Chevron

February 18, 1999

541

Chevron Products Company
6001 Bollinger Canyon Road
Building L, Room 1110
PO Box 6004
San Ramon, CA 94583-0904

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

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

Re: Chevron Service Station #9-1851
451 Hegenberger Road
Oakland, California

Dear Mr. Chan:

Enclosed is the Fourth Quarter Groundwater Monitoring Report for 1998 that was prepared by our consultant Blaine Tech Services Inc., for the above noted site. The groundwater samples collected were analyzed for the TPH-g, BTEX and MtBE constituents. Your letter of April 10, 1998 approved the discontinuance for the sampling of VOC's in monitoring well M-2.

The benzene constituent decreased in all four monitoring wells from the previous sampling event. It appears that the benzene increase in all of the wells reported in the third quarter, may have been an anomaly, which I stated in my cover letter. An additional sampling event will be needed to confirm this. The highest concentration of MtBE and benzene was detected in well MW-4, in this sampling event, which is a change from the last sampling event in which MW-1 had the highest concentration. Therefore, those concentrations appear to have been an anomaly.

The depth to ground water varied from 3.53 feet to 5.06 feet below grade with a direction of flow southwesterly.

In the next sampling event the highest MtBE concentration detected by EPA Method 8020 will be confirmed by Method 8260.

Chevron will continue to monitor the site quarterly. 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. Bill Scudder, Chevron

Mr. Ben Shimek
451 Hegenberger Road
Oakland, CA 94621

BLAINE
TECH SERVICES INC

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

February 10, 1999

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

4th Quarter 1998 Monitoring at 9-1851

Fourth Quarter 1998 Groundwater Monitoring at
Chevron Service Station Number 9-1851
451 Hegenberger Rd.
Oakland, CA

Monitoring Performed on December 29, 1998

Groundwater Sampling Report **981229-S-4**

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

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.

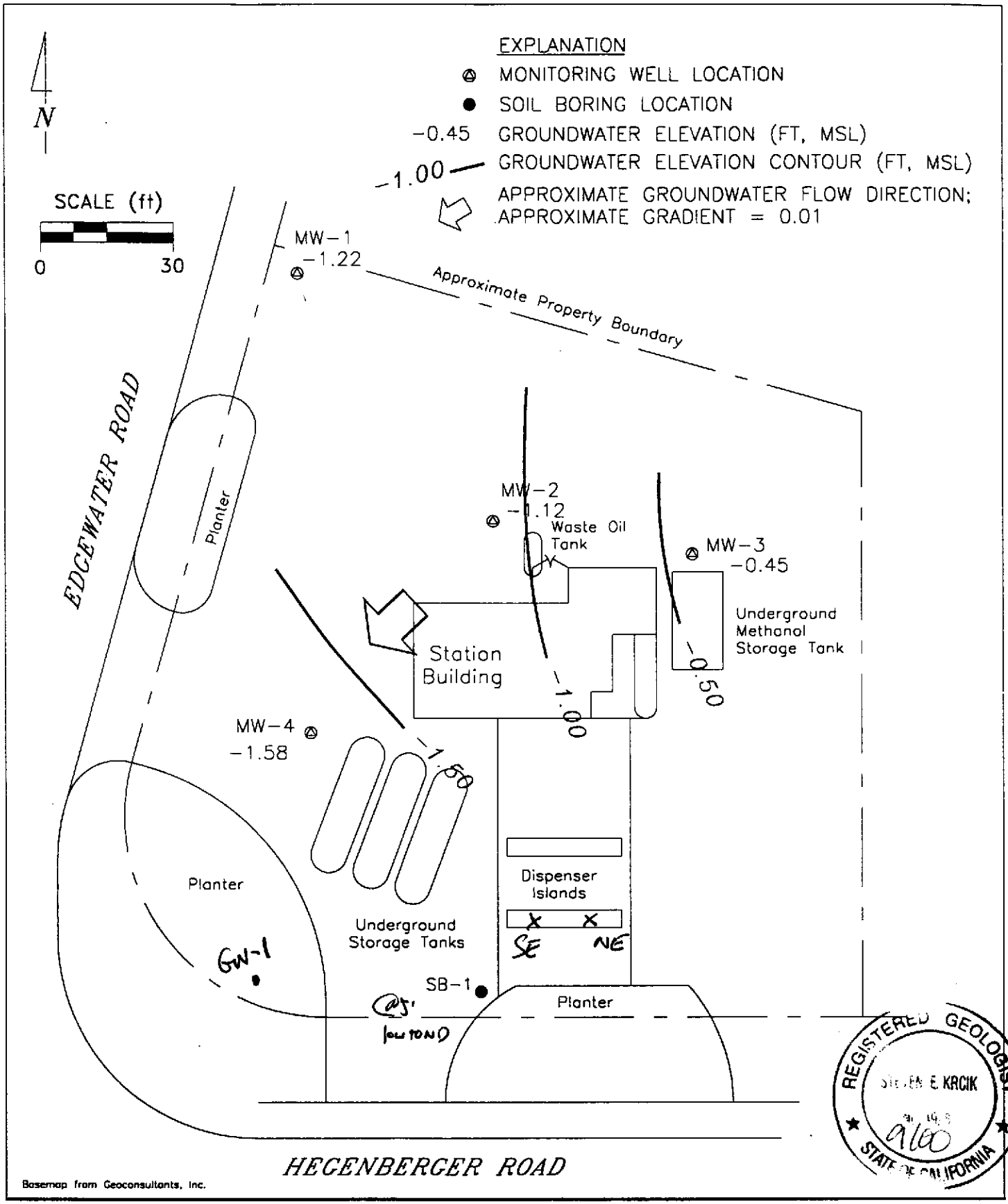
Yours truly,

Francis Thie
Vice President

FPT/sb

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

Professional Engineering Appendix



PREPARED BY		
RRM engineering contracting firm	**Chevron Station 9-1851** 451 Hegenberger Road Oakland, California **GROUNDWATER ELEVATION CONTOUR MAP, DECEMBER 29, 1998**	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	TOG	TPH-Diesel	Benzene by (EPA 8240)	Xylene by (EPA 8240)	C-1, 2-DCE	Carbon Disulfide	Vinyl Chloride	MTBE
MW-1																	
10/17/95	2.61	-1.51	4.12	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
03/29/96	2.61	-0.72	3.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	9.5
06/26/96	2.61	-1.23	3.84	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	46
09/25/96	2.61	-1.41	4.02	--	<250	<2.5	<2.5	<2.5	<2.5	--	--	--	--	--	--	--	940
12/17/96	2.61	-0.96	3.57	--	<50	0.86	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	260
03/20/97	2.61	-1.54	4.15	--	<50	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	76
06/20/97	2.61	-1.72	4.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	64
09/09/97	2.61	-1.74	4.35	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	110
12/12/97	2.61	-0.39	3.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	27
02/19/98	2.61	0.78	1.83	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	14
06/23/98	2.61	-0.73	3.34	***	210	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	3400
08/31/98	2.61	-0.88	3.49	***	1400	630	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	16,000
12/29/98	2.61	-1.22	3.83	--	<500	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	1090
MW-2																	
10/17/95	3.51	-1.82	5.33	*	170	3.5	<0.5	1.0	6.1	<5000	1600**	--	--	11	--	--	--
03/29/96	3.51	-0.44	3.95	--	89	4.7	<0.5	0.64	0.74	--	3000**	11	2.5	17	--	5.4	21
06/26/96	3.51	-1.09	4.60	--	80	8.7	<0.5	1.2	1.3	--	2000**	11	<2.0	15	--	12	31
09/25/96	3.51	--	--	Inaccessible	--	--	--	--	--	--	--	--	--	--	--	--	--
12/17/96	3.51	-0.41	3.92	--	110	<0.5	<0.5	0.75	2.1	--	2400**	10	<2.0	2.3	--	5.5	27
03/20/97	3.51	-1.32	4.83	--	140	8.2	<2.0	<2.0	<2.0	--	3400**	--	--	<2.0	--	3.2	58
06/20/97	3.51	-1.53	5.04	--	62	7.7	<0.5	<0.5	<0.5	--	1600**	7.2	<2.0	4.6	2.2	5.2	38
09/09/97	3.51	-1.47	4.98	--	190	9.4	<0.5	<0.5	0.86	--	82**	11	<2.0	<2.0	<2.0	<2.0	48
12/12/97	3.51	-0.40	3.91	--	180	1.8	<0.5	<0.5	3.2	--	8500**	<2.0	<2.0	<2.0	<2.0	<2.0	34
02/19/98	3.51	0.55	2.96	--	<100	1.8	<1.0	<1.0	<1.0	--	3800**	<3.3	<3.3	<3.3	<3.3	<3.3	230
06/23/98	3.51	-0.54	4.05	***	60	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	55
08/31/98	3.51	-0.80	4.31	--	61	2.2	<0.5	<0.5	1.1	--	--	--	--	--	--	--	53
12/29/98	3.51	-1.12	4.63	--	54	1.32	<0.5	<0.5	0.752	--	--	--	--	--	--	--	38.1

* Results of EPA 8010 test indicates that the detection of 1,1-Dichloroethane is 1.7 ppb.
** Chromatagram pattern indicates an unidentified hydrocarbon.
*** See Table of Additional Analyses

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	TOG	TPH-Diesel	Benzene (EPA 8240)	Xylene (EPA 8240)	1, 2-DCE	Carbon Disulfide	Vinyl Chloride	MTBE
MW-3																	
10/17/95	3.08	-1.34	4.42	***	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
03/29/96	3.08	0.08	3.00	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	26
06/26/96	3.08	-0.52	3.60	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	47
09/25/96	3.08	-1.06	4.14	--	<125	<1.2	<1.2	<1.2	<1.2	--	--	--	--	--	--	--	570
12/17/96	3.08	-0.12	3.20	--	<500	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	680
03/20/97	3.08	-0.22	3.30	--	<50	<5.7	<5.7	<5.7	<5.7	--	--	--	--	--	--	--	430
06/20/97	3.08	-0.78	3.86	--	<500	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	1400
09/09/97	3.08	-1.11	4.19	--	76**	22	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	920
12/12/97	3.08	0.12	2.96	--	52	15	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	710
02/19/98	3.08	0.86	2.22	--	<50	6.6	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	380
06/23/98	3.08	-0.17	3.25	*	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	390
08/31/98	3.08	-0.78	3.86	--	<50	19	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	830
12/29/98	3.08	-0.45	3.53	--	<250	<2.5	<2.5	<2.5	<2.5	--	--	--	--	--	--	--	416
MW-4																	
10/17/95	3.48	-1.60	5.08	--	<125	<1.2	<1.2	<1.2	<1.2	--	--	--	--	--	--	--	--
03/29/96	3.48	-1.13	4.61	--	<1000	<10	<10	<10	<10	--	--	--	--	--	--	--	6700
06/26/96	3.48	-0.82	4.30	--	<2000	<20	<20	<20	<20	--	--	--	--	--	--	--	7200
09/25/96	3.48	-1.85	5.33	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
12/17/96	3.48	0.67	2.81	--	<2000	120	<20	<20	<20	--	--	--	--	--	--	--	11,000
03/20/97	3.48	-1.02	4.50	--	250**	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	10,000
03/20/97	3.48	-1.02	4.50	Conf. run	--	--	--	--	--	--	--	--	--	--	--	--	8600
06/20/97	3.48	-2.20	5.68	--	<2500	<25	<25	<25	<25	--	--	--	--	--	--	--	9300
09/09/97	3.48	-2.02	5.50	--	460**	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	6600
12/12/97	3.48	-1.55	5.03	--	430**	120	<2.5	<2.5	<2.5	--	--	--	--	--	--	--	7800
02/19/98	3.48	0.13	3.35	--	510**	130	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	6600
06/23/98	3.48	-1.50	4.98	*	550**	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	6800
08/31/98	3.48	-1.94	5.42	--	<500	450	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	14,000
12/29/98	3.48	-1.58	5.06	--	<5000	<50	<50	<50	<50	--	--	--	--	--	--	--	16,100

* See Table of Additional Analyses

** Chromatagram pattern indicates an unidentified hydrocarbon.

*** Results of EPA 8015 test indicates that levels of Methanol and Methyl ethyl ketone are respetively <1000 and <200 ppb.

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	TOG	TPH-Diesel	Benzene (EPA 8240)	Xylene (EPA 8240)	1, 2-DCE	Carbon Disulfide	Vinyl Chloride	MTBE
TRIP BLANK																	
10/17/95																	
03/29/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--
06/26/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
09/25/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
12/17/96	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
03/20/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
06/20/97	--	--	--	--	<50	<2.0	<2.0	<2.0	<2.0	--	--	--	--	--	--	--	--
09/09/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
12/12/97	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
02/19/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
06/23/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
08/31/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.5
12/29/98	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	<2.0

Cumulative Table of Well Data and Analytical Results

ADDITIONAL ANALYSES

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

DATE	Notes	Ethanol	t-Butanol	MTBE	DIPE	ETBE	TAME
MW-1							
06/23/98	--	<50000	<10000	4500	<200	<200	<200
08/31/98	--	--	--	17,000	--	--	--
MW-2							
06/23/98	--	<500	<100	56	<2.0	<2.0	<2.0
MW-3							
06/23/98	--	<5000	<1000	420	<20	<20	26
MW-4							
06/23/98	--	<50000	<10000	11000	<200	<200	860

Note: Blaine Tech Services, Inc. began routine monitoring of the groundwater wells at this site on March 29, 1996. Earlier field data and analytical results are drawn from the December 29, 1995 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.
TOG = Total Oil Grease
MTBE = Methyl t-butyl Ether
DIPE = Di-Isopropl Ether
ETBE = Ethyl t-Butyl Ether
TAME = t-Amyl Methyl Ether
C-1,2 DCE = Cis-1,2-Dichloroethylene
Conf. run = Confirmation run

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

January 14, 1999

Christine Lillie
Blaine Tech/Chevron
1680 Rogers Ave.
San Jose, CA 95112

RE: Chevron/P901014

Dear Christine Lillie

Enclosed are the results of analyses for sample(s) received by the laboratory on December 31, 1998. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Matt Sakai
Project Manager

CA ELAP Certificate Number 2245

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
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech/Chevron	Project:	Chevron	Sampled:	12/29/98
1680 Rogers Ave.	Project Number:	9-1851/981229-S4	Received:	12/31/98
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported:	1/14/99

ANALYTICAL REPORT FOR P901014

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	P901014-01	Water	12/29/98
MW-2	P901014-02	Water	12/29/98
MW-3	P901014-03	Water	12/29/98
MW-4	P901014-04	Water	12/29/98
TB	P901014-05	Water	12/29/98

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
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech/Chevron	Project:	Chevron	Sampled: 12/29/98
1680 Rogers Ave.	Project Number:	9-1851/981229-S4	Received: 12/31/98
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 1/14/99

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1			**P901014-01**				**Water**	
Gasoline	9010074	1/6/99	1/6/99		500	ND	ug/l	
Benzene	"	"	"		5.00	ND	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		5.00	ND	"	
Methyl tert-butyl ether	"	"	"		20.0	**1090**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*108*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*99.0*	"	
MW-2			**P901014-02**				**Water**	
Gasoline	9010074	1/6/99	1/6/99		50.0	**54.0**	ug/l	
Benzene	"	"	"		0.500	**1.32**	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	**0.752**	"	
Methyl tert-butyl ether	"	"	"		2.00	**38.1**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*115*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*94.7*	"	
MW-3			**P901014-03**				**Water**	
Gasoline	9010074	1/6/99	1/7/99		250	ND	ug/l	
Benzene	"	"	"		2.50	ND	"	
Toluene	"	"	"		2.50	ND	"	
Ethylbenzene	"	"	"		2.50	ND	"	
Xylenes (total)	"	"	"		2.50	ND	"	
Methyl tert-butyl ether	"	"	"		10.0	**416**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*116*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*97.7*	"	
MW-4			**P901014-04**				**Water**	
Gasoline	9010074	1/6/99	1/7/99		5000	ND	ug/l	
Benzene	"	"	"		50.0	ND	"	
Toluene	"	"	"		50.0	ND	"	
Ethylbenzene	"	"	"		50.0	ND	"	
Xylenes (total)	"	"	"		50.0	ND	"	
Methyl tert-butyl ether	"	"	"		200	**16100**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*114*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*96.7*	"	
TB			**P901014-05**				**Water**	
Gasoline	9010074	1/6/99	1/7/99		50.0	ND	ug/l	

Sequoia Analytical

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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/Chevron	Project:	Chevron	Sampled: 12/29/98
1680 Rogers Ave.	Project Number:	9-1851/981229-S4	Received: 12/31/98
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 1/14/99

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
TB (continued)			**P901014-05**				**Water**	
Benzene	9010074	1/6/99	1/7/99		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*115*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*103*	"	

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Blaine Tech/Chevron	Project:	Chevron	Sampled: 12/29/98
1680 Rogers Ave.	Project Number:	9-1851/981229-S4	Received: 12/31/98
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported: 1/14/99

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9010074	**Date Prepared: 1/6/99**					**Extraction Method: EPA 5030 waters**				
Blank	**9010074-BLK1**									
Gasoline	1/6/99			**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**	"	**2.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*347*	"	*65.0-135*	*116*			
Surrogate: 4-Bromofluorobenzene	"	*300*		*303*	"	*65.0-135*	*101*			
LCS	**9010074-BS1**									
Benzene	1/6/99	100		115	ug/l	65.0-135	115			
Toluene	"	100		112	"	65.0-135	112			
Ethylbenzene	"	100		107	"	65.0-135	107			
Xylenes (total)	"	300		333	"	65.0-135	111			
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*357*	"	*65.0-135*	*119*			
Matrix Spike	**9010074-MS1**		**P901010-02**							
Benzene	1/6/99	100	ND	109	ug/l	65.0-135	**109**			
Toluene	"	100	ND	110	"	65.0-135	**110**			
Ethylbenzene	"	100	ND	104	"	65.0-135	**104**			
Xylenes (total)	"	300	ND	324	"	65.0-135	**108**			
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*313*	"	*65.0-135*	*104*			
Matrix Spike Dup	**9010074-MSD1**		**P901010-02**							
Benzene	1/6/99	100	ND	107	ug/l	65.0-135	**107**	20.0	**1.85**	
Toluene	"	100	ND	107	"	65.0-135	**107**	20.0	**2.76**	
Ethylbenzene	"	100	ND	102	"	65.0-135	**102**	20.0	**1.94**	
Xylenes (total)	"	300	ND	318	"	65.0-135	**106**	20.0	**1.87**	
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*316*	"	*65.0-135*	*105*			

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Blaine Tech/Chevron	Project:	Chevron	Sampled:	12/29/98
1680 Rogers Ave.	Project Number:	9-1851/981229-S4	Received:	12/31/98
San Jose, CA 95112	Project Manager:	Christine Lillie	Reported:	1/14/99

Notes and Definitions

#	Note
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

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 9-1851
Facility Address 451 Hegenberger Rd., Oakland
Consultant Project Number 981229-S4
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) DOUG SANDERS
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 + 8015 (8020)	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	HCl	12/29/98 1535	X													9901014-01
MW-2	3	W		1510	X													-02
MW-3	3	W		1455	X													-03
MW-4	3	W		1521	X													-04
TB	2	W		12/29/98	X													-05

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐ NA
COOLER TEMPERATURE 6 °C

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
	TBS	12/30/98 1018			12-30-98	
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
		12/30				
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	Iced Y/N
	Sequoia	12/31 1125			12/30	

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

Field
Data
Sheets

WELL GAUGING DATA

Project # 981229-54 Date 12-29-98 Client Chev. 9-1851

Site 451 Hegenberger Rd, 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					3.83	14.66	TOC	
MW-2	2					4.63	14.98		
MW-3	2					3.53	14.75		
MW-4	2					5.06	15.12		

CHEVRON WELL MONITORING DATA SHEET

Project #: 981229-54	Station #: 9-1851
Sampler: DOUG	Date: 12-29-98
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 14.66	Depth to Water: 3.83
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: ____

1.7 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 5.2 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1527	65.7	7.3	3340	1.5	light sheen
1529	64.3	7.3	3300	3.0	
1531	64.4	7.4	3310	5.5	

Did well dewater? Yes (No)		Gallons actually evacuated: 5.5	
Sampling Time: 1535		Sampling Date: 12-29-98	
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 #: 981229-54	Station #: 9-1851
Sampler: DOUG	Date: 12-29-98
Well I.D.: MW-2	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 14.98	Depth to Water: 4.63
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: ____

1.7	x	3	=	5.0 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1501	65.3	7.3	5810	2.0	
1503	64.8	7.2	5870	4.0	
1506	64.1	7.0	5900	5.0	
					*Reacts w/ HCl

Did well dewater? Yes (No)		Gallons actually evacuated: 5.0	
Sampling Time: 1510		Sampling Date: 12-29-98	
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 #: 981229-54	Station #: 9-1851
Sampler: DOUG	Date: 12-29-98
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 14.75	Depth to Water: 3.53
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 Case Volume (Gals.)		Specified Volumes		Calculated Volume
1.8	x	3	=	5.4 Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1446	64.3	6.8	4300	2.0	
1448	64.0	6.9	4290	4.0	
1450	64.7	6.8	4310	5.5	

Did well dewater? Yes (No)		Gallons actually evacuated: 5.5	
Sampling Time: 1455		Sampling Date: 12-29-98	
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

CHEVRON WELL MONITORING DATA SHEET

Project #: 981229-54	Station #: 9-1851
Sampler: DOUG	Date: 12-29-98
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 15.12	Depth to Water: 5.06
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: ____

1.6 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 4.8 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Gals. Removed	Observations
1515	65.3	7.2	3210	1.5	slight odor
1517	65.0	7.2	3230	3.0	
1519	64.9	7.1	3190	5.0	

Did well dewater? Yes (No)		Gallons actually evacuated: 5.0	
Sampling Time: 1521		Sampling Date: 12-29-98	
Sample I.D.: MW-4		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