120-342

GETTLER-RYAN INC.

TRANSMITTAL

October 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

Alameda County
NOV 15 2002
Environmental Health

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	October 15, 2002	Groundwater Monitoring and Sampling Report Third Quarter - Event of September 6, 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 ***November 12, 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.

October 15, 2002
G-R Job #386383

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

RE: Third Quarter Event of September 6, 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.

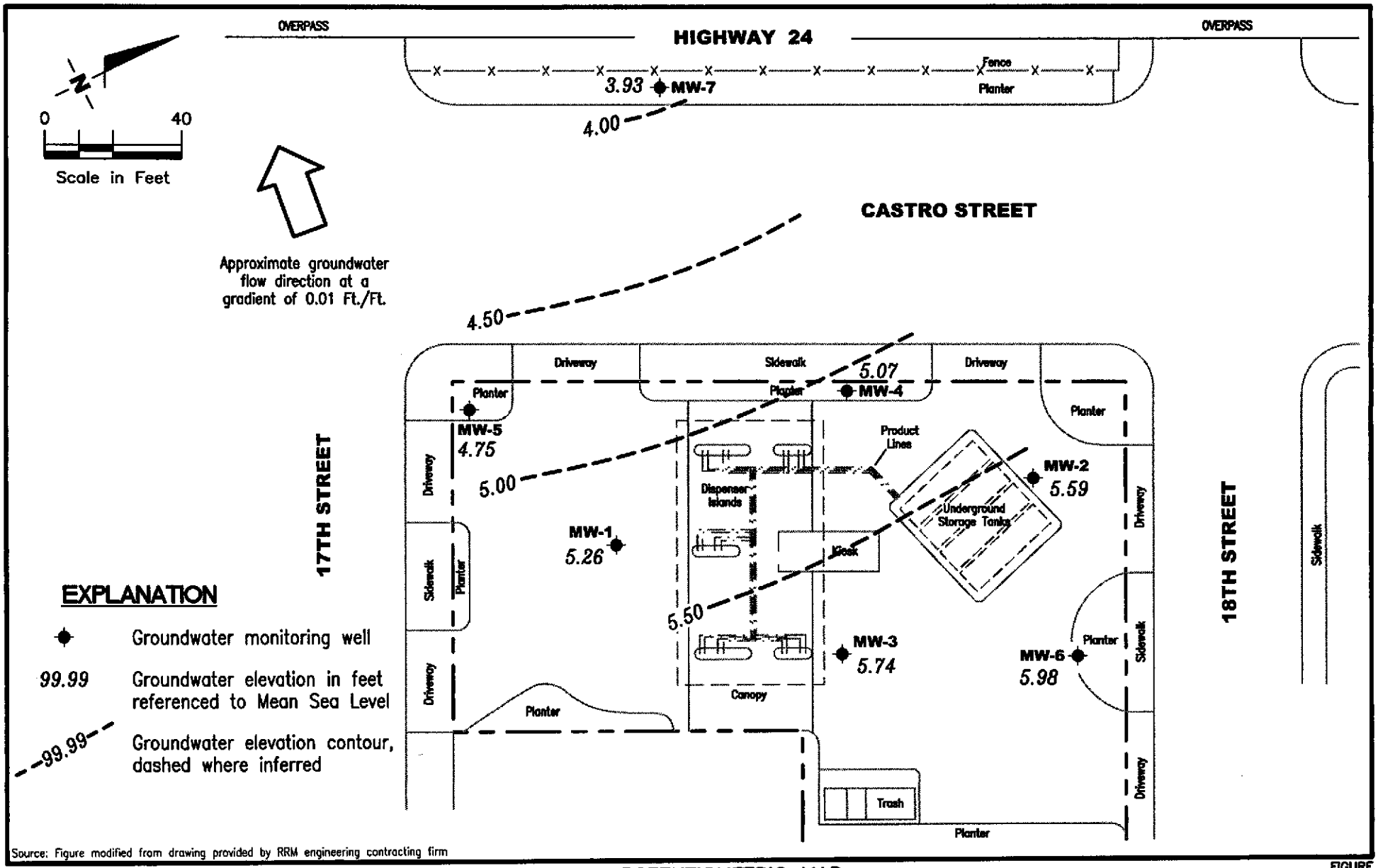
Sincerely,

Deanna L. Harding
Project Coordinator

REGISTERED GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

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	REVIEWED BY	DATE	REVISED DATE
386383		September 6, 2002	

FILE NAME: P:\ROBIN\Q02-9-4800.DWG | Layout Tab: Pat3

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	--	--	--	--	--	--	--
06/15/02	30.75	5.49	25.26	140	350	54	0.61	12	40	130
09/06/02	**30.75**	**5.26**	**25.49**	**SAMPLED SEMI-ANNUALLY**		**--**	**--**	**--**	**--**	**--**
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]

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)										
03/11/99	30.00	5.79	24.21	2,700[1]	12,500	1,520	42.2	645	2,250	3400/5050[5]
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
06/15/02	30.00	5.84	24.16	3,700	5,200	240	5.2	540	210	2,200
09/06/02	**30.00**	**5.59**	**24.41**	**2,200**	**2,100**	**84**	**1.4**	**250**	**30**	**1,000**
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

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-3 (cont)										
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
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	--	--	--	--	--	--	--
06/15/02	31.32	6.01	25.31	<50	550	110	3.0	23	58	590
09/06/02	**31.32**	**5.74**	**25.58**	**SAMPLED SEMI-ANNUALLY**		**--**	**--**	**--**	**--**	**--**
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
06/15/02	30.13	5.29	24.84	2,400	950	16	3.6	41	100	2,200/2,400[12]
09/06/02	**30.13**	**5.07**	**25.06**	**2,600**	**640**	**9.6**	**0.52**	**9.8**	**28**	**1,700**
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

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)										
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
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	--	--	--	--	--	--	--
06/15/02	30.93	4.95	25.98	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/06/02	**30.93**	**4.75**	**26.18**	**SAMPLED SEMI-ANNUALLY**		--	--	--	--	--
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	--	--	--	--	--	--	--
06/15/02	30.58	6.25	24.33	<50	<50	<0.50	<0.50	<0.50	<1.5	4.3
09/06/02	**30.58**	**5.98**	**24.60**	**SAMPLED SEMI-ANNUALLY**		--	--	--	--	--

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-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]
06/15/02	31.90	4.06	27.84	<50	<50	<0.50	<0.50	<0.50	<1.5	850/960[12]
09/06/02	**31.90**	**3.93**	**27.97**	**<50**	**59**	**<0.50**	**<0.50**	**<0.50**	**<1.5**	**1,900**
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
06/15/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/06/02	**--**	**--**	**--**	**--**	**<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
(ft.) = Feet
GWE = Groundwater Elevation
(msl) = Mean sea level
DTW = Depth to Water
TPH-D = Total Petroleum Hydrocarbons as Diesel
TPH-G = Total Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary butyl ether
-- = Not Measured/Not Analyzed
(ppb) = Parts per Billion
QA = Quality Assurance

* 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
06/15/02	--	840	2,400	<2	<2	110
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
06/15/02	--	<100	960	<2	<2	18

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-4800

1700 Castro Street

Oakland, California

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

-- = Not Analyzed

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.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: **ChevronTexaco #9-4800** Job Number: **386383**

Site Address: **1700 Castro Street** Event Date: 9/6/02

City: **Oakland, CA** Sampler: GR

Well ID **MW-1** Well Condition: OK

Well Diameter **2** in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.

Total Depth **29.90** ft.

Depth to Water **25.49** ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

_____ xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump
- Suction Pump
- Grundfos
- Other:

Sampling Equipment:
- Disposable Bailer
- Pressure Bailer
- Discrete Bailer
- Other:

Start Time (purge): _____ Weather Conditions: _____

Sample Time/Date: _____ / _____ Water Color: _____ Odor: _____

Purging Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
MW-	x amber	YES	NP	LANCASTER	TPH-D

COMMENTS: Monitor only - This event

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 Job Number: 386383
Site Address: 1700 Castro Street Event Date: 9/6/05
City: Oakland, CA Sampler: GR

Well ID: MW-2 Well Condition: OK
Well Diameter: 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth: 29.65 ft.
Depth to Water: 24.91 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

5.24 xVF 0.17 = .89 x3 (case volume) = Estimated Purge Volume: 2.5 gal.

Purge Equipment:
- Disposable Bailer: ✓
- Stainless Steel Bailer:
- Stack Pump:
- Suction Pump:
- Grundfos:
- Other:

Sampling Equipment:
- Disposable Bailer: ✓
- Pressure Bailer:
- Discrete Bailer:
- Other:

Start Time (purge): 0850 Weather Conditions: Clear
Sample Time/Date: 0925 / 9/6/05 ✓ Water Color: Clear Odor: Y-S
Purging Flow Rate: — gpm. Sediment Description:
Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (u mhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
0900	1	7.27	484	25.3		
0905	2	7.21	480	25.3		
0910	2.5	7.19	478	25.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 2	3 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
MW- 2	2 x amber	YES	NP	LANCASTER	TPH-D

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 Job Number: 386383
Site Address: 1700 Castro Street Event Date: 9/6/07
City: Oakland, CA Sampler: G.R

Well ID MW-3 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth 29.41 ft.
Depth to Water 25.58 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

_____ xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump
- Suction Pump
- Grundfos
- Other:

Sampling Equipment:
- Disposable Bailer
- Pressure Bailer
- Discrete Bailer
- Other:

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: _____ / _____ Water Color: _____ Odor: _____
Purging Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
MW-	x amber	YES	NP	LANCASTER	TPH-D

COMMENTS: Monitor Only - This Event

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 Job Number: 386383
Site Address: 1700 Castro Street Event Date: 9/6/02
City: Oakland, CA Sampler: GR

Well ID MW-4 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth 28.29 ft.
Depth to Water 25.06 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

3.23 xVF 0.17 = .55 x3 (case volume) = Estimated Purge Volume: 1.6 gal.

Purge Equipment:
- Disposable Bailer ✓
- Stainless Steel Bailer
- Stack Pump
- Suction Pump
- Grundfos
- Other:

Sampling Equipment:
- Disposable Bailer ✓
- Pressure Bailer
- Discrete Bailer
- Other:

Start Time (purge): 0945 Weather Conditions: OK
Sample Time/Date: 1020 / 9/6/02 Water Color: Clear Odor: Slight
Purging Flow Rate: ~ gpm. Sediment Description:
Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
0955	.5	6.91	554	25.4		
1000	1.0	6.88	552	25.4		
1005	1.6	6.86	551	25.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
MW-4	2 x amber	YES	NP	LANCASTER	TPH-D

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 Job Number: 386383
Site Address: 1700 Castro Street Event Date: 9/6/05
City: Oakland, CA Sampler: G. Moser

Well ID MW-5 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth 27.92 ft.
Depth to Water 26.18 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

_____ xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump
- Suction Pump
- Grundfos
- Other:

Sampling Equipment:
- Disposable Bailer
- Pressure Bailer
- Discrete Bailer
- Other:

Start Time (purge): _____ Weather Conditions: _____
Sample Time/Date: _____ / _____ Water Color: _____ Odor: _____
Purging Flow Rate: _____ gpm. Sediment Description: _____
Did well de-water? _____ If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
MW-	x amber	YES	NP	LANCASTER	TPH-D

COMMENTS: Monitor Only - This Event

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 | Job Number: 386383
Site Address: 1700 Castro Street | Event Date: 9/6/0-
City: Oakland, CA | Sampler: G. Rogen

Well ID: MW-6 | Well Condition: OK
Well Diameter: 2 in. | Hydrocarbon Thickness: ft. | Amount Bailed (product/water): gal.
Total Depth: 28.06 ft.
Depth to Water: 24.60 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

_____ xVF _____ = _____ x3 (case volume) = Estimated Purge Volume: _____ gal.

Purge Equipment:
- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump
- Suction Pump
- Grundfos
- Other:

Sampling Equipment:
- Disposable Bailer
- Pressure Bailer
- Discrete Bailer
- Other:

Start Time (purge): _____ | Weather Conditions: _____
Sample Time/Date: _____ / _____ | Water Color: _____ | Odor: _____
Purging Flow Rate: _____ gpm. | Sediment Description: _____
Did well de-water? _____ | If yes, Time: _____ | Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
MW-	x amber	YES	NP	LANCASTER	TPH-D

COMMENTS: Monitor Only - This Event

Add/Replaced Lock: _____ | Add/Replaced Plug: _____ Size: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility #: ChevronTexaco #9-4800 Job Number: 386383
Site Address: 1700 Castro Street Event Date: 9/6/02
City: Oakland, CA Sampler: G. Bos

Well ID MW-7 Well Condition: OK
Well Diameter 2 in. Hydrocarbon Thickness: 0 ft. Amount Bailed (product/water): 0 gal.
Total Depth 30.00 ft.
Depth to Water 17.97 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

12.03 xVF 0.17 = 1.35 x3 (case volume) = Estimated Purge Volume: 1.0 gal.

Purge Equipment:
- Disposable Bailer ✓
- Stainless Steel Bailer
- Stack Pump
- Suction Pump
- Grundfos
- Other:

Sampling Equipment:
- Disposable Bailer ✓
- Pressure Bailer
- Discrete Bailer
- Other:

Start Time (purge): 0800 Weather Conditions: Clear
Sample Time/Date: 0835 / 9/6/02 Water Color: Clear Odor: None
Purging Flow Rate: — gpm. Sediment Description:
Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (C/F)	D.O. (mg/L)	ORP (mV)
0810	3	7.24	684	24.4		
0815	6	7.20	681	24.4		
0820	10	7.18	679	24.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
MW-7	2 x amber	YES	NP	LANCASTER	TPH-D

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Size: _____

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories
Where quality is a science.

Acct. #: 10905 Sample #: 389492 (Amc 9/10/02 3) For Lancaster Laboratories use only SCR#:

090902-003

389492-5/8 22158

Facility #: 9-4800 Job #386383 Global ID#T0600102076

Site Address: 1700 CASTRO ST., OAKLAND, CA

Chevron PM: Streich 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: G. Rogen

Service Order #: ☐ Non SAR:

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 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	Matrix: Soil	Water (Potable ☐ NPDES ☐)	Oil ☐ Air ☐	Total Number of Containers	BTEX + MTBE 8260 ☒ 8021 ☐ (H)	TPH 8015 MOD GRO (H)	TPH 8015 MOD DRO	Silica Gel Cleanup ☐	8260 full scan	Oxygenates ___	Lead 7420 ☐ 7421 ☐	Comments / Remarks
QA	9/6/02	—				X		2	X	X						
MW-2	↓	0925	X			X		5	X	X	X					
MW-4		1020	X			X		5	X	X	X					
MW-7		0835	X			X		5	X	X	X					

Turnaround Time Requested (TAT) (please circle)

(STD. TAT) 72 hour 48 hour
24 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

	Date	Time		Date	Time
Relinquished by:	9/6/02		Received by:	9/9/02	12
Relinquished by:	9/9/02	1245	Received by: Andrea Amaya	9-9-02	1245
Relinquished by: Andrea Amaya	9-9-02	1530	Received by: Airborne	9-9-02	
Relinquished by Commercial Carrier: UPS FedEx Other Airborne			Received by: Denise Parker	9/10/02	915
Temperature Upon Receipt 2.5-4 C°			Custody Seals Intact? Yes No		

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Lancaster Laboratories
Where quality is a science.

ANALYTICAL RESULTS

Prepared for:

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

925-842-8582 SEP 19 2002

Prepared by:

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

SAMPLE GROUP

The sample group for this submittal is 822158. Samples arrived at the laboratory on Tuesday, September 10, 2002. The PO# for this group is 99011184 and the release number is STREICH.

Client Description			Lancaster Labs Number
QA-T-020906	NA	Water	3894492
MW-2-W-020906	Grab	Water	3894493
MW-4-W-020906	Grab	Water	3894494
MW-7-W-020906	Grab	Water	3894495

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,

Steven A. Skiles
Sr. Chemist

Analysis Report

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3894492

Collected:09/06/2002 00:00

Account Number: 10905

Submitted: 09/10/2002 09:25
Reported: 09/17/2002 at 17:53
Discard: 10/18/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

QA-T-020906 NA Water
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	09/11/2002 23:48	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/11/2002 23:48	Anastasia Papadoplos	1
01146	GC VOA Water Prep	SW-846 5030B	1	09/11/2002 23:48	Anastasia Papadoplos	n.a.

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

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

Lancaster Laboratories
Where quality is a science.

Lancaster Laboratories Sample No. WW 3894493

Collected:09/06/2002 09:25 by GR

Account Number: 10905

Submitted: 09/10/2002 09:25
Reported: 09/17/2002 at 17:53
Discard: 10/18/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

MW-2-W-020906 Grab Water
Facility# 94800 Job# 386383 GRD
1700 Castro St-Oakland T0600102076 MW-2

383M2

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.	130.	ug/l	5
	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.	2,100.	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	84.	0.50	ug/l	1
00777	Toluene	108-88-3	1.4	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	250.	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	30.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	1,000.	2.5	ug/l	5
	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
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	09/14/2002 06:26	Tracy A Cole	5
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/12/2002 02:45	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/12/2002 01:35	Anastasia Papadoplos	5
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/12/2002 02:45	Anastasia Papadoplos	1

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

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Lancaster Laboratories Sample No. WW 3894493

Collected:09/06/2002 09:25 by GR

Account Number: 10905

Submitted: 09/10/2002 09:25
Reported: 09/17/2002 at 17:53
Discard: 10/18/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

MW-2-W-020906 Grab Water
Facility# 94800 Job# 386383 GRD
1700 Castro St-Oakland T0600102076 MW-2

383M2

01146	GC VOA Water Prep	SW-846 5030B	1	09/12/2002 01:35	Anastasia Papadoplos	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	09/12/2002 09:00	William P Stafford	1

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

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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

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Lancaster Laboratories Sample No. WW 3894494

Collected:09/06/2002 10:20 by GR

Account Number: 10905

Submitted: 09/10/2002 09:25
Reported: 09/17/2002 at 17:54
Discard: 10/18/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

MW-4-W-020906 Grab Water
Facility# 94800 Job# 386383 GRD
1700 Castro St-Oakland T0600102076 MW-4

383M4

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.	2,600.	130.	ug/l	5
	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.	640.	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	9.6	0.50	ug/l	1
00777	Toluene	108-88-3	0.52	0.50	ug/l	1
00778	Ethylbenzene	100-41-4	9.8	0.50	ug/l	1
00779	Total Xylenes	1330-20-7	28.	1.5	ug/l	1
00780	Methyl tert-Butyl Ether	1634-04-4	1,700.	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

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	09/14/2002 06:48	Tracy A Cole	5
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/12/2002 03:21	Anastasia Papadoplos	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/12/2002 02:10	Anastasia Papadoplos	10
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/12/2002 03:21	Anastasia Papadoplos	1

#=Laboratory Method Detection Limit exceeded target detection limit
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Lancaster Laboratories Sample No. WW 3894494

Collected:09/06/2002 10:20 by GR

Account Number: 10905

Submitted: 09/10/2002 09:25
Reported: 09/17/2002 at 17:54
Discard: 10/18/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

MW-4-W-020906 Grab Water
Facility# 94800 Job# 386383 GRD
1700 Castro St-Oakland T0600102076 MW-4

383M4

01146	GC VOA Water Prep	SW-846 5030B	1	09/12/2002 02:10	Anastasia Papadoplos	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	09/12/2002 09:00	William P Stafford	1

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

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Analysis Report

Lancaster Laboratories
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Lancaster Laboratories Sample No. WW 3894495

Collected:09/06/2002 08:35 by GR

Account Number: 10905

Submitted: 09/10/2002 09:25
Reported: 09/17/2002 at 17:54
Discard: 10/18/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

MW-7-W-020906 Grab Water
Facility# 94800 Job# 386383 GRD
1700 Castro St-Oakland T0600102076 MW-7

383M7

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.	N.D.	50.	ug/l	1
	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.	59.	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	1,900.	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

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
05553	TPH - DRO CA LUFT (Waters)	CA LUFT Diesel Range Organics	1	09/12/2002 16:59	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	09/12/2002 14:39	Melissa D Mann	1
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/12/2002 08:21	Anastasia Papadoplos	10
08214	BTEX, MTBE (8021)	SW-846 8021B	1	09/12/2002 14:39	Melissa D Mann	1

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

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Lancaster Laboratories Sample No. WW 3894495

Collected:09/06/2002 08:35 by GR

Account Number: 10905

Submitted: 09/10/2002 09:25
Reported: 09/17/2002 at 17:54
Discard: 10/18/2002

ChevronTexaco
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

MW-7-W-020906 Grab Water
Facility# 94800 Job# 386383 GRD
1700 Castro St-Oakland T0600102076 MW-7

383M7

01146	GC VOA Water Prep	SW-846 5030B	1	09/12/2002 08:21	Melissa D Mann	n.a.
07003	Extraction - DRO (Waters)	TPH by CA LUFT	1	09/12/2002 09:00	William P Stafford	1

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

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Quality Control Summary

Client Name: ChevronTexaco
Reported: 09/17/02 at 05:54 PM

Group Number: 822158

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 02254A56A	Sample number(s): 3894492-3894495							
Benzene	N.D.	.2	ug/l	91	94	80-118	4	30
Toluene	N.D.	.2	ug/l	98	104	82-119	6	30
Ethylbenzene	N.D.	.2	ug/l	100	108	81-119	8	30
Total Xylenes	N.D.	.6	ug/l	101	109	82-120	8	30
Methyl tert-Butyl Ether	N.D.	.3	ug/l	99	101	79-127	2	30
TPH-GRO - Waters	N.D.	50.	ug/l	92	95	74-116	3	30
Batch number: 022550001A	Sample number(s): 3894493-3894495							
TPH - DRO CA LUFT (Waters)	N.D.	50.	ug/l	94	101	54-120	8	20

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 02254A56A	Sample number(s): 3894492-3894495								
Benzene	97		83-130						
Toluene	106		87-129						
Ethylbenzene	112		86-133						
Total Xylenes	112		86-132						
Methyl tert-Butyl Ether	95		66-140						
TPH-GRO - Waters	95		74-132						

Surrogate Quality Control

Analysis Name: TPH-GRO - Waters
Batch number: 02254A56A

	Trifluorotoluene-F	Trifluorotoluene-P
3894492	86	95
3894493	85	95
3894494	91	94
3894495	86	95
Blank	89	95
LCS	91	95
LCSD	99	95
MS	90	95
Limits:	57-146	71-130

Analysis Name: TPH - DRO CA LUFT (Waters)
Batch number: 022550001A

	Orthoterphenyl
3894493	110
3894494	112
3894495	100
Blank	103
LCS	99
LCSD	107
Limits:	59-139

*- 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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Quality Control Summary

Client Name: ChevronTexaco
Reported: 09/17/02 at 05:54 PM

Group Number: 822158

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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