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GETTLER-RYAN Inc.

TRANSMITTAL

April 29, 2002
G-R #386383

TO: Mr. James Brownell
Delta Environmental Consultants, Inc.
3164 Gold Camp Drive, Suite 200
Rancho Cordova, California 95670

CC: Ms. Karen Streich
Chevron Products Company
P.O. Box 6004
San Ramon, California 94583

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

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

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	April 25, 2002	Groundwater Monitoring and Sampling Report First Quarter - Event of March 15, 2002

COMMENTS:

This report is being sent for your review. Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to **May 13, 2002**, at which time the final report will be distributed to the following:

- cc: Ms. Eva Chu, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502-6577
- Mr. Greg Gurss, Gettler-Ryan Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670

Enclosures

trans/9-4800-ks



GETTLER-RYAN INC.

April 25, 2002
G-R Job #386383

Ms. Karen Streich
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

RE: First Quarter Event of March 15, 2002
Groundwater Monitoring & Sampling Report
Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

Dear Ms. Streich:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

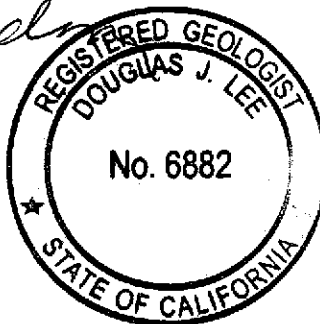
Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

Please call if you have any questions or comments regarding this report. Thank you.

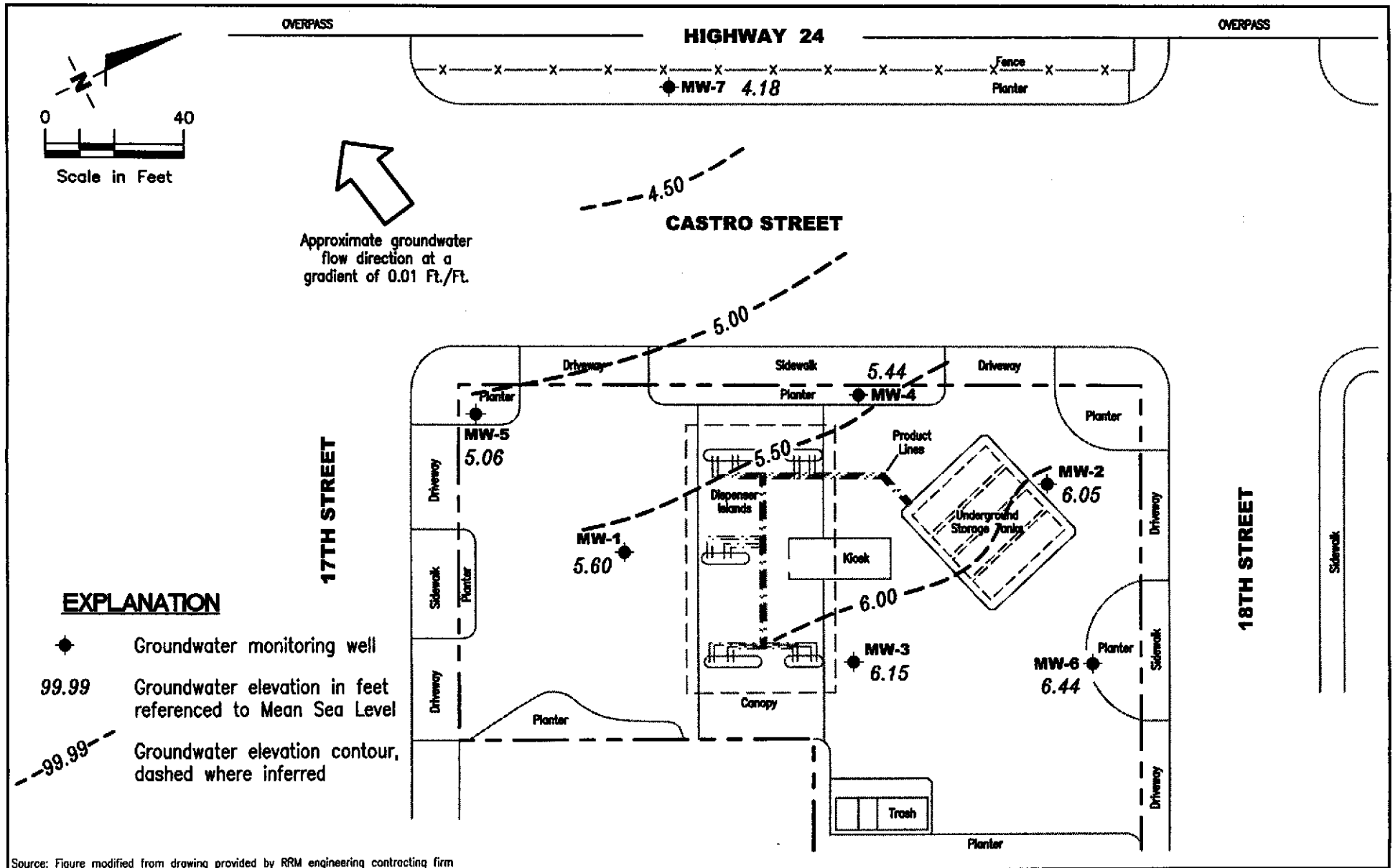
Sincerely,

Deanna L. Harding
Project Coordinator

Douglas J. Lee
Senior Geologist, R.G. No. 6882



- Figure 1: Potentiometric Map
- Table 1: Groundwater Monitoring Data and Analytical Results
- Table 2: Groundwater Analytical Results - Oxygenate Compounds
- Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by RRM engineering contracting firm

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

POTENTIOMETRIC MAP
 Chevron Service Station #9-4800
 1700 Castro Street
 Oakland, California

FIGURE

1

PROJECT NUMBER
 386383

REVIEWED BY

DATE
 March 15, 2002

REVISED DATE

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1										
06/04/97	30.75	4.39	25.82	71 ¹	890	100	110	29	150	<10
09/16/97	30.75	4.85	25.90	75 ¹	1,600	210	210	60	250	<10
12/17/97	30.75	4.88	25.87	65 ¹	940	120	100	41	160	<25
03/18/98	30.75	5.90	24.85	77 ¹	530	91	39	22	65	6.8
06/28/98	30.75	5.92	24.83	140 ¹	1,100	220	140	37	120	14
09/07/98	30.75	5.56	25.19	280 ¹	1,700	530	86	84	240	49
12/09/98	30.75	5.10	25.65	240 ¹	1,700	240	130	100	270	32
03/11/99	30.75	5.30	25.45	98 ¹	353	53.9	28.6	20.5	56.1	14.1
06/17/99	30.75	5.39	25.36	217 ¹	810	270	150	95	340	15
09/29/99	30.75	5.13	25.62	153 ¹	659	76	49.7	35.1	118	12.6
12/14/99	30.75	5.07	25.68	188 ^{1,2}	2,760	287	199	139	502	<12.5
03/09/00 ³	30.75	5.54	25.21	166 ¹	1,590	238	94.9	72.2	247	22.3
06/10/00	30.75	5.73	25.02	--	1,460	242	47.8	83.8	151	97.3
09/30/00	30.75	5.30	25.45	240 ⁷	650 ⁶	130	49	69	190	21
12/22/00	30.75	5.05	25.70	200 ⁹	640 ⁶	110	33	58	160	68
03/01/01	30.75	5.25	25.50	211 ⁷	1,500 ⁶	210	67.9	109	320	87.3
05/04/01	30.75	5.41	25.34	130 ⁷	991	127	32.6	73.0	137	95.4
09/05/01	30.75	5.16	25.59	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/21/01	30.75	5.17	25.58	210	2,000	220	16	110	400	34
03/15/02	30.75	5.60	25.15	--	--	--	--	--	--	--
MW-2										
06/04/97	30.00	5.13	24.87	4,000 ¹	13,000	790	30	420	1,700	4000
09/16/97	30.00	5.06	24.94	2,200 ¹	4,000	360	9.7	210	460	1500
12/17/97	30.00	5.18	24.82	2,100 ¹	4,100	380	<10	200	460	2100
03/18/98	30.00	6.43	23.57	3,700 ¹	8,400	1,800	<50	350	630	13,000
06/28/98 ⁴	30.00	6.21	23.79	4,400 ¹	9,300	740	340	710	2,300	3800
09/07/98	30.00	5.78	24.22	3,100 ¹	9,900	1,000	150	640	1,800	4500/4100 ⁵
12/09/98	30.00	5.31	24.69	1,900 ¹	8,500	860	74	610	960	2600/2600 ⁵
03/11/99	30.00	5.79	24.21	2,700 ¹	12,500	1,520	42.2	645	2,250	3400/5050 ⁵

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2 (cont)										
06/17/99	30.00	5.69	24.31	7,150 ¹	27,000	2,200	260	1500	5,900	4700
09/29/99	30.00	5.45	24.55	3,030 ¹	6910	582	11.1	491	1,170	1970
12/14/99	30.00	5.39	24.61	615 ^{1,2}	4230	282	12.3	284	690	631
03/09/00 ³	30.00	6.08	23.92	3,300 ¹	15,300	1,110	39.4	1,040	3,030	2,470
06/10/00	30.00	6.13	23.87	--	7,360	560	40.7	627	1,280	1,260
09/30/00	30.00	5.67	24.33	1,800 ⁷	3,600 ⁶	280	<10	420	430	290
12/22/00	30.00	5.39	24.61	870 ⁹	1,500 ⁶	100	<1.3	160	59	380
03/01/01	30.00	5.79	24.21	1,320 ⁷	2,340 ⁶	171	<5.00	238	157	864
05/04/01	30.00	5.83	24.17	3,100 ⁷	11,900	199	33.9	1,420	290	3,890
09/05/01	30.00	5.45	24.55	2,200	3,300	170	1.7	310	110	1,100
12/21/01	30.00	5.60	24.40	980	1,100	58	0.72	120	14	450
03/15/02	30.00	6.05	23.95	2,200	5,000	250	9.1	470	430	1,800
MW-3										
06/04/97	31.32	5.27	26.05	<50	190	26	20	1.5	16	8.2
09/16/97	31.32	5.17	26.15	<50	270	58	53	6.1	30	21
12/17/97	31.32	5.22	26.10	<50	290	50	54	8.1	37	21
03/18/98	31.32	6.42	24.90	<50	390	140	33	4.6	30	94
06/28/98	31.32	6.39	24.93	<50	290	90	11	1.6	13	150
09/07/98	31.32	5.97	25.35	<50	170	46	20	4.3	19	120
12/09/98	31.32	5.41	25.91	55 ¹	660	120	93	22	72	150
03/11/99	31.32	5.85	25.47	<50	653	136	69.5	13.7	63.8	144
06/17/99	31.32	5.90	25.42	103 ¹	530	190	110	24	88	210
09/29/99	31.32	5.61	25.71	232 ¹	433	97.8	61.4	16.9	56.6	156
12/14/99	31.32	5.55	25.77	<50 ²	8650	1040	795	212	800	995
03/09/00 ³	31.32	6.14	25.18	74.6 ¹	1170	304	103	25.2	114	539
06/10/00	31.32	6.29	25.03	--	359	63.8	27.8	10.5	35.4	393
09/30/00	31.32	5.79	25.53	100 ⁸	220 ⁶	42	33	12	38	67
12/22/00	31.32	5.52	25.80	110 ⁹	370 ⁶	96	48	18	58	180
03/01/01	31.32	5.75	25.57	144 ⁷	912 ⁶	218	89.0	36.0	110	310

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (mst)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3 (cont)										
05/04/01	31.32	5.96	25.36	<50	1,260	146	79.6	38.2	101	1,070
09/05/01	31.32	5.61	25.71	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
12/21/01	31.32	5.67	25.65	180	850	160	11	32	84	300
03/15/02	31.32	6.15	25.17	--	--	--	--	--	--	--
MW-4										
04/08/99	30.13	--	--	--	130	3.1	<0.5	<0.5	7.7	4,700
06/17/99	30.13	5.19	24.94	3,780 ¹	590	58	<5.0	<5.0	160	6,200
09/29/99	30.13	4.96	25.17	1,130 ¹	692	10.7	<2.5	5.51	236	7,840
12/14/99	30.13	4.91	25.22	571 ^{1,2}	625	<10	3.83	<10	94.6	4,470
03/09/00 ³	30.13	5.45	24.68	600 ¹	402	3.76	1.18	<0.5	71.4	3,140
06/10/00	30.13	5.53	24.60	--	<1,000	13.2	<10.0	<10.0	97.8	3,080
09/30/00	30.13	5.09	25.04	1,400 ⁷	280 ⁶	21	0.67	6.3	60	3,300
12/22/00	30.13	4.90	25.23	740 ⁹	240 ⁶	2.2	<0.50	1.3	25	2,200
03/01/01	30.13	5.15	24.98	661 ⁷	193	2.31	<0.500	1.34	12.1	1,220
05/04/01	30.13	5.25	24.88	1,100 ⁷	722	12.0	<5.00	17.1	89.4	2,390
09/05/01	30.13	4.96	25.17	2,500	1,400	23	2.2	19	260	2,300
12/21/01	30.13	5.06	25.07	1,100	310	2.9	<0.50	2.6	32	860
03/15/02	30.13	5.44	24.69	3,100	520	5.0	<0.50	15	6.8	2,700
MW-5										
04/08/99	30.93	--	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/17/99	30.93	4.93	26.00	53.8 ¹	<50	<0.5	<0.5	<0.5	<0.5	<2.5
09/29/99	30.93	4.73	26.20	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/14/99	30.93	4.61	26.32	<50 ²	<50	<0.5	<0.5	<0.5	<0.5	0.598
03/09/00 ³	30.93	5.00	25.93	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/10/00	30.93	5.21	25.72	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
09/30/00	30.93	4.79	26.14	130 ⁸	<50	<0.50	<0.50	<0.50	<0.50	<2.5
12/22/00	30.93	4.60	26.33	250 ⁸	<50	<0.50	<0.50	<0.50	<0.50	9.1

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (msl)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)		
MW-5 (cont)												
03/01/01	30.93	4.77	26.16	77.4 ⁷	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50		
05/04/01	30.93	4.89	26.04	NOT SAMPLED DUE TO INSUFFICIENT WATER							--	--
09/05/01	30.93	4.72	26.21	SAMPLED SEMI-ANNUALLY							--	--
12/21/01	30.93	4.73	26.20	110	<50	<0.50	<0.50	<0.50	<1.5	<2.5		
03/15/02	30.93	5.06	25.87	--	--	--	--	--	--	--		
MW-6												
04/08/99	30.58	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	4.5		
06/17/99	30.58	5.99	24.59	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
09/29/99	30.58	5.81	24.77	<50	<50	<0.5	<0.5	<0.5	<0.5	4.46		
12/14/99	30.58	5.74	24.84	<50 ²	<50	<0.5	<0.5	<0.5	<0.5	4.13		
03/09/00 ³	30.58	6.49	24.09	<50	<50	<0.5	<0.5	<0.5	<0.5	2.82		
06/10/00	30.58	6.58	24.00	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50		
09/30/00	30.58	6.00	24.58	110 ⁸	<50	<0.50	<0.50	<0.50	<0.50	7.3		
12/22/00	30.58	5.75	24.83	100 ⁸	<50	<0.50	<0.50	<0.50	<0.50	4.5		
03/01/01	30.58	6.07	24.51	141 ⁷	<50.0	<0.500	<0.500	<0.500	<0.500	7.52		
05/04/01	30.58	6.26	24.32	<50	<50.0	<0.500	<5.00	<5.00	<5.00	2.74		
09/05/01	30.58	5.99	24.59	SAMPLED SEMI-ANNUALLY							--	--
12/21/01	30.58	5.93	24.65	200	<50	<0.50	<0.50	<0.50	<1.5	8.5		
03/15/02	30.58	6.44	24.14	--	--	--	--	--	--	--		
MW-7												
05/04/01 ¹¹	31.90	4.03	27.87	<50	<50.0	<0.500	<5.00	<5.00	<5.00	567/470 ¹²		
09/05/01	31.90	3.86	28.04	<50	<50	<0.50	<0.50	<0.50	<1.5	1,400/1,300 ¹²		
12/21/01	31.90	3.04	28.86	210	<50	<0.50	<0.50	<0.50	<1.5	620/670 ¹²		
03/15/02	31.90	4.18	27.72	<50	<50	<0.50	<0.50	<0.50	<1.5	320/350 ¹²		

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

WELL ID/ DATE	TOC* (ft.)	GWE (mst)	DTW (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
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
06/17/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/14/99	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
03/09/00 ³	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/10/00	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
09/30/00	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
12/22/00 ¹⁰	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
03/01/01	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/04/01	--	--	--	--	<50.0	<0.500	<5.00	<5.00	<5.00	<0.500
09/05/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
QA										
12/21/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/15/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to June 10, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing	TPH-G = Total Petroleum Hydrocarbons as Gasoline	-- = Not Measured/Not Analyzed
(ft.) = Feet	B = Benzene	(ppb) = Parts per Billion
GWE = Groundwater Elevation	T = Toluene	QA = Quality Assurance
(msl) = Mean sea level	E = Ethylbenzene	
DTW = Depth to Water	X = Xylenes	
TPH-D = Total Petroleum Hydrocarbons as Diesel	MTBE = Methyl tertiary butyl ether	

* TOC elevation was surveyed on April 11, 2001, by Virgil Chavez Land Surveying. The benchmark for the survey was the top of curb at the south end of the return at the southeast corner of Castro Street and 18th Street. (Benchmark Elevation = 29.65 feet, msl).

- 1 Chromatogram pattern indicates an unidentified hydrocarbon.
- 2 Sample was extracted outside EPA recommended holding time.
- 3 TPH-G, B, T, E, X and MTBE was analyzed outside EPA recommended holding time.
- 4 EPA Method 8240.
- 5 Confirmation run.
- 6 Laboratory report indicates gasoline C6-C12.
- 7 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 8 Laboratory report indicates unidentified hydrocarbons >C16.
- 9 Laboratory report indicates unidentified hydrocarbons C9-C40.
- 10 Laboratory report indicates this sample was analyzed outside of the EPA recommended holding time.
- 11 Well development performed.
- 12 MTBE by EPA Method 8260.

Table 2
Groundwater Analytical Results - Oxygenate Compounds
Chevron Service Station #9-4800
1700 Castro Street
Oakland, California

WELL ID/ DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)
MW-4 04/08/99	<25,000	<5000	5400	<100	<100	<100
MW-5 04/08/99	<500	<100	<2.0	<2.0	<2.0	<2.0
MW-6 04/08/99	<500	<100	5.6	<2.0	<2.0	<2.0
MW-7 05/04/01	<500	57	470	<2.0	<2.0	11
09/05/01	<500	<100	1,300	<2	<2	32
12/21/01	<500	<100	670	<2	<2	15
03/15/02	<500	<100	350	<2	<2	8

EXPLANATIONS:

Groundwater laboratory analytical results prior to May 4, 2001, were compiled from reports prepared by Blaine Tech Services, Inc.

TBA = Tertiary butyl alcohol

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

(ppb) = Parts per billion

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 an 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.**

Client/CHEVRON

Facility # 9-4800

Job#: 386383

Address: 1700 Casteo St.

Date: 3/15/02

City: Oakland, CA

Sampler: TC

Well ID MW-1

Well Condition: ok

Well Diameter 2 in.

Hydrocarbon Thickness: 0 (feet) Amount Bailed (Gallons): 0

Total Depth 29.90 ft.

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

Depth to Water 25.15 ft.

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer
Bailer
Stack Suction N/A
Grundfos
Other: _____

Sampling Equipment: Disposable Bailer
Bailer
Pressure Bailer N/A
Grab Sample
Other: _____

Starting Time: _____

Weather Conditions: _____

Sampling Time: _____

Water Color: _____ Odor: _____

Purging Flow Rate: _____ gpm.

Sediment Description: _____

Did well de-water? _____

If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
_____	_____	Y	_____	LANCASTER	TPH(G)/btex/mtbe
_____	_____				
_____	_____				
_____	_____				

COMMENTS: MONITORED ONLY / TOOK TOTAL WELL DEPTH.
REPLACED 2" PLUG AND MASTER LOCK 5910

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/CHEVRON

Facility # 9-4820

Job#: 386383

Address: 1700 Casteo St.

Date: 3/15/02

City: Oakland, CA

Sampler: TC

Well ID MW-2

Well Condition: OK

Well Diameter 2 in.

Hydrocarbon Thickness: Ø (feet) Amount Bailed (product/water): Ø (Gallons)

Total Depth 29.65 ft.

Depth to Water 23.95 ft.

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

5.70 x VF 0.17 = .96 x 3 (case volume) = Estimated Purge Volume: 3.0 (gal.)

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

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

Starting Time: 1133

Weather Conditions: clear

Sampling Time: 1143

Water Color: cloudy Odor: YES

Purging Flow Rate: _____ gpm.

Sediment Description: _____

Did well de-water? NO

If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1134</u>	<u>1.0</u>	<u>7.24</u>	<u>1248</u>	<u>67.4</u>			
<u>1136</u>	<u>2.0</u>	<u>7.16</u>	<u>1296</u>	<u>66.8</u>			
<u>1138</u>	<u>3.0</u>	<u>7.20</u>	<u>1310</u>	<u>66.6</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>3X VOAVIAL</u>	<u>Y</u>	<u>HC</u>	<u>LANCASTER</u>	<u>TPH(G)/btex/mtbe</u>
<u>MW-2</u>	<u>2X AMBER</u>	<u>Y</u>	<u>MP</u>	<u>" "</u>	<u>TPH.D</u>

COMMENTS: Took total well depth.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/CHEVRON

Facility # 9-4800

Job#: 386383

Address: 1700 Casteo St.

Date: 3/15/02

City: Oakland, CA

Sampler: TC

Well ID MW-3

Well Condition: ok

Well Diameter 2 in.

Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth 29.41 ft.

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

Depth to Water 25.17 ft.

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: ~~Disposable Bailer~~
~~Bailer~~
~~Stack~~ N/A
~~Suction~~
~~Grundfos~~
Other: _____

Sampling Equipment: ~~Disposable Bailer~~
~~Bailer~~
~~Pressure Bailer~~ N/A
~~Grab Sample~~
Other: _____

Starting Time: _____

Weather Conditions: _____

Sampling Time: _____

Water Color: _____ Odor: _____

Purging Flow Rate: _____ gpm.

Sediment Description: _____

Did well de-water? _____

If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
/	/	Y	/	LANCASTER	TPH(G)/btex/mnba
/	/		/		/
/	/		/		/
/	/		/		/

COMMENTS: MONITORED ONLY / TOOK TOTAL WELL DEPTH.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET**

Client/CHEVRON

Facility # 9-4800

Job#: 386383

Address: 1700 Casteo St.

Date: 3/15/02

City: Oakland, CA

Sampler: FL

Well ID MW-4

Well Condition: ok

Well Diameter 2 in.

Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth 28.29 ft.

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

Depth to Water 24.69 ft.

3.60 x VF .17 = .61 x 3 (case volume) = Estimated Purge Volume: 2.0 (gal.)

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

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

Starting Time: 11:56

Weather Conditions: Partly Cloudy

Sampling Time: 12:05

Water Color: Cloudy Odor: yes

Purging Flow Rate: _____ gpm.

Sediment Description: _____

Did well de-water? no

If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1157</u>	<u>.50</u>	<u>7.41</u>	<u>1182</u>	<u>66.9</u>			
<u>1158</u>	<u>1.5</u>	<u>7.32</u>	<u>1116</u>	<u>66.4</u>			
<u>1159</u>	<u>2.0</u>	<u>7.22</u>	<u>1121</u>	<u>66.0</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>3X VOADIAL</u>	<u>Y</u>	<u>HEL</u>	<u>LANCASTER</u>	<u>TPH(G)/btex/mtbe</u>
<u>MW-4</u>	<u>2X AMBU</u>	<u>Y</u>	<u>NP</u>	<u>" "</u>	<u>TPH-D</u>

COMMENTS: TOOK TOTAL WELL DEPTH.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/ **CHEVRON**

Facility # 9-4800

Job#: 386383

Address: 1700 Castro St.

Date: 3/15/02

City: Oakland, CA

Sampler: TC

Well ID MW-5

Well Condition: ok

Well Diameter 2 in.

Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth 27.95 ft.

Depth to Water 25.87 ft.

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

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: ~~Disposable Bailer~~
~~Bailer~~
~~Stack Suction~~ N/A
~~Grundfos~~
~~Other:~~ _____

Sampling Equipment: ~~Disposable Bailer~~
~~Bailer~~
~~Pressure Bailer~~ N/A
~~Grab Sample~~
~~Other:~~ _____

Starting Time: _____
Sampling Time: _____
Purging Flow Rate: _____ gpm.
Did well de-water? _____

Weather Conditions: _____
Water Color: _____ Odor: _____
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
		Y		LANCASTER	TPH(G)/btex/rmtbe

COMMENTS: MONITORED ONLY / TOOK TOTAL WELL DEPTH.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/ **CHEVRON**

Facility # 9-4800

Job #: 386383

Address: 1700 Casteo St.

Date: 3/15/02

City: Oakland, CA

Sampler: R

Well ID MW-6

Well Condition: ok

Well Diameter 2 in.

Hydrocarbon Thickness: 0 (feet) Amount Bailed (Gallons) 0

Total Depth 28.06 ft.

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

Depth to Water 24.14 ft.

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: ~~Disposable Bailer~~
~~Bailer~~
~~Stack~~
~~Suction~~ N/A
~~Grundfos~~
~~Other:~~ _____

Sampling Equipment: ~~Disposable Bailer~~
~~Bailer~~
~~Pressure Bailer~~ N/A
~~Grab Sample~~
~~Other:~~ _____

Starting Time: _____
Sampling Time: _____
Purging Flow Rate: _____ gpm.
Did well de-water? _____

Weather Conditions: _____
Water Color: _____ Odor: _____
Sediment Description: _____
If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
		Y		LANCASTER	TPHIG)/btex/mtbe

COMMENTS: MONITORED only / TOOK TOTAL well DEPTH.

**WELL MONITORING/SAMPLING
FIELD DATA SHEET.**

Client/ CHEVRON

Facility # 9-4800

Job#: 386383

Address: 1700 Casteo St.

Date: 3/15/02

City: Oakland, CA

Sampler: TC

Well ID MW-7

Well Condition: o.k

Well Diameter 2 in.

Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth 30.00 ft.

Depth to Water 27.92 ft.

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

2.28 X VF .17 = .38 X 3 (case volume) = Estimated Purge Volume: 1.0 (gal.)

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

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

Starting Time: 1215

Weather Conditions: clear

Sampling Time: 1226

Water Color: LT. BROWN Odor: SLIGHT

Purging Flow Rate: _____ gpm.

Sediment Description: _____

Did well de-water? NO

If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity μ mhos/cm	Temperature $^{\circ}$ F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
<u>1216</u>	<u>.25</u>	<u>7.21</u>	<u>1348</u>	<u>66.9</u>			
<u>1217</u>	<u>.50</u>	<u>7.04</u>	<u>1318</u>	<u>66.2</u>			
<u>1218</u>	<u>1.0</u>	<u>7.02</u>	<u>1326</u>	<u>66.4</u>			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>6 X 2000 ML</u>	<u>Y</u>	<u>HC</u>	<u>LANCASTER</u>	<u>TPH(G)/btex/mtbe (3)/OXY-ETRAHCSL</u>
<u>MW-7</u>	<u>2 X 1000 ML</u>	<u>Y</u>	<u>NP</u>	<u>" "</u>	<u>TPH-D</u>

COMMENTS: TOOK TOTAL WELL DEPTH

Chevron California Region Analysis Request/Chain of Custody



For Lancaster Laboratories use only
 Acct. #: 10905 Sample #: 3190635-38 SCR#: _____

180302-015

Facility #: 9-4800 Job #386383 Global ID #T0600102076
 Site Address: 1700 CASTRO ST., OAKLAND, CA
 Chevron PM: Tom Bauhs Lead Consultant: Delta/G-R
 Consultant/Office: G-R, Inc., 6747 Sierra Court, Dublin, Ca 94568
 Consultant Prj. Mgr.: Deanna L. Harding (Deanna@grinc.com)
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7899
 Sampler: Tony Camarda
 Service Order #: _____ Non SAR: _____

Matrix		Analyses Requested										
		Preservation Codes										
Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates + ETHANO	Lead 7420	7421
					<input checked="" type="checkbox"/> 8021							

Preservative Codes
 H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

J value reporting needed
 Must meet lowest detection limits possible for 8260 compounds
 8021 MTBE Confirmation
 Confirm highest hit by 8260
 Confirm all hits by 8260
 Run ___ oxy s on highest hit
 Run ___ oxy s on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenates + ETHANO	Lead 7420	7421	
QA	3/15/02					X			2	X	X							
MW-2		1143	X			X			5	X	X	X						
MW-4		1205	X			X			5	X	X	X						
MW-7		1226	X			X			8	X	X	X			X			

Comments / Remarks

Turnaround Time Requested (TAT) (please circle)

STD. TAT
 24 hour 48 hour
 4 day 5 day

Data Package Options (please circle if required)

QC Summary Type I — Full
 Type VI (Raw Data) Coelt Deliverable not needed
 WIP (RWQCB)
 Disk

Relinquished by: <u>Tony Camarda</u>	Date: <u>3/15/02</u>	Time: <u>1320</u>	Received by: <u>[Signature]</u>	Date: <u>3/18/02</u>	Time: <u>1220</u>
Relinquished by: <u>[Signature]</u>	Date: <u>3/18/02</u>	Time: <u>1405</u>	Received by: <u>Andres Amaya</u>	Date: <u>3-18-02</u>	Time: <u>1405</u>
Relinquished by: <u>Andres Amaya</u>	Date: <u>3/18/02</u>	Time: <u>15:30</u>	Received by: <u>A. Vane</u>	Date: <u>3-18-02</u>	Time: _____
Relinquished by Commercial Carrier: UPS	FedEx Other: <u>Airborne</u>		Received by: <u>[Signature]</u>	Date: <u>03/19/02</u>	Time: <u>0850</u>
Temperature Upon Receipt: <u>1.0 2.8</u>	Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				



Lancaster Laboratories

Where quality is a science.

ANALYTICAL RESULTS

Prepared for:

Chevron Products Company
6001 Bollinger Canyon Road
Building L PO Box 6004
San Ramon CA 94583-0904
925-842-8582

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

RECEIVED

APR 03 2002

GETTLER-RYAN INC.
GENERAL CONTRACTOR

SAMPLE GROUP

The sample group for this submittal is 800788. Samples arrived at the laboratory on Tuesday, March 19, 2002. The PO# for this group is 99011184 and the release number is BAUHS.

Client Description

<u>Client Description</u>	<u>NA</u>	<u>Water</u>
QA-T-020315		
MW-2-W-020315	Grab	Water
MW-4-W-020315	Grab	Water
MW-7-W-020315	Grab	Water

Lancaster Labs Number

3790635
3790636
3790637
3790638

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

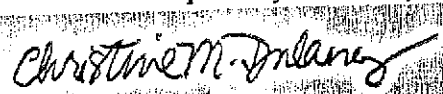
1 COPY TO

Delta C/O Gettler-Ryan

Attn: Deanna L. Harding

Questions? Contact your Client Services Representative
Teresa M Lis at (717) 656-2300.

Respectfully Submitted,


Christine M. Dulaney
Sr. Chemist



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3790635

Collected: 03/15/2002 00:00

Account Number: 10905

Submitted: 03/19/2002 08:50

Chevron Products Company

Reported: 04/01/2002 at 14:57

6001 Bollinger Canyon Road

Discard: 05/02/2002

Building L PO Box 6004

QA-T-020315

NA

Water

San Ramon CA 94583-0904

Facility# 94800 Job# 386383

GRD

1700 Castro St-Oakland T0600102076 QA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	N.D.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	N.D.	2.5	ug/l	1
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/23/2002 03:34	John B Kiser	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/23/2002 03:34	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/23/2002 03:34	John B Kiser	n.a.

#=Laboratory Method Detection Limit exceeded target detection limit
 N.D.=Not detected at or above the Reporting Limit



Lancaster Laboratories, Inc.
 2425 New Holland Pike
 PO Box 12425
 Lancaster, PA 17605-2425
 717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3790636

Collected: 03/15/2002 11:43 by TC

Account Number: 10905

Submitted: 03/19/2002 08:50

Chevron Products Company

Reported: 04/01/2002 at 14:57

6001 Bollinger Canyon Road

Discard: 05/02/2002

Building L PO Box 6004

MW-2-W-020315

Grab

Water

San Ramon CA 94583-0904

Facility# 94800 Job# 386383 GRD
1700 Castro St-Oakland T0600102076 MW-2

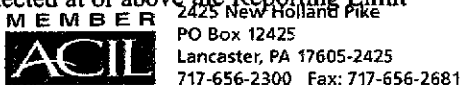
CSMW2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	n.a.	2,200.	200.	ug/l	10
According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters	n.a.	5,000.	50.	ug/l	1
The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	250.	0.50	ug/l	1
00777	Toluene	108-88-3	9.1	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	470.	2.0	ug/l	10
00779	Total Xylenes	1330-20-7	430.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	1,800.	3.0	ug/l	10
A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.						

State of California Lab Certification No. 2116

Laboratory Chronicle

#=Laboratory Method Detection Limit exceeded target detection limit
N.D.=Not detected at or above the Reporting Limit





Lancaster Laboratories Sample No. WW 3790636

Collected: 03/15/2002 11:43 by TC

Account Number: 10905

Submitted: 03/19/2002 08:50

Chevron Products Company

Reported: 04/01/2002 at 14:57

6001 Bollinger Canyon Road

Discard: 05/02/2002

Building L PO Box 6004

MW-2-W-020315

Grab Water

San Ramon CA 94583-0904

Facility# 94800 Job# 386383 GRD
1700 Castro St-Oakland T0600102076 MW-2

CSMW2		Analysis				Dilution
CAT	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	03/27/2002 23:38	Devin M Lahr	10
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/23/2002 00:53	John B Kiser	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/22/2002 23:17	John B Kiser	10
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/23/2002 00:53	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/22/2002 23:17	John B Kiser	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	03/21/2002 09:20	William P Stafford	1

#=Laboratory Method Detection Limit exceeded target detection limit

N.D.=Not detected at or above the Reporting Limit



Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681



Lancaster Laboratories Sample No. WW 3790637

Collected: 03/15/2002 12:05 by TC

Account Number: 10905

Submitted: 03/19/2002 08:50

Chevron Products Company

Reported: 04/01/2002 at 14:57

6001 Bollinger Canyon Road

Discard: 05/02/2002

Building L PO Box 6004

MW-4-W-020315

Grab Water

San Ramon CA 94583-0904

Facility# 94800 Job# 386383 GRD

1700 Castro St-Oakland T0600102076 MW-4

CSMW4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters) According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.	n.a.	3,100.	50.	ug/l	2
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.	n.a.	520.	50.	ug/l	1
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	5.0	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	15.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	6.8	1.5	ug/l	1
00780	Methyl tert-Butyl Ether A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.	1634-04-4	2,700.	3.0	ug/l	10

State of California Lab Certification No. 2116

Laboratory Chronicle

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Analysis Report



Lancaster Laboratories Sample No. WW 3790637

Collected: 03/15/2002 12:05 by TC

Account Number: 10905

Submitted: 03/19/2002 08:50

Reported: 04/01/2002 at 14:57

Discard: 05/02/2002

MW-4-W-020315

Grab Water

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

Facility# 94800 Job# 386383 GRD
1700 Castro St-Oakland T0600102076 MW-4

CSMW4

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	03/28/2002 00:21	Devin M Lahr	2
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/23/2002 00:21	John B Kiser	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/22/2002 22:44	John B Kiser	10
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/23/2002 00:21	John B Kiser	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/22/2002 22:44	John B Kiser	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	03/21/2002 09:20	William P Stafford	1

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Lancaster Laboratories Sample No. WW 3790638

Collected: 03/15/2002 12:26 by TC

Account Number: 10905

Submitted: 03/19/2002 08:50

Chevron Products Company

Reported: 04/01/2002 at 14:57

6001 Bollinger Canyon Road

Discard: 05/02/2002

Building L PO Box 6004

MW-7-W-020315

Grab

Water

San Ramon CA 94583-0904

Facility# 94800 Job# 386383 GRD

1700 Castro St-Oakland T0600102076 MW-7

CSMW7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
05553	TPH - DRO CA LUFT (Waters) According to the California LUFT Protocol, the quantitation for Diesel Range Organics was performed by peak area comparison of the sample pattern to that of our #2 fuel oil reference standard (between C10 and C28 normal hydrocarbons). Site-specific MS/MSD samples were not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.	n.a.	N.D.	50.	ug/l	1
01729	TPH-GRO - Waters					
01730	TPH-GRO - Waters The reported concentration of TPH-GRO does not include MTBE or other gasoline constituents eluting prior to the C6 (n-hexane) TPH-GRO range start time. A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.	n.a.	N.D.	50.	ug/l	1
08214	BTEX, MTBE (8021)					
00776	Benzene	71-43-2	N.D.	0.50	ug/l	1
00777	Toluene	108-88-3	N.D.	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether A site-specific MSD sample was not submitted for the project. A LCS/LCSD was performed to demonstrate precision and accuracy at a batch level.	1634-04-4	320.	2.5	ug/l	1
01594	BTEX + Oxygenates by 8260B					
01587	Ethanol	64-17-5	N.D.	500.	ug/l	1
02010	Methyl t-butyl ether	1634-04-4	350.	3.0	ug/l	5
02011	di-Isopropyl ether	108-20-3	N.D.	2.	ug/l	1
02013	Ethyl t-butyl ether	637-92-3	N.D.	2.	ug/l	1
02014	t-Amyl methyl ether	994-05-8	8.	2.	ug/l	1

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Lancaster Laboratories Sample No. **WW 3790638**

Collected: 03/15/2002 12:26 by TC

Account Number: 10905

Submitted: 03/19/2002 08:50

Chevron Products Company

Reported: 04/01/2002 at 14:57

6001 Bollinger Canyon Road

Discard: 05/02/2002

Building L PO Box 6004

MW-7-W-020315 Grab Water

San Ramon CA 94583-0904

Facility# 94800 Job# 386383 GRD

1700 Castro St-Oakland T0600102076 MW-7

CSMW7

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method		Units	Dilution Factor
				Detection Limit			
02015	t-Butyl alcohol	75-65-0	N.D.	100.		ug/l	1

State of California Lab Certification No. 2116

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time		Analyst	Dilution Factor
				Date	Time		
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	03/27/2002	21:04	Devin M Lahr	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/22/2002	23:49	John B Kiser	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	03/22/2002	23:49	John B Kiser	1
01594	BTEX + Oxygenates by 8260B	SW-846 8260B	1	03/21/2002	19:13	Roy R Mellott Jr	1
01594	BTEX + Oxygenates by 8260B	SW-846 8260B	1	03/21/2002	19:40	Roy R Mellott Jr	5
01146	GC VOA Water Prep	SW-846 5030B	1	03/22/2002	23:49	John B Kiser	n.a.
01163	GC/MS VOA Water Prep	SW-846 5030B	1	03/21/2002	19:13	Roy R Mellott Jr	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	03/21/2002	09:20	William P Stafford	1

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-Not detected at or above the Reporting Limit



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Lancaster Laboratories

Where Quality is a Control Summary

Client Name: Chevron Products Company
 Reported: 04/01/02 at 02:57 PM

Group Number: 800788

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 020790008A Sample number(s): 3790636-3790638								
TPH - DRO CA LUFT (Waters)	N.D.	50.	ug/l	104	100	54-120	4	20
Batch number: 02081A16A Sample number(s): 3790635-3790638								
Benzene	N.D.	0.5	ug/l	106	109	80-118	3	30
Toluene	N.D.	0.5	ug/l	106	108	82-119	2	30
Ethylbenzene	N.D.	0.5	ug/l	105	107	81-119	2	30
Total Xylenes	N.D.	1.5	ug/l	106	108	82-120	2	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	100	102	79-127	2	30
TPH-GRO - Waters	N.D.	50.	ug/l	91	87	76-126	5	30
Batch number: V020801AA Sample number(s): 3790638								
Ethanol	N.D.	500.	ug/l	67		44-139		
Methyl t-butyl ether	N.D.	2.	ug/l	105		77-127		
di-Isopropyl ether	N.D.	2.	ug/l	94		74-125		
Ethyl t-butyl ether	N.D.	2.	ug/l	109		74-120		
t-Amyl methyl ether	N.D.	2.	ug/l	112		71-114		
t-Butyl alcohol	N.D.	100.	ug/l	91		59-139		

Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 02081A16A Sample number(s): 3790635-3790638									
Benzene	111		77-131						
Toluene	111		80-128						
Ethylbenzene	110		76-132						
Total Xylenes	110		76-132						
Methyl tert-Butyl Ether	99		61-144						
TPH-GRO - Waters	104		74-132						
Batch number: V020801AA Sample number(s): 3790638									
Ethanol	57*	58*	70-130	1	30				
Methyl t-butyl ether	107	107	69-134	0	30				
di-Isopropyl ether	92	90	68-133	1	30				
Ethyl t-butyl ether	109	107	73-123	2	30				
t-Amyl methyl ether	112	110	69-118	1	30				
t-Butyl alcohol	95	89	51-148	6	30				

Surrogate Quality Control

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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Lancaster Laboratories Quality Control Summary

Page 2 of 2

Client Name: Chevron Products Company
Reported: 04/01/02 at 02:57 PM

Group Number: 800788

Surrogate Quality Control

Analysis Name: TPH - DRO CA LUFT (Waters)
Batch number: 020790008A
Orthoterphenyl

MAY 16 2002

3790636	110
3790637	115
3790638	89
Blank	96
LCS	108
LCSD	102

Limits: 59-139

Analysis Name: TPH-GRO - Waters
Batch number: 02081A16A
Trifluorotoluene-F

Trifluorotoluene-P

3790635	80	103
3790636	115	125
3790637	101	130
3790638	82	107
Blank	80	105
LCS	121	104
LCSD	119	103
MS	123	103

Limits: 67-135

71-130

Analysis Name: BTEX + Oxygenates by 8260B
Batch number: V020801AA

Dibromofluoromethane

1,2-Dichloroethane-d4

Toluene-d8

4-Bromofluorobenzene

3790638	104	96	107	113
Blank	107	101	108	112
LCS	107	101	102	112
MS	106	98	109	112
MSD	104	101	109	112

Limits: 86-118

80-120

88-110

86-115

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



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