

Environmental Management  
Company  
6001 Bollinger Canyon Rd, L4050  
P.O. Box 6012  
San Ramon, CA 94583-2324  
Tel 925-842-1589  
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Karen Streich  
Project Manager

Rev 56

DH

Alameda County

MAY 19 2003

Environmental Health

**ChevronTexaco**

May 15, 2003

Alameda County Health Care Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Re: Chevron Service Station # 211283

Address: 3810 Broadway, Oakland, CA

April 29, 2003

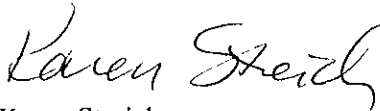
I have reviewed the attached routine groundwater monitoring report dated \_\_\_\_\_.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Gettler-Ryan, Inc., upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,



Karen Streich  
Project Manager

Enclosure: Report



# GETTLER-RYAN INC.

## TRANSMITTAL

April 29, 2003  
G-R #386956

TO: Mr. Robert Foss  
Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
Emeryville, CA 94608

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

Alameda County  
MAY 19 2003  
Environmental Health

RE: **Former Texaco Service Station**  
**3810 Broadway**  
**Oakland, California**  
**(Site #211283)**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	April 23, 2003	Groundwater Monitoring and Sampling Report First Quarter - Event of March 20, 2003

### 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, 2003**, at which time the final report will be distributed to the following:

cc: Mr. Barney M. Chan, Alameda County Health Care Services Agency, Environmental Protection Div., 1131 Harbor Bay Pkwy., Suite 250, Alameda, CA 94502-6577  
Mr. Joe Zadik, 8255 San Leandro Street, Oakland, CA 94621

Enclosures

Trans/211283-ks



# GETTLER-RYAN INC.

April 23, 2003  
G-R Job #386956

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

**RE: First Quarter Event of March 20, 2003**  
Groundwater Monitoring & Sampling Report  
Former Texaco Service Station  
3810 Broadway  
Oakland, California  
(Site #211283)

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

Robert C. Mallory  
Registered Geologist No. 7285

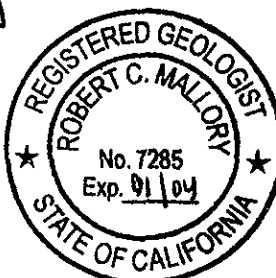
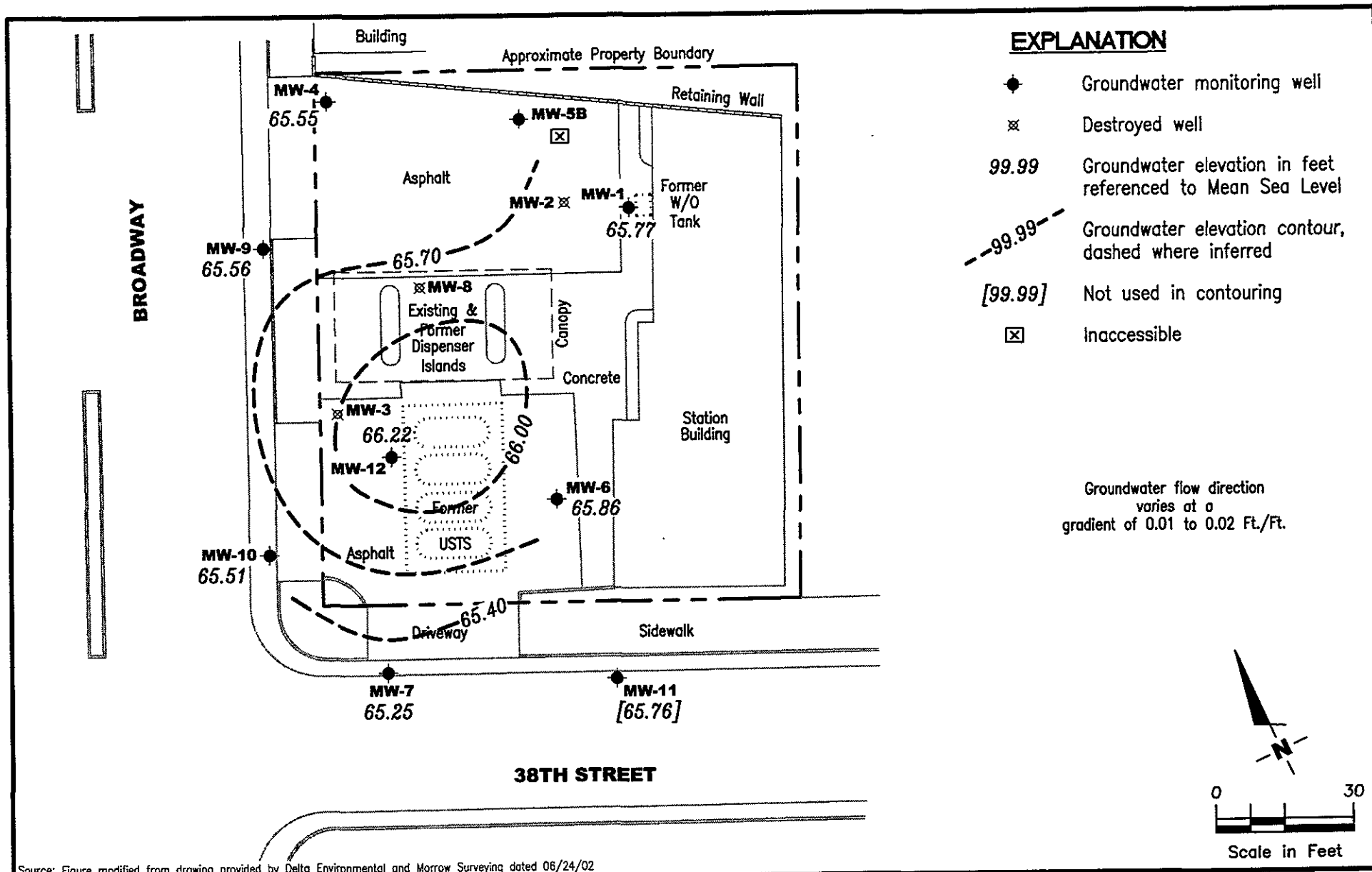


Figure 1: Potentiometric Map  
Table 1: Groundwater Monitoring Data and Analytical Results  
Table 2: Field Measurements  
Attachments: Standard Operating Procedure - Groundwater Sampling  
Field Data Sheets  
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by Delta Environmental and Morrow Surveying dated 06/24/02

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

**POTENTIOMETRIC MAP**  
 Former Texaco Service Station  
 3810 Broadway  
 Oakland, California (Site #211283)

FIGURE

1

PROJECT NUMBER  
 386956

REVIEWED BY

DATE  
 March 20, 2003

REVISED DATE

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Texaco Service Station (Site #211283)  
3810 Broadway  
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE by 8020 (ppb)	MTBE by 8260 (ppb)		
MW-1														
86.69	06/28/96	21.77	64.92	--	<50	<100	<0.5	<1.0	<1.0	<2.0	--	--		
	10/10/96	23.26	63.43	--	<400	520	9.2	53	17	70	22	16 <sup>1</sup>		
	11/07/96	23.27	63.42	--	--	--	--	--	--	--	--	--		
	12/18/97	19.70	66.99	--	<50	2,200	<3.0	<3.0	<3.0	<3.0	<200	--		
	04/06/98	16.88	69.81	--	<50	1,600	16.4	0.8	<0.5	<0.5	38.3	--		
	06/18/98	19.78	66.91	--	280	330	7.8	<0.5	<0.5	<0.5	<0.5	--		
	08/31/98	21.71	64.98	--	150	<50	1.5	<0.5	<0.5	<0.5	<2.5	--		
	12/21/98	22.15	64.54	--	130	130	2.3	0.90	<0.5	<0.5	110	13		
	03/24/99	19.55	67.14	--	305	1,520	11.7	<2.50	<2.50	<2.50	21.6	<25.0		
	06/25/99	21.60	65.09	--	207	231	5.29	<0.500	<0.500	<0.500	3.94	1.01		
	09/24/99	22.58	64.11	--	71.7	58.6	6.03	<0.500	<0.500	<0.500	3.70	--		
	12/29/99	22.81	63.88	--	345	117	4.26	<0.500	<0.500	1.97	26.2	<0.500		
	03/21/00	19.00	67.69	--	319	834	<0.500	<0.500	<0.500	<0.500	21.5	--		
	07/26/00	21.50	65.19	--	125	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--		
	09/06/00	21.90	64.79	--	192	88.1	15.60	<0.500	<0.500	<0.500	--	--		
86.92	11/29/00	22.05	64.87	--	331	<50.0	3.52	<0.500	<0.500	<0.500	--	--		
	03/06/01	19.79	67.13	--	--	--	--	--	--	--	--	--		
	03/23/01	20.15	66.77	--	-- <sup>s</sup>	204	10.7	<0.500	<0.500	<0.500	--	--		
	06/19/01 <sup>6</sup>	21.78	65.14	--	330	<50	<0.50	<0.50	<0.50	<0.50	--	0.87		
	09/05/01 <sup>6</sup>	24.37	62.55	--	400	74	<0.50	0.63	<0.50	2.7	--	<5.0		
	12/20/01 <sup>6</sup>	20.25	66.67	--	530	59	1.7	<0.50	<0.50	<0.50	--	<5.0		
86.69	06/25/02	21.64	65.05	0.00	490 <sup>9</sup>	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--		
	09/18/02	22.44	64.25	0.00	180	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--		
	12/19/02	21.49	65.20	0.00	320	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--		
	03/20/03	20.92	65.77	0.00	UNABLE TO SAMPLE - BEND IN WELL						--	--	--	--
MW-2														
85.83	06/28/96	22.10	63.73	1.35	--	--	--	--	--	--	--	--		
	10/10/96	22.36	63.47	--	1,800	99,000	4,100	9,400	2,300	9,900	390	<25 <sup>1</sup>		
	11/07/96	22.39	63.45**	0.01	--	--	--	--	--	--	--	--		

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Texaco Service Station (Site #211283)  
3810 Broadway  
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE by	MTBE by
											8020 (ppb)	8260 (ppb)
MW-2	12/18/97	20.19	65.64	--	4,700	24,000	600	1,800	750	2,400	<2,000	--
(cont)	04/06/98	18.00	67.83	--	9.5	20,100	252	448	430	1,410	<200	--
	06/18/98	19.63	66.20	--	5,200	20,000	240	370	270	790	<50	--
	08/31/98	21.01	64.82	--	19,000	72,000	270	990	630	1,700	<125	--
	12/21/98	21.31	64.52	--	13,000	290	8.7	18	9.7	38	10	29
	03/24/99	19.18	66.65	--	5,590	80,400	651	1,860	1,120	3,730	<40.0	<100
	06/25/99	20.78	65.05	--	12,100	34,700	504	1,300	716	2,160	<40.0	--
	09/24/99	21.82	64.01	--	108	6,510	1,030	350	183	680	<50.0	--
	12/29/99	22.17	63.90**	0.30	--	--	--	--	--	--	--	--
	01/07/00	22.84	63.30**	0.39	--	--	--	--	--	--	--	--
-- <sup>3</sup>	03/21/00	18.19	--	--	41,100	54,100	1,260	3,320	2,180	8,200	<1,250	--
	DESTROYED											
MW-3												
83.18	06/28/96	19.04	64.14	--	--	--	--	--	--	--	--	--
	10/10/96	19.51	63.67	--	1,200	110,000	6,600	16,000	2,200	12,000	<250	--
	11/07/96	19.40	63.78	--	--	--	--	--	--	--	--	--
	12/18/97	18.79	64.39	--	6,100,000	180,000	1,500	16,000	4,600	23,000	<3,000	--
	04/06/98	16.58	66.64	0.05	--	--	--	--	--	--	--	--
	06/18/98	--	--	>2.0 <sup>2</sup>	--	--	--	--	--	--	--	--
	08/31/98	19.56	63.68	0.07	--	--	--	--	--	--	--	--
	12/21/98	20.23	65.13	2.73	--	--	--	--	--	--	--	--
	03/24/99	16.76	67.11	0.86	--	--	--	--	--	--	--	--
	06/25/99	18.47	64.95	0.30	--	--	--	--	--	--	--	--
	09/24/99	19.43	63.81	0.08	--	--	--	--	--	--	--	--
	12/29/99	19.25	63.96	0.04	--	--	--	--	--	--	--	--
	01/07/00	19.87	63.37	0.07	--	--	--	--	--	--	--	--
	DESTROYED											

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Texaco Service Station (Site #211283)  
3810 Broadway  
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE by 8020 (ppb)	MTBE by 8260 (ppb)
<b>MW-4</b>												
83.31	06/28/96	18.83	64.48	--	<50	<100	<0.5	<1.0	<1.0	<2.0	--	--
	10/10/96	19.84	63.47	--	<50	650	3.9	65	22	120	<5.0	--
	11/07/96	19.84	63.47	--	--	--	--	--	--	--	--	--
	12/18/97	17.77	65.54	--	2,000	<50	<0.5	<0.5	<0.5	<0.5	<30	--
	04/06/98	15.45	67.86	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	06/18/98	16.89	66.42	--	53	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	08/31/98	18.48	64.83	--	60	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	12/21/98	18.80	64.51	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	03/24/99	16.70	66.61	--	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	--
	06/25/99	18.16	65.15	--	128	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	--
	09/24/99	19.12	64.19	--	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
	12/29/99	19.08	64.23	--	169	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	--
	03/21/00	16.10	67.21	--	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
	07/26/00	OBSTRUCTION IN WELL			--	--	--	--	--	--	--	--
	09/06/00	18.52	64.79	--	-- <sup>5</sup>	<50.0	<0.500	<0.500	<0.500	<0.500	--	--
83.63	11/29/00	18.75	64.88	--	183	<50.0	<0.500	<0.500	<0.500	<0.500	--	--
	03/06/01	17.81	65.82	--	50.9	<50.0	<0.500	<0.500	<0.500	<0.500	--	<0.50
	06/19/01 <sup>6</sup>	18.55	65.08	--	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<5.0
	09/05/01 <sup>6</sup>	19.10	64.53	--	710	<50	<0.50	<0.50	<0.50	<0.50	--	<5.0
	12/20/01 <sup>6</sup>	17.55	66.08	--	460	<50	<0.50	<0.50	<0.50	<0.50	--	<5.0
83.31	06/25/02	18.39	64.92	0.00	250	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
	09/18/02	19.16	64.15	0.00	160	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
	12/19/02	18.14	65.17	0.00	56	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
	03/20/03	17.76	65.55	0.00	180	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
<b>MW-5</b>												
85.41	10/10/96	21.93	63.48	--	<50	1,800	34	4.7	11	44	21	5.0 <sup>1</sup>
	11/07/96	21.96	63.45	--	--	--	--	--	--	--	--	--
	12/18/97	19.81	65.60	--	<50	1,200	15	<1.0	15	<1.0	72	--
	04/06/98	17.43	67.98	--	<50	1,000	126	0.5	0.8	1.5	<30	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Texaco Service Station (Site #211283)  
3810 Broadway  
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE by	MTBE by
											8020 (ppb)	8260 (ppb)
MW-5	06/18/98	19.15	66.26	--	100	110	6.9	<0.5	<0.5	<0.5	<0.5	--
(cont)	08/31/98	20.46	64.95	--	120	480	5.3	<2.5	<2.5	<2.5	<12	--
	12/21/98	20.91	64.50	--	100	270	16	2.9	1.3	<1.0	34	<2.0
	03/24/99	18.74	66.67	--	93.3	143	2.80	<0.500	0.749	<0.500	<2.00	<5.00
	06/25/99	20.31	65.10	--	125	847	6.61	<0.500	0.611	<0.500	2.69	<2.00
	09/24/99	21.36	64.05	--	94.0	563	6.00	<2.50	<2.50	<2.50	25.1	--
	12/29/99	21.41	64.00	--	173	896	16.6	1.48	8.92	2.67	61.1	<0.500
	03/21/00	18.13	67.28	--	158	858	53.7	<1.00	21.4	8.00	11.6	--
	07/26/00	OBSTRUCTION IN WELL			--	--	--	--	--	--	--	--
	09/06/00	20.33	65.08	--	231	670	153	<2.50	7.87	<2.50	--	--
85.13	11/29/00	OBSTRUCTION IN WELL			--	--	--	--	--	--	--	--
	03/06/01	OBSTRUCTION IN WELL			--	--	--	--	--	--	--	--
	06/19/01	OBSTRUCTION IN WELL			--	--	--	--	--	--	--	--
	09/05/01	OBSTRUCTION IN WELL			--	--	--	--	--	--	--	--
	12/02/01	OBSTRUCTION IN WELL			--	--	--	--	--	--	--	--
NOT MONITORED/SAMPLED												
MW-5B												
85.36	06/25/02 <sup>7</sup>	20.48	64.88	0.00	320	660	89	1.9	39	11	130	--
	09/18/02	21.18	64.18	0.00	480	1,100	220	1.2	19	<1.5	35	--
	12/19/02	20.36	65.00	0.00	330	<50	<0.50	<0.50	<0.50	<1.5	190	--
	03/20/03	INACCESSIBLE - VEHICLE OVER WELL			--	--	--	--	--	--	--	--
MW-6												
86.09	10/10/96	22.44	63.65	--	500	45,000	8,300	2,900	810	3,100	190	40 <sup>1</sup>
	11/07/96	22.60	63.49	--	--	--	--	--	--	--	--	--
	12/18/97	22.28	63.81	--	1,900	60,000	12,000	9,800	1,800	8,600	<2,000	--
	04/06/98	19.90	66.19	--	<50	30,500	5,950	3,720	952	3,750	<1,000	--
	06/18/98	20.49	65.60	--	1,100	23,000	2,600	540	410	1,300	<250	--
	08/31/98	21.05	65.04	--	1,800	17,000	3,400	460	530	1,800	<250	--



**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Texaco Service Station (Site #211283)  
3810 Broadway  
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE by 8020 (ppb)	MTBE by 8260 (ppb)
MW-6	12/21/98	21.74	64.35	--	930	7,900	1,900	510	280	730	150	2.6
(cont)	03/24/99	21.18	64.91	--	763	12,200	1,970	327	338	794	<40.0	<50.0
	06/25/99	21.34	64.75	--	1,050	14,800	2,040	1,080	406	1,430	<40.0	--
	09/24/99	22.28	63.81	--	1,720	17,200	2,810	1,330	489	2,340	<50.0	--
	12/29/99	24.96	61.13	--	1,480	14,700	2,790	974	469	1,720	<500	--
	03/21/00	18.70	67.39	--	1,120	20,000	4,160	962	719	2,330	<250	--
	07/26/00	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	09/06/00	INACCESSIBLE		--	--	--	--	--	--	--	--	--
86.48	11/29/00	21.30	65.18	--	2,060	22,800	4,120	2,010	872	3,180	--	--
	03/06/01	19.05	67.43	--	2,220	32,100	3,760	4,590	1,160	5,360	--	<25
	06/19/01 <sup>6</sup>	21.11	65.37	--	<1,500	40,000	2,800	6,000	1,200	5,300	--	<200
	09/05/01 <sup>6</sup>	21.37	65.11	--	<1,000	18,000	3,800	800	730	1,400	--	<100
	12/20/01 <sup>6</sup>	19.80	66.68	--	<1,300	29,000	2,600	3,700	1,100	4,100	--	<100
86.09	06/25/02	21.13	64.96	0.00	2,500	21,000	2,200	1,800	850	2,100	<100	--
	09/18/02	22.00	64.09	0.00	1,300	13,000	1,700	480	610	970	110	--
	12/19/02	20.98	65.11	0.00	2,700	20,000	2,900	620	770	2,100	<20	--
	03/20/03	20.23	65.86	0.00	2,600	23,000	1,500	2,200	920	3,400	<100	--
MW-7											<5.0	--
84.11	10/10/96	20.78	63.33	--	<50	<50	0.6	<0.5	<0.5	<0.5	<5.0	--
	11/07/96	20.80	63.31	--	--	--	--	--	--	--	--	--
	12/18/97	17.27	66.84	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--
	04/06/98	15.91	68.20	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--
	06/18/98	17.95	66.16	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	08/31/98	19.40	64.71	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	12/21/98	19.75	64.36	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	03/24/99	17.54	66.57	--	51.3	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	--
	06/25/99	19.22	64.89	--	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	--
	09/24/99	20.18	63.93	--	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
	12/29/99	20.15	63.96	--	99.0	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	--
	03/21/00	16.35	67.76	--	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--

As of 03/20/03

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Texaco Service Station (Site #211283)  
3810 Broadway  
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE by 8020 (ppb)	MTBE by 8260 (ppb)
MW-7	07/26/00	18.99	65.12	--	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
(cont)	09/06/00	19.49	64.62	--	-- <sup>s</sup>	<50.0	<0.500	<0.500	<0.500	<0.500	--	--
84.44	11/29/00	19.52	64.92	--	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	--	--
	03/06/01	17.15	67.29	--	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	--	--
	06/19/01 <sup>6</sup>	19.30	65.14	--	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50
	09/05/01 <sup>6</sup>	20.22	64.22	--	<50	<50	0.64	0.84	0.94	5.2	--	<5.0
	12/20/01 <sup>6</sup>	17.85	66.59	--	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<5.0
84.11	06/25/02	19.30	64.81	0.00	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
	09/18/02	20.10	64.01	0.00	170	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
	12/19/02	18.73	65.38	0.00	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
	03/20/03	18.86	65.25	0.00	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
<b>MW-8</b>												
84.01	10/10/96	20.82	63.19	--	110	17,000	1,300	1,200	64	1,300	110	<5.0 <sup>1</sup>
	11/07/96	20.44	63.57	--	--	--	--	--	--	--	--	--
	12/18/97	19.36	64.65	--	630	15,000	3,600	1,800	410	930	<600	--
	04/06/98	16.19	67.82	--	<50	32,300	8,230	5,900	718	2,120	<1,000	--
	06/18/98	17.75	66.26	--	<50	74,000	5,400	4,500	700	2,200	2,400	--
	08/31/98	INACCESSIBLE		--	--	--	--	--	--	--	--	--
	12/21/98	19.48	64.53	--	1,200	9,600	2,600	410	220	300	700	<2.0
	03/24/99	17.44	66.57	--	2,890	86,100	9,890	11,700	1,650	7,130	<200	<250
	06/25/99	20.69	63.40**	0.10	--	--	--	--	--	--	--	--
	07/01/99	20.45	65.07**	1.89	--	--	--	--	--	--	--	--
	09/24/99	20.98	64.25**	1.53	--	--	--	--	--	--	--	--
	12/29/99	20.25	63.97**	0.26	--	--	--	--	--	--	--	--
	01/07/00	21.00	63.33**	0.40	--	--	--	--	--	--	--	--
	DESTROYED											

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Texaco Service Station (Site #211283)  
3810 Broadway  
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE by 8020 (ppb)	MTBE by 8260 (ppb)
<b>MW-9</b>												
82.17	10/10/96	18.62	63.55	--	520	80	2.5	13	2.2	13	<5.0	--
	11/07/96	63.53	18.64	--	--	--	--	--	--	--	--	--
	12/18/97	16.42	65.75	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--
	04/06/98	14.00	68.17	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<30	--
	06/18/98	15.33	66.84	--	100	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	08/31/98	17.14	65.03	--	57	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	12/21/98	17.40	64.77	--	71	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--
	03/24/99	16.22	65.95	--	84.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	--
	06/25/99	16.90	65.27	--	92.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	--
	09/24/99	17.89	64.28	--	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
	12/29/99	18.01	64.16	--	52.8	<50.0	<0.500	<0.500	<0.500	<0.500	<5.00	--
	03/21/00	14.80	67.37	--	72.4	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
	07/26/00	17.17	65.00	--	83.6	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--
	09/06/00	17.95	64.22	--	74.3	<50.0	<0.500	<0.500	<0.500	<0.500	--	--
82.52	11/29/00	18.10	64.42	--	96.2	<50.0	<0.500	<0.500	<0.500	<0.500	--	--
	03/06/01	16.75	65.77	--	94.2	<50.0	<0.500	<0.500	<0.500	<0.500	--	--
	06/19/01 <sup>6</sup>	17.83	64.69	--	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50
	09/05/01 <sup>6</sup>	17.98	64.54	--	<50	<50	<0.50	<0.50	<0.50	1.6	--	<5.0
	12/20/01 <sup>6</sup>	16.85	65.67	--	84	<50	<0.50	<0.50	<0.50	<0.50	--	<5.0
82.17	06/25/02	17.12	65.05	0.00	100	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
	09/18/02	17.76	64.41	0.00	170	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
	12/19/02	16.83	65.34	0.00	73	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
	03/20/03	16.61	65.56	0.00	87	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
<b>MW-10</b>												
81.83	10/10/96	18.40	63.43	--	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	11/07/96	18.43	63.40	--	--	--	--	--	--	--	--	--
	12/18/97	16.18	65.65	--	<50	350	6.9	0.87	0.88	0.77	<30	--
	04/06/98	14.39	67.44	--	<50	2,300	224	168	81.4	253	<30	--
	06/18/98	15.11	66.72	--	320	7,200	310	210	83	280	<0.5	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Texaco Service Station (Site #211283)  
3810 Broadway  
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE by 8020 (ppb)	MTBE by 8260 (ppb)
MW-10	08/31/98	17.03	64.80	--	120	460	51	8.2	5.1	10	<5.0	--
(cont)	12/21/98	17.32	64.51	--	79	120	5.5	<1.0	<1.0	<1.0	8.7	<2.0
	03/24/99	15.25	66.58	--	923	1,330	85.9	42.9	29.7	95.2	20.4	<25.0
	06/25/99	16.82	65.01	--	167	1,130	115	32.6	17.2	36.3	<4.00	--
	09/24/99	17.75	64.08	--	76.7	382	20.0	<1.00	2.21	1.37	8.83	--
	12/29/99	18.13	63.70	--	107	114	9.03	<0.500	0.531	<0.500	<5.00	--
	03/21/00	14.22	67.61	--	194	1,270	86.3	52.3	38.1	102	19.5	--
	07/26/00	16.61	65.22	--	192	562	74.8	7.51	24.3	14.8	13.3	<1.00 <sup>4</sup>
	09/06/00	17.08	64.75	--	205	606	93.4	5.36	16.7	38.9	--	--
82.16	11/29/00	16.90	65.26	--	258	583	40.0	1.46	4.69	15.8	--	--
	03/06/01	14.80	67.36	--	199	837	34.2	26.4	20.8	27.5	--	--
	06/19/01 <sup>6</sup>	16.85	65.31	--	<50	400	47	2.6	8.8	17	--	0.60
	09/05/01 <sup>6</sup>	17.87	64.29	--	<100	230	20	<0.50	1.2	5.3	--	<5.0
	12/20/01 <sup>6</sup>	15.54	66.62	--	110	300	13	2.5	1.7	4.6	--	<5.0
81.83	06/25/02	16.93	64.90	0.00	180	810	180	3.2	17	8.0	<2.5	--
	09/18/02	17.68	64.15	0.00	200	260	24	<2.0	2.5	5.0	2.9	--
	12/19/02	16.36	65.47	0.00	86	360	25	0.60	<0.50	1.5	<5.0	--
	03/20/03	16.32	65.51	0.00	200	620	21	5.3	6.0	13	<10	--
MW-11	08/08/00	25.61	--	--	--	--	--	--	--	--	--	--
	08/16/00	25.50	--	--	56.80	<50.0	<0.500	<0.500	<0.500	<0.500	--	--
	09/06/00	25.90	--	--	-- <sup>5</sup>	<50.0	<0.500	<0.500	<0.500	<0.500	--	--
90.63	11/29/00	25.80	64.83	--	63.8	<50.0	<0.500	<0.500	<0.500	<0.500	--	--
	03/06/01	23.32	67.31	--	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	--	<0.50
	06/19/01 <sup>6</sup>	25.57	65.06	--	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<5.0
	09/05/01 <sup>6</sup>	26.42	64.21	--	<50	<50	<0.50	<0.50	<0.50	0.68	--	<5.0
	12/20/01 <sup>6</sup>	24.27	66.36	--	<50	<50	<0.50	<0.50	<0.50	<0.50	--	<5.0
-- <sup>8</sup>	06/25/02	25.51	65.12	0.00	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Texaco Service Station (Site #211283)  
3810 Broadway  
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	SPHT (ft.)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE by 8020 (ppb)	MTBE by 8260 (ppb)
MW-11	09/18/02	26.31	64.32	0.00	80	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
(cont)	12/19/02	25.08	65.55	0.00	<50	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
	03/20/03	24.87	65.76	0.00	<50	<50	<0.50	0.51	<0.50	<1.5	<2.5	--
<b>MW-12</b>												
84.19	06/25/02 <sup>7</sup>	18.65	65.54	0.00	410	1,000	340	8.2	16	8.3	11	--
	09/18/02	19.67	64.52	0.00	230	130	52	<0.50	<0.50	<1.5	9.8	--
	12/19/02	18.67	65.52	0.00	450	<50	11	<0.50	<0.50	<1.5	<2.5	--
	03/20/03	17.97	66.22	0.00	300	280	120	1.9	11	<1.5	2.6	--
<b>TRIP BLANK</b>												
QA	06/25/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
	09/18/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
	12/19/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--
	03/20/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5	--

**Table 1**  
**Groundwater Monitoring Data and Analytical Results**  
Former Texaco Service Station (Site #211283)  
3810 Broadway  
Oakland, California

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**EXPLANATIONS:**

Groundwater monitoring data and laboratory analytical results prior to June 25, 2002, were compiled from reports prepared by Toxichem Management Systems, Inc.

TOC = Top of Casing	SPHT = Separate-phase hydrocarbon thickness	X = Xylenes
(ft.) = Feet	TPH-D = Total Petroleum Hydrocarbons as Diesel	MTBE = Methyl tertiary butyl ether
DTW = Depth to Water	TPH-G = Total Petroleum Hydrocarbons as Gasoline	(ppb) = Parts per billion
GWE = Groundwater Elevation	B = Benzene	-- = Not Measured/Not Analyzed
(msl) = Mean Sea Level	T = Toluene	QA = Quality Assurance/Trip Blank
SPH = Separate-phase hydrocarbons	E = Ethylbenzene	

\* TOC elevations were surveyed June 24, 2002, by Morrow Surveying, and are based on City of Oakland Benchmark.

\*\* GWE corrected for the presence of SPH; correction factor =  $[(TOC - DTW) + (0.80 \times SPHT)]$ .

<sup>1</sup> MTBE confirmed by EPA Method 8240.

<sup>2</sup> Free product could not be accurately measured.

<sup>3</sup> TOC altered.

<sup>4</sup> Analyzed outside EPA recommended hold time.

<sup>5</sup> Sample containers broken during transport to laboratory.

<sup>6</sup> TPH-G and BTEX analyzed by EPA Method 8260.

<sup>7</sup> Well development performed.

<sup>8</sup> MW-11 was inaccessible during the most recent re-surveying. TOC may not be accurate.

<sup>9</sup> Laboratory report indicates the observed sample pattern is not typical of diesel/#2 fuel oil.

**Table 2**  
**Field Measurements**  
Former Texaco Service Station (Site #211283)  
3810 Broadway  
Oakland, California

WELL ID	DATE	D.O.	ORP	D.O.	ORP	D.O.	ORP
		Before Purging (mg/L)	Before Purging (mV)	Mid-Purging (mg/L)	Mid-Purging (mV)	After Purging (mg/L)	After Purging (mV)
MW-2	09/24/99	1.00	--	--	--	0.80	--
	12/29/99	2.60	--	--	--	--	--
	03/21/00	3.30	--	--	--	3.60	--
MW-6	09/24/99	1.00	--	--	--	1.20	--
	12/29/99	1.30	--	--	--	1.50	--
	03/21/00	3.00	--	--	--	4.30	--
	11/29/00	2.00	--	--	--	1.80	--
	03/06/01	3.70	--	--	--	4.00	--
	06/19/01	3.00	--	--	--	3.40	--
	09/05/01	10.40	--	--	--	10.80	--
	12/20/01	1.30	--	--	--	1.50	--
	06/25/02	1.00	--	0.60	--	0.40	--
	09/18/02	0.60	58	0.90	69	1.00	72
	12/19/02	1.20	71	--	--	1.10	79
	03/20/03	0.40	-93	--	--	1.60	-87
	MW-7	09/24/99	1.40	--	--	--	1.60
12/29/99		2.30	--	--	--	1.80	--
03/21/00		5.80	--	--	--	9.00	--
07/26/00		6.00	--	--	--	6.60	--
09/06/00		4.30	--	--	--	5.00	--
11/29/00		4.00	--	--	--	3.70	--
03/06/01		4.70	--	--	--	5.10	--
06/19/01		3.80	--	--	--	4.20	--
09/05/01		6.70	--	--	--	7.10	--
12/20/01		4.90	--	--	--	5.00	--
06/25/02		1.00	--	1.40	--	1.30	--
09/18/02		1.80	112	1.90	98	2.10	102
12/19/02		1.30	121	--	--	1.60	110
03/20/03	2.60	129	--	--	2.70	152	
MW-9	09/24/99	1.00	--	--	--	1.20	--
	12/29/99	3.30	--	--	--	2.70	--
	03/21/00	3.20	--	--	--	7.30	--
	07/26/00	3.60	--	--	--	1.80	--
	09/06/00	3.80	--	--	--	4.00	--
	11/29/00	2.00	--	--	--	2.00	--
	03/06/01	4.00	--	--	--	4.90	--
	06/19/01	3.40	--	--	--	4.00	--
	09/05/01	2.70	--	--	--	2.00	--
	12/20/01	2.20	--	--	--	2.20	--

**Table 2**  
**Field Measurements**  
Former Texaco Service Station (Site #211283)  
3810 Broadway  
Oakland, California

WELL ID	DATE	D.O.	ORP	D.O.	ORP	D.O.	ORP
		Before Purging (mg/L)	Before Purging (mV)	Mid-Purging (mg/L)	Mid-Purging (mV)	After Purging (mg/L)	After Purging (mV)
MW-9	06/25/02	0.90	--	1.00	--	1.20	--
(cont)	09/18/02	1.40	138	1.00	110	0.90	95
	12/19/02	1.80	126	--	--	1.10	98
	03/20/03	0.10	206	--	--	1.10	193

**EXPLANATIONS:**

Dissolved oxygen concentrations prior to June 25, 2002, were compiled from reports prepared by Toxicchem Management Systems, Inc.

D.O. = Dissolved Oxygen

mg/L = milligrams per liter

ORP = Oxidation Reduction Potential

(mV) = Millivolts

-- = Not Measured



## 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, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or disposable 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 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 #211283 Job Number: 386956  
 Site Address: 3810 Broadway Event Date: 3-20-03 (inclusive)  
 City: Oakland, CA Sampler: K. Kelly

Well ID: MW-1 Date Monitored: 3-20-03 Well Condition: OK / Band in well (monitor only)  
 Well Diameter: 2 in.  
 Total Depth: 29.95 ft.  
 Depth to Water: 20.92 ft.  
9.03 x VF 0.17 = 1.53 x3 (case volume) = Estimated Purge Volume: 4.60 gal.

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

Purge Equipment:  
 Disposable Bailer (P:n)   
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump   
 Grundfos \_\_\_\_\_  
 Other: Check Valve

Sampling Equipment:  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1530 Weather Conditions: Clear  
 Sample Time/Date: 1 Water Color: \_\_\_\_\_ Odor: No  
 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 (°F)	D.O. (mg/L)	ORP (mV)
<u>1550</u>	<u>80ml</u>	<u>7.03</u>	<u>764</u>	<u>18.6</u>	Pre: <input checked="" type="checkbox"/>	Pre: <input checked="" type="checkbox"/>
_____	<u>3.0</u>	_____	_____	_____	_____	_____
_____	<u>4.5</u>	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	Post: <input checked="" type="checkbox"/>	Post: <input checked="" type="checkbox"/>

### 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: Unable to purge water with check valve and 5/8 tubing w/suction pump. Only monitored MW-1 due to not being able to purge prior to sampling.

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #211283  
 Site Address: 3810 Broadway  
 City: Oakland, CA

Job Number: 386956  
 Event Date: 3-20-03 (inclusive)  
 Sampler: K. Kelly

Well ID: MW-4 Date Monitored: 3-20-03 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 28.58 ft.  
 Depth to Water: 17.76 ft.  
10.82 x VF 0.17 = 1.83 x3 (case volume) = Estimated Purge Volume: 551 gal.

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

Purge Equipment:  
 Disposable Bailor   
 Stainless Steel Bailor \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailor   
 Pressure Bailor \_\_\_\_\_  
 Discrete Bailor \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1450 Weather Conditions: Clear  
 Sample Time/Date: 1510 3-20-03 Water Color: Light Cloudy Odor: No  
 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 (°F)	D.O. (mg/L)	ORP (mV)
<u>1452</u>	<u>1.75</u>	<u>6.91</u>	<u>381</u>	<u>21.6</u>	Pre: <input checked="" type="checkbox"/>	Pre: <input checked="" type="checkbox"/>
<u>1455</u>	<u>3.5</u>	<u>6.89</u>	<u>363</u>	<u>20.4</u>		
<u>1458</u>	<u>5.5</u>	<u>6.62</u>	<u>364</u>	<u>19.6</u>		
					Post: <input checked="" type="checkbox"/>	Post: <input checked="" type="checkbox"/>

### LABORATORY INFORMATION

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

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

Add/Replaced Lock: \_\_\_\_\_

Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #211283 Job Number: 386956  
 Site Address: 3810 Broadway Event Date: 3-20-03 (inclusive)  
 City: Oakland, CA Sampler: K. Kelly

Well ID MW-5B  
 Well Diameter 2 in.  
 Total Depth 30.35 ft.  
 Depth to Water \_\_\_\_\_ ft.

Date Monitored: \_\_\_\_\_

Well Condition: Inaccessible

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	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: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description:  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

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)
_____	_____	_____	_____	_____	Pre: <input checked="" type="checkbox"/>	Pre: <input checked="" type="checkbox"/>
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	Post: <input checked="" type="checkbox"/>	Post: <input checked="" type="checkbox"/>

### 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: Inaccessible car over well.

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #211283 Job Number: 386956  
 Site Address: 3810 Broadway Event Date: 3-20-03 (inclusive)  
 City: Oakland, CA Sampler: K. Kelly

Well ID: MW- 6 Date Monitored: 3-20-03 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 28.08 ft.  
 Depth to Water: 20.23 ft.  
8.05 xVF 0.17 = 1.36 x3 (case volume) = Estimated Purge Volume: 4.10 gal.

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

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

Sampling Equipment:  
 Disposable Bailer   
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1727 Weather Conditions: clean  
 Sample Time/Date: 1745 / 3-20-03 Water Color: \_\_\_\_\_ Odor: yes  
 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 (°F)	D.O. (mg/L)	ORP (mV)
<u>1730</u>	<u>1.25</u>	<u>6.53</u>	<u>801</u>	<u>17.2</u>	Pre: <u>0.4</u>	Pre: <u>-93</u>
<u>1733</u>	<u>2.5</u>	<u>6.52</u>	<u>814</u>	<u>16.3</u>		
<u>1736</u>	<u>4.0</u>	<u>6.94</u>	<u>807</u>	<u>17.2</u>		
					Post: <u>1.6</u>	Post: <u>-87</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- <u>6</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
MW- <u>6</u>	<u>2</u> x amber	YES	NP	LANCASTER	TPH-D

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

Add/Replaced Lock:  Add/Replaced Plug:  Size: 2in



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility #: ChevronTexaco #211283 Job Number: 386956  
 Site Address: 3810 Broadway Event Date: 3-20-03 (inclusive)  
 City: Oakland, CA Sampler: K. Kelly

Well ID: MW-7 Date Monitored: 3-20-03 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 33.50 ft.  
 Depth to Water: 18.86 ft.  
14.64 xVF 0.17 = 2.48 x3 (case volume) = Estimated Purge Volume: 7.46 gal.

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

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump  \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer  \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1128 Weather Conditions: clear  
 Sample Time/Date: 1150 13-20-03 Water Color: Light Cloudy Odor: No  
 Purging Flow Rate: 2.0 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1132</u>	<u>2.5</u>	<u>6.71</u>	<u>442</u>	<u>20.3</u>	Pre: <u>2.6</u>	Pre: <u>129</u>
<u>1134</u>	<u>5.0</u>	<u>6.28</u>	<u>409</u>	<u>19.8</u>		
<u>1136</u>	<u>7.5</u>	<u>6.28</u>	<u>407</u>	<u>18.7</u>		
					Post: <u>2.7</u>	Post: <u>152</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>3</u> x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
<u>MW-7</u>	<u>2</u> 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 #211283 Job Number: 386956  
 Site Address: 3810 Broadway Event Date: 3-20-03 (inclusive)  
 City: Oakland, CA Sampler: K. Kelly

Well ID: MW-9 Date Monitored: 3-20-03 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 34.10 ft.  
 Depth to Water: 16.61 ft.  
17.49 x VF 0.17 = 2.97 x3 (case volume) = Estimated Purge Volume: 8.91 gal.

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

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

Sampling Equipment:  
 Disposable Bailer ✓  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1316 Weather Conditions: Clear  
 Sample Time/Date: 1340 13-20-03 Water Color: light cloudy Odor: No  
 Purging Flow Rate: 1.5 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)
<u>1319</u>	<u>3.0</u>	<u>7.04</u>	<u>384</u>	<u>20.3</u>	Pre: <u>0.1</u>	Pre: <u>206</u>
<u>1321</u>	<u>6.0</u>	<u>6.80</u>	<u>312</u>	<u>20.0</u>		
<u>1323</u>	<u>9.0</u>	<u>6.71</u>	<u>301</u>	<u>19.8</u>		
					Post: <u>1.1</u>	Post: <u>193</u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	3 x vov vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
MW-9	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 #211283  
 Site Address: 3810 Broadway  
 City: Oakland, CA

Job Number: 386956  
 Event Date: 3-20-03 (inclusive)  
 Sampler: K. Kelly

Well ID: MW-10  
 Well Diameter: 2 in.  
 Total Depth: 33.10 ft.  
 Depth to Water: 16.32 ft.  
16.78

Date Monitored: 3-20-03 Well Condition: OK

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

xVF 0.17 = 2.85 x3 (case volume) = Estimated Purge Volume: 8.55 gal.

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

Sampling Equipment:  
 Disposable Bailer ✓  
 Pressure Bailer \_\_\_\_\_  
 Discrete Bailer \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft.  
 Depth to Water: \_\_\_\_\_ ft.  
 Hydrocarbon Thickness:    ft.  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1212 Weather Conditions: Clear  
 Sample Time/Date: 1245 3-20-03 Water Color: Light Cloudy Odor: Yes  
 Purging Flow Rate: 1.5 gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (umhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1215</u>	<u>3.0</u>	<u>6.49</u>	<u>708</u>	<u>19.3</u>	Pre: <u>  </u>	Pre: <u>  </u>
<u>1217</u>	<u>6.0</u>	<u>6.50</u>	<u>526</u>	<u>19.4</u>		
<u>1220</u>	<u>9.0</u>	<u>6.50</u>	<u>547</u>	<u>19.3</u>		
					Post: <u>  </u>	Post: <u>  </u>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	<u>3</u> x voa vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
MW-10	<u>2</u> 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 #211283 Job Number: 386956  
 Site Address: 3810 Broadway Event Date: 3-20-03 (inclusive)  
 City: Oakland, CA Sampler: K. Kelly

Well ID: MW-11 Date Monitored: 3-20-03 Well Condition: OK  
 Well Diameter: 2 in.  
 Total Depth: 39.50 ft.  
 Depth to Water: 24.87 ft.  
14.63 x VF 0.17 = 2.48 x3 (case volume) = Estimated Purge Volume: 7.46 gal.

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

Purge Equipment:  
 Disposable Bailor \_\_\_\_\_  
 Stainless Steel Bailor \_\_\_\_\_  
 Stack Pump  \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailor  \_\_\_\_\_  
 Pressure Bailor \_\_\_\_\_  
 Discrete Bailor \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1034 Weather Conditions: clear  
 Sample Time/Date: 1050 / 3-20-03 Water Color: Light Cloudy Odor: No  
 Purging Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1035</u>	<u>2.5</u>	<u>7.01</u>	<u>590</u>	<u>21.4</u>	Pre: <input checked="" type="checkbox"/>	Pre: <input checked="" type="checkbox"/>
<u>1036</u>	<u>5.0</u>	<u>6.58</u>	<u>614</u>	<u>19.7</u>		
<u>1037</u>	<u>7.5</u>	<u>6.59</u>	<u>611</u>	<u>19.5</u>		
					Post: <input checked="" type="checkbox"/>	Post: <input checked="" type="checkbox"/>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	<u>3</u> x vov vial	YES	HCL	LANCASTER	TPH-G(8015)/BTEX+MTBE(8021)
MW-11	<u>2</u> 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 #211283 Job Number: 386956  
 Site Address: 3810 Broadway Event Date: 3-20-03 (inclusive)  
 City: Oakland, CA Sampler: K. Kelly

Well ID: MW-12 Date Monitored: 3-20-03 Well Condition: OK

Well Diameter: 2 in.  
 Total Depth: 29.62 ft.  
 Depth to Water: 17.97 ft.  
11.65 xVF 0.17 = 1.98 x3 (case volume) = Estimated Purge Volume: 5.94 gal.

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

Purge Equipment:  
 Disposable Bailor   
 Stainless Steel Bailor \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Suction Pump \_\_\_\_\_  
 Grundfos \_\_\_\_\_  
 Other: \_\_\_\_\_

Sampling Equipment:  
 Disposable Bailor   
 Pressure Bailor \_\_\_\_\_  
 Discrete Bailor \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Bailed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft.  
 Depth to Water: \_\_\_\_\_ ft.  
 Hydrocarbon Thickness: \_\_\_\_\_ ft.  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ gal  
 Amt Removed from Well: \_\_\_\_\_ gal  
 Product Transferred to: \_\_\_\_\_

Start Time (purge): 1639 Weather Conditions: Clear  
 Sample Time/Date: 1710 13-20-03 Water Color: Light Cloudy Odor: No  
 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)	D.O. (mg/L)	ORP (mV)
<u>1642</u>	<u>2.0</u>	<u>7.16</u>	<u>772</u>	<u>18.3</u>	Pre: <input checked="" type="checkbox"/>	Pre: <input checked="" type="checkbox"/>
<u>1648</u>	<u>4.0</u>	<u>7.13</u>	<u>765</u>	<u>18.8</u>		
<u>1659</u>	<u>6.0</u>	<u>7.10</u>	<u>800</u>	<u>18.7</u>		
					Post: <input checked="" type="checkbox"/>	Post: <input checked="" type="checkbox"/>

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-12</u>	<u>3</u> x vov vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-G(8015)/BTEX+MTBE(8021)</u>
<u>MW-12</u>	<u>2</u> x amber	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-D</u>

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

Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_ Size: \_\_\_\_\_

# Chevron California Region Analysis Request/Chain of Custody



032103-008

For Lancaster Laboratories use only  
 Acct. #: 10904 Sample #: 4016251-8 SCR#: \_\_\_\_\_  
754 845766

Facility #: SS#211283 G-R#386956 Global ID#T0600101108  
 Site Address: 3810 BROADWAY, OAKLAND, CA  
 Chevron PM: KS Lead Consultant: CAMBRIA  
 Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, Ca. 94568  
 Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)  
 Consultant Phone #: 925-551-7555 Fax #: 925-551-7899  
 Sampler: Kristina Kelly  
 Service Order #: \_\_\_\_\_  Non SAR:

### Analyses Requested

Matrix		Preservation Codes											
Soil	Water	Oil	Air	Total Number of Containers	BTEX + MTBE 8260	TPH 8015 MOD 8260	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenated	Lead 7420	7421

**Preservative Codes**  
 H = HCl      T = Thiosulfate  
 N = HNO<sub>3</sub>    B = NaOH  
 S = H<sub>2</sub>SO<sub>4</sub>   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 8260	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup	8260 full scan	Oxygenated	Lead 7420	7421	
CA	3-20-03								2	X	X								
MW-4		1510	X						5	X	X	X							
MW-6		1745	X						5	X	X	X							
MW-7		1150	X						5	X	X	X							
MW-9		1340	X						5	X	X	X							
MW-10		1245	X						5	X	X	X							
MW-11		1050	X						5	X	X	X							
MW-12		1410	X						5	X	X	X							

**Comments / Remarks**

**Turnaround Time Requested (TAT) (please circle)**  
 STD. TAT: 24 hour, 72 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>Kristina Kelly</u>	Date: <u>3/20/03</u>	Time: <u>0645</u>	Received by: <u>DV</u>	Date: <u>3/21/03</u>	Time: <u>1230</u>
Relinquished by: <u>DV</u>	Date: <u>3/21/03</u>	Time: <u>1200</u>	Received by: <u>Bernard ...</u>	Date: <u>3/21/03</u>	Time: <u>1220</u>
Relinquished by: <u>Bernard ...</u>	Date: <u>3/21/03</u>	Time: <u>1445</u>	Received by: <u>Airborne</u>	Date: <u>3/21/03</u>	Time: _____
Relinquished by Commercial Carrier: <u>Airborne</u>	UPS	FedEx	Other: <u>Airborne</u>	Received by: <u>David ...</u>	Date: <u>3/21/03</u>
Temperature Upon Receipt: <u>2-4°C</u>	Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				

## ANALYTICAL RESULTS

Prepared for:

ChevronTexaco  
6001 Bollinger Canyon Rd L4310

San Ramon CA 94583  
925-842-8582

Prepared by:

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

RECEIVED  
MARCH 22 2003  
CENTRAL CONTROL ROOM

### SAMPLE GROUP

The sample group for this submittal is 845766. Samples arrived at the laboratory on Saturday, March 22, 2003. The PO# for this group is 99011184 and the release number is STREICH.

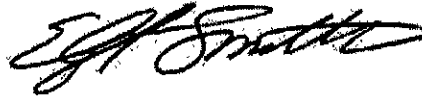
<u>Client Description</u>		<u>Lancaster Labs Number</u>
QA-T-030320	NA Water	4016251
MW-4-W-030320	Grab Water	4016252
MW-6-W-030320	Grab Water	4016253
MW-7-W-030320	Grab Water	4016254
MW-9-W-030320	Grab Water	4016255
MW-10-W-030320	Grab Water	4016256
MW-11-W-030320	Grab Water	4016257
MW-12-W-030320	Grab Water	4016258

1 COPY TO Cambria C/O Gettler- Ryan  
ELECTRONIC Gettler-Ryan  
COPY TO

Attn: Deanna L. Harding  
Attn: Cheryl Hansen

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

Respectfully Submitted,



Elizabeth A. Smith  
Senior Chemist

**Lancaster Laboratories Sample No. WW 4016251**

Collected: 03/20/2003 00:00

Account Number: 10904

Submitted: 03/22/2003 10:14

Reported: 04/03/2003 at 12:34

Discard: 05/04/2003

QA-T-030320

NA

Water

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Facility# 211283 Job# 386956

GRD

3810 Broadway-Oakland

T0600101108 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.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	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		Analyst	Dilution Factor
				Date and Time			
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/25/2003 20:05		Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	03/25/2003 20:05		Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/25/2003 20:05		Melissa D Mann	n.a.

**Lancaster Laboratories Sample No. WW 4016252**

Collected: 03/20/2003 15:10 by KK

Account Number: 10904

Submitted: 03/22/2003 10:14

ChevronTexaco

Reported: 04/03/2003 at 12:34

6001 Bollinger Canyon Rd L4310

Discard: 05/04/2003

MW-4-W-030320

Grab

Water

San Ramon CA 94583

Facility# 211283 Job# 386956

GRD

3810 Broadway-Oakland

T0600101108 MW-4

283M4

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.	180.	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.	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.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	3	04/01/2003 17:42	Tracy A Cole	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/26/2003 14:11	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	03/26/2003 14:11	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/26/2003 14:11	Melissa D Mann	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	03/25/2003 09:35	Aubri L Peters	1

Lancaster Laboratories Sample No. **WW 4016253**

 Collected: 03/20/2003 17:45 by **KK**

Account Number: 10904

 Submitted: 03/22/2003 10:14  
 Reported: 04/03/2003 at 12:34  
 Discard: 05/04/2003

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310

 MW-6-W-030320 **Grab Water**  
 Facility# 211283 Job# 386956 **GRD**  
 3810 Broadway-Oakland T0600101108 MW-6

San Ramon CA 94583

283M6

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.	250.	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.	23,000.	500.	ug/l	10
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.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	1,500.	5.0	ug/l	10
02164	Toluene	108-88-3	2,200.	5.0	ug/l	10
02166	Ethylbenzene	100-41-4	920.	5.0	ug/l	10
02171	Total Xylenes	1330-20-7	3,400.	15.	ug/l	10
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	100.	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.						

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.

State of California Lab Certification No. 2116

### Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	03/30/2003 11:09		Devin M Hetrick	10
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/26/2003 14:44		Melissa D Mann	10
02159	BTEX, MTBE	SW-846 8021B	1	03/26/2003 14:44		Melissa D Mann	10
01146	GC VOA Water Prep	SW-846 5030B	1	03/26/2003 14:44		Melissa D Mann	n.a.



Lancaster Laboratories Sample No. WW 4016253

Collected: 03/20/2003 17:45 by KK

Account Number: 10904

Submitted: 03/22/2003 10:14

Reported: 04/03/2003 at 12:34

Discard: 05/04/2003

MW-6-W-030320

Grab Water

Facility# 211283 Job# 386956

GRD

3810 Broadway-Oakland

T0600101108 MW-6

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

283M6

02135 Extraction - DRO Water  
Special

TPH by CA LUFT

1

03/25/2003 09:35

Aubri L Peters

1

Lancaster Laboratories Sample No. WW 4016254

Collected: 03/20/2003 11:50 by KK

Account Number: 10904

Submitted: 03/22/2003 10:14

ChevronTexaco

Reported: 04/03/2003 at 12:35

6001 Bollinger Canyon Rd L4310

Discard: 05/04/2003

MW-7-W-030320 Grab Water

San Ramon CA 94583

Facility# 211283 Job# 386956 GRD

3810 Broadway-Oakland T0600101108 MW-7

283M7

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.	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.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	03/28/2003 19:53	Devin M Hetrick	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/26/2003 15:17	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	03/26/2003 15:17	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/26/2003 15:17	Melissa D Mann	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	03/25/2003 09:35	Aubri L Peters	1

**Lancaster Laboratories Sample No. WW 4016255**

Collected: 03/20/2003 13:40 by KK

Account Number: 10904

Submitted: 03/22/2003 10:14

ChevronTexaco

Reported: 04/03/2003 at 12:35

6001 Bollinger Canyon Rd L4310

Discard: 05/04/2003

MW-9-W-030320

Grab

Water

San Ramon CA 94583

Facility# 211283 Job# 386956

GRD

3810 Broadway-Oakland T0600101108 MW-9

283M9

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.	87.	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.	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.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	N.D.	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	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	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	03/28/2003 20:12	Devin M Hetrick	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/26/2003 15:49	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	03/26/2003 15:49	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/26/2003 15:49	Melissa D Mann	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	03/25/2003 09:35	Aubri L Peters	1

Lancaster Laboratories Sample No. **WW 4016256**

 Collected: 03/20/2003 12:45 by **KK**

Account Number: 10904

 Submitted: 03/22/2003 10:14  
 Reported: 04/03/2003 at 12:35  
 Discard: 05/04/2003

 ChevronTexaco  
 6001 Bollinger Canyon Rd L4310

MW-10-W-030320

Grab Water

San Ramon CA 94583

 Facility# 211283 Job# 386956 GRD  
 3810 Broadway-Oakland T0600101108 MW-10

28310

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.	200.	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.	620.	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.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	21.	0.50	ug/l	1
02164	Toluene	108-88-3	5.3	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	6.0	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	13.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	N.D.	10.	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.						

Due to the presence of an interferent near its retention time, the normal reporting limit was not attained for MTBE. The presence or concentration of this compound cannot be determined due to the presence of this interferent.

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)	CALUFT-DRO/8015B, Modified	1	03/28/2003 20:32	Devin M Hetrick	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/26/2003 16:22	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	03/26/2003 16:22	Melissa D Mann	1

Lancaster Laboratories Sample No. WW 4016256

Collected: 03/20/2003 12:45 by KK

Account Number: 10904

Submitted: 03/22/2003 10:14

Reported: 04/03/2003 at 12:35

Discard: 05/04/2003

MW-10-W-030320

Grab

Water

ChevronTexaco

6001 Bollinger Canyon Rd L4310

San Ramon CA 94583

Facility# 211283 Job# 386956

GRD

3810 Broadway-Oakland

T0600101108 MW-10

28310

01146 GC VOA Water Prep

SW-846 5030B

1

03/26/2003 16:22

Melissa D Mann

n.a.

02135 Extraction - DRO Water  
Special

TPH by CA LUFT

1

03/25/2003 09:35

Aubri L Peters

1

**Lancaster Laboratories Sample No. WW 4016257**

Collected: 03/20/2003 10:50 by KK

Account Number: 10904

Submitted: 03/22/2003 10:14

ChevronTexaco

Reported: 04/03/2003 at 12:35

6001 Bollinger Canyon Rd L4310

Discard: 05/04/2003

MW-11-W-030320

Grab

Water

San Ramon CA 94583

Facility# 211283 Job# 386956

GRD

3810 Broadway-Oakland T0600101108 MW-11

28311

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.	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.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	N.D.	0.50	ug/l	1
02164	Toluene	108-88-3	0.51	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	N.D.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	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		Analyst	Dilution Factor
				Date and Time			
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	03/30/2003	10:49	Devin M Hetrick	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/26/2003	16:55	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	03/26/2003	16:55	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/26/2003	16:55	Melissa D Mann	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	03/25/2003	09:35	Aubri L Peters	1

**Lancaster Laboratories Sample No. WW 4016258**

Collected: 03/20/2003 17:10 by KK

Account Number: 10904

Submitted: 03/22/2003 10:14

ChevronTexaco

Reported: 04/03/2003 at 12:35

6001 Bollinger Canyon Rd L4310

Discard: 05/04/2003

MW-12-W-030320

Grab

Water

San Ramon CA 94583

Facility# 211283 Job# 386956

GRD

3810 Broadway-Oakland T0600101108 MW-12

28312

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.	300.	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.	280.	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.						
02159	BTEX, MTBE					
02161	Benzene	71-43-2	120.	0.50	ug/l	1
02164	Toluene	108-88-3	1.9	0.50	ug/l	1
02166	Ethylbenzene	100-41-4	11.	0.50	ug/l	1
02171	Total Xylenes	1330-20-7	N.D.	1.5	ug/l	1
02172	Methyl tert-Butyl Ether	1634-04-4	2.6	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
05553	TPH - DRO CA LUFT (Waters)	CALUFT-DRO/8015B, Modified	1	03/28/2003 22:08	Devin M Hetrick	1
01729	TPH-GRO - Waters	N. CA LUFT Gasoline Method	1	03/26/2003 17:28	Melissa D Mann	1
02159	BTEX, MTBE	SW-846 8021B	1	03/26/2003 17:28	Melissa D Mann	1
01146	GC VOA Water Prep	SW-846 5030B	1	03/26/2003 17:28	Melissa D Mann	n.a.
02135	Extraction - DRO Water Special	TPH by CA LUFT	1	03/25/2003 09:35	Aubri L Peters	1

## Quality Control Summary

 Client Name: ChevronTexaco  
 Reported: 04/03/03 at 12:35 PM

Group Number: 845766

### Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCS/LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 030830030A TPH - DRO CA LUFT (Waters)	N.D.	50.	ug/l	84	86	61-126	3	20
Batch number: 03083A51A TPH-GRO - Waters	N.D.	50.	ug/l	94	94	70-130	0	30
Benzene	N.D.	.5	ug/l	105	111	80-118	5	30
Toluene	N.D.	.5	ug/l	101	106	82-119	5	30
Ethylbenzene	N.D.	.5	ug/l	100	105	81-119	5	30
Total Xylenes	N.D.	1.5	ug/l	101	107	82-120	5	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	102	107	79-127	6	30
Batch number: 03085A55A TPH-GRO - Waters	N.D.	50.	ug/l	107	104	70-130	3	30
Benzene	N.D.	.5	ug/l	99	97	80-118	2	30
Toluene	N.D.	.5	ug/l	101	101	82-119	0	30
Ethylbenzene	N.D.	.5	ug/l	102	102	81-119	1	30
Total Xylenes	N.D.	1.5	ug/l	102	103	82-120	0	30
Methyl tert-Butyl Ether	N.D.	2.5	ug/l	99	100	79-127	1	30

### Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	BKG MAX	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 03083A51A TPH-GRO - Waters	94		70-130					
Benzene	94		67-136					
Toluene	88		78-129					
Ethylbenzene	89		75-133					
Total Xylenes	89		86-132					
Methyl tert-Butyl Ether	(2)		66-136					
Batch number: 03085A55A TPH-GRO - Waters	119	117	70-130	1	30			
Benzene	104		67-136					
Toluene	107		78-129					
Ethylbenzene	108		75-133					
Total Xylenes	108		86-132					
Methyl tert-Butyl Ether	105		66-136					

### Surrogate Quality Control

 Analysis Name: TPH - DRO CA LUFT (Waters)  
 Batch number: 030830030A  
 Orthoterphenyl

4016252	91
4016253	104
4016254	103

\*- 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.



## Quality Control Summary

Client Name: ChevronTexaco  
Reported: 04/03/03 at 12:35 PM

Group Number: 845766

### Surrogate Quality Control

4016255 92  
4016256 101  
4016257 103  
4016258 99  
Blank 99  
LCS 93  
LCSD 96

Limits: 59-139

Analysis Name: BTEX, MTBE  
Batch number: 03083A51A

Trifluorotoluene-F Trifluorotoluene-P

4016251	89	90
Blank	89	89
LCS	93	91
LCSD	94	91
MS	90	91

Limits: 57-146

66-136

Analysis Name: BTEX, MTBE  
Batch number: 03085A55A

Trifluorotoluene-F Trifluorotoluene-P

4016252	94	112
4016253	98	118
4016254	92	110
4016255	96	112
4016256	103	123
4016257	94	111
4016258	91	112
Blank	96	112
LCS	97	110
LCSD	98	109
MS	102	112
MSD	101	

Limits: 57-146

66-136

\*- 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.

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>N.D.</b>	none detected	<b>BMQL</b>	Below Minimum Quantitation Level
<b>TNTC</b>	Too Numerous To Count	<b>MPN</b>	Most Probable Number
<b>IU</b>	International Units	<b>CP Units</b>	cobalt-chloroplatinate units
<b>umhos/cm</b>	micromhos/cm	<b>NTU</b>	nephelometric turbidity units
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>ug</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>ml</b>	milliliter(s)	<b>l</b>	liter(s)
<b>m3</b>	cubic meter(s)	<b>ul</b>	microliter(s)
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>J</b>	estimated value – The result falls within the Method Detection Limit (MDL) and Limit of Quantitation (LOQ).		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is <CRDL, but ≥IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns >25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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