbons (8010)	Purgeable Organics (8260)	Extractable Organics (8270)	Oil and Grease (5520)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	BTEX (8020)	BTEX/MTBE/Napth. (8020)	TPH - HCID	TPH-D Extended						Remarks	Lab Sample No.
MW-1	3	W	01	3/11/99/935	X		X																Confirm MTBE by	
MW-2	5	↓	02	/950	X		X																8260 on MW-2	
MW-3	3		03	/920	X		X																	
TB	2	↓	04	↓ /—	X																			

MAR 12 3 58

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
[signature] for Marc Spindler		2:20 3/12/99	[signature]	Sequoia	2:20 3/12/99	Iced Y/N
[signature]		3/12/99				Iced Y/N
			Received For Laboratory By (Signature) [signature]			Iced (Y)/N

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

COC-3.DWG/07-98/HCH

Field
Data
Sheets

WELL GAUGING DATA

Project # 990311-K2 Date 3/11/99 Client Chev.

Site 1700 Castro St. Oakland, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
MW-1	2					25.45	30.14	TOC	
MW-2	2					24.21	30.33	↓	
MW-3	2					25.47	29.94	↓	

CHEVRON WELL MONITORING DATA SHEET

Project #: 990311-K2	Station #: 9-4800
Sampler: Mark	Date: 3/11/99
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 30.44	Depth to Water: 25.45
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
~~2"~~	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method:
- Bailer
- ~~Disposable Bailer~~
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: ___

Sampling Method:
- Bailer
- Disposable Bailer ~~Extraction Port~~
- Other: ___

0.75 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 2.25 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
930	64.2	7.2	1477	0.75	
931	65.9	7.0	1289	1.5	
932	66.7	6.9	1247	2.25	

Did well dewater? Yes (~~No~~) Gallons actually evacuated: 2.25

Sampling Time: 935 Sampling Date: 3/11/99

Sample I.D.: MW-1 Laboratory: (Sequoia) CORE N. Creek Assoc. Labs

Analyzed for: (TPH-G BTEX MTBE TPH-D) Other:

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 990311-K2	Station #: 9-4800
Sampler: Mark	Date: 3/11/99
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 30.23	Depth to Water: 24.21
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius^2 * 0.163

Purge Method: Bailer / Disposable Bailer / Middleburg / Electric Submersible / Extraction Pump / Other: _____

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Other: _____

1.0 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 3 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
944	65.5	7.3	1081	1	
945	67.0	7.3	1419	2	
946	67.4	7.2	1478	3	

Did well dewater? Yes (No) Gallons actually evacuated: 3

Sampling Time: 950 Sampling Date: 3/11/99

Sample I.D.: MW-2 Laboratory: (Sequoia) CORE N. Creek Assoc. Labs

Analyzed for: (TPH-G BTEX MTBE TPH-D) Other:

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

CHEVRON WELL MONITORING DATA SHEET

Project #: 990311-K2	Station #: 9-4800
Sampler: Mark	Date: 3/11/99
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 29.94	Depth to Water: 25.47
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
~~2~~"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Purge Method:
- Bailer
- ~~Disposable Bailer~~
- Middleburg
- Electric Submersible
- Extraction Pump
- Other: ___

Sampling Method:
- Bailer
- Disposable Bailer~~x~~
- Extraction Port
- Other: ___

0.7 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 2.1 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
916	64.2	6.8	1195	0.75	
917	65.8	6.7	1153	1.5	
918	66.9	6.5	1148	2.25	

Did well dewater? Yes (No) Gallons actually evacuated: 2.25

Sampling Time: 920 Sampling Date: 3/11/99

Sample I.D.: MW-3 Laboratory: (Sequoia) CORE N. Creek Assoc. Labs

Analyzed for: (TPH-G BTEX MTBE TPH-D) Other:

Duplicate I.D.: Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV