TRC

Customer-Focused Solutions

April 26, 2004

RO 408

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

ATTN: MR. THOMAS H. KOSEL

SITE: 76 STATION 3135
845 66th AVENUE
OAKLAND, CALIFORNIA

RE: ANNUAL MONITORING REPORT
MARCH 2003 THROUGH MARCH 2004

Dear Mr. Kosel:

Please find enclosed our Annual Monitoring Report for 76 Station 3135, located at 845 66th Street, Oakland, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

Anju Farfan

Anju Farfan
QMS Operations Manager

CC: Mr. Amir Gholami, Alameda County Health Care Services
Ms. Barbara Moed, TRC

Enclosures
20-0400/3135R01.QMS

21 Technology Drive • Irvine, California 92618
Telephone 949-727-9336 • Fax 949-727-7399

TRC

Customer-Focused Solutions

FLUID LEVEL MONITORING AND GROUNDWATER SAMPLING REPORT MARCH 2003 THROUGH MARCH 2004

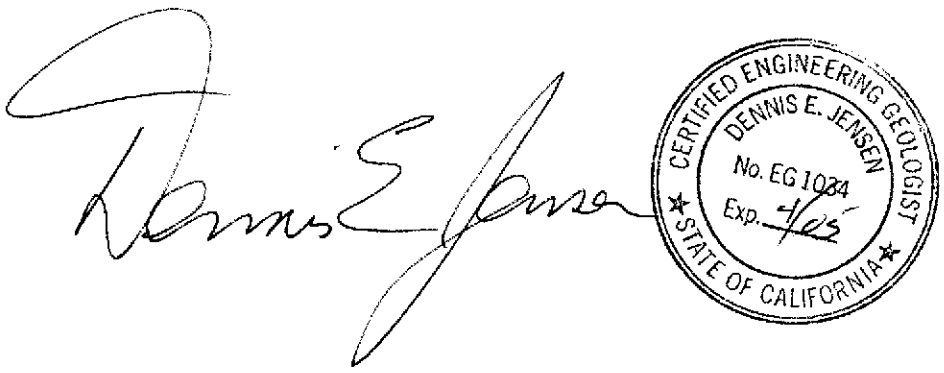
April 26, 2004

76 Station 3135
845 66th Avenue
Oakland, California

Prepared For:

Mr. Thomas H. Kosel
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, California 95818

By:



Senior Project Geologist, Irvine Operations

21 Technology Drive • Irvine, California 92618
Telephone 949-727-9336 • Fax 949-727-7399

GROUNDWATER MONITORING REPORT

LIST OF ATTACHMENTS	
Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Table 1: Summary of Groundwater Levels and Chemical Analysis Results Table 2: Historic Groundwater Levels and Chemical Analysis Results Table 3: Summary of Additional Chemical Analysis Results
Gettler-Ryan Inc. Historical Tables	Table 1: Groundwater Monitoring Data and Analytical Results Table 2: Groundwater Analytical Results-Oxygenate Compounds Table 3: Dissolved Oxygen Compounds Table 4: Groundwater Analytical Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase Hydrocarbon Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map
Graphs	Benzene Concentrations vs. Time Hydrographs
Field Activities	General Field Procedures Groundwater Sampling Field Notes
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Transport and Disposal Limitations

Summary of Gauging and Sampling Activities
January 2004 through March 2004
76 Station 3135
845 66th Avenue
Oakland, CA

Site Information:

Site:	76 Station 845 66th Avenue Oakland, CA
Project Coordinator/Phone Number:	Thomas H. Kosel/916-588-7666
Groundwater wells onsite:	7
Groundwater wells offsite:	4

Field Activity:

Sampling consultant:	TRC
Date(s) sampled:	2/05/04
Groundwater wells gauged:	10
Groundwater wells sampled:	10
Purging method:	diaphragm pump
Treatment/disposal method during sampling event:	Onyx/Rodeo Unit 100
Free product pumpouts other than sampling event:	No
Treatment/Disposal method during free product pumpouts:	N/A

Site Hydrogeology:

Minimum depth to groundwater (feet bgs):	4.2
Maximum depth to groundwater (feet bgs):	6.72
Average groundwater elevation (feet relative to mean sea level):	-1.38
Average change in groundwater elevations since previous event (feet):	0.35
Groundwater gradient and flow direction:	-0.01 ft/ft, South
Previous gradient and/or flow direction (and date):	(3/10/03)

Groundwater Condition (Benzene Maximum Contaminant Level [MCL] = 1.0 µg/l)

Wells with benzene concentrations below MCL:	9
Wells with benzene concentrations at or above MCL:	1
Minimum benzene concentration (µg/l):	ND
Maximum benzene concentration (µg/l):	100 (MW-6)
Minimum MTBE concentration (µg/l):	ND
Maximum MTBE concentration (µg/l):	300
Minimum TPPH concentration (µg/l):	ND
Maximum TPPH concentration (µg/l):	8400 (MW-6)
Groundwater wells with free product:	0
Minimum free product thickness (feet):	0
Maximum free product thickness (feet):	0

Additional Information:

MW-11=Inaccessible, locked gate,

This report presents the results of groundwater monitoring and sampling activities performed by TRC. Please contact the primary consultant for other specific information on this site.

TABLES

TABLE KEY

ABBREVIATIONS / SYMBOLS

LPH	=	liquid-phase hydrocarbons
µg/l	=	micrograms per liter
mg/l	=	milligrams per liter
ND	=	not detected at or above laboratory detection limit
DTSC	=	Department of Toxic Substances Control
N/A	=	not applicable
Trace	=	less than 0.01 foot of LPH in well
USTs	=	underground storage tanks
--	=	not analyzed, measured, or collected
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
BTEX	=	benzene, toluene, ethylbenzene, and total xylenes
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TRPH	=	total recoverable petroleum hydrocarbons
MTBE	=	methyl tertiary butyl ether
TAME	=	tertiary amyl methyl ether
ETBE	=	ethyl tertiary butyl ether
DIPE	=	di-isopropyl ether
TBA	=	tertiary butyl alcohol
1,1-DCA	=	1,1-Dichloroethane
1,2-DCA	=	1,2-Dichloroethane
1,1-DCE	=	1,1-Dichloroethene
1,2-DCE	=	cis- and trans-1,2-Dichloroethene
PCE	=	tetrachloroethene
TCA	=	trichloroethane
TCE	=	trichloroethene
PCB	=	polychlorinated biphenyls
TPPH	=	total purgeable petroleum hydrocarbons

NOTES

Elevations are in feet above mean sea level.

Groundwater elevation for wells with LPH is calculated as follows:

Surface elevation – depth to water + (0.75 x LPH thickness).

Concentration Graphs have been modified to plot non-detect results at the reporting limit stated in the official laboratory report. All non-detect results prior to the Second Quarter 2000 were plotted at 0.1 µg/l for graphical display.

J = estimated concentration, value is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL)

REFERENCE

TRC began groundwater monitoring and sampling activities in October 2003. Historical data for 76 Station 3135 was provided by Gettler-Ryan Inc., Dublin, California, in an excel table received in September 2003.

Table 1

SUMMARY OF GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS

February 5, 2004

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-1														
2/05/04	4.96	6.40	0.00	-1.44	0.49	--	600	ND<0.50	ND<0.50	ND<0.50	2.7	--	36	
MW-2														
2/05/04	3.56	4.65	0.00	-1.09	2.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	
MW-3														
2/05/04	3.12	4.20	0.00	-1.08	0.53	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	11	
MW-4														
2/05/04	5.01	5.30	0.00	-0.29	-1.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
MW-5														
2/05/04	4.31	6.72	0.00	-2.41	0.21	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.7	
MW-6														
2/05/04	4.05	5.45	0.00	-1.40	0.50	--	8400	100	12	770	980	--	270	
MW-7														
2/05/04	4.45	5.10	0.00	-0.65	0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
MW-8														
2/05/04	4.43	6.25	0.00	-1.82	0.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
MW-9														
2/05/04	4.60	5.58	0.00	-0.98	0.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
MW-10														
2/05/04	2.69	5.32	0.00	-2.63	-0.34	--	320	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	300	
MW-11														
2/05/04	2.63	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible, locked gate

Table 2

HISTORIC GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS

May 1990 Through February 2004

76 Station 3135

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-1														
5/11/90	--	--	0.00	--	--	22000	--	590	42	1200	3600	--	--	
8/28/90	--	--	0.00	--	--	1700	--	140	1.4	180	150	--	--	
11/26/90	--	--	0.00	--	--	2900	--	160	2.3	330	320	--	--	
2/21/91	--	--	0.00	--	--	26000	--	280	39	1200	1900	--	--	
8/05/91	--	--	0.00	--	--	1200	--	95	6.2	230	80	--	--	
11/05/91	--	--	0.00	--	--	4900	--	80	ND	150	160	--	--	
2/07/92	--	--	0.00	--	--	220	--	2.1	ND	10	16	--	--	
5/05/92	--	--	0.00	--	--	310	--	5.7	ND	7.1	15	--	--	
8/03/92	--	--	0.00	--	--	980	--	22	0.69	77	82	--	--	
11/03/92	--	--	0.00	--	--	1100	--	28	ND	80	78	--	--	
2/03/93	--	--	0.00	--	--	94	--	ND	ND	1.4	1.6	--	--	
3/01/93	5.18	7.30	0.00	-2.12	--	--	--	--	--	--	--	--	--	
4/01/93	5.18	7.12	0.00	-1.94	0.18	--	--	--	--	--	--	--	--	
5/17/93	5.18	8.25	0.00	-3.07	--	960	--	39	ND	57	60	--	--	
6/15/93	5.18	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
7/14/93	5.18	9.48	0.00	-4.30	--	--	--	--	--	--	--	--	--	
8/13/93	5.18	10.00	0.00	-4.82	-0.52	860	--	3.5	ND	17	20	--	--	
9/13/93	5.18	10.40	0.00	-5.22	-0.40	--	--	--	--	--	--	--	--	
10/14/93	5.18	10.73	0.00	-5.55	-0.33	--	--	--	--	--	--	--	--	
11/11/93	4.99	10.80	0.00	-5.81	-0.26	930	--	7.3	ND	25	19	--	--	
12/14/93	4.99	9.50	0.00	-4.51	1.30	--	--	--	--	--	--	--	--	
1/10/94	4.99	9.80	0.00	-4.81	-0.30	--	--	--	--	--	--	--	--	
2/10/94	4.99	8.58	0.00	-3.59	1.22	170	--	0.9	2.3	ND	ND	--	--	
3/14/94	4.99	7.73	0.00	-2.74	0.85	--	--	--	--	--	--	--	--	
4/23/94	4.99	8.28	0.00	-3.29	-0.55	--	--	--	--	--	--	--	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-1 continued														
5/05/94	4.99	8.11	0.00	-3.12	0.17	96	--	ND	ND	ND	ND	--	--	
6/07/94	4.99	8.09	0.00	-3.10	0.02	--	--	--	--	--	--	--	--	
7/05/94	4.99	8.43	0.00	-3.44	--	--	--	--	--	--	--	--	--	
8/02/94	4.99	8.76	0.00	-3.77	-0.33	700	--	13	0.62	2	3.6	--	--	
11/07/94	4.99	8.26	0.00	-3.27	0.50	890	--	16	ND	31	21	--	--	
12/03/94	4.99	6.59	0.00	-1.60	1.67	--	--	--	--	--	--	--	--	
1/10/95	4.99	6.12	0.00	-1.13	0.47	--	--	--	--	--	--	--	--	
2/01/95	4.99	6.04	0.00	-1.05	0.08	120	--	1.7	ND	ND	ND	--	--	
3/03/95	4.99	6.73	0.00	-1.74	-0.69	--	--	--	--	--	--	--	--	
5/02/95	4.99	6.57	0.00	-1.58	0.16	460	--	14	ND	14	13	--	--	
8/01/95	4.99	7.70	0.00	-2.71	-1.13	190	--	4	ND	3.7	2.4	--	--	
11/01/95	4.99	9.08	0.00	-4.09	-1.38	160	--	2.5	ND	0.82	0.57	280	--	
2/01/96	4.99	6.22	0.00	-1.23	2.86	240	--	8.7	2	ND	0.66	250	--	
2/04/97	4.99	8.48	0.00	-3.49	-2.26	120	--	0.58	ND	ND	ND	150	--	
2/05/98	4.99	5.50	0.00	-0.51	2.98	130	--	1.3	ND	2.7	11	220	--	
2/04/99	4.99	6.58	0.00	-1.59	--	1600	--	74	16	ND	ND	680	850	
2/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/02/00	4.99	6.69	0.00	-1.70	--	174	--	5.7	1.41	ND	ND	839	787	
3/05/01	4.99	6.58	0.00	-1.59	0.11	510	--	12.7	0.875	2.57	ND	572	585	
8/10/01	4.99	7.31	0.00	-2.32	-0.73	--	--	--	--	--	--	--	--	
2/22/02	4.96	6.25	0.00	-1.29	1.03	910	--	2	ND<1.0	2.3	ND<1.0	410	500	
3/10/03	4.96	6.89	0.00	-1.93	-0.64	--	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<10	--	480	
2/05/04	4.96	6.40	0.00	-1.44	0.49	--	600	ND<0.50	ND<0.50	ND<0.50	2.7	--	36	
MW-2														
5/11/90	--	--	0.00	--	--	65000	--	3300	3300	4100	12000	--	--	
8/28/90	--	--	0.00	--	--	27000	--	2600	1300	1900	3000	--	--	
11/26/90	--	--	0.00	--	--	15000	--	1600	450	1100	2100	--	--	
2/21/91	--	--	0.00	--	--	3400	--	160	61	200	490	--	--	
8/05/91	--	--	0.00	--	--	33000	--	2900	190	3400	7900	--	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-2 continued														
11/05/91	--	--	0.00	--	--	110000	--	4200	200	3400	8600	--	--	
2/07/92	--	--	0.00	--	--	11000	--	1400	30	1900	1400	--	--	
5/05/92	--	--	0.00	--	--	26000	--	2300	110	2700	6900	--	--	
8/03/92	--	--	0.00	--	--	37000	--	4500	480	3300	9700	--	--	
11/03/92	--	--	0.00	--	--	40000	--	5600	130	3000	6100	--	--	
2/03/93	--	--	0.00	--	--	9300	--	780	68	830	1200	--	--	
3/01/93	3.83	5.92	0.00	-2.09	--	--	--	--	--	--	--	--	--	
4/01/93	3.83	5.76	0.00	-1.93	0.16	--	--	--	--	--	--	--	--	
5/17/93	3.83	7.08	0.00	-3.25	--	46000	--	4400	510	2900	9900	--	--	
6/15/93	3.83	7.02	0.00	-3.19	0.06	--	--	--	--	--	--	--	--	
7/14/93	3.83	8.13	0.00	-4.30	-1.11	--	--	--	--	--	--	--	--	
8/13/93	3.83	8.64	0.00	-4.81	-0.51	44000	--	5100	600	2900	8500	--	--	
9/13/93	3.83	9.00	0.00	-5.17	-0.36	--	--	--	--	--	--	--	--	
10/14/93	3.83	9.03	0.00	-5.20	-0.03	--	--	--	--	--	--	--	--	
11/11/93	3.57	9.22	0.00	-5.65	-0.45	36000	--	4800	970	3000	8100	--	--	
12/14/93	3.57	8.05	0.00	-4.48	1.17	--	--	--	--	--	--	--	--	
1/10/94	3.57	8.29	0.00	-4.72	-0.24	--	--	--	--	--	--	--	--	
2/10/94	3.57	6.93	0.00	-3.36	1.36	12000	--	1000	17	880	940	--	--	
3/14/94	3.57	6.41	0.00	-2.84	0.52	--	--	--	--	--	--	--	--	
4/23/94	3.57	6.66	0.00	-3.09	-0.25	--	--	--	--	--	--	--	--	
5/05/94	3.57	6.38	0.00	-2.81	0.28	36000	--	3200	670	2700	9600	--	--	
6/07/94	3.57	6.33	0.00	-2.76	0.05	--	--	--	--	--	--	--	--	
7/05/94	3.57	6.52	0.00	-2.95	--	--	--	--	--	--	--	--	--	
8/02/94	3.57	6.75	0.00	-3.18	-0.23	32000	--	2400	2200	2900	12000	--	--	
11/07/94	3.57	6.04	0.00	-2.47	0.71	49000	--	1700	2000	3000	10000	--	--	
12/03/94	3.57	4.95	0.00	-1.38	1.09	--	--	--	--	--	--	--	--	
1/10/95	3.57	4.59	0.00	-1.02	0.36	--	--	--	--	--	--	--	--	
2/01/95	3.57	4.54	0.00	-0.97	0.05	9300	--	300	210	630	2600	--	--	
3/03/95	3.57	5.17	0.00	-1.60	-0.63	--	--	--	--	--	--	--	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-2 continued														
5/02/95	3.57	5.03	0.00	-1.46	0.14	5600	--	150	ND	150	180	--	--	
8/01/95	3.57	6.16	0.00	-2.59	-1.13	13000	--	700	140	1400	5500	--	--	
11/01/95	3.57	7.30	0.00	-3.73	-1.14	18000	--	490	110	1300	4600	190	--	
2/01/96	3.57	4.57	0.00	-1.00	2.73	22000	--	470	77	1400	5900	ND	--	
2/04/97	3.57	7.10	0.00	-3.53	-2.53	100	--	ND	0.89	ND	ND	81	--	
2/05/98	3.57	4.12	0.00	-0.55	2.98	330	--	2.6	2.6	17	58	5.5	--	
8/28/98	3.57	6.26	0.00	-2.69	-2.14	--	--	--	--	--	--	--	--	
2/04/99	3.57	5.01	0.00	-1.44	1.25	ND	--	ND	0.54	0.6	1.5	19	16	
2/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/02/00	3.57	5.35	0.00	-1.78	--	ND	--	ND	ND	ND	ND	163	150	
3/05/01	3.57	5.26	0.00	-1.69	0.09	658	--	5.53	ND	70	152	108	--	
8/10/01	3.57	6.03	0.00	-2.46	-0.77	--	--	--	--	--	--	--	--	
2/22/02	3.56	4.81	0.00	-1.25	1.21	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	16	18	
3/10/03	3.56	6.72	0.00	-3.16	-1.91	--	430	2.8	ND<0.50	48	76	--	68	
2/05/04	3.56	4.65	0.00	-1.09	2.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	
MW-3														
5/11/90	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
8/28/90	--	--	0.00	--	--	ND	--	ND	ND	ND	0.7	--	--	
11/26/90	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
2/21/91	--	--	0.00	--	--	ND	--	ND	ND	ND	0.64	--	--	
8/05/91	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
11/05/91	--	--	0.00	--	--	31	--	ND	ND	ND	0.65	--	--	
2/07/92	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
5/05/92	--	--	0.00	--	--	ND	--	ND	ND	0.43	1.8	--	--	
8/03/92	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
11/03/92	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
2/03/93	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
3/01/93	3.30	4.84	0.00	-1.54	--	--	--	--	--	--	--	--	--	
4/01/93	3.30	4.60	0.00	-1.30	0.24	--	--	--	--	--	--	--	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-3 continued														
5/17/93	3.30	5.47	0.00	-2.17	--	ND	--	ND	ND	ND	ND	--	--	
6/15/93	3.30	5.57	0.00	-2.27	-0.10	--	--	--	--	--	--	--	--	
7/14/93	3.30	6.92	0.00	-3.62	-1.35	--	--	--	--	--	--	--	--	
8/13/93	3.30	7.85	0.00	-4.55	-0.93	ND	--	ND	ND	ND	ND	--	--	
9/13/93	3.30	8.42	0.00	-5.12	-0.57	--	--	--	--	--	--	--	--	
10/14/93	3.30	8.90	0.00	-5.60	-0.48	--	--	--	--	--	--	--	--	
11/11/93	3.12	8.92	0.00	-5.80	-0.20	ND	--	ND	ND	ND	ND	--	--	
12/14/93	3.12	7.36	0.00	-4.24	1.56	--	--	--	--	--	--	--	--	
1/10/94	3.12	7.54	0.00	-4.42	-0.18	--	--	--	--	--	--	--	--	
2/10/94	3.12	6.23	0.00	-3.11	1.31	ND	--	ND	ND	ND	0.84	--	--	
3/14/94	3.12	5.56	0.00	-2.44	0.67	--	--	--	--	--	--	--	--	
4/23/94	3.12	7.72	0.00	-4.60	-2.16	--	--	--	--	--	--	--	--	
5/05/94	3.12	5.50	0.00	-2.38	2.22	62	--	ND	ND	ND	ND	--	--	
6/07/94	3.12	5.35	0.00	-2.23	0.15	--	--	--	--	--	--	--	--	
7/02/94	3.12	5.46	0.00	-2.34	-0.11	--	--	--	--	--	--	--	--	
8/02/94	3.12	5.84	0.00	-2.72	--	150	--	ND	ND	ND	ND	--	--	
11/07/94	3.12	6.05	0.00	-2.93	-0.21	94	--	ND	ND	ND	ND	--	--	
12/03/94	3.12	4.51	0.00	-1.39	1.54	--	--	--	--	--	--	--	--	
1/10/95	3.12	3.82	0.00	-0.70	0.69	--	--	--	--	--	--	--	--	
2/01/95	3.12	3.84	0.00	-0.72	-0.02	100	--	ND	ND	ND	ND	--	--	
3/03/95	3.12	4.27	0.00	-1.15	-0.43	--	--	--	--	--	--	--	--	
5/02/95	3.12	4.11	0.00	-0.99	0.16	360	--	ND	ND	ND	ND	--	--	
8/01/95	3.12	5.10	0.00	-1.98	-0.99	ND	--	ND	ND	ND	ND	--	--	
11/01/95	3.12	6.65	0.00	-3.53	-1.55	ND	--	ND	ND	ND	ND	200	--	
2/01/96	3.12	4.29	0.00	-1.17	2.36	ND	--	ND	ND	ND	ND	190	--	
2/04/97	3.12	6.43	0.00	-3.31	-2.14	ND	--	ND	ND	ND	ND	ND	--	
2/05/98	3.12	4.68	0.00	-1.56	1.75	ND	--	ND	ND	ND	ND	490	--	
2/04/99	3.12	4.62	0.00	-1.50	--	ND	--	ND	ND	ND	ND	480	530	
2/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-3 continued														
2/02/00	3.12	5.16	0.00	-2.04	--	ND	--	ND	ND	ND	ND	250	346	
3/05/01	3.12	5.07	0.00	-1.95	0.09	ND	--	ND	ND	ND	ND	167	--	
8/10/01	3.12	5.82	0.00	-2.70	-0.75	--	--	--	--	--	--	--	--	
2/22/02	3.12	4.58	0.00	-1.46	1.24	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	240	280	
3/10/03	3.12	4.73	0.00	-1.61	-0.15	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	100	
2/05/04	3.12	4.20	0.00	-1.08	0.53	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	11	
MW-4														
8/28/90	--	--	--	--	--	62000	--	810	72	4400	4600	--	--	
11/26/90	--	--	--	--	--	49000	--	360	36	3800	11000	--	--	
2/21/91	--	--	--	--	--	33000	--	210	21	3800	12000	--	--	
8/05/91	--	--	--	--	--	37000	--	310	70	3600	9700	--	--	
11/05/91	--	--	--	--	--	140000	--	320	ND	4800	13000	--	--	
2/07/92	--	--	--	--	--	8100	--	24	4.9	1800	3200	--	--	
5/05/92	--	--	--	--	--	15000	--	82	12	2000	5600	--	--	
8/03/92	--	--	--	--	--	24000	--	61	ND	2100	5400	--	--	
11/03/92	--	--	--	--	--	36000	--	69	ND	3000	7400	--	--	
2/03/93	--	--	--	--	--	370	--	2.6	ND	1.2	53	--	--	
3/01/93	5.27	7.63	0.00	-2.36	--	--	--	--	--	--	--	--	--	
4/01/93	5.27	7.25	0.00	-1.98	0.38	--	--	--	--	--	--	--	--	
5/17/93	5.27	8.46	0.00	-3.19	--	2500	--	ND	ND	170	410	--	--	
6/15/93	5.27	9.00	0.00	-3.73	-0.54	--	--	--	--	--	--	--	--	
7/14/93	5.27	9.74	0.00	-4.47	-0.74	--	--	--	--	--	--	--	--	
8/13/93	5.27	10.23	0.00	-4.96	-0.49	19000	--	ND	ND	1600	4100	--	--	
9/13/93	5.27	10.62	0.00	-5.35	-0.39	--	--	--	--	--	--	--	--	
10/14/93	5.27	10.84	0.00	-5.57	-0.22	--	--	--	--	--	--	--	--	
11/11/93	4.93	10.88	0.00	-5.95	-0.38	16000	--	110	12	1800	3800	--	--	
12/14/93	4.93	9.60	0.00	-4.67	1.28	--	--	--	--	--	--	--	--	
1/10/94	4.93	9.92	0.00	-4.99	-0.32	--	--	--	--	--	--	--	--	
2/10/94	4.93	8.79	0.00	-3.86	1.13	830	--	3.5	1.4	36	80	--	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-4 continued														
3/14/94	4.93	7.91	0.00	-2.98	0.88	--	--	--	--	--	--	--	--	
4/23/94	4.93	8.41	0.00	-3.48	-0.50	--	--	--	--	--	--	--	--	
5/05/94	4.93	8.27	0.00	-3.34	0.14	6900	--	17	ND	480	1300	--	--	
6/07/94	4.93	8.27	0.00	-3.34	0.00	--	--	--	--	--	--	--	--	
7/05/94	4.93	8.58	0.00	-3.65	--	--	--	--	--	--	--	--	--	
8/02/94	4.93	8.91	0.00	-3.98	-0.33	17000	--	38	ND	1800	4300	--	--	
11/07/94	4.93	8.64	0.00	-3.71	0.27	20000	--	84	17	1500	3000	--	--	
12/03/94	4.93	6.78	0.00	-1.85	1.86	--	--	--	--	--	--	--	--	
1/10/95	4.93	6.35	0.00	-1.42	0.43	--	--	--	--	--	--	--	--	
2/01/95	4.93	5.73	0.00	-0.80	0.62	ND	--	ND	ND	ND	ND	--	--	
3/03/95	4.93	6.82	0.00	-1.89	-1.09	--	--	--	--	--	--	--	--	
5/02/95	4.93	5.74	0.00	-0.81	1.08	5400	--	36	ND	130	710	--	--	
8/01/95	4.93	7.78	0.00	-2.85	-2.04	7900	--	21	ND	210	860	--	--	
11/01/95	4.93	9.16	0.00	-4.23	-1.38	4900	--	12	ND	190	710	210	--	
2/01/96	4.93	4.64	0.00	0.29	4.52	91	--	2.7	ND	1.2	6.8	7.8	--	
2/04/97	4.93	8.65	0.00	-3.72	-4.01	130	--	0.58	ND	ND	ND	150	--	
2/05/98	4.93	--	0.00	--	--	--	--	--	--	--	--	--	--	Paved Over
2/04/99	4.93	4.04	0.00	0.89	--	ND	--	ND	ND	ND	ND	ND	--	
2/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/02/00	4.93	4.07	0.00	0.86	--	ND	--	ND	ND	ND	ND	ND	--	
3/05/01	4.93	4.14	0.00	0.79	-0.07	ND	--	ND	ND	ND	ND	2.55	--	
8/10/01	4.93	4.77	0.00	0.16	-0.63	--	--	--	--	--	--	--	--	
2/22/02	5.01	3.87	0.00	1.14	0.98	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
3/10/03	5.01	4.12	0.00	0.89	-0.25	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
2/05/04	5.01	5.30	0.00	-0.29	-1.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
MW-5														
8/28/90	--	--	--	--	--	ND	--	ND	ND	ND	1.2	--	--	
11/26/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
2/21/91	--	--	--	--	--	56	--	ND	ND	ND	4.7	--	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-5 continued														
8/05/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/05/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
2/07/92	--	--	--	--	--	ND	--	ND	ND	0.36	0.94	--	--	
5/05/92	--	--	--	--	--	ND	--	ND	ND	0.42	1.4	--	--	
8/03/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/03/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
2/03/93	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
3/01/93	4.61	6.68	0.00	-2.07	--	--	--	--	--	--	--	--	--	
4/01/93	4.61	6.51	0.00	-1.90	0.17	--	--	--	--	--	--	--	--	
5/17/93	4.61	7.75	0.00	-3.14	--	ND	--	ND	ND	ND	ND	--	--	
6/15/93	4.61	8.18	0.00	-3.57	-0.43	--	--	--	--	--	--	--	--	
7/14/93	4.61	8.98	0.00	-4.37	-0.80	--	--	--	--	--	--	--	--	
8/13/93	4.61	9.49	0.00	-4.88	-0.51	ND	--	ND	ND	ND	ND	--	--	
9/13/93	4.61	9.88	0.00	-5.27	-0.39	--	--	--	--	--	--	--	--	
10/14/93	4.61	10.04	0.00	-5.43	-0.16	--	--	--	--	--	--	--	--	
11/11/93	4.27	10.13	0.00	-5.86	-0.43	ND	--	ND	ND	ND	ND	--	--	
12/14/93	4.27	8.85	0.00	-4.58	1.28	--	--	--	--	--	--	--	--	
1/10/94	4.27	9.10	0.00	-4.83	-0.25	--	--	--	--	--	--	--	--	
2/10/94	4.27	7.71	0.00	-3.44	1.39	ND	--	ND	ND	ND	0.59	--	--	
3/14/94	4.27	7.02	0.00	-2.75	0.69	--	--	--	--	--	--	--	--	
4/23/94	4.27	7.57	0.00	-3.30	-0.55	--	--	--	--	--	--	--	--	
5/05/94	4.27	7.38	0.00	-3.11	0.19	--	--	--	--	--	--	--	--	Sampled semi-annually
6/07/94	4.27	7.39	0.00	-3.12	-0.01	--	--	--	--	--	--	--	--	
7/05/94	4.27	7.72	0.00	-3.45	--	--	--	--	--	--	--	--	--	
8/02/94	4.27	8.05	0.00	-3.78	-0.33	ND	--	ND	ND	ND	ND	--	--	
11/07/94	4.27	7.56	0.00	-3.29	0.49	--	--	--	--	--	--	--	--	
12/03/94	4.27	5.80	0.00	-1.53	1.76	--	--	--	--	--	--	--	--	
1/10/95	4.27	5.37	0.00	-1.10	0.43	--	--	--	--	--	--	--	--	
2/01/95	4.27	5.24	0.00	-0.97	0.13	ND	--	ND	ND	ND	ND	--	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-5 continued														
3/03/95	4.27	5.99	0.00	-1.72	-0.75	--	--	--	--	--	--	--	--	
5/02/95	4.27	5.85	0.00	-1.58	0.14	--	--	--	--	--	--	--	--	
8/01/95	4.27	7.00	0.00	-2.73	-1.15	ND	--	ND	ND	ND	ND	--	--	
11/01/95	4.27	8.40	0.00	-4.13	-1.40	--	--	--	--	--	--	--	--	
2/01/96	4.27	5.45	0.00	-1.18	2.95	ND	--	ND	ND	ND	ND	0.72	--	
2/04/97	4.27	7.82	0.00	-3.55	-2.37	ND	--	ND	ND	ND	ND	ND	--	
2/05/98	4.27	3.85	0.00	0.42	3.97	ND	--	ND	ND	ND	ND	490	--	
2/04/99	4.27	5.85	0.00	-1.58	--	ND	--	ND	ND	ND	ND	23	26	
2/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/02/00	4.27	5.94	0.00	-1.67	--	ND	--	ND	ND	ND	ND	ND	--	
3/05/01	4.27	5.85	0.00	-1.58	0.09	ND	--	ND	ND	ND	ND	ND	--	
8/10/01	4.27	6.53	0.00	-2.26	-0.68	--	--	--	--	--	--	--	--	
2/22/02	4.31	5.54	0.00	-1.23	1.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.6	11	
3/10/03	4.31	6.93	0.00	-2.62	-1.39	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6.6	
2/05/04	4.31	6.72	0.00	-2.41	0.21	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.7	
MW-6														
8/28/90	--	--	--	--	--	12000	--	1700	1400	230	2100	--	--	
11/26/90	--	--	--	--	--	4000	--	800	120	250	440	--	--	
2/21/91	--	--	--	--	--	750	--	77	14	23	140	--	--	
8/05/91	--	--	--	--	--	860	--	130	11	92	150	--	--	
11/05/91	--	--	--	--	--	7100	--	200	ND	190	580	--	--	
2/07/92	--	--	--	--	--	180	--	22	0.68	22	20	--	--	
5/05/92	--	--	--	--	--	ND	--	ND	ND	ND	1.3	--	--	
8/03/92	--	--	--	--	--	1100	--	180	1.1	62	78	--	--	
11/03/92	--	--	--	--	--	920	--	45	0.76	12	110	--	--	
2/03/93	--	--	--	--	--	ND	--	1.2	ND	ND	ND	--	--	
3/01/93	4.31	6.20	0.00	-1.89	--	--	--	--	--	--	--	--	--	
4/01/93	4.31	6.04	0.00	-1.73	0.16	--	--	--	--	--	--	--	--	
5/17/93	4.31	7.50	0.00	-3.19	--	4900	--	890	46	210	530	--	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-6 continued														
6/15/93	4.31	7.76	0.00	-3.45	-0.26	--	--	--	--	--	--	--	--	
7/14/93	4.31	8.69	0.00	-4.38	-0.93	--	--	--	--	--	--	--	--	
8/13/93	4.31	9.20	0.00	-4.89	-0.51	2300	--	330	ND	95	40	--	--	
9/13/93	4.31	9.59	0.00	-5.28	-0.39	--	--	--	--	--	--	--	--	
10/14/93	4.31	9.75	0.00	-5.44	-0.16	--	--	--	--	--	--	--	--	
11/11/93	4.03	9.87	0.00	-5.84	-0.40	3000	--	470	ND	220	270	--	--	
12/14/93	4.03	8.60	0.00	-4.57	1.27	--	--	--	--	--	--	--	--	
1/10/94	4.03	8.81	0.00	-4.78	-0.21	--	--	--	--	--	--	--	--	
2/10/94	4.03	7.23	0.00	-3.20	1.58	ND	--	3.5	ND	1.5	ND	--	--	
3/14/94	4.03	6.68	0.00	-2.65	0.55	--	--	--	--	--	--	--	--	
4/23/94	4.03	7.24	0.00	-3.21	-0.56	--	--	--	--	--	--	--	--	
5/05/94	4.03	7.01	0.00	-2.98	0.23	2600	--	430	99	24	420	--	--	
6/07/94	4.03	7.02	0.00	-2.99	-0.01	--	--	--	--	--	--	--	--	
7/05/94	4.03	7.41	0.00	-3.38	--	--	--	--	--	--	--	--	--	
8/02/94	4.03	7.66	0.00	-3.63	-0.25	28000	--	2200	940	1600	7500	--	--	
11/07/94	4.03	6.78	0.00	-2.75	0.88	23000	--	3800	970	1400	4700	--	--	
12/03/94	4.03	5.44	0.00	-1.41	1.34	--	--	--	--	--	--	--	--	
1/10/95	4.03	5.00	0.00	-0.97	0.44	--	--	--	--	--	--	--	--	
2/01/95	4.03	4.98	0.00	-0.95	0.02	55000	--	7700	9100	4500	20000	--	--	
3/03/95	4.03	5.71	0.00	-1.68	-0.73	--	--	--	--	--	--	--	--	
5/02/95	4.03	5.58	0.00	-1.55	0.13	59000	--	4700	4400	4000	18000	--	--	
8/01/95	4.03	6.76	0.00	-2.73	-1.18	23000	--	1400	510	940	7300	--	--	
11/01/95	4.03	8.10	0.00	-4.07	-1.34	24000	--	1100	200	1900	6000	170	--	
2/01/96	4.03	5.09	0.00	-1.06	3.01	58000	--	2700	1800	4200	17000	ND	--	
2/04/97	4.03	7.61	0.00	-3.58	-2.52	95	--	ND	1	ND	ND	96	--	
2/05/98	4.03	4.55	0.00	-0.52	3.06	44000	--	2100	1600	5200	20000	2800	--	
8/28/98	4.03	6.95	0.00	-2.92	-2.40	--	--	--	--	--	--	--	--	
2/04/99	4.03	5.59	0.00	-1.56	1.36	37000	--	480	250	2900	10000	ND	--	
2/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-6 continued														
2/02/00	4.03	6.24	0.00	-2.21	--	24300	--	313	42	1880	5490	604	357	
3/05/01	4.03	6.29	0.00	-2.26	-0.05	29300	--	272	66.8	2180	7380	1120	--	
8/10/01	4.03	7.11	0.00	-3.08	-0.82	--	--	--	--	--	--	--	--	
2/22/02	4.05	5.37	0.00	-1.32	1.76	22000	--	180	ND<50	1300	3100	760	790	
3/10/03	4.05	5.95	0.00	-1.90	-0.58	--	1200	13	ND<1.0	53	45	--	150	
2/05/04	4.05	5.45	0.00	-1.40	0.50	--	8400	100	12	770	980	--	270	
MW-7														
5/11/93	4.84	4.52	0.00	0.32	--	--	--	--	--	--	--	--	--	
5/17/93	4.84	7.00	0.00	-2.16	-2.48	ND	--	ND	ND	ND	ND	--	--	
6/15/93	4.84	7.47	0.00	-2.63	-0.47	--	--	--	--	--	--	--	--	
7/14/93	4.84	8.55	0.00	-3.71	-1.08	--	--	--	--	--	--	--	--	
8/13/93	4.84	9.23	0.00	-4.39	-0.68	ND	--	ND	ND	ND	ND	--	--	
9/13/93	4.84	10.08	0.00	-5.24	-0.85	--	--	--	--	--	--	--	--	
10/14/93	4.84	10.25	0.00	-5.41	-0.17	--	--	--	--	--	--	--	--	
11/11/93	4.42	10.27	0.00	-5.85	-0.44	ND	--	ND	ND	ND	ND	--	--	
12/14/93	4.42	8.52	0.00	-4.10	1.75	--	--	--	--	--	--	--	--	
1/10/94	4.42	9.30	0.00	-4.88	-0.78	--	--	--	--	--	--	--	--	
2/10/94	4.42	7.93	0.00	-3.51	1.37	ND	--	ND	ND	ND	ND	--	--	
3/14/94	4.42	6.78	0.00	-2.36	1.15	--	--	--	--	--	--	--	--	
4/23/94	4.42	--	0.00	--	--	--	--	--	--	--	--	--	--	Inaccessible
5/05/94	4.42	7.13	0.00	-2.71	--	--	--	--	--	--	--	--	--	Sampled semi-annually
6/07/94	4.42	7.09	0.00	-2.67	0.04	--	--	--	--	--	--	--	--	
7/05/94	4.42	7.49	0.00	-3.07	--	--	--	--	--	--	--	--	--	
8/02/94	4.42	7.98	0.00	-3.56	-0.49	ND	--	ND	ND	ND	0.63	--	--	
11/07/94	4.42	7.86	0.00	-3.44	0.12	--	--	--	--	--	--	--	--	
12/03/94	4.42	5.95	0.00	-1.53	1.91	--	--	--	--	--	--	--	--	
1/10/95	4.42	5.50	0.00	-1.08	0.45	--	--	--	--	--	--	--	--	
2/01/95	4.42	5.43	0.00	-1.01	0.07	ND	--	ND	ND	ND	ND	--	--	
3/03/95	4.42	5.97	0.00	-1.55	-0.54	--	--	--	--	--	--	--	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-7 continued														
5/02/95	4.42	5.73	0.00	-1.31	0.24	--	--	--	--	--	--	--	--	
8/01/95	4.42	7.62	0.00	-3.20	-1.89	ND	--	ND	ND	ND	ND	--	--	
11/01/95	4.42	8.58	0.00	-4.16	-0.96	--	--	--	--	--	--	--	--	
2/01/96	4.42	5.77	0.00	-1.35	2.81	ND	--	ND	ND	ND	ND	1.4	--	
2/04/97	4.42	7.64	0.00	-3.22	-1.87	ND	--	ND	ND	ND	ND	ND	--	
2/05/98	4.42	--	0.00	--	--	--	--	--	--	--	--	--	--	Paved Over
2/04/99	4.42	5.54	0.00	-1.12	--	ND	--	ND	ND	ND	ND	ND	--	
2/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/02/00	4.42	5.75	0.00	-1.33	--	ND	--	ND	ND	ND	ND	ND	--	
3/05/01	4.42	5.66	0.00	-1.24	0.09	ND	--	ND	ND	ND	ND	ND	--	
8/10/01	4.42	6.28	0.00	-1.86	-0.62	--	--	--	--	--	--	--	--	
2/22/02	4.45	4.98	0.00	-0.53	1.33	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
3/10/03	4.45	5.39	0.00	-0.94	-0.41	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
2/05/04	4.45	5.10	0.00	-0.65	0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
MW-8														
11/03/92	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
2/03/93	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
3/01/93	5.12	6.64	0.00	-1.52	--	--	--	--	--	--	--	--	--	
4/01/93	5.12	6.55	0.00	-1.43	0.09	--	--	--	--	--	--	--	--	
5/17/93	5.12	8.25	0.00	-3.13	--	ND	--	ND	ND	ND	ND	--	--	
6/15/93	5.12	8.67	0.00	-3.55	-0.42	--	--	--	--	--	--	--	--	
7/14/93	5.12	9.47	0.00	-4.35	-0.80	--	--	--	--	--	--	--	--	
8/13/93	5.12	10.00	0.00	-4.88	-0.53	ND	--	ND	ND	ND	ND	--	--	
9/13/93	5.12	10.40	0.00	-5.28	-0.40	--	--	--	--	--	--	--	--	
10/14/93	5.12	10.23	0.00	-5.11	0.17	--	--	--	--	--	--	--	--	
11/11/93	4.43	10.22	0.00	-5.79	-0.68	ND	--	ND	ND	ND	ND	--	--	
12/14/93	4.43	9.00	0.00	-4.57	1.22	--	--	--	--	--	--	--	--	
1/10/94	4.43	9.17	0.00	-4.74	-0.17	--	--	--	--	--	--	--	--	
2/10/94	4.43	7.23	0.00	-2.80	1.94	ND	--	ND	ND	ND	ND	--	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-8 continued														
3/14/94	4.43	6.94	0.00	-2.51	0.29	--	--	--	--	--	--	--	--	
4/23/94	4.43	7.63	0.00	-3.20	-0.69	--	--	--	--	--	--	--	--	
5/05/94	4.43	7.39	0.00	-2.96	0.24	--	--	--	--	--	--	--	--	Sampled semi-annually
6/07/94	4.43	7.44	0.00	-3.01	-0.05	--	--	--	--	--	--	--	--	
7/05/94	4.43	7.86	0.00	-3.43	--	--	--	--	--	--	--	--	--	
8/02/94	4.43	8.23	0.00	-3.80	-0.37	ND	--	ND	ND	ND	ND	--	--	
11/07/94	4.43	6.56	0.00	-2.13	1.67	--	--	--	--	--	--	--	--	
12/03/94	4.43	5.60	0.00	-1.17	0.96	--	--	--	--	--	--	--	--	
1/10/95	4.43	4.90	0.00	-0.47	0.70	--	--	--	--	--	--	--	--	
2/01/95	4.43	5.02	0.00	-0.59	-0.12	ND	--	ND	ND	ND	ND	--	--	
3/03/95	4.43	5.81	0.00	-1.38	-0.79	--	--	--	--	--	--	--	--	
5/02/95	4.43	5.73	0.00	-1.30	0.08	--	--	--	--	--	--	--	--	
8/01/95	4.43	7.11	0.00	-2.68	-1.38	ND	--	ND	ND	ND	ND	--	--	
11/01/95	4.43	8.98	0.00	-4.55	-1.87	--	--	--	--	--	--	--	--	
2/01/96	4.43	5.52	0.00	-1.09	3.46	ND	--	ND	ND	ND	ND	1.3	--	
2/04/97	4.43	8.07	0.00	-3.64	-2.55	ND	--	ND	ND	ND	ND	ND	--	
2/05/98	4.43	4.97	0.00	-0.54	3.10	ND	--	ND	ND	ND	ND	ND	--	
2/04/99	4.43	6.12	0.00	-1.69	--	ND	--	ND	ND	ND	ND	ND	--	
2/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/02/00	4.43	6.11	0.00	-1.68	--	ND	--	ND	ND	ND	ND	ND	--	
3/05/01	4.43	6.05	0.00	-1.62	0.06	ND	--	ND	ND	ND	ND	ND	--	
2/22/02	4.43	5.90	0.00	-1.47	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
3/10/03	4.43	6.56	0.00	-2.13	-0.66	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
2/05/04	4.43	6.25	0.00	-1.82	0.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
MW-9														
11/03/92	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
2/03/93	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
3/01/93	4.84	6.22	0.00	-1.38	--	--	--	--	--	--	--	--	--	
4/01/93	4.84	6.17	0.00	-1.33	0.05	--	--	--	--	--	--	--	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-9 continued														
5/17/93	4.84	7.95	0.00	-3.11	--	ND	--	ND	ND	ND	ND	--	--	
6/15/93	4.84	8.34	0.00	-3.50	-0.39	--	--	--	--	--	--	--	--	
7/14/93	4.84	9.13	0.00	-4.29	-0.79	--	--	--	--	--	--	--	--	
8/13/93	4.84	9.69	0.00	-4.85	-0.56	ND	--	ND	ND	ND	ND	--	--	
9/13/93	4.84	10.10	0.00	-5.26	-0.41	--	--	--	--	--	--	--	--	
10/14/93	4.84	10.23	0.00	-5.39	-0.13	--	--	--	--	--	--	--	--	
11/11/93	4.60	10.39	0.00	-5.79	-0.40	ND	--	ND	ND	ND	ND	--	--	
12/14/93	4.60	9.14	0.00	-4.54	1.25	--	--	--	--	--	--	--	--	
1/10/94	4.60	9.27	0.00	-4.67	-0.13	--	--	--	--	--	--	--	--	
2/10/94	4.60	7.20	0.00	-2.60	2.07	ND	--	ND	ND	ND	ND	--	--	
3/14/94	4.60	7.06	0.00	-2.46	0.14	--	--	--	--	--	--	--	--	
4/23/94	4.60	7.79	0.00	-3.19	-0.73	--	--	--	--	--	--	--	--	
5/05/94	4.60	7.52	0.00	-2.92	0.27	--	--	--	--	--	--	--	--	Sampled semi-annually
6/07/94	4.60	7.54	0.00	-2.94	-0.02	--	--	--	--	--	--	--	--	
7/05/94	4.60	7.98	0.00	-3.38	--	--	--	--	--	--	--	--	--	
8/02/94	4.60	8.34	0.00	-3.74	-0.36	ND	--	ND	ND	ND	ND	--	--	
11/07/94	4.60	6.44	0.00	-1.84	1.90	--	--	--	--	--	--	--	--	
12/03/94	4.60	5.68	0.00	-1.08	0.76	--	--	--	--	--	--	--	--	
1/10/95	4.60	4.98	0.00	-0.38	0.70	--	--	--	--	--	--	--	--	
2/01/95	4.60	5.18	0.00	-0.58	-0.20	ND	--	ND	ND	ND	ND	--	--	
3/03/95	4.60	5.90	0.00	-1.30	-0.72	--	--	--	--	--	--	--	--	
5/02/95	4.60	5.86	0.00	-1.26	0.04	--	--	--	--	--	--	--	--	
8/01/95	4.60	7.30	0.00	-2.70	-1.44	ND	--	ND	ND	ND	ND	--	--	
11/01/95	4.60	8.66	0.00	-4.06	-1.36	--	--	--	--	--	--	--	--	
2/01/96	4.60	5.14	0.00	-0.54	3.52	ND	--	ND	ND	ND	ND	ND	--	
2/04/97	4.60	8.12	0.00	-3.52	-2.98	ND	--	ND	ND	ND	ND	ND	--	
2/05/98	4.60	4.95	0.00	-0.35	3.17	ND	--	ND	ND	ND	ND	ND	--	
2/04/99	4.60	5.81	0.00	-1.21	--	ND	--	ND	ND	ND	ND	ND	--	
2/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-9 continued														
2/02/00	4.60	5.71	0.00	-1.11	--	ND	--	ND	ND	ND	ND	ND	--	
3/05/01	4.60	5.67	0.00	-1.07	0.04	ND	--	ND	ND	ND	ND	ND	--	
2/22/02	4.60	5.61	0.00	-1.01	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
3/10/03	4.60	6.16	0.00	-1.56	-0.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
2/05/04	4.60	5.58	0.00	-0.98	0.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
MW-10														
11/03/92	--	--	0.00	--	--	740	--	11	2.1	32	56	--	--	
2/03/93	--	--	0.00	--	--	1200	--	ND	ND	ND	ND	--	--	
3/01/93	3.34	5.82	0.00	-2.48	--	--	--	--	--	--	--	--	--	
4/01/93	3.34	5.69	0.00	-2.35	0.13	--	--	--	--	--	--	--	--	
5/17/93	3.34	7.04	0.00	-3.70	--	1200	--	ND	ND	ND	ND	--	--	
6/15/93	3.34	7.22	0.00	-3.88	-0.18	--	--	--	--	--	--	--	--	
7/14/93	3.34	8.01	0.00	-4.67	-0.79	--	--	--	--	--	--	--	--	
8/13/93	3.34	8.42	0.00	-5.08	-0.41	1500	--	ND	ND	41	21	--	--	
9/13/93	3.34	8.74	0.00	-5.40	-0.32	--	--	--	--	--	--	--	--	
10/14/93	3.34	8.57	0.00	-5.23	0.17	--	--	--	--	--	--	--	--	
11/11/93	2.69	8.59	0.00	-5.90	-0.67	1600	--	ND	ND	ND	ND	--	--	
12/14/93	2.69	7.50	0.00	-4.81	1.09	--	--	--	--	--	--	--	--	
1/10/94	2.69	7.69	0.00	-5.00	-0.19	--	--	--	--	--	--	--	--	
2/10/94	2.69	8.21	0.00	-5.52	-0.52	1480	--	ND	ND	ND	ND	--	--	
3/14/94	2.69	5.56	0.00	-2.87	2.65	--	--	--	--	--	--	--	--	
4/23/94	2.69	6.22	0.00	-3.53	-0.66	--	--	--	--	--	--	--	--	
5/05/94	2.69	6.03	0.00	-3.34	0.19	1000	--	ND	ND	ND	ND	--	--	
6/07/94	2.69	6.10	0.00	-3.41	-0.07	--	--	--	--	--	--	--	--	
7/05/94	2.69	6.38	0.00	-3.69	--	--	--	--	--	--	--	--	--	
8/02/94	2.69	6.67	0.00	-3.98	-0.29	95	--	ND	ND	ND	ND	--	--	
11/07/94	2.69	6.08	0.00	-3.39	0.59	1100	--	ND	ND	ND	ND	--	--	
12/03/94	2.69	4.68	0.00	-1.99	1.40	--	--	--	--	--	--	--	--	
1/10/95	2.69	4.21	0.00	-1.52	0.47	--	--	--	--	--	--	--	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-10	continued													
2/01/95	2.69	4.26	0.00	-1.57	-0.05	560	--	ND	ND	ND	ND	--	--	
3/03/95	2.69	4.94	0.00	-2.25	-0.68	--	--	--	--	--	--	--	--	
5/02/95	2.69	4.80	0.00	-2.11	0.14	840	--	ND	ND	ND	9.5	--	--	
8/01/95	2.69	5.79	0.00	-3.10	-0.99	ND	--	ND	ND	ND	ND	--	--	
11/01/95	2.69	6.95	0.00	-4.26	-1.16	ND	--	ND	ND	ND	ND	830	--	
2/01/96	2.69	4.31	0.00	-1.62	2.64	ND	--	ND	ND	ND	ND	1300	--	
2/04/97	2.69	6.59	0.00	-3.90	-2.28	ND	--	ND	ND	ND	ND	ND	--	
2/05/98	2.69	3.76	0.00	-1.07	2.83	ND	--	ND	ND	ND	ND	500	--	
2/04/99	2.69	4.68	0.00	-1.99	--	ND	--	ND	ND	ND	ND	620	850	
2/12/99	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/02/00	2.69	4.85	0.00	-2.16	--	ND	--	ND	ND	ND	ND	737	696	
3/05/01	2.69	4.81	0.00	-2.12	0.04	ND	--	ND	ND	ND	ND	121	--	
2/22/02	2.69	4.53	0.00	-1.84	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	870	780	
3/10/03	2.69	4.98	0.00	-2.29	-0.45	--	370	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	320	
2/05/04	2.69	5.32	0.00	-2.63	-0.34	--	320	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	300	
MW-11														
8/10/01	2.63	5.70	0.00	-3.07	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
2/22/02	2.63	5.43	0.00	-2.80	0.27	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
3/10/03	2.63	5.41	0.00	-2.78	0.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
2/05/04	2.63	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible, locked gate

Table 3
SUMMARY OF ADDITIONAL CHEMICAL ANALYSIS RESULTS
76 Station 3135

Date Sampled	TPH-D	EDB	Pre-Purge DO	NO3	Sulfate	EDC	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Fe+2	ORP	Ethanol 8260B
	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mV)	(µg/l)
MW-1													
2/21/91	690	--	--	--	--	--	--	--	--	--	--	--	--
8/05/91	200	--	--	--	--	--	--	--	--	--	--	--	--
11/05/91	260	--	--	--	--	--	--	--	--	--	--	--	--
2/07/92	ND	--	--	--	--	--	--	--	--	--	--	--	--
5/05/92	120	--	--	--	--	--	--	--	--	--	--	--	--
8/03/92	220	--	--	--	--	--	--	--	--	--	--	--	--
11/03/92	400	--	--	--	--	--	--	--	--	--	--	--	--
2/03/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
5/17/93	490	--	--	--	--	--	--	--	--	--	--	--	--
8/13/93	170	--	--	--	--	--	--	--	--	--	--	--	--
11/11/93	160	--	--	--	--	--	--	--	--	--	--	--	--
2/10/94	ND	--	--	--	--	--	--	--	--	--	--	--	--
5/05/94	ND	--	--	--	--	--	--	--	--	--	--	--	--
8/02/94	130	--	--	--	--	--	--	--	--	--	--	--	--
11/07/94	270	--	--	--	--	--	--	--	--	--	--	--	--
2/01/95	ND	--	--	--	--	--	--	--	--	--	--	--	--
5/02/95	120	--	--	--	--	--	--	--	--	--	--	--	--
8/01/95	86	--	--	--	--	--	--	--	--	--	--	--	--
11/01/95	190	--	--	--	--	--	--	--	--	--	--	--	--
2/01/96	90	--	--	--	--	--	--	--	--	--	--	--	--
2/04/99	--	--	3.56	7	4.4	--	--	--	--	--	--	-54	--
2/12/99	--	--	--	--	--	--	--	--	--	--	3.3	470	--
2/02/00	--	--	3.83	ND	13.7	--	--	--	--	--	0.0456	484	--
3/05/01	--	ND	3.97	3.41	7.12	ND	ND	ND	ND	ND	0.0161	492	ND
2/22/02	--	ND<6.7	4.38	ND<0.50	3.4	ND<6.7	ND<6.7	ND<330	ND<6.7	ND<6.7	ND<0.10	210	ND<1700
3/10/03	--	ND<20	1.2	ND<1.0	8.3	ND<20	ND<20	ND<1000	ND<20	ND<20	4.2	180	ND<5,000

Date Sampled	TPH-D	EDB	Pre-Purge DO	NO3	Sulfate	EDC	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Fe+2	ORP	Ethanol 8260B
	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mV)	(µg/l)
MW-1 continued													
2/05/04	--	--	--	ND<1.0	3.4	--	--	--	--	--	3.0	--	ND<500
MW-2													
8/28/90	3100	--	--	--	--	--	--	--	--	--	--	--	--
11/26/90	3800	--	--	--	--	--	--	--	--	--	--	--	--
2/21/91	7000	--	--	--	--	--	--	--	--	--	--	--	--
8/05/91	4200	--	--	--	--	--	--	--	--	--	--	--	--
11/05/91	3900	--	--	--	--	--	--	--	--	--	--	--	--
2/07/92	2300	--	--	--	--	--	--	--	--	--	--	--	--
5/05/92	4600	--	--	--	--	--	--	--	--	--	--	--	--
8/03/92	3300	--	--	--	--	--	--	--	--	--	--	--	--
11/03/92	9600	--	--	--	--	--	--	--	--	--	--	--	--
2/03/93	3900	--	--	--	--	--	--	--	--	--	--	--	--
5/17/93	5500	--	--	--	--	--	--	--	--	--	--	--	--
8/13/93	2800	--	--	--	--	--	--	--	--	--	--	--	--
11/11/93	7000	--	--	--	--	--	--	--	--	--	--	--	--
2/10/94	2000	--	--	--	--	--	--	--	--	--	--	--	--
5/05/94	3100	--	--	--	--	--	--	--	--	--	--	--	--
8/02/94	8500	--	--	--	--	--	--	--	--	--	--	--	--
11/07/94	3100	--	--	--	--	--	--	--	--	--	--	--	--
2/01/95	1800	--	--	--	--	--	--	--	--	--	--	--	--
5/02/95	2300	--	--	--	--	--	--	--	--	--	--	--	--
8/01/95	2900	--	--	--	--	--	--	--	--	--	--	--	--
11/01/95	4100	--	--	--	--	--	--	--	--	--	--	--	--
2/01/96	5500	--	--	--	--	--	--	--	--	--	--	--	--
8/28/98	--	--	0.7	--	--	--	--	--	--	--	--	--	--
2/04/99	--	--	3.64	ND	12	--	--	--	--	--	--	-104	--
2/12/99	--	--	--	--	--	--	--	--	--	--	4.3	380	--
2/02/00	--	--	3.28	ND	15.2	--	--	--	--	--	1.7	55.3	--
3/05/01	--	--	2.9	2.91	53.7	--	--	--	--	--	0.0812	480	--

Date Sampled	TPH-D	EDB	Pre-Purge DO	NO3	Sulfate	EDC	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Fe+2	ORP	Ethanol 8260B
	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mV)	(µg/l)
MW-2 continued													
2/22/02	--	ND<2.0	2.66	ND<0.50	38	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<0.10	270	ND<500
3/10/03	--	ND<2.0	1.2	ND<1.0	34	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	11	110	ND<500
2/05/04	--	--	--	ND<1.0	26	--	--	--	--	--	7.6	--	ND<500
MW-3													
8/05/91	63	--	--	--	--	--	--	--	--	--	--	--	--
11/05/91	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/07/92	ND	--	--	--	--	--	--	--	--	--	--	--	--
5/05/92	56	--	--	--	--	--	--	--	--	--	--	--	--
8/03/92	58	--	--	--	--	--	--	--	--	--	--	--	--
11/03/92	52	--	--	--	--	--	--	--	--	--	--	--	--
2/03/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
5/17/93	53	--	--	--	--	--	--	--	--	--	--	--	--
8/13/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
11/11/93	51	--	--	--	--	--	--	--	--	--	--	--	--
2/10/94	50	--	--	--	--	--	--	--	--	--	--	--	--
5/05/94	66	--	--	--	--	--	--	--	--	--	--	--	--
8/02/94	76	--	--	--	--	--	--	--	--	--	--	--	--
11/07/94	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/01/95	ND	--	--	--	--	--	--	--	--	--	--	--	--
5/02/95	56	--	--	--	--	--	--	--	--	--	--	--	--
8/01/95	ND	--	--	--	--	--	--	--	--	--	--	--	--
11/01/95	200	--	--	--	--	--	--	--	--	--	--	--	--
2/01/96	160	--	--	--	--	--	--	--	--	--	--	--	--
2/04/99	--	--	5.34	ND	47	--	--	--	--	--	--	-064	--
2/12/99	--	--	--	--	--	--	--	--	--	--	1.4	460	--
2/02/00	--	--	6.06	ND	26	--	--	--	--	--	0.123	45	--
3/05/01	--	--	4.93	3.52	70.1	--	--	--	--	--	0.0279	476	--
2/22/02	--	ND<5.0	4.16	ND<0.50	49	ND<5.0	ND<5.0	ND<250	ND<5.0	ND<5.0	ND<0.10	250	ND<1,200
3/10/03	--	ND<2.0	1.2	ND<1.0	76	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	10	200	ND<500

Date Sampled	TPH-D	EDB	Pre-Purge DO	NO3	Sulfate	EDC	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Fe+2	ORP	Ethanol 8260B
	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mV)	(µg/l)
MW-3 continued													
2/05/04	--	--	--	ND<1.0	68	--	--	--	--	--	7.3	--	ND<500
MW-4													
2/21/91	4100	--	--	--	--	--	--	--	--	--	--	--	--
8/05/91	6200	--	--	--	--	--	--	--	--	--	--	--	--
11/05/91	7700	--	--	--	--	--	--	--	--	--	--	--	--
2/07/92	2300	--	--	--	--	--	--	--	--	--	--	--	--
5/05/92	3200	--	--	--	--	--	--	--	--	--	--	--	--
8/03/92	2400	--	--	--	--	--	--	--	--	--	--	--	--
11/03/92	8300	--	--	--	--	--	--	--	--	--	--	--	--
2/03/93	720	--	--	--	--	--	--	--	--	--	--	--	--
5/17/93	3100	--	--	--	--	--	--	--	--	--	--	--	--
8/13/93	2000	--	--	--	--	--	--	--	--	--	--	--	--
11/11/93	4000	--	--	--	--	--	--	--	--	--	--	--	--
2/10/94	170	--	--	--	--	--	--	--	--	--	--	--	--
5/05/94	2000	--	--	--	--	--	--	--	--	--	--	--	--
8/02/94	2500	--	--	--	--	--	--	--	--	--	--	--	--
11/07/94	2200	--	--	--	--	--	--	--	--	--	--	--	--
2/01/95	ND	--	--	--	--	--	--	--	--	--	--	--	--
5/02/95	2500	--	--	--	--	--	--	--	--	--	--	--	--
8/01/95	3400	--	--	--	--	--	--	--	--	--	--	--	--
11/01/95	3300	--	--	--	--	--	--	--	--	--	--	--	--
2/01/96	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/04/99	--	--	6.46	5.4	15	--	--	--	--	--	--	7	--
2/12/99	--	--	--	--	--	--	--	--	--	--	6	610	--
2/02/00	--	--	5.93	10.3	38.4	--	--	--	--	--	3	61	--
3/05/01	--	--	5.37	4.63	5.65	--	--	--	--	--	0.114	474	--
2/22/02	--	--	4.95	15	27	--	--	--	--	--	0.26	590	--
3/10/03	--	--	0.8	15	42	--	--	--	--	--	1.2	230	--
2/05/04	--	--	--	ND<1.0	25	--	--	--	--	--	ND<0.20	--	ND<500

Date Sampled	TPH-D	EDB	Pre-Purge DO	NO3	Sulfate	EDC	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Fe+2	ORP	Ethanol 8260B
	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mV)	(µg/l)
MW-5													
8/05/91	ND	--	--	--	--	--	--	--	--	--	--	--	--
11/05/91	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/07/92	ND	--	--	--	--	--	--	--	--	--	--	--	--
5/05/92	72	--	--	--	--	--	--	--	--	--	--	--	--
8/03/92	ND	--	--	--	--	--	--	--	--	--	--	--	--
11/03/92	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/03/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
5/17/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
8/13/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
11/11/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/10/94	ND	--	--	--	--	--	--	--	--	--	--	--	--
8/02/94	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/01/95	ND	--	--	--	--	--	--	--	--	--	--	--	--
8/01/95	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/01/96	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/04/99	--	--	--	10	79	--	--	--	--	--	--	102	--
2/12/99	--	--	--	--	--	--	--	--	--	--	0.16	480	--
2/02/00	--	--	--	12.1	98.4	--	--	--	--	--	0.0208	83.7	--
3/05/01	--	--	--	3.49	5.43	--	--	--	--	--	0.123	470	--
2/22/02	--	ND<2.0	--	ND<0.50	39	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<0.10	630	ND<500
3/10/03	--	ND<2.0	--	ND<1.0	47	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	2.4	230	ND<500
2/05/04	--	--	--	ND<1.0	33	--	--	--	--	--	6.9	--	ND<500
MW-6													
8/28/90	1000	--	--	--	--	--	--	--	--	--	--	--	--
11/26/90	320	--	--	--	--	--	--	--	--	--	--	--	--
2/21/91	160	--	--	--	--	--	--	--	--	--	--	--	--
8/05/91	130	--	--	--	--	--	--	--	--	--	--	--	--
11/05/91	300	--	--	--	--	--	--	--	--	--	--	--	--
2/07/92	ND	--	--	--	--	--	--	--	--	--	--	--	--

Date Sampled	TPH-D	EDB	Pre-Purge DO	NO3	Sulfate	EDC	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Fe+2	ORP	Ethanol 8260B
	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mV)	(µg/l)
MW-6 continued													
5/05/92	47	--	--	--	--	--	--	--	--	--	--	--	--
8/03/92	170	--	--	--	--	--	--	--	--	--	--	--	--
11/03/92	220	--	--	--	--	--	--	--	--	--	--	--	--
2/03/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
5/17/93	1400	--	--	--	--	--	--	--	--	--	--	--	--
8/13/93	440	--	--	--	--	--	--	--	--	--	--	--	--
11/11/93	650	--	--	--	--	--	--	--	--	--	--	--	--
2/10/94	ND	--	--	--	--	--	--	--	--	--	--	--	--
5/05/94	630	--	--	--	--	--	--	--	--	--	--	--	--
8/02/94	2400	--	--	--	--	--	--	--	--	--	--	--	--
11/07/94	770	--	--	--	--	--	--	--	--	--	--	--	--
2/01/95	2700	--	--	--	--	--	--	--	--	--	--	--	--
5/02/95	3600	--	--	--	--	--	--	--	--	--	--	--	--
8/01/95	2800	--	--	--	--	--	--	--	--	--	--	--	--
11/01/95	4300	--	--	--	--	--	--	--	--	--	--	--	--
2/01/96	3700	--	--	--	--	--	--	--	--	--	--	--	--
2/04/99	--	--	--	ND	4.8	--	--	--	--	--	--	-034	--
2/12/99	--	--	--	--	--	--	--	--	--	--	3.2	400	--
2/02/00	--	--	3.12	ND	8.91	--	--	--	--	--	0.217	71.5	--
3/05/01	--	--	2.84	2.95	ND	--	--	--	--	--	0.0791	467	--
2/22/02	--	ND<10	3.25	ND<0.50	ND<0.50	ND<10	ND<10	ND<500	ND<10	ND<10	ND<0.10	540	ND<2,500
3/10/03	--	ND<4.0	2.8	ND<1.0	38	ND<4.0	ND<4.0	ND<200	ND<4.0	ND<4.0	1.7	230	ND<1,000
2/05/04	--	--	--	ND<1.0	ND<1.0	--	--	--	--	--	1.1	--	ND<5000
MW-7													
5/17/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
8/13/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
11/11/93	66	--	--	--	--	--	--	--	--	--	--	--	--
2/10/94	ND	--	--	--	--	--	--	--	--	--	--	--	--
8/02/94	ND	--	--	--	--	--	--	--	--	--	--	--	--

Date Sampled	TPH-D	EDB	Pre-Purge DO	NO3	Sulfate	EDC	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Fe+2	ORP	Ethanol 8260B
	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mV)	(µg/l)
MW-7 continued													
2/01/95	ND	--	--	--	--	--	--	--	--	--	--	--	--
8/01/95	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/01/96	96	--	--	--	--	--	--	--	--	--	--	--	--
2/04/99	--	--	5.05	ND	4.6	--	--	--	--	--	--	-71	--
2/12/99	--	--	--	--	--	--	--	--	--	--	1.8	450	--
2/02/00	--	--	4.58	ND	6.43	--	--	--	--	--	0.812	84	--
3/05/01	--	--	4.81	3.2	ND	--	--	--	--	--	0.124	464	--
2/22/02	--	--	4.14	ND<0.50	2.4	--	--	--	--	--	ND<0.10	610	--
3/10/03	--	--	1.4	ND<1.0	14	--	--	--	--	--	5.3	230	--
2/05/04	--	--	--	ND<1.0	31	--	--	--	--	--	2.6	--	ND<500
MW-8													
11/03/92	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/03/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
5/17/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
8/13/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
11/11/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/10/94	ND	--	--	--	--	--	--	--	--	--	--	--	--
8/02/94	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/01/95	ND	--	--	--	--	--	--	--	--	--	--	--	--
8/01/95	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/01/96	110	--	--	--	--	--	--	--	--	--	--	--	--
2/04/99	--	--	4.95	ND	41	--	--	--	--	--	--	90	--
2/12/99	--	--	--	--	--	--	--	--	--	--	0.15	470	--
2/02/00	--	--	5.24	ND	47.5	--	--	--	--	--	ND	111	--
3/05/01	--	--	4.71	25	28.8	--	--	--	--	--	ND	455	--
2/22/02	--	--	5.1	0.56	37	--	--	--	--	--	ND<0.10	630	--
3/10/03	--	--	1.4	ND<1.0	50	--	--	--	--	--	ND<0.20	280	--
2/05/04	--	--	--	ND<1.0	46	--	--	--	--	--	ND<0.20	--	ND<500
MW-9													

Date Sampled	TPH-D	EDB	Pre-Purge DO	NO3	Sulfate	EDC	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Fe+2	ORP	Ethanol 8260B
	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mV)	(µg/l)
MW-9 continued													
11/03/92	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/03/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
5/17/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
8/13/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
11/11/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/10/94	ND	--	--	--	--	--	--	--	--	--	--	--	--
8/02/94	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/01/95	65	--	--	--	--	--	--	--	--	--	--	--	--
8/01/95	ND	--	--	--	--	--	--	--	--	--	--	--	--
2/01/96	76	--	--	--	--	--	--	--	--	--	--	--	--
2/04/99	--	--	4.77	22	30	--	--	--	--	--	--	78	--
2/12/99	--	--	--	--	--	--	--	--	--	--	0.26	470	--
2/02/00	--	--	5.12	20.6	36.5	--	--	--	--	--	ND	172	--
3/05/01	--	--	5.28	27.1	30.5	--	--	--	--	--	ND	468	--
2/22/02	--	--	5.33	22	28	--	--	--	--	--	ND<0.10	620	--
3/10/03	--	--	1.1	27	29	--	--	--	--	--	ND<0.20	250	--
2/05/04	--	--	--	ND<1.0	32	--	--	--	--	--	ND<0.20	--	ND<500
MW-10													
11/03/92	160	--	--	--	--	--	--	--	--	--	--	--	--
2/03/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
5/17/93	ND	--	--	--	--	--	--	--	--	--	--	--	--
8/13/93	97	--	--	--	--	--	--	--	--	--	--	--	--
11/11/93	88	--	--	--	--	--	--	--	--	--	--	--	--
2/10/94	71	--	--	--	--	--	--	--	--	--	--	--	--
5/05/94	55	--	--	--	--	--	--	--	--	--	--	--	--
8/02/94	110	--	--	--	--	--	--	--	--	--	--	--	--
11/07/94	120	--	--	--	--	--	--	--	--	--	--	--	--
2/01/95	72	--	--	--	--	--	--	--	--	--	--	--	--
5/02/95	99	--	--	--	--	--	--	--	--	--	--	--	--

Date Sampled	TPH-D	EDB	Pre-Purge DO	NO3	Sulfate	EDC	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Fe+2	ORP	Ethanol 8260B
	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mV)	(µg/l)
MW-10	continued												
8/01/95	260	--	--	--	--	--	--	--	--	--	--	--	--
11/01/95	280	--	--	--	--	--	--	--	--	--	--	--	--
2/01/96	320	--	--	--	--	--	--	--	--	--	--	--	--
2/04/99	--	--	4.02	ND	36	--	--	--	--	--	--	94	--
2/12/99	--	--	--	--	--	--	--	--	--	--	0.24	470	--
2/02/00	--	--	4.84	ND	40.1	--	--	--	--	--	0.0165	110	--
3/05/01	--	--	3.7	3.17	66.7	--	--	--	--	--	0.0248	461	--
2/22/02	--	ND<12	4.58	ND<0.50	30	ND<12	ND<12	ND<620	ND<12	ND<12	ND<0.10	590	ND<3,100
3/10/03	--	ND<10	1.6	ND<1.0	45	ND<10	ND<10	ND<500	ND<10	ND<10	ND<0.20	270	ND<2,500
2/05/04	--	--	--	ND<1.0	45	--	--	--	--	--	ND<0.20	--	ND<2500
MW-11													
8/10/01	110	ND<2.0	--	--	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	ND<1,000
2/22/02	99	ND<2.0	3.57	--	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	ND<500
3/10/03	75	ND<2.0	1.5	--	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	ND<500

GETTLER-RYAN INC.
HISTORICAL TABLES

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID/ TOC*(ft.)		DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1		05/11/90	--	--	--	22,000	590	42	1,200	3,600	--
		08/28/90	--	--	--	1,700	140	1.4	180	150	--
	(D)	08/28/90	--	--	--	2,600	180	3	810	270	--
		11/26/90	--	--	--	2,900	160	2.3	330	320	--
		02/21/91	--	--	690	26,000	280	39	1,200	1,900	--
		08/05/91	--	--	200	1,200	95	6.2	230	80	--
		11/05/91	--	--	260	4,900	80	ND	150	160	--
		02/07/92	--	--	ND	220	2.1	ND	10	16	--
		05/05/92	--	--	120	310	5.7	ND	7.1	15	--
		08/03/92	--	--	220[4]	980	22	0.69	77	82	--
		11/03/92	--	--	400[4]	1,100	28	ND	80	78	--
		02/03/93	--	--	ND	94[7]	ND	ND	1.4	1.6	--
5.18		03/01/93	7.30	-2.12	--	--	--	--	--	--	--
		04/01/93	7.12	-1.94	--	--	--	--	--	--	--
		05/17/93	8.25	-3.07	490[5]	960[7]	39	ND	57	60	--
		06/15/93	INACCESSIBLE	--	--	--	--	--	--	--	--
		07/14/93	9.48	-4.30	--	--	--	--	--	--	--
		08/13/93	10.00	-4.82	170[5]	860	3.5	ND	17	20	--
		09/13/93	10.40	-5.22	--	--	--	--	--	--	--
		10/14/93	10.73	-5.55	--	--	--	--	--	--	--
4.99		11/11/93	10.80	-5.81	160[5]	930	7.3	ND	25	19	--
		12/14/93	9.50	-4.51	--	--	--	--	--	--	--
		01/10/94	9.80	-4.81	--	--	--	--	--	--	--
		02/10/94	8.58	-3.59	ND	170[6]	0.9	2.3	ND	ND	--
		03/14/94	7.73	-2.74	--	--	--	--	--	--	--
		04/23/94	8.28	-3.29	--	--	--	--	--	--	--
		05/05/94	8.11	-3.12	ND	96[6]	ND	ND	ND	ND	--
		06/07/94	8.09	-3.10	--	--	--	--	--	--	--
		07/05/94	8.43	-3.44	--	--	--	--	--	--	--
		08/02/94	8.76	-3.77	130[5]	700	13	0.62	2	3.6	--
		11/07/94	8.26	-3.27	270[4]	890	16	ND	31	21	--
		12/03/94	6.59	-1.60	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	01/10/95	6.12	-1.13	--	--	--	--	--	--	--
(cont)	02/01/95	6.04	-1.05	ND	120	1.7	ND	ND	ND	--
	03/03/95	6.73	-1.74	--	--	--	--	--	--	--
	05/02/95	6.57	-1.58	120[4]	460	14	ND	14	13	--
	08/01/95	7.70	-2.71	86[4]	190	4	ND	3.7	2	--
	11/01/95	9.08	-4.09	190[5]	160	2.5	ND	0.82	0.57	280
	02/01/96	6.22	-1.23	90[4]	240	8.7	2	ND	0.66	250
	02/04/97	8.48	-3.49	--	120[6]	0.58	ND	ND	ND	150
	02/05/98	5.50	-0.51	--	130	1.3	ND	2.7	11	220
	02/04/99	6.58	-1.59	--	1,600	74	16	ND[9]	ND[9]	680/850[10]
	02/02/00	6.69	-1.70	--	174[12]	5.70	1.41	ND	ND	839/787[10]
	03/05/01	6.58	-1.59	--	510[13]	12.7	0.875	2.57	ND	572/585[10]
	08/10/01	7.31	-2.32	--	--	--	--	--	--	--
4.96	02/22/02	6.25	-1.29	--	910[12]	2.0	<1.0	2.3	<1.0	410/500[10]
	03/10/03[19]	**6.89**	**-1.93**	**--**	**<500**	**<5.0**	**<5.0**	**<5.0**	**<10**	**480**
MW-2	05/11/90	--	--	--	65,000	3,300	3,300	4,100	12,000	--
	08/28/90[1]	--	--	3,100	27,000	2,600	1,300	1,900	3,000	--
	11/26/90[1]	--	--	3,800	15,000	1,600	450	1,100	2,100	--
	02/21/91[1]	--	--	7,000	3,400	160	61	200	490	--
	08/05/91[1]	--	--	4,200	33,000	2,900	190	3,400	7,900	--
	11/05/91[2]	--	--	3,900	110,000	4,200	200	3,400	8,600	--
	02/07/92[1]	--	--	2,300	11,000	1,400	30	1,900	1,400	--
	05/05/92[1]	--	--	4,600	26,000	2,300	110	2,700	6,900	--
	08/03/92[1]	--	--	3,300[5]	37,000	4,500	480	3,300	9,700	--
	11/03/92[1]	--	--	9,600[4]	40,000	5,600	130	3,000	6,100	--
	02/03/93[1]	--	--	3,900[4]	9,300	780	68	830	1,200	--
3.83	03/01/93	5.92	-2.09	--	--	--	--	--	--	--
	04/01/93	5.76	-1.93	--	--	--	--	--	--	--
	05/17/93	7.08	-3.25	5,500[5]	46,000	4,400	510	2,900	9,900	--
	06/15/93	7.02	-3.19	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2	07/14/93	8.13	-4.30	--	--	--	--	--	--	--
(cont)	08/13/93	8.64	-4.81	2,800[5]	44,000	5,100	600	2,900	8,500	--
	09/13/93	9.00	-5.17	--	--	--	--	--	--	--
	10/14/93	9.03	-5.20	--	--	--	--	--	--	--
3.57	11/11/93	9.22	-5.65	7,000[5]	36,000	4,800	970	3,000	8,100	--
	12/14/93	8.05	-4.48	--	--	--	--	--	--	--
	01/10/94	8.29	-4.72	--	--	--	--	--	--	--
	02/10/94	6.93	-3.36	2,000[5]	12,000	1,000	17	880	940	--
	03/14/94	6.41	-2.84	--	--	--	--	--	--	--
	04/23/94	6.66	-3.09	--	--	--	--	--	--	--
	05/05/94	6.38	-2.81	3,100[5]	36,000	3,200	670	2,700	9,600	--
	06/07/94	6.33	-2.76	--	--	--	--	--	--	--
	07/05/94	6.52	-2.95	--	--	--	--	--	--	--
	08/02/94	6.75	-3.18	8,500[4]	32,000	2,400	2,200	2,900	12,000	--
	11/07/94	6.04	-2.47	3,100[5]	49,000	1,700	2,000	3,000	10,000	--
	12/03/94	4.95	-1.38	--	--	--	--	--	--	--
	01/10/95	4.59	-1.02	--	--	--	--	--	--	--
	02/01/95	4.54	-0.97	1,800[4]	9,300	300	210	630	2,600	--
	03/03/95	5.17	-1.60	--	--	--	--	--	--	--
	05/02/95	5.03	-1.46	2,300[5]	5,600	150	ND	150	180	--
	08/01/95	6.16	-2.59	2,900[4]	13,000	700	140	1,400	5,500	--
	11/01/95	7.30	-3.73	4,100[4]	18,000	490	110	1,300	4,600	190
	02/01/96	4.57	-1.00	5,500[4]	22,000	470	77	1,400	5,900	ND
	02/04/97	7.10	-3.53	--	100[6]	ND	0.89	ND	ND	81
	02/05/98	4.12	-0.55	--	330	2.6	2.6	17	58	5.5
	08/28/98	6.26	-2.69	--	--	--	--	--	--	--
	02/04/99	5.01	-1.44	--	ND	ND	0.54	0.60	1.5	19/16[10]
	02/02/00	5.35	-1.78	--	ND	ND	ND	ND	ND	163/150[10]
	03/05/01	5.26	-1.69	--	658[13]	5.53	ND[9]	70.0	152	108
	08/10/01	6.03	-2.46	--	--	--	--	--	--	--
3.56	02/22/02	4.81	-1.25	--	<50	<0.50	<0.50	<0.50	<0.50	16/18[10]
	03/10/03[19]	**6.72**	**-3.16**	**--**	**430**	**2.8**	**<0.50**	**48**	**76**	**68**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	5/11/90	--	--	--	ND	ND	ND	ND	ND	
	08/28/90	--	--	--	ND	ND	ND	ND	0.7	--
	11/26/90	--	--	--	ND	ND	ND	ND	ND	--
	02/21/91	--	--	--	ND	ND	ND	ND	0.64	--
	08/05/91	--	--	63	ND	ND	ND	ND	ND	--
	11/05/91	--	--	ND	31	ND	ND	ND	0.65	--
	02/07/92	--	--	ND	ND	ND	ND	ND	ND	--
	05/05/92	--	--	56	ND	ND	ND	0.43	1.8	--
	08/03/92	--	--	58	ND	ND	ND	ND	ND	--
	11/03/92	--	--	52[4]	ND	ND	ND	ND	ND	--
	02/03/93	--	--	ND	ND	ND	ND	ND	ND	--
3.30	03/01/93	4.84	-1.54	--	--	--	--	--	--	--
	04/01/93	4.60	-1.30	--	--	--	--	--	--	--
	05/17/93	5.47	-2.17	53	ND	ND	ND	ND	ND	--
	06/15/93	5.57	-2.27	--	--	--	--	--	--	--
	07/14/93	6.92	-3.62	--	--	--	--	--	--	--
	08/13/93	7.85	-4.55	ND	ND	ND	ND	ND	ND	--
	09/13/93	8.42	-5.12	--	--	--	--	--	--	--
	10/14/93	8.90	-5.60	--	--	--	--	--	--	--
3.12	11/11/93	8.92	-5.80	51	ND	ND	ND	ND	ND	--
	12/14/93	7.36	-4.24	--	--	--	--	--	--	--
	01/10/94	7.54	-4.42	--	--	--	--	--	--	--
	02/10/94	6.23	-3.11	50[5]	ND	ND	ND	ND	0.84	--
	03/14/94	5.56	-2.44	--	--	--	--	--	--	--
	04/23/94	7.72	-4.60	--	--	--	--	--	--	--
	05/05/94	5.50	-2.38	66	62[6]	ND	ND	ND	ND	--
	06/07/94	5.35	-2.23	--	--	--	--	--	--	--
	07/02/94	5.46	-2.34	--	--	--	--	--	--	--
	08/02/94	5.84	-2.72	76	150[6]	ND	ND	ND	ND	--
	11/07/94	6.05	-2.93	ND	94[6]	ND	ND	ND	ND	--
	12/03/94	4.51	-1.39	--	--	--	--	--	--	--
	01/10/95	3.82	-0.70	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID/ TOC* *(ft.)*	DATE	DTW *(ft.)*	GWE *(msl)*	TPH-D *(ppb)*	TPH-G *(ppb)*	B *(ppb)*	T *(ppb)*	E *(ppb)*	X *(ppb)*	MTBE *(ppb)*
MW-3	02/01/95	3.84	-0.72	ND	100[6]	ND	ND	ND	ND	--
(cont)	03/03/95	4.27	-1.15	--	--	--	--	--	--	--
	05/02/95	4.11	-0.99	56	360[6]	ND	ND	ND	ND	--
	08/01/95	5.10	-1.98	ND	ND	ND	ND	ND	ND	--
	11/01/95	6.65	-3.53	200[4]	ND	ND	ND	ND	ND	200
	02/01/96	4.29	-1.17	160[4]	ND	ND	ND	ND	ND	190
	02/04/97	6.43	-3.31	--	ND	ND	ND	ND	ND	ND
	02/05/98	4.68	-1.56	--	ND	ND	ND	ND	ND	490
	02/04/99	4.62	-1.50	--	ND	ND	ND	ND	ND	480/530[10]
	02/02/00	5.16	-2.04	--	ND	ND	ND	ND	ND	250/346[14]
	03/05/01	5.07	-1.95	--	ND	ND	ND	ND	ND	167
	08/10/01	5.82	-2.70	--	--	--	--	--	--	--
3.12	02/22/02	4.58	-1.46	--	<50	<0.50	<0.50	<0.50	<0.50	240/280[10]
	03/10/03[19]	**4.73**	**-1.61**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**100**
MW-4	08/28/90	--	--	--	62,000	810	72	4,400	4,600	--
	11/26/90	--	--	--	49,000	360	36	3,800	11,000	--
	02/21/91	--	--	4,100	33,000	210	21	3,800	12,000	--
	08/05/91	--	--	6,200	37,000	310	70	3,600	9,700	--
	11/05/91	--	--	7,700	140,000	320	ND	4,800	13,000	--
	02/07/92	--	--	2,300	8,100	24	4.9	1,800	3,200	--
	05/05/92	--	--	3,200	15,000	82	12	2,000	5,600	--
	08/03/92	--	--	2,400[4]	24,000	61	ND	2,100	5,400	--
	11/03/92	--	--	8,300[4]	36,000	69	ND	3,000	7,400	--
	02/03/93	--	--	720[5]	370	2.6	ND	1.2	53	--
5.27	03/01/93	7.63	-2.36	--	--	--	--	--	--	--
	04/01/93	7.25	-1.98	--	--	--	--	--	--	--
	05/17/93	8.46	-3.19	3,100[4]	2,500	ND	ND	170	410	--
	06/15/93	9.00	-3.73	--	--	--	--	--	--	--
	07/14/93	9.74	-4.47	--	--	--	--	--	--	--
	08/13/93	10.23	-4.96	2,000[5]	19,000	ND	ND	1,600	4,100	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	09/13/93	10.62	-5.35	--	--	--	--	--	--	--
(cont)	10/14/93	10.84	-5.57	--	--	--	--	--	--	--
4.93	11/11/93	10.88	-5.95	4,000[4]	16,000	110	12	1,800	3,800	--
	12/14/93	9.60	-4.67	--	--	--	--	--	--	--
	01/10/94	9.92	-4.99	--	--	--	--	--	--	--
	02/10/94	8.79	-3.86	170[4]	830	3.5	1.4	36	80	--
	03/14/94	7.91	-2.98	--	--	--	--	--	--	--
	04/23/94	8.41	-3.48	--	--	--	--	--	--	--
	05/05/94	8.27	-3.34	2,000[5]	6,900	17	ND	480	1,300	--
	06/07/94	8.27	-3.34	--	--	--	--	--	--	--
	07/05/94	8.58	-3.65	--	--	--	--	--	--	--
	08/02/94	8.91	-3.98	2,500[5]	17,000	38	ND	1,800	4,300	--
	11/07/94	8.64	-3.71	2,200[4]	20,000	84	17	1,500	3,000	--
	12/03/94	6.78	-1.85	--	--	--	--	--	--	--
	01/10/95	6.35	-1.42	--	--	--	--	--	--	--
	02/01/95	5.73	-0.80	ND	ND	ND	ND	ND	ND	--
	03/03/95	6.82	-1.89	--	--	--	--	--	--	--
	05/02/95	5.74	-0.81	2,500[4]	5,400	36	ND	130	710	--
	08/01/95	7.78	-2.85	3,400[4]	7,900	21	ND	210	860	--
	11/01/95	9.16	-4.23	3,300[4]	4,900	12	ND	190	710	210
	02/01/96	4.64	0.29	ND	91	2.7	ND	1.2	6.8	7.8
	02/04/97	8.65	-3.72	--	130[6]	0.58	ND	ND	ND	150
	02/05/98	PAVED OVER	--	--	--	--	--	--	--	--
	02/04/99	4.04	0.89	--	ND	ND	ND	ND	ND	ND
	02/02/00	4.07	0.86	--	ND	ND	ND	ND	ND	ND
	03/05/01	4.14	0.79	--	ND	ND	ND	ND	ND	2.55
	08/10/01	4.77	0.16	--	--	--	--	--	--	--
5.01	02/22/02	3.87	1.14	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	03/10/03[19]	**4.12**	**0.89**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<2.0**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5	08/28/90	--	--	--	ND	ND	ND	ND	1.2	--
	11/26/90	--	--	--	ND	ND	ND	ND	ND	--
	02/21/91	--	--	--	56	ND	ND	ND	4.7	--
	08/05/91	--	--	ND	ND	ND	ND	ND	ND	--
	11/05/91	--	--	ND	ND	ND	ND	ND	ND	--
	02/07/92	--	--	ND	ND	ND	ND	0.36	0.94	--
	05/05/92	--	--	72	ND	ND	ND	0.42	1.4	--
	08/03/92	--	--	ND	ND	ND	ND	ND	ND	--
	11/03/92	--	--	ND	ND	ND	ND	ND	ND	--
	02/03/93	--	--	ND	ND	ND	ND	ND	ND	--
4.61	03/01/93	6.68	-2.07	--	--	--	--	--	--	--
	04/01/93	6.51	-1.90	--	--	--	--	--	--	--
	05/17/93	7.75	-3.14	ND	ND	ND	ND	ND	ND	--
	06/15/93	8.18	-3.57	--	--	--	--	--	--	--
	07/14/93	8.98	-4.37	--	--	--	--	--	--	--
	08/13/93	9.49	-4.88	ND	ND	ND	ND	ND	ND	--
	09/13/93	9.88	-5.27	--	--	--	--	--	--	--
	10/14/93	10.04	-5.43	--	--	--	--	--	--	--
4.27	11/11/93	10.13	-5.86	ND	ND	ND	ND	ND	ND	--
	12/14/93	8.85	-4.58	--	--	--	--	--	--	--
	01/10/94	9.10	-4.83	--	--	--	--	--	--	--
	02/10/94	7.71	-3.44	ND	ND	ND	ND	ND	0.59	--
	03/14/94	7.02	-2.75	--	--	--	--	--	--	--
	04/23/94	7.57	-3.30	--	--	--	--	--	--	--
	05/05/94	7.38	-3.11	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
	06/07/94	7.39	-3.12	--	--	--	--	--	--	--
	07/05/94	7.72	-3.45	--	--	--	--	--	--	--
	08/02/94	8.05	-3.78	ND	ND	ND	ND	ND	ND	--
	11/07/94	7.56	-3.29	--	--	--	--	--	--	--
	12/03/94	5.80	-1.53	--	--	--	--	--	--	--
	01/10/95	5.37	-1.10	--	--	--	--	--	--	--
	02/01/95	5.24	-0.97	ND	ND	ND	ND	ND	ND	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID/ TOC* (ft.)		DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-5		03/03/95	5.99	-1.72	--	--	--	--	--	--	--
(cont)		05/02/95	5.85	-1.58	--	--	--	--	--	--	--
		08/01/95	7.00	-2.73	ND	ND	ND	ND	ND	ND	--
		11/01/95	8.40	-4.13	--	--	--	--	--	--	--
		02/01/96	5.45	-1.18	ND	ND	ND	ND	ND	ND	0.72
		02/04/97	7.82	-3.55	--	ND	ND	ND	ND	ND	ND
		02/05/98	3.85	0.42	--	ND	ND	ND	ND	ND	490
		02/04/99	5.85	-1.58	--	ND	ND	ND	ND	ND	23/26[10]
		02/02/00	5.94	-1.67	--	ND	ND	ND	ND	ND	ND
		03/05/01	5.85	-1.58	--	ND	ND	ND	ND	ND	ND
		08/10/01	6.53	-2.26	--	--	--	--	--	--	--
4.31		02/22/02	5.54	-1.23	--	<50	<0.50	<0.50	<0.50	<0.50	9.6/11[10]
		03/10/03[19]	**6.93**	**-2.62**	--	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**6.6**
MW-6		08/28/90[3]	--	--	1,000	12,000	1,700	1,400	230	2,100	--
		11/26/90[1]	--	--	320	4,800	1,000	200	340	650	--
	(D)	11/26/90	--	--	--	4,000	800	120	250	440	--
		02/21/91[1]	--	--	160	750	77	14	23	140	--
		08/05/91[1]	--	--	130	860	130	11	92	150	--
		11/05/91[1]	--	--	300	7,100	200	ND	190	580	--
		02/07/92[1]	--	--	ND	180	22	0.68	22	20	--
		05/05/92[1]	--	--	47	ND	ND	ND	ND	1.3	--
		08/03/92	--	--	170[4]	1,100	180	1.1	62	78	--
		11/03/92	--	--	220[4]	920	45	0.76	12	110	--
		02/03/93[1]	--	--	ND	ND	1.2	ND	ND	ND	--
4.31		03/01/93	6.20	-1.89	--	--	--	--	--	--	--
		04/01/93	6.04	-1.73	--	--	--	--	--	--	--
		05/17/93	7.50	-3.19	1,400[4]	4,900	890	46	210	530	--
		06/15/93	7.76	-3.45	--	--	--	--	--	--	--
		07/14/93	8.69	-4.38	--	--	--	--	--	--	--
		08/13/93	9.20	-4.89	440[5]	2,300	330	ND	95	40	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID/ TOC* *(ft.)*	DATE	DTW *(ft.)*	GWE *(msl)*	TPH-D *(ppb)*	TPH-G *(ppb)*	B *(ppb)*	T *(ppb)*	E *(ppb)*	X *(ppb)*	MTBE *(ppb)*
MW-6	09/13/93	9.59	-5.28	--	--	--	--	--	--	--
(cont)	10/14/93	9.75	-5.44	--	--	--	--	--	--	--
4.03	11/11/93	9.87	-5.84	650[5]	3,000	470	ND	220	270	--
	12/14/93	8.60	-4.57	--	--	--	--	--	--	--
	01/10/94	8.81	-4.78	--	--	--	--	--	--	--
	02/10/94	7.23	-3.20	ND	ND	3.5	ND	1.5	ND	--
	03/14/94	6.68	-2.65	--	--	--	--	--	--	--
	04/23/94	7.24	-3.21	--	--	--	--	--	--	--
	05/05/94	7.01	-2.98	630[5]	2,600	430	99	24	420	--
	06/07/94	7.02	-2.99	--	--	--	--	--	--	--
	07/05/94	7.41	-3.38	--	--	--	--	--	--	--
	08/02/94	7.66	-3.63	2,400[5]	28,000	2,200	940	1,600	7,500	--
	11/07/94	6.78	-2.75	770[4]	23,000	3,800	970	1,400	4,700	--
	12/03/94	5.44	-1.41	--	--	--	--	--	--	--
	01/10/95	5.00	-0.97	--	--	--	--	--	--	--
	02/01/95	4.98	-0.95	2,700[5]	55,000	7,700	9,100	4,500	20,000	--
	03/03/95	5.71	-1.68	--	--	--	--	--	--	--
	05/02/95	5.58	-1.55	3,600[5]	59,000	4,700	4,400	4,000	18,000	--
	08/01/95	6.76	-2.73	2,800[4]	23,000	1,400	510	940	7,300	--
	11/01/95	8.10	-4.07	4,300[4]	24,000	1,100	200	1,900	6,000	170
	02/01/96	5.09	-1.06	3,700[4]	58,000	2,700	1,800	4,200	17,000	ND
	02/04/97	7.61	-3.58	--	95[6]	ND	1.0	ND	ND	96
	02/05/98	4.55	-0.52	--	44,000	2,100	1,600	5,200	20,000	2,800
	08/28/98[8]	6.95	-2.92	--	--	--	--	--	--	--
	02/04/99	5.59	-1.56	--	37,000	480	250	2,900	10,000	ND[9]
	02/02/00	6.24	-2.21	--	24,300[13]	313	42.0	1,880	5,490	604/357[10]
	03/05/01[15]	6.29	-2.26	--	29,300[13]	272	66.8	2,180	7,380	1,120
	08/10/01	7.11	-3.08	--	--	--	--	--	--	--
4.05	02/22/02[15]	5.37	-1.32	--	22,000[12]	180	<50	1,300	3,100	760/790[10]
	03/10/03[19]	**5.95**	**-1.90**	**--**	**1,200**	**13**	**<1.0**	**53**	**45**	**150**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID/ TOC* *(ft.)*	DATE	DTW *(ft.)*	GWE *(msl)*	TPH-D *(ppb)*	TPH-G *(ppb)*	B *(ppb)*	T *(ppb)*	E *(ppb)*	X *(ppb)*	MTBE *(ppb)*
MW-7										
4.84	05/11/93	4.52	0.32	--	--	--	--	--	--	--
	05/17/93	7.00	-2.16	ND	ND	ND	ND	ND	ND	--
	06/15/93	7.47	-2.63	--	--	--	--	--	--	--
	07/14/93	8.55	-3.71	--	--	--	--	--	--	--
	08/13/93	9.23	-4.39	ND	ND	ND	ND	ND	ND	--
	09/13/93	10.08	-5.24	--	--	--	--	--	--	--
	1014/93	10.25	-5.41	--	--	--	--	--	--	--
4.42	11/11/93	10.27	-5.85	66	ND	ND	ND	ND	ND	--
	12/14/93	8.52	-4.10	--	--	--	--	--	--	--
	01/10/94	9.30	-4.88	--	--	--	--	--	--	--
	02/10/94	7.93	-3.51	ND	ND	ND	ND	ND	ND	--
	03/14/94	6.78	-2.36	--	--	--	--	--	--	--
	04/23/94	INACCESSIBLE	--	--	--	--	--	--	--	--
	05/05/94	7.13	-2.71	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
	06/07/94	7.09	-2.67	--	--	--	--	--	--	--
	07/05/94	7.49	-3.07	--	--	--	--	--	--	--
	08/02/94	7.98	-3.56	ND	ND	ND	ND	ND	0.63	--
	11/07/94	7.86	-3.44	--	--	--	--	--	--	--
	12/03/94	5.95	-1.53	--	--	--	--	--	--	--
	01/10/95	5.50	-1.08	--	--	--	--	--	--	--
	02/01/95	5.43	-1.01	ND	ND	ND	ND	ND	ND	--
	03/03/95	5.97	-1.55	--	--	--	--	--	--	--
	05/02/95	5.73	-1.31	--	--	--	--	--	--	--
	08/01/95	7.62	-3.20	ND	ND	ND	ND	ND	ND	--
	11/01/95	8.58	-4.16	--	--	--	--	--	--	--
	02/01/96	5.77	-1.35	96[4]	ND	ND	ND	ND	ND	1.4
	02/04/97	7.64	-3.22	--	ND	ND	ND	ND	ND	ND
	02/05/98	PAVED OVER	--	--	--	--	--	--	--	--
	02/04/99	5.54	-1.12	--	ND	ND	ND	ND	ND	ND
	02/02/00	5.75	-1.33	--	ND	ND	ND	ND	ND	ND

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Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-7	03/05/01	5.66	-1.24	--	ND	ND	ND	ND	ND	ND
(cont)	08/10/01	6.28	-1.86	--	--	--	--	--	--	--
4.45	02/22/02	4.98	-0.53	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	03/10/03[19]	**5.39**	**-0.94**	--	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<2.0**
MW-8	11/03/92	--	--	ND	ND	ND	ND	ND	ND	--
	02/03/93	--	--	ND	ND	ND	ND	ND	ND	--
5.12	03/01/93	6.64	-1.52	--	--	--	--	--	--	--
	04/01/93	6.55	-1.43	--	--	--	--	--	--	--
	05/17/93	8.25	-3.13	ND	ND	ND	ND	ND	ND	--
	06/15/93	8.67	-3.55	--	--	--	--	--	--	--
	07/14/93	9.47	-4.35	--	--	--	--	--	--	--
	08/13/93	10.00	-4.88	ND	ND	ND	ND	ND	ND	--
	09/13/93	10.40	-5.28	--	--	--	--	--	--	--
	10/14/93	10.23	-5.11	--	--	--	--	--	--	--
4.43	11/11/93	10.22	-5.79	ND	ND	ND	ND	ND	ND	--
	12/14/93	9.00	-4.57	--	--	--	--	--	--	--
	01/10/94	9.17	-4.74	--	--	--	--	--	--	--
	02/10/94	7.23	-2.80	ND	ND	ND	ND	ND	ND	--
	03/14/94	6.94	-2.51	--	--	--	--	--	--	--
	04/23/94	7.63	-3.20	--	--	--	--	--	--	--
	05/05/94	7.39	-2.96	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
	06/07/94	7.44	-3.01	--	--	--	--	--	--	--
	07/05/94	7.86	-3.43	--	--	--	--	--	--	--
	08/02/94	8.23	-3.80	ND	ND	ND	ND	ND	ND	--
	11/07/94	6.56	-2.13	--	--	--	--	--	--	--
	12/03/94	5.60	-1.17	--	--	--	--	--	--	--
	01/10/95	4.90	-0.47	--	--	--	--	--	--	--
	02/01/95	5.02	-0.59	ND	ND	ND	ND	ND	ND	--
	03/03/95	5.81	-1.38	--	--	--	--	--	--	--
	05/02/95	5.73	-1.30	--	--	--	--	--	--	--

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Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-8	08/01/95	7.11	-2.68	ND	ND	ND	ND	ND	ND	--
(cont)	11/01/95	8.98	-4.55	--	--	--	--	--	--	--
	02/01/96	5.52	-1.09	110[4]	ND	ND	ND	ND	ND	1.3
	02/04/97	8.07	-3.64	--	ND	ND	ND	ND	ND	ND
	02/05/98	4.97	-0.54	--	ND	ND	ND	ND	ND	ND
	02/04/99	6.12	-1.69	--	ND	ND	ND	ND	ND	ND
	02/02/00	6.11	-1.68	--	ND	ND	ND	ND	ND	ND
	03/05/01	6.05	-1.62	--	ND	ND	ND	ND	ND	ND
	02/22/02	5.90	-1.47	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	03/10/03[19]	**6.56**	**-2.13**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<2.0**
MW-9	11/03/92	--	--	ND	ND	ND	ND	ND	ND	--
	02/03/93	--	--	ND	ND	ND	ND	ND	ND	--
4.84	03/01/93	6.22	-1.38	--	--	--	--	--	--	--
	04/01/93	6.17	-1.33	--	--	--	--	--	--	--
	05/17/93	7.95	-3.11	ND	ND	ND	ND	ND	ND	--
	06/15/93	8.34	-3.50	--	--	--	--	--	--	--
	07/14/93	9.13	-4.29	--	--	--	--	--	--	--
	08/13/93	9.69	-4.85	ND	ND	ND	ND	ND	ND	--
	09/13/93	10.10	-5.26	--	--	--	--	--	--	--
	10/14/93	10.23	-5.39	--	--	--	--	--	--	--
4.60	11/11/93	10.39	-5.79	ND	ND	ND	ND	ND	ND	--
	12/14/93	9.14	-4.54	--	--	--	--	--	--	--
	01/10/94	9.27	-4.67	--	--	--	--	--	--	--
	02/10/94	7.20	-2.60	ND	ND	ND	ND	ND	ND	--
	03/14/94	7.06	-2.46	--	--	--	--	--	--	--
	04/23/94	7.79	-3.19	--	--	--	--	--	--	--
	05/05/94	7.52	-2.92	SAMPLED SEMI-ANNUALLY		--	--	--	--	--
	06/07/94	7.54	-2.94	--	--	--	--	--	--	--
	07/05/94	7.98	-3.38	--	--	--	--	--	--	--
	08/02/94	8.34	-3.74	ND	ND	ND	ND	ND	ND	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID/ TOC* (ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-9	11/07/94	6.44	-1.84	--	--	--	--	--	--	--
(cont)	12/03/94	5.68	-1.08	--	--	--	--	--	--	--
	01/10/95	4.98	-0.38	--	--	--	--	--	--	--
	02/01/95	5.18	-0.58	65[4]	ND	ND	ND	ND	ND	--
	03/03/95	5.90	-1.30	--	--	--	--	--	--	--
	05/02/95	5.86	-1.26	--	--	--	--	--	--	--
	08/01/95	7.30	-2.70	ND	ND	ND	ND	ND	ND	--
	11/01/95	8.66	-4.06	--	--	--	--	--	--	--
	02/01/96	5.14	-0.54	76[4]	ND	ND	ND	ND	ND	ND
	02/04/97	8.12	-3.52	--	ND	ND	ND	ND	ND	ND
	02/05/98	4.95	-0.35	--	ND	ND	ND	ND	ND	ND
	02/04/99	5.81	-1.21	--	ND	ND	ND	ND	ND	ND
	02/02/00	5.71	-1.11	--	ND	ND	ND	ND	ND	ND
	03/05/01	5.67	-1.07	--	ND	ND	ND	ND	ND	ND
	02/22/02	5.61	-1.01	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	03/10/03[19]	**6.16**	**-1.56**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<2.0**
MW-10	11/03/92	--	--	160[4]	740	11	2.1	32	56	--
	02/03/93	--	--	ND	1,200[6]	ND	ND	ND	ND	--
3.34	03/01/93	5.82	-2.48	--	--	--	--	--	--	--
	04/01/93	5.69	-2.35	--	--	--	--	--	--	--
	05/17/93	7.04	-3.70	ND	1,200[6]	ND	ND	ND	ND	--
	06/15/93	7.22	-3.88	--	--	--	--	--	--	--
	07/14/93	8.01	-4.67	--	--	--	--	--	--	--
	08/13/93	8.42	-5.08	97[5]	1,500[7]	ND	ND	41	21	--
	09/13/93	8.74	-5.40	--	--	--	--	--	--	--
	10/14/93	8.57	-5.23	--	--	--	--	--	--	--
2.69	11/11/93	8.59	-5.90	88[5]	1,600[6]	ND	ND	ND	ND	--
	12/14/93	7.50	-4.81	--	--	--	--	--	--	--
	01/10/94	7.69	-5.00	--	--	--	--	--	--	--
	02/10/94	8.21	-5.52	71	1,480[6]	ND	ND	ND	ND	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID/ TOC*(ft.)	DATE	DTW (ft.)	GWE (msl)	TPH-D (ppb)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-10	03/14/94	5.56	-2.87	--	--	--	--	--	--	--
(cont)	04/23/94	6.22	-3.53	--	--	--	--	--	--	--
	05/05/94	6.03	-3.34	55	1,000[6]	ND	ND	ND	ND	--
	06/07/94	6.10	-3.41	--	--	--	--	--	--	--
	07/05/94	6.38	-3.69	--	--	--	--	--	--	--
	08/02/94	6.67	-3.98	110	95[6]	ND	ND	ND	ND	--
	11/07/94	6.08	-3.39	120[5]	1,100[6]	ND	ND	ND	ND	--
	12/03/94	4.68	-1.99	--	--	--	--	--	--	--
	01/10/95	4.21	-1.52	--	--	--	--	--	--	--
	02/01/95	4.26	-1.57	72[4]	560[6]	ND	ND	ND	ND	--
	03/03/95	4.94	-2.25	--	--	--	--	--	--	--
	05/02/95	4.80	-2.11	99	840[6]	ND	ND	ND	9.5	--
	08/01/95	5.79	-3.10	260	ND	ND	ND	ND	ND	--
	11/01/95	6.95	-4.26	280	ND	ND	ND	ND	ND	830
	02/01/96	4.31	-1.62	320[4]	ND	ND	ND	ND	ND	1,300
	02/04/97	6.59	-3.90	--	ND	ND	ND	ND	ND	ND
	02/05/98	3.76	-1.07	--	ND	ND	ND	ND	ND	500
	02/04/99	4.68	-1.99	--	ND[9]	ND[9]	ND[9]	ND[9]	ND[9]	620/850[10,11]
	02/02/00	4.85	-2.16	--	ND	ND	ND	ND	ND	737/696[10]
	03/05/01	4.81	-2.12	--	ND	ND	ND	ND	ND	121
	02/22/02	4.53	-1.84	--	<50	<0.50	<0.50	<0.50	<0.50	870/780[10]
	03/10/03[19]	**4.98**	**-2.29**	**--**	**370[16]**	**<2.5**	**<2.5**	**<2.5**	**<5.0**	**320**
MW-11										
2.63	08/10/01[17]	5.70	-3.07	110[16]	<50	<0.50	<0.50	<0.50	<0.50	<5.0/<2.0[10]
	02/22/02	5.43	-2.80	99[18]	<50	<0.50	<0.50	<0.50	<0.50	<5.0/<2.0[10]
	03/10/03[19]	**5.41**	**-2.78**	**75[16]**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<2.0**
MWD										
(D)(MW6)	02/22/91	--	--	--	740	74	12	33	140	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID/ TOC* *(ft.)*	DATE	DTW *(ft.)*	GWE *(msl)*	TPH-D *(ppb)*	TPH-G *(ppb)*	B *(ppb)*	T *(ppb)*	E *(ppb)*	X *(ppb)*	MTBE *(ppb)*
Trip Blank										
TB-LB	02/05/98	--	--	--	ND	ND	ND	ND	ND	ND
	02/04/99	--	--	--	ND	ND	ND	ND	ND	ND
	02/12/99	--	--	--	ND	ND	ND	ND	ND	ND
	02/02/00	--	--	--	ND	ND	ND	ND	ND	ND
	03/05/01	--	--	--	ND	ND	ND	ND	ND	ND
	08/10/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	02/22/02	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<5.0
QA	**03/10/03[19]**	**--**	**--**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<2.0**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to February 5, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing elevation
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
(msl) = Mean sea level
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
(D) = Duplicate
(ppb) = Parts per billion
(ppm) = Parts per million
ND = Not Detected
-- = Not Measured/Not Analyzed
QA = Quality Assurance/Trip Blank

* TOC elevations were surveyed on September 11, 2001, using the previous benchmark. TOC elevations are relative to Mean Sea Level (msl), per the City of Oakland Benchmark No. 3881 (Elevation = 4.72 feet msl). Prior to November 11, 1993, DTW measurements were taken from the top of well covers.

1 TOG was ND.
2 TOG was detected at a concentration of 78 ppb.
3 TOG was detected at a concentration of 16 ppb.
4 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
5 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
6 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
7 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
8 ORC installed in well.
9 Detection limit raised. Refer to analytical reports.
10 MTBE by EPA Method 8260.
11 Laboratory analyzed sample 9 minutes past holding time.
12 Laboratory report indicates weathered gasoline C6-C12.
13 Laboratory report indicates gasoline C6-C12.
14 Laboratory report indicates MTBE by EPA Method 8260 was analyzed past EPA recommended holding time.
15 ORC present in well.
16 Laboratory report indicates hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
17 Well development performed.
18 Laboratory report indicates unidentified hydrocarbons C10-C28.
19 TPH-G, BTEX and MTBE by EPA Method 8260.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	03/05/01	ND[1]	ND[1]	585	ND[1]	ND[1]	ND[1]	ND[1]	ND[1]
	02/22/02	<1,700	<330	500	<6.7	<6.7	<6.7	<6.7	<6.7
	03/10/03	**<5,000**	**<1,000**	**480**	**<20**	**<20**	**<20**	**<20**	**<20**
MW-2	03/05/01[2]	--	--	--	--	--	--	--	--
	02/22/02	<500	<100	18	<2.0	<2.0	<2.0	<2.0	<2.0
	03/10/03	**<500**	**<100**	**68**	**<2.0**	**<2.0**	**<2.0**	**<2.0**	**<2.0**
MW-3	03/05/01[2]	--	--	--	--	--	--	--	--
	02/22/02	<1,200	<250	280	<5.0	<5.0	<5.0	<5.0	<5.0
	03/10/03	**<500**	**<100**	**100**	**<2.0**	**<2.0**	**<2.0**	**<2.0**	**<2.0**
MW-4	03/05/01[2]	--	--	--	--	--	--	--	--
	03/10/03	**--**	**--**	**<2.0**	**--**	**--**	**--**	**--**	**--**
MW-5	02/22/02	<500	<100	11	<2.0	<2.0	<2.0	<2.0	<2.0
	03/10/03	**<500**	**<100**	**6.6**	**<2.0**	**<2.0**	**<2.0**	**<2.0**	**<2.0**
MW-6	03/05/01[2]	--	--	--	--	--	--	--	--
	02/22/02	<2,500	<500	790	<10	<10	<10	<10	<10
	03/10/03	**<1,000**	**<200**	**150**	**<4.0**	**<4.0**	**<4.0**	**<4.0**	**<4.0**
MW-7	**03/10/03**	**--**	**--**	**<2.0**	**--**	**--**	**--**	**--**	**--**
MW-8	**03/10/03**	**--**	**--**	**<2.0**	**--**	**--**	**--**	**--**	**--**

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID	DATE	ETHANOL *(ppb)*	TBA *(ppb)*	MTBE *(ppb)*	DIPE *(ppb)*	ETBE *(ppb)*	TAME *(ppb)*	1,2-DCA *(ppb)*	EDB *(ppb)*

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID	DATE	ETHANOL *(ppb)*	TBA *(ppb)*	MTBE *(ppb)*	DIPE *(ppb)*	ETBE *(ppb)*	TAME *(ppb)*	1,2-DCA *(ppb)*	EDB *(ppb)*
MW-9	**03/10/03**	**--**	**--**	**<2.0**	**--**	**--**	**--**	**--**	**--**
MW-10	03/05/01[2]	--	--	--	--	--	--	--	--
	02/22/02	<3,100	<620	780	<12	<12	<12	<12	<12
	03/10/03	**<2,500**	**<500**	**320**	**<10**	**<10**	**<10**	**<10**	**<10**
MW-11	08/10/01	<1,000	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	02/22/02	<500	<100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	03/10/03	**<500**	**<100**	**<2.0**	**<2.0**	**<2.0**	**<2.0**	**<2.0**	**<2.0**

Table 2

Groundwater Analytical Results - Oygenate Compounds

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

EXPLANATIONS:

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = Ethylene dibromide
(ppb) = Parts per billion
-- = Not Analyzed
ND = Not Detected

[1] Detection limit raised. Refer to analytical reports.
[2] Laboratory failed to run requested analysis.

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3

Dissloved Oxygen Compounds

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID	DATE	Before Purging *(mg/L)*	After Purging *(mg/L)*
MW-1	02/04/99	3.56	--
	02/02/00	3.83	--
	03/05/01	3.97	--
	02/22/02	4.38	--
	03/10/03	**1.20**	--
MW-2	08/28/98	0.70	--
	02/04/99	3.64	--
	02/02/00	3.28	--
	03/05/01	2.90	--
	02/22/02	2.66	--
	03/10/03	**1.20**	--
MW-3	02/04/99	5.34	--
	02/02/00	6.06	--
	03/05/01	4.93	--
	02/22/02	4.16	--
	03/10/03	**1.20**	--
MW-4	02/04/99	6.46	--
	02/02/00	5.93	--
	03/05/01	5.37	--
	08/09/01	6.40	3.3
	02/22/02	4.95	--
	03/10/03	**0.80**	--
MW-5	02/04/99	6.65	--
	02/02/00	6.35	--
	03/05/01	5.58	--
	02/22/02	5.21	--
	03/10/03	**0.80**	--
MW-6[1]	08/29/98	0.32	--
	02/05/99	2.78	--
	02/02/00	3.12	--
	03/05/01	2.84	--
	02/22/02	3.25	--
	03/10/03	**2.80**	--

Table 3

Dissloved Oxygen Compounds

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

WELL ID	DATE	Before Purging *(mg/L)*	After Purging *(mg/L)*
MW-7	02/04/99	5.05	--
	02/02/00	4.58	--
	03/05/01	4.81	--
	02/22/02	4.14	--
	03/10/03	**1.40**	**--**
MW-8	08/28/98	0.32	--
	02/04/99	4.95	--
	02/02/00	5.24	--
	03/05/01	4.71	--
	08/09/01	5.50	4.8
	02/22/02	5.10	--
	03/10/03	**1.40**	**--**
MW-9	02/04/99	4.77	--
	02/02/00	5.12	--
	03/05/01	5.28	--
	02/22/02	5.33	--
	03/10/03	**1.10**	**--**
MW-10	02/04/99	4.02	--
	02/02/00	4.84	--
	03/05/01	3.70	--
	08/09/01	3.60	4.4
	02/22/02	4.58	--
	03/10/03	**1.60**	**--**
MW-11	02/22/02	3.57	--
	03/10/03	**1.50**	**--**

EXPLANATIONS:

(mg/L) = milligrams per liter

-- = Not Measured

NOTES:

[1] ORC installed in well.

Table 4

Groundwater Analytical Results

Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID		DATE	Nitrate as NO_3 *(ppm)*	Sulfate *(ppm)*	Redox Potential *(mV)*	Ferrous Iron *(ppm)*
MW-1		02/04/99	7.0	4.4	-054[1]	--
	NP	02/12/99	--	--	470	3.3
		02/02/00	ND	13.7	484	0.0456
		03/05/01	3.41	7.12	492	0.0161
		02/22/02	<0.50	3.4	210	<0.10
		03/10/03	**<1.0**	**8.3**	**180**	**4.2**
MW-2		02/04/99	ND	12	-104[1]	--
	NP	02/12/99	--	--	380	4.3
		02/02/00	ND	15.2	55.3[2]	1.70
		03/05/01	2.91	53.7	480	0.0812
		02/22/02	<0.50	38	270	<0.10
		03/10/03	**<1.0**	**34**	**110**	**11**
MW-3		02/04/99	ND	47	-064[1]	--
	NP	02/12/99	--	--	460	1.4
		02/02/00	ND	26.0	45.0	0.123
		03/05/01	3.52	70.1	476	0.0279
		02/22/02	<0.50	49	250	<0.10
		03/10/03	**<1.0**	**76**	**200**	**10**
MW-4		02/04/99	5.4	15	007[1]	--
	NP	02/12/99	--	--	610	6.0
		02/02/00	10.3	38.4	61.0	3.00
		03/05/01	4.63	5.65	474	0.114
		02/22/02	15	27	590	0.26
		03/10/03	**15**	**42**	**230**	**1.2**
MW-5		02/04/99	10	79	102[1]	--
	NP	02/12/99	--	--	480	0.16
		02/02/00	12.1	98.4	83.7	0.0208
		03/05/01	3.49	5.43	470	0.123
		02/22/02	<0.50	39	630	<0.10
		03/10/03	**<1.0**	**47**	**230**	**2.4**
MW-6		02/04/99	ND	4.8	-034[1]	--
	NP	02/12/99	--	--	400	3.2
		02/02/00	ND	8.91	71.5	0.217

Table 4
Groundwater Analytical Results
Tosco (Unocal) Service Station #3135
845 66th Avenue
Oakland, California

WELL ID		DATE	Nitrate as NO_3 (ppm)	Sulfate (ppm)	Redox Potential (mV)	Ferrous Iron (ppm)
MW-6		03/05/01	2.95	ND[3]	467	0.0791
(cont)		02/22/02	<0.50	<0.50	540	<0.10
		03/10/03	**<1.0**	**38**	**230**	**1.7**
MW-7		02/04/99	ND	4.6	-071[1]	--
	NP	02/12/99	--	--	450	1.8
		02/02/00	ND	6.43	84.0	0.812
		03/05/01	3.20	ND[3]	464	0.124
		02/22/02	<0.50	2.4	610	<0.10
		03/10/03	**<1.0**	**14**	**230**	**5.3**
MW-8		02/04/99	ND	41	90[1]	--
	NP	02/12/99	--	--	470	0.15
		02/02/00	ND	47.5	111	ND
		03/05/01	25.0	28.8	455	ND
		02/22/02	0.56	37	630	<0.10
		03/10/03	**<1.0**	**50**	**280**	**<0.20**
MW-9		02/04/99	22	30	78[1]	--
	NP	02/12/99	--	--	470	0.26
		02/02/00	20.6	36.5	172	ND
		03/05/01	27.1	30.5	468	ND
		02/22/02	22	28	620	<0.10
		03/10/03	**27**	**29**	**250**	**<0.20**
MW-10		02/04/99	ND	36	94[1]	--
	NP	02/12/99	--	--	470	0.24
		02/02/00	ND	40.1	110	0.0165
		03/05/01	3.17	66.7	461	0.0248
		02/22/02	<0.50	30	590	<0.10
		03/10/03	**<1.0**	**45**	**270**	**<0.20**

Table 4

Groundwater Analytical Results

Tosco (Unocal) Service Station #3135

845 66th Avenue

Oakland, California

EXPLANATIONS:

(ppm) = Parts per million

(Mv) = millivolts

-- = Not Analyzed

[1] Redox Potential was measured in the field.

[2] Laboratory report indicates this value is actually negative.

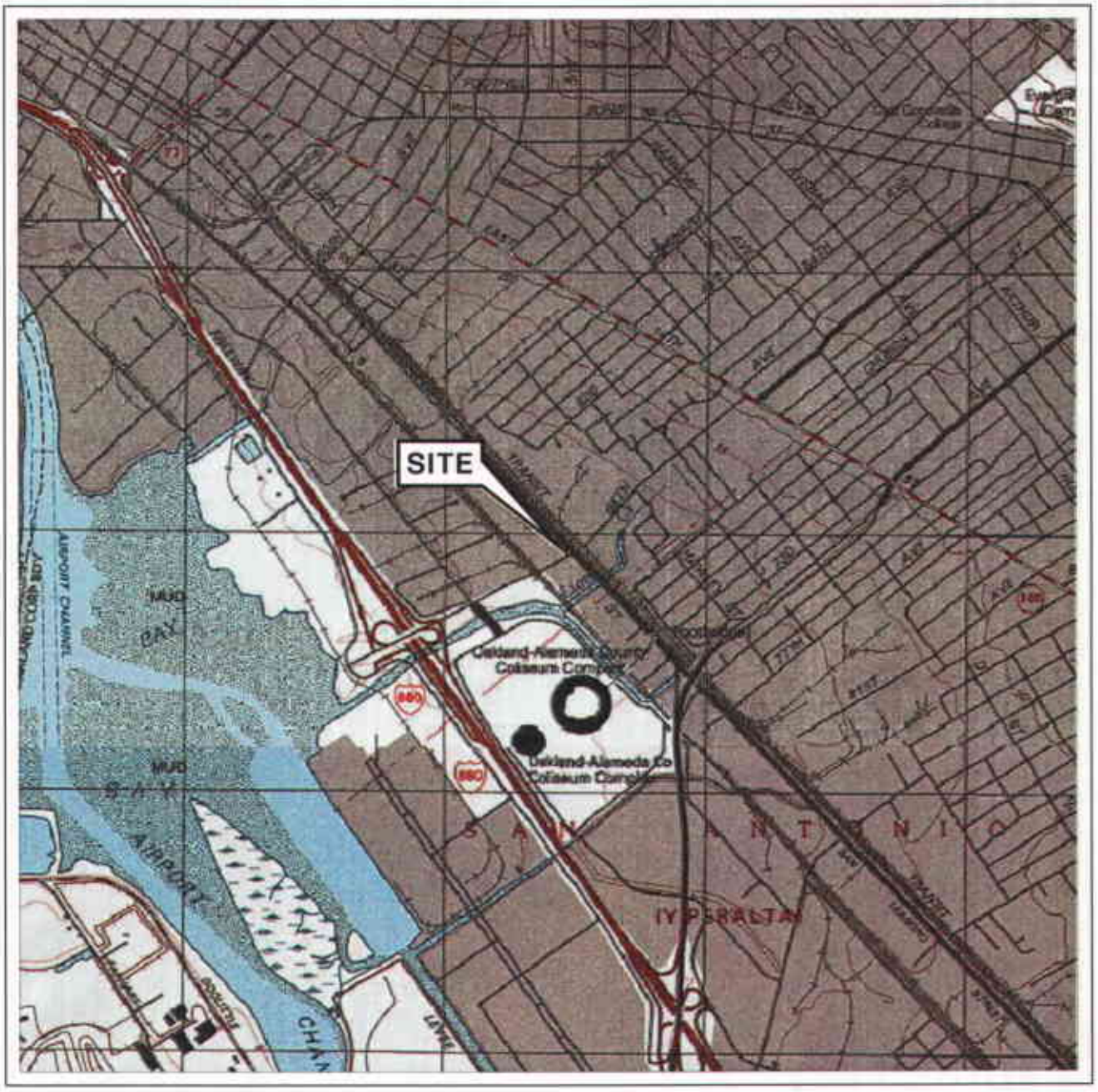
[3] Detection limit raised. Refer to analytical reports.

ANALYTICAL METHOD:

EPA Method 300.0 for Nitrate and Sulfate

EPA Method 6010 for Ferrous Iron

FIGURES



0 1/4 1/2 3/4 1 MILE

SCALE 1:24,000

N

SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Oakland West Quadrangle

VICINITY MAP

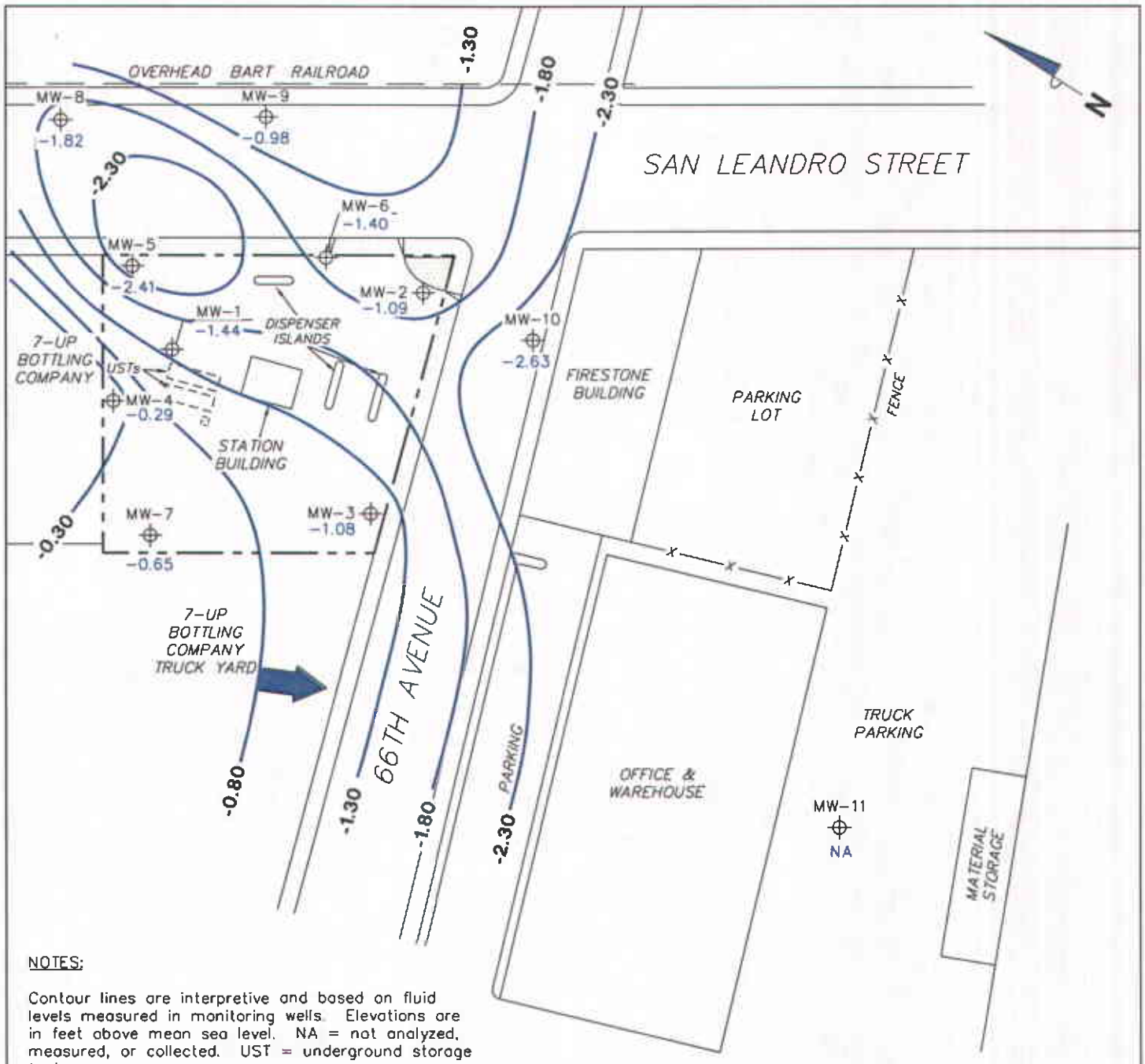
76 Station 3135
845 66th Avenue
Oakland, California

FIGURE 1

TRC

PS = 1:1

Graphics on Irvine-fs1(L:)\VICINITY MAPS\3135vm.dwg 4/21/04 jw



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. NA = not analyzed, measured, or collected. UST = underground storage tank.

LEGEND

MW-11 ⊕ Monitoring Well with Groundwater Elevation (feet)

-0.30 — Groundwater Elevation Contour

General Direction of Groundwater Flow

GROUNDWATER ELEVATION CONTOUR MAP
February 5, 2004

76 Station 3135
845 66th Avenue
Oakland, California

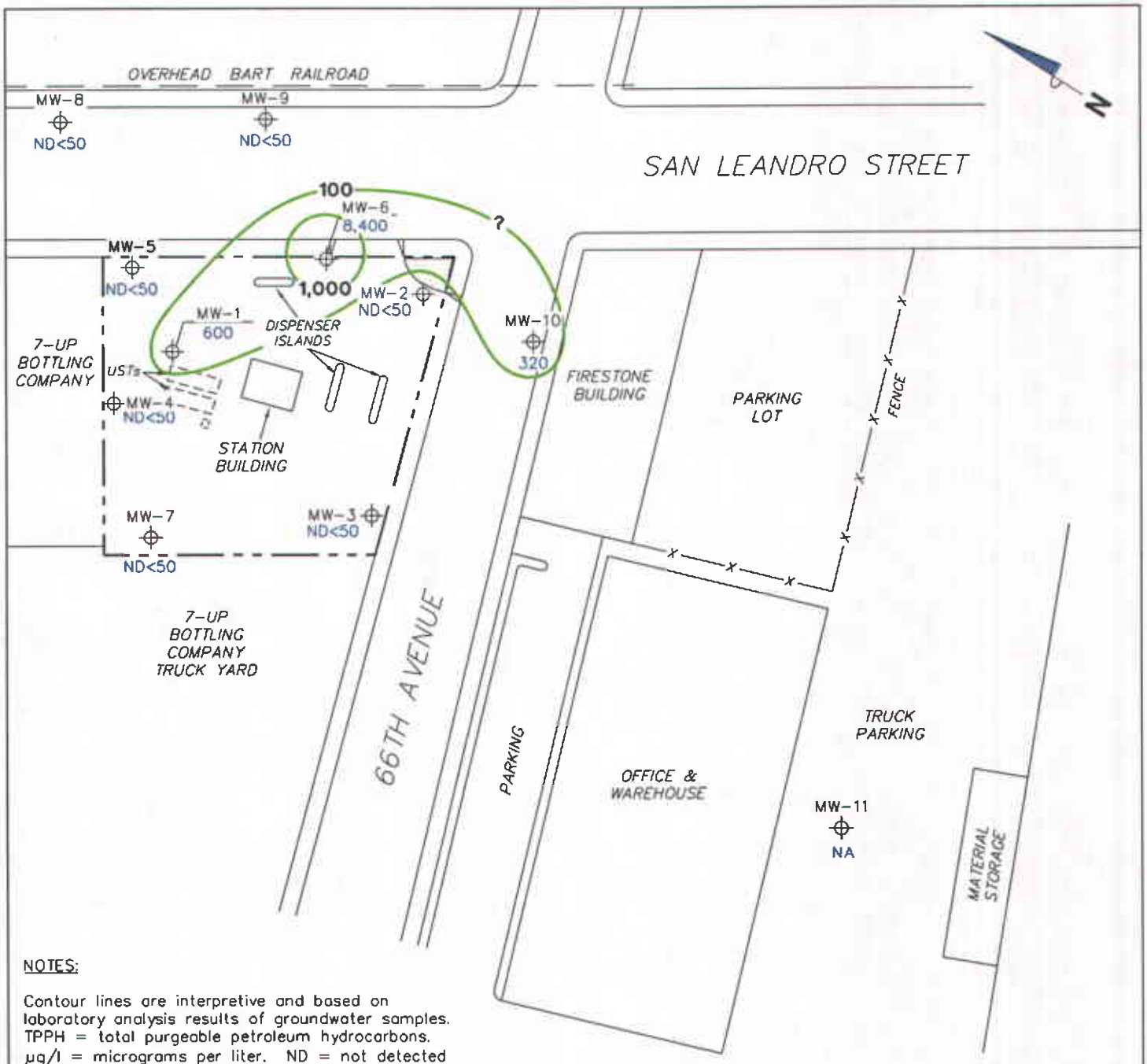
TRC

SCALE (FEET)
0 80

FIGURE 2

PS=1:1

Graphics on Irvine-fs1(L:)\GRAPHICS\Projects By..\20-xxxx\20-0400\x-3000\3135+\3135-QMS.dwg 4/30/04 jw



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.
TPPH = total purgeable petroleum hydrocarbons.
µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
NA = not analyzed, measured, or collected.
UST = underground storage tank. Results obtained using EPA Method 8260B.

LEGEND

MW-11 ⊕ Monitoring Well with Dissolved-Phase TPPH Concentration (µg/l)

1,000 Dissolved-Phase TPPH Contour (µg/l)

DISSOLVED-PHASE TPPH CONCENTRATION MAP
February 5, 2004

76 Station 3135
845 66th Avenue
Oakland, California

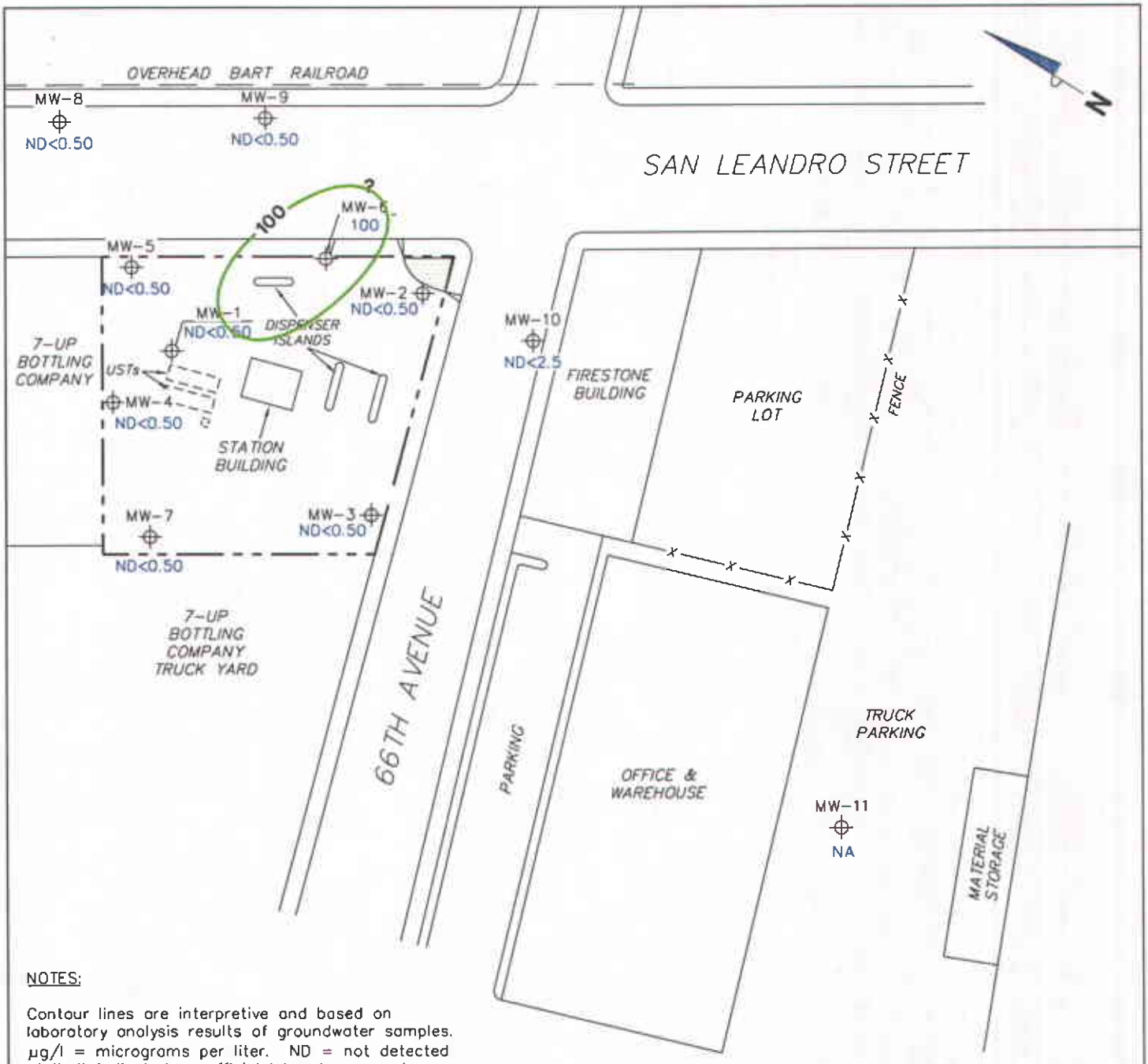
TRC

SCALE (FEET)
0 80

FIGURE 3

PS=1:1

Graphics on Irvine-fs1(L:)\GRAPHICS\Projects By..\20-xxxx\20-0400\x-3000\3135+\3135-QMS.dwg 4/30/04 jrw



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. UST = underground storage tank.

LEGEND

MW-11 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

100 Dissolved-Phase Benzene Contour (µg/l)

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
February 5, 2004

76 Station 3135
845 66th Avenue
Oakland, California

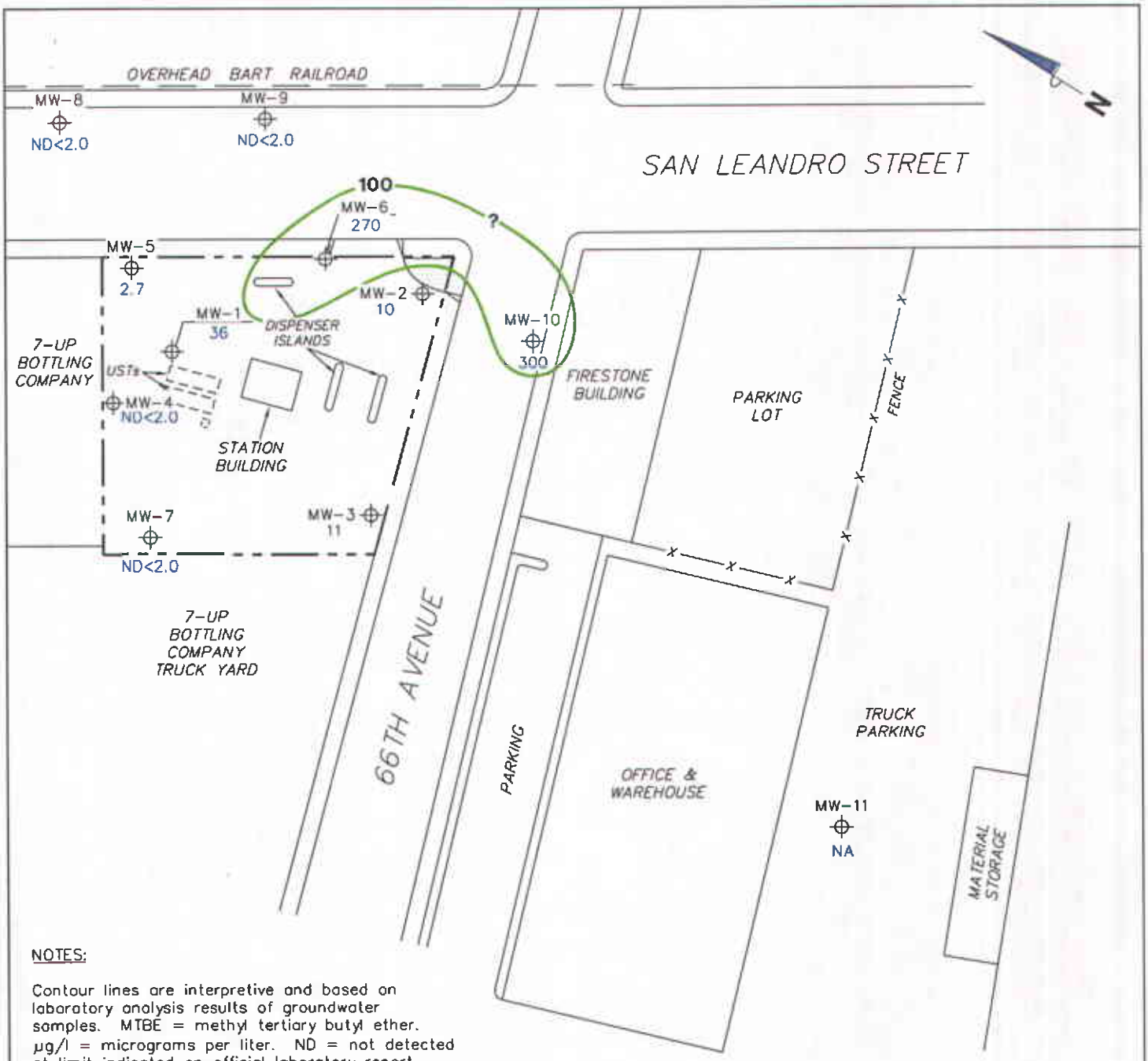
TRC

SCALE (FEET)
0 80

PS=1:1

FIGURE 4

Graphics on Irvine-fs1(L:)\GRAPHICS\Projects By.. \20-xxxx\20-0400\x-3000\3135+\3135-0MS.dwg 4/30/04 jw



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. UST = underground storage tank. Results obtained using EPA Method 8260B.

LEGEND

MW-11 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

100 Dissolved-Phase MTBE Contour (µg/l)

DISSOLVED-PHASE MTBE CONCENTRATION MAP
February 5, 2004

76 Station 3135
845 66th Avenue
Oakland, California

TRC

SCALE (FEET)
0 80

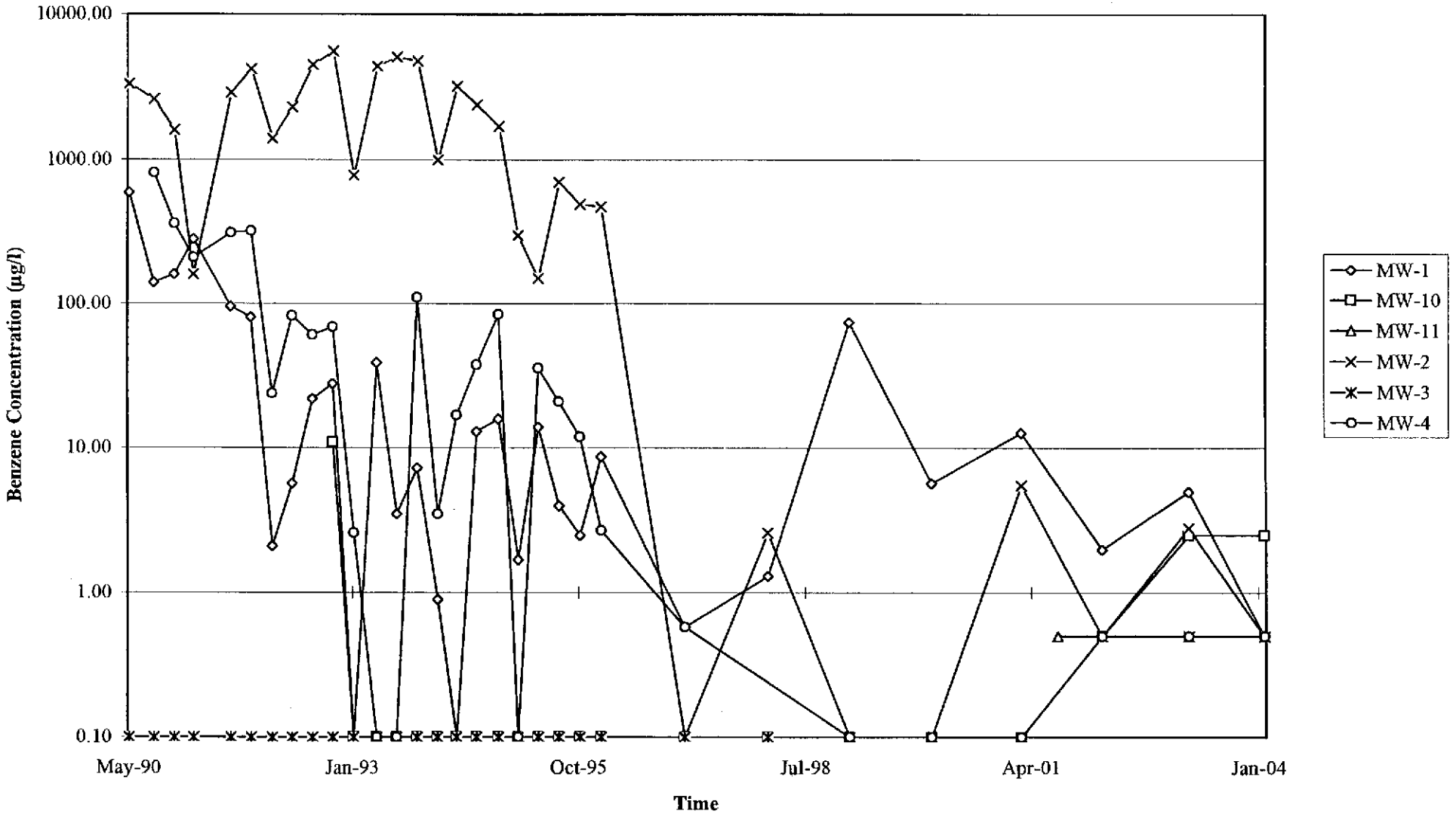
PS=1:1

FIGURE 5

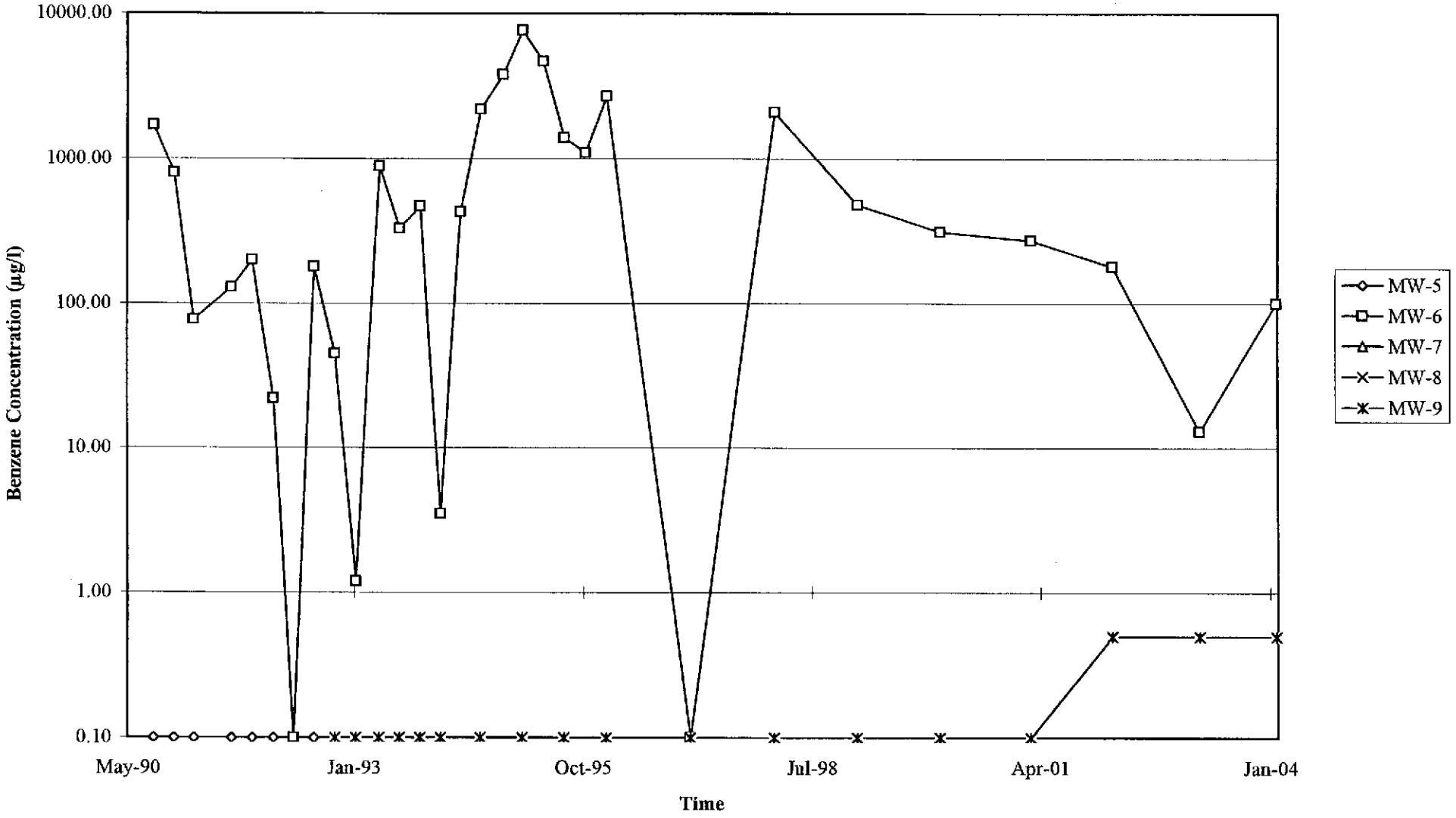
Graphics on Irvine-fs1(L:)\GRAPHICS\Projects By...\20-xxxx\20-0400\x-3000\3135+\3135-QMS.dwg 4/30/04 jrw

GRAPHS

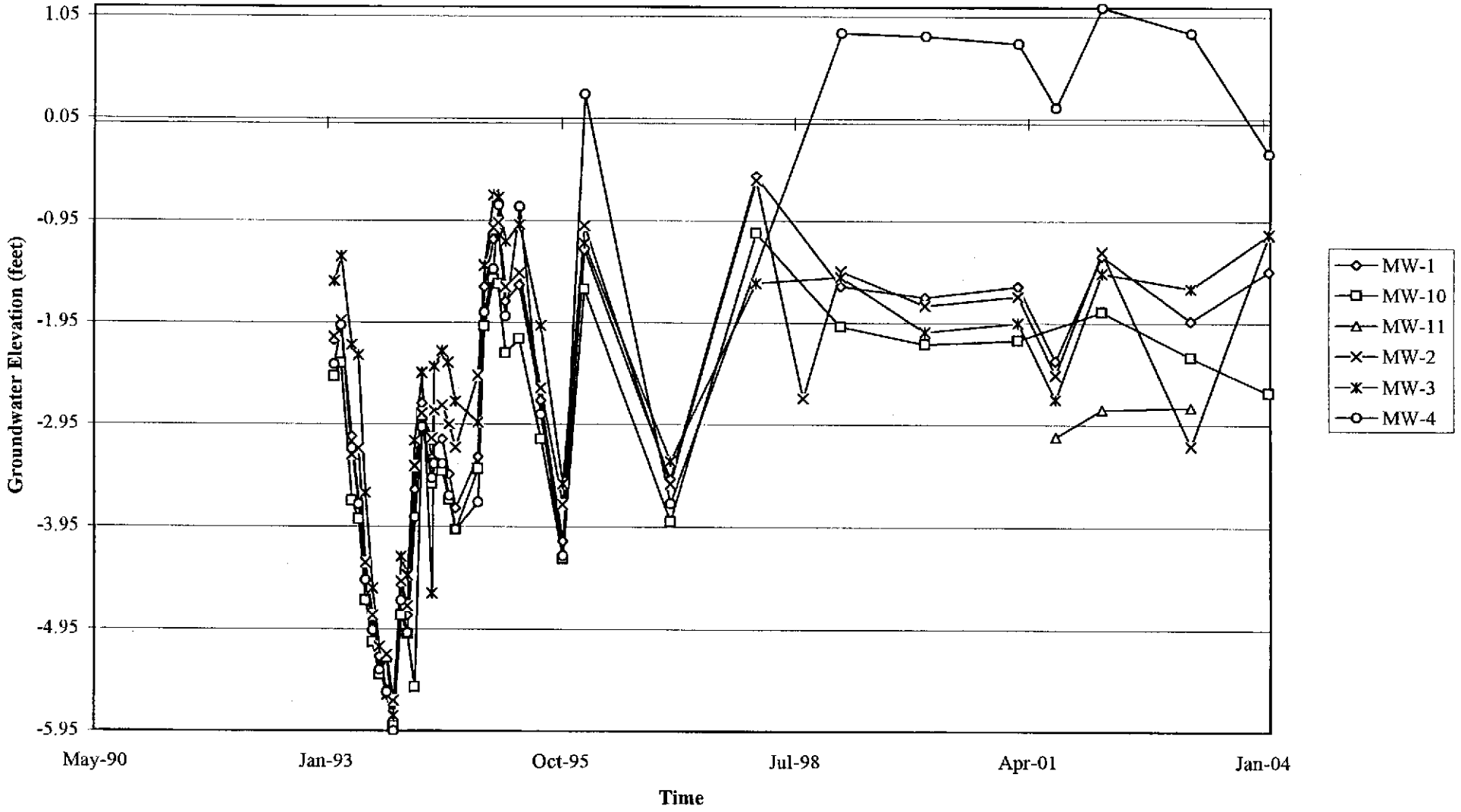
Graph 1
Benzene Concentrations vs. Time
76 Station 3135



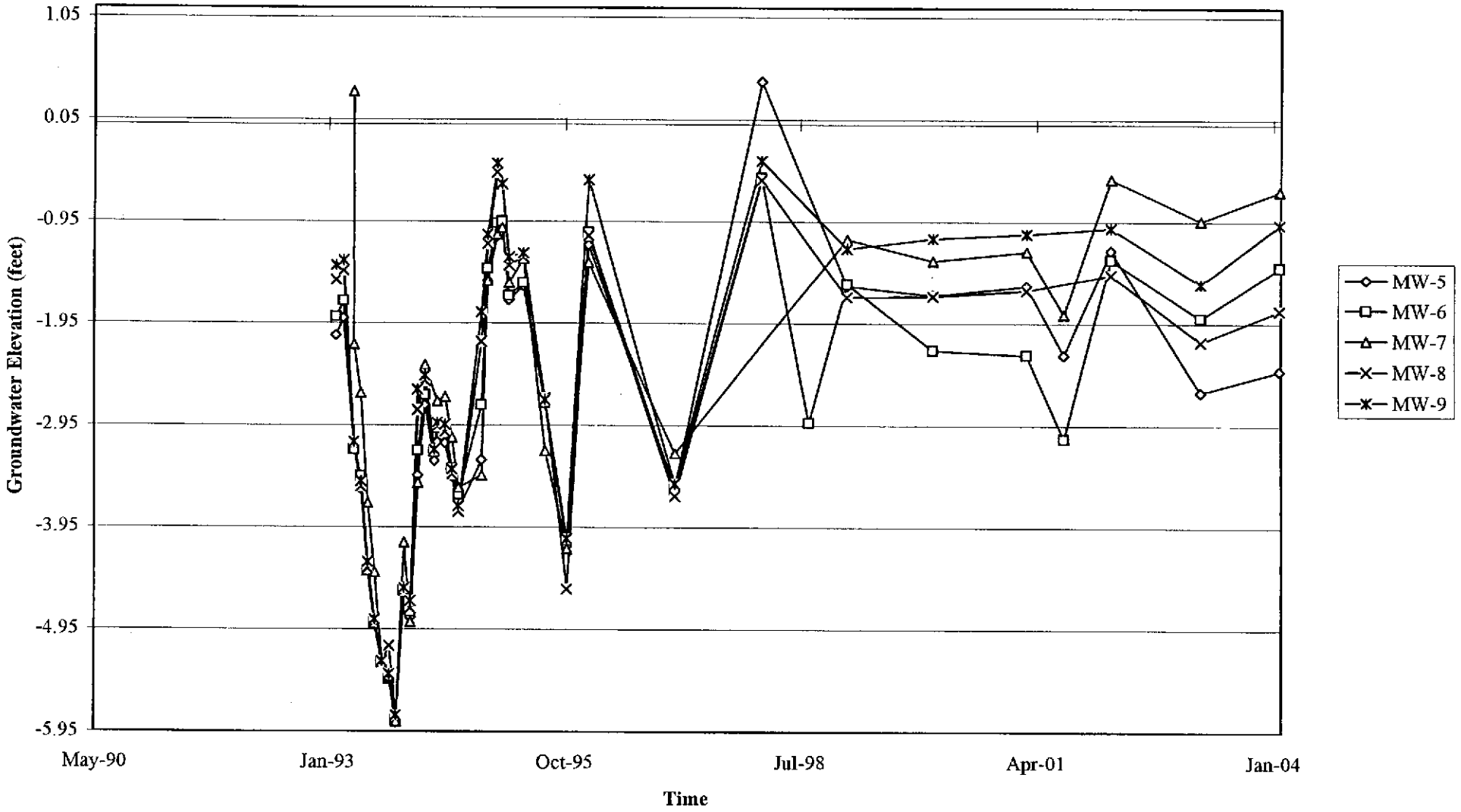
Graph 2
Benzene Concentrations vs. Time
76 Station 3135



Graph 3
Hydrograph
76 Station 3135



Graph 4
Hydrograph
76 Station 3135



GENERAL FIELD PROCEDURES

Groundwater Monitoring and Sampling Assignments

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

Fluid Level Measurements

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage, or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

Purging and Groundwater Parameter Measurement

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurement are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

Groundwater Sample Collection

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable, ½-inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designation, sample date, and the samplers initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

Sequence of Gauging, Purging, and Sampling

The sequence in which monitoring activities are conducted are specified on the TSR. In general, wells are gauged beginning with the least-affected well and ending with the well that has highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected well to the most-affected well.

Decontamination

In order to reduce the possibility of cross-contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated to a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

Exceptions

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, and noted on the site TSR, are documented in field notes on the following pages.

FIELD MONITORING DATA SHEET

Technician: HERNANDEZ Job #/Task #: 410500011 FA20 Date: 02/05/04

Site # 3135 Project Manager A. FARFAN Page 1 of 1

Well #	Grade	TOC	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-1		X	22.65	6.40	ø	ø	0426	2"
MW-2			22.50	4.65	ø	ø	0448	2"
MW-3			21.92	4.20	ø	ø	0512	2"
MW-4			21.10	5.30	ø	ø	0538	2"
MW-5			29.95	6.72	ø	ø	0606	2"
MW-6			25.65	5.45	ø	ø	0633	2"
MW-7			19.80	5.10	ø	ø	0658	2"
MW-8			23.50	6.25	ø	ø	0727	2"
MW-9			23.05	5.58	ø	ø	0757	2"
MW-10			23.02	5.32	ø	ø	0835	2"
MW-11			N/A	→	→	→	→	INACCESSABLE. NO one there to open gate in 6 Hours

FIELD DATA COMPLETE ✓ QA/QC COC WELL BOX CONDITION SHEETS ✓

WTT CERTIFICATE MANIFEST DRUM INVENTORY ✓ TRAFFIC CONTROL ✓

GROUNDWATER SAMPLING FIELD NOTES

Site: 3135 Project No.: 4105000.01/FA20 Date: 02/05/04 MH (1)

Well No. MW-1
Depth to Water (feet): 6.40
Total Depth (feet) 22.65
Water Column (feet): 16.25
80% Recharge Depth (feet): 9.65

Purge Method: Disp
Depth to Product (feet): 0
LPH & Water Recovered (gallons): 0
Casing Diameter (Inches): 2"
1 Well Volume (gallons): 3

Time Start	Time Stop	~~Depth~~ To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
0409		2.14	3	1.90	16.5	7.66
			6	1.99	16.9	7.72
	0415		9	2.04	17.0	7.89

Static at Time Sampled	Total Purged	Time Sampled
7.52	9 gal	0426

Comments:

Site:

Well No. MW-2
Depth to Water (feet): 4.65
Total Depth (feet) 22.50
Water Column (feet): 17.85
80% Recharge Depth (feet): 8.22

Project No.:
Purge Method: Disp
Depth to Product (feet): 0
LPH & Water Recovered (gallons): 0
Casing Diameter (Inches): 2"
1 Well Volume (gallons): 3

Time Start	Time Stop	~~Depth~~ To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
0433		1.32	3	772	16.4	7.43
			6	789	16.0	7.30
	0438		9	794	16.5	7.22

Static at Time Sampled	Total Purged	Time Sampled
7.11	9 gal	0448

Comments:

90 gallons

GROUNDWATER SAMPLING FIELD NOTES

Site: 3135 Project No.: 41050001/FA20 Date: 02/05/04

Well No. MW-3
Depth to Water (feet): 4.20
Total Depth (feet) 21.92
Water Column (feet): 17.72
80% Recharge Depth (feet): 7.74

Purge Method: DW
Depth to Product (feet): 0
LPH & Water Recovered (gallons): 0
Casing Diameter (Inches): 2"
1 Well Volume (gallons): 3

MA (2)

Time Start	Time Stop	~~Depth~~ To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
0456		2.16	3	1585	16.8	7.05
			6	1571	17.0	7.18
	0501		9	1560	17.3	7.32

Static at Time Sampled	Total Purged	Time Sampled
6.98	9 gal	0512

Comments:

Site: —
Project No.: —

Well No. MW-4
Depth to Water (feet): 5.30
Total Depth (feet) 21.10
Water Column (feet): 15.80
80% Recharge Depth (feet): 8.46

Purge Method: DW
Depth to Product (feet): 0
LPH & Water Recovered (gallons): 0
Casing Diameter (Inches): 2"
1 Well Volume (gallons): 3

Time Start	Time Stop	~~Depth~~ To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
0520		1.43	3	1351	16.9	8.09
			6	1340	17.07	8.14
	0527		9	1329	17.9	8.27

Static at Time Sampled	Total Purged	Time Sampled
7.64	9 gal	0538

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Site: 3135 Project No.: 410500D/FA20 Date: 02/05/04 MH

Well No. MW-5 (3)

Depth to Water (feet): 6.72
Total Depth (feet) 29.95
Water Column (feet): 23.23
80% Recharge Depth (feet): 11.36

Purge Method: Disp
Depth to Product (feet): 0
LPH & Water Recovered (gallons): 0
Casing Diameter (Inches): 2"
1 Well Volume (gallons): 4

Time Start	Time Stop	~~Depth To Water~~ (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
0547		1.47	4	1086	17.0	7.69
			8	1072	17.8	7.43
	0555		12	1069	18.1	7.34

Static at Time Sampled	Total Purged	Time Sampled
9.24	12 gal	0606

Comments:

Site: —

Project No: —

Well No. MW-6

Depth to Water (feet): 5.45
Total Depth (feet) 25.65
Water Column (feet): 20.20
80% Recharge Depth (feet): 9.49

Purge Method: Disp
Depth to Product (feet): 0
LPH & Water Recovered (gallons): 0
Casing Diameter (Inches): 2"
1 Well Volume (gallons): 3

Time Start	Time Stop	~~Depth To Water~~ (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
0617		1.72	3	1852	18.0	7.54
			6	1843	18.7	7.67
	0622		9	1831	18.9	~~7~~ 7.80

Static at Time Sampled	Total Purged	Time Sampled
6.83	9 gal	0633

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Site: 3135 Project No.: 41050001/FA20 Date: 02/05/04

Well No. MW-7
Depth to Water (feet): 5.10
Total Depth (feet) 19.80
Water Column (feet): 14.70
80% Recharge Depth (feet): 8.04

Purge Method: DW
Depth to Product (feet): 0
LPH & Water Recovered (gallons): 0
Casing Diameter (Inches): 2"
1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
0642		1.86	2	1160	18.9	7.58
			4	1149	19.0	7.69
	0646		6	1137	19.4	7.74

Static at Time Sampled	Total Purged	Time Sampled
7.63	6 gal	0658

Comments:

Site: —

Well No. MW-8
Depth to Water (feet): 6.25
Total Depth (feet) 23.50
Water Column (feet): 17.25
80% Recharge Depth (feet): 9.70

Project No.: —
Purge Method: DW
Depth to Product (feet): 0
LPH & Water Recovered (gallons): 0
Casing Diameter (Inches): 2"
1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
0710		2.07	3	688	19.9	7.13
			6	670	19.6	7.26
	0715		9	662	19.2	7.37

Static at Time Sampled	Total Purged	Time Sampled
8.10	9 gal	0727

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: HERNANDEZ

Site: 3135 Project No.: 4105000L FARO Date: 02/05/04

Well No.: MW-9 Purge Method: Dim (5)

Depth to Water (feet): 5.58 Depth to Product (feet): —

Total Depth (feet): 23.05 LPH & Water Recovered (gallons): 0

Water Column (feet): 17.47 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 9.07 1 Well Volume (gallons): 3'

Time Start	Time Stop	~~Depth To Water (feet)~~	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
0740		2.88	3	641	20.1	7.37		
			6	659	19.8	7.43		
					19.6			
	0745		9	674		7.68		

Static at Time Sampled	Total Gallons Purged	Time Sampled
8.01	9 gal	0757

Comments:

Well No.: MW-10 Purge Method: Dim

Depth to Water (feet): 5.32 Depth to Product (feet): 0

Total Depth (feet): 23.02 LPH & Water Recovered (gallons): 0

Water Column (feet): 17.70 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 8.86 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
0813			3	1127	20.2		7.23	2.81
			6	1134	20.8		2.39	
	0821		9	1149	21.0		7.57	

Static at Time Sampled	Total Gallons Purged	Time Sampled
8.01	9 gal	0835

Comments:

STATEMENT OF NON-COMPLETION OF JOB

DATE OF EVENT: 2/05/04 STATION NUMBER: 3135

NAME OF TECH: Hernandez CALLED GORDON: _____

CALLED PM: _____ NAME OF PM CALLED: Mike

WELL NUMBER: MW-11 STATEMENT FROM PM _____ OR TECH _____

Well was inaccessable WAS on site 6 Hours. No one was around to open the gate CE-Mailed Barbara Moed 2/21

WELL NUMBER: _____ STATEMENT FROM PM _____ OR TECH _____

WELL NUMBER: _____ STATEMENT FROM PM _____ OR TECH _____

WELL NUMBER: _____ STATEMENT FROM PM _____ OR TECH _____

PAGE _____

SEVERN TRENT STL

Submission#: 2004-02-0151

TRC Alton Geoscience

February 18, 2004

21 Technology Drive
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 41050001FA20
Project: Conoco Phillips #3135
Site: 845 66th Avenue, Oakland, CA

Attached is our report for your samples received on 02/05/2004 17:53
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 03/21/2004 unless you have requested otherwise.
We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.
You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,

Dimple Sharma
Project Manager

SEVERN TRENT STL

Submission #: 2004-02-0151

Dissolved Metals

TRC Alton Geoscience
Attn.: Anju Farfan

21 Technology Drive
Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	02/05/2004 04:26	Water	1
MW-2	02/05/2004 04:48	Water	2
MW-3	02/05/2004 05:12	Water	3
MW-4	02/05/2004 05:38	Water	4
MW-5	02/05/2004 06:06	Water	5
MW-6	02/05/2004 06:33	Water	6
MW-7	02/05/2004 06:58	Water	7
MW-8	02/05/2004 07:27	Water	8
MW-9	02/05/2004 07:57	Water	9
MW-10	02/05/2004 08:35	Water	10

Dissolved Metals

TRC Alton Geoscience
Attn.: Anju Farfan

21 Technology Drive
Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s):	3005A	Test(s):	6010B
Sample ID:	**MW-1**	Lab ID:	2004-02-0151 - 1
Sampled:	02/05/2004 04:26	Extracted:	2/6/2004 13:21
Matrix:	Water	QC Batch#:	2004/02/06-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	3.0	0.20	mg/L	1.00	02/06/2004 21:25	

Dissolved Metals

TRC Alton Geoscience
Attn.: Anju Farfan

21 Technology Drive
Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 3005A
Test(s): 6010B

Sample ID: **MW-2**
Lab ID: 2004-02-0151 - 2

Sampled: 02/05/2004 04:48
Extracted: 2/6/2004 13:21

Matrix: Water
QC Batch#: 2004/02/06-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	7.6	0.20	mg/L	1.00	02/06/2004 21:30	

Dissolved Metals

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive
Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 3005A
Test(s): 6010B

Sample ID: **MW-3**
Lab ID: 2004-02-0151 - 3

Sampled: 02/05/2004 05:12
Extracted: 2/6/2004 13:21

Matrix: Water
QC Batch#: 2004/02/06-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	7.3	0.20	mg/L	1.00	02/06/2004 21:34	

Dissolved Metals

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 3005A
Test(s): 6010B

Sample ID: **MW-4**
Lab ID: 2004-02-0151 - 4

Sampled: 02/05/2004 05:38
Extracted: 2/6/2004 13:21

Matrix: Water
QC Batch#: 2004/02/06-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	ND	0.20	mg/L	1.00	02/06/2004 21:38	

Dissolved Metals

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 3005A
Test(s): 6010B

Sample ID: **MW-5**
Lab ID: 2004-02-0151 - 5

Sampled: 02/05/2004 06:06
Extracted: 2/6/2004 16:40

Matrix: Water
QC Batch#: 2004/02/06-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	6.9	0.20	mg/L	1.00	02/06/2004 23:31	

Dissolved Metals

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Attn.: Anju Farfan

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Irvine, CA 92718
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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 3005A
Sample ID: **MW-6**
Sampled: 02/05/2004 06:33
Matrix: Water

Test(s): 6010B
Lab ID: 2004-02-0151 - 6
Extracted: 2/6/2004 16:40
QC Batch#: 2004/02/06-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	1.1	0.20	mg/L	1.00	02/06/2004 23:36	

Dissolved Metals

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 3005A
Test(s): 6010B

Sample ID: **MW-7**
Lab ID: 2004-02-0151 - 7

Sampled: 02/05/2004 06:58
Extracted: 2/6/2004 16:40

Matrix: Water
QC Batch#: 2004/02/06-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	2.6	0.20	mg/L	1.00	02/06/2004 23:40	

Dissolved Metals

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Irvine, CA 92718
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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 3005A
Sample ID: **MW-8**
Sampled: 02/05/2004 07:27
Matrix: Water

Test(s): 6010B
Lab ID: 2004-02-0151 - 8
Extracted: 2/6/2004 16:40
QC Batch#: 2004/02/06-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	ND	0.20	mg/L	1.00	02/06/2004 23:45	

Dissolved Metals

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 3005A
Sample ID: **MW-9**
Sampled: 02/05/2004 07:57
Matrix: Water

Test(s): 6010B
Lab ID: 2004-02-0151 - 9
Extracted: 2/6/2004 16:40
QC Batch#: 2004/02/06-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	ND	0.20	mg/L	1.00	02/07/2004 00:09	

Dissolved Metals

TRC Alton Geoscience
Attn.: Anju Farfan

21 Technology Drive
Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 3005A
Test(s): 6010B
Sample ID: **MW-10**
Lab ID: 2004-02-0151 - 10
Sampled: 02/05/2004 08:35
Extracted: 2/6/2004 16:40
Matrix: Water
QC Batch#: 2004/02/06-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Iron	ND	0.20	mg/L	1.00	02/07/2004 00:13	

Dissolved Metals

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Attn.: Anju Farfan

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Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Batch QC Report

Prep(s): 2340B
Test(s): 2340B

Method Blank **Water** **QC Batch # 2004/02/06-03.15**

MB: 2004/02/06-03.15-135
Date Extracted: 02/06/2004 13:21

Compound	Conc.	RL	Unit	Analyzed	Flag
Iron	ND	0.20	mg/L	02/06/2004 20:04	

Dissolved Metals

TRC Alton Geoscience
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Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Batch QC Report

Prep(s): 2340B
Method Blank
MB: 2004/02/06-05.15-164

Water

Test(s): 2340B
QC Batch # 2004/02/06-05.15
Date Extracted: 02/06/2004 16:40

Compound	Conc.	RL	Unit	Analyzed	Flag
Iron	ND	0.20	mg/L	02/06/2004 22:43	

Dissolved Metals

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Attn.: Anju Farfan

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Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Batch QC Report

Prep(s): 2340B
3005A

Test(s): 2340B
6010B

Laboratory Control Spike **Water** **QC Batch # 2004/02/06-03.15**

LCS 2004/02/06-03.15-136 Extracted: 02/06/2004 Analyzed: 02/06/2004 20:09
LCSD 2004/02/06-03.15-137 Extracted: 02/06/2004 Analyzed: 02/06/2004 20:13

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Iron	4.65	5.02	5.00	93.0	100.4	7.7	80-120	20		

Dissolved Metals

TRC Alton Geoscience
Attn.: Anju Farfan

21 Technology Drive
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Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Batch QC Report

Prep(s): 2340B
3005A

Test(s): 2340B
6010B

Laboratory Control Spike **Water** **QC Batch # 2004/02/06-05.15**

LCS 2004/02/06-05.15-165 Extracted: 02/06/2004 Analyzed: 02/06/2004 22:48
LCSD 2004/02/06-05.15-166 Extracted: 02/06/2004 Analyzed: 02/06/2004 22:52

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Iron	4.66	4.72	5.00	93.2	94.4	1.3	80-120	20		

SEVERN TRENT STL

Submission #: 2004-02-0151

Misc Anions by Ion Chromatograph

TRC Alton Geoscience
Attn.: Anju Farfan

21 Technology Drive
Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	02/05/2004 04:26	Water	1
MW-2	02/05/2004 04:48	Water	2
MW-3	02/05/2004 05:12	Water	3
MW-4	02/05/2004 05:38	Water	4
MW-5	02/05/2004 06:06	Water	5
MW-6	02/05/2004 06:33	Water	6
MW-7	02/05/2004 06:58	Water	7
MW-8	02/05/2004 07:27	Water	8
MW-9	02/05/2004 07:57	Water	9
MW-10	02/05/2004 08:35	Water	10

SEVERN TRENT STL

Submission #: 2004-02-0151

Misc Anions by Ion Chromatograph

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s):	300.0/9056	Test(s):	300.0/9056
Sample ID:	**MW-1**	Lab ID:	2004-02-0151 - 1
Sampled:	02/05/2004 04:26	Extracted:	2/6/2004 00:00
Matrix:	Water	QC Batch#:	2004/02/06-02.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	02/06/2004	
Sulfate	3.4	1.0	mg/L	1.00	02/06/2004	

Misc Anions by Ion Chromatograph

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 300.0/9056
Test(s): 300.0/9056

Sample ID: **MW-2**
Lab ID: 2004-02-0151 - 2

Sampled: 02/05/2004 04:48
Extracted: 2/6/2004 00:00

Matrix: Water
QC Batch#: 2004/02/06-02.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	02/06/2004	
Sulfate	26	1.0	mg/L	1.00	02/06/2004	

SEVERN TRENT STL

Submission #: 2004-02-0151

Misc Anions by Ion Chromatograph

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 300.0/9056
Test(s): 300.0/9056
Sample ID: **MW-3**
Lab ID: 2004-02-0151 - 3
Sampled: 02/05/2004 05:12
Extracted: 2/6/2004 00:00
Matrix: Water
QC Batch#: 2004/02/06-02.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	02/06/2004	
Sulfate	68	10	mg/L	10.00	02/06/2004	

Misc Anions by Ion Chromatograph

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s):	300.0/9056	Test(s):	300.0/9056
Sample ID:	**MW-4**	Lab ID:	2004-02-0151 - 4
Sampled:	02/05/2004 05:38	Extracted:	2/6/2004 00:00
Matrix:	Water	QC Batch#:	2004/02/06-02.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	02/06/2004	
Sulfate	25	1.0	mg/L	1.00	02/06/2004	

Misc Anions by Ion Chromatograph

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s):	300.0/9056	Test(s):	300.0/9056
Sample ID:	**MW-5**	Lab ID:	2004-02-0151 - 5
Sampled:	02/05/2004 06:06	Extracted:	2/6/2004 00:00
Matrix:	Water	QC Batch#:	2004/02/06-02.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	02/06/2004	
Sulfate	33	1.0	mg/L	1.00	02/06/2004	

Misc Anions by Ion Chromatograph

TRC Alton Geoscience

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Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 300.0/9056
Test(s): 300.0/9056

Sample ID: **MW-6**
Lab ID: 2004-02-0151 - 6

Sampled: 02/05/2004 06:33
Extracted: 2/6/2004 00:00

Matrix: Water
QC Batch#: 2004/02/06-02.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	02/06/2004	
Sulfate	ND	1.0	mg/L	1.00	02/06/2004	

Misc Anions by Ion Chromatograph

TRC Alton Geoscience

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s):	300.0/9056	Test(s):	300.0/9056
Sample ID:	**MW-7**	Lab ID:	2004-02-0151 - 7
Sampled:	02/05/2004 06:58	Extracted:	2/6/2004 00:00
Matrix:	Water	QC Batch#:	2004/02/06-02.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	02/06/2004	
Sulfate	31	1.0	mg/L	1.00	02/06/2004	

Misc Anions by Ion Chromatograph

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s):	300.0/9056	Test(s):	300.0/9056
Sample ID:	**MW-8**	Lab ID:	2004-02-0151 - 8
Sampled:	02/05/2004 07:27	Extracted:	2/6/2004 00:00
Matrix:	Water	QC Batch#:	2004/02/06-02.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	02/06/2004	
Sulfate	46	1.0	mg/L	1.00	02/06/2004	

Misc Anions by Ion Chromatograph

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s):	300.0/9056	Test(s):	300.0/9056
Sample ID:	**MW-9**	Lab ID:	2004-02-0151 - 9
Sampled:	02/05/2004 07:57	Extracted:	2/6/2004 00:00
Matrix:	Water	QC Batch#:	2004/02/06-02.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	02/06/2004	
Sulfate	32	1.0	mg/L	1.00	02/06/2004	

Misc Anions by Ion Chromatograph

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s):	300.0/9056	Test(s):	300.0/9056
Sample ID:	**MW-10**	Lab ID:	2004-02-0151 - 10
Sampled:	02/05/2004 08:35	Extracted:	2/6/2004 00:00
Matrix:	Water	QC Batch#:	2004/02/06-02.41

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Nitrate	ND	1.0	mg/L	1.00	02/06/2004	
Sulfate	45	1.0	mg/L	1.00	02/06/2004	

Misc Anions by Ion Chromatograph

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Batch QC Report

Prep(s): 300.0/9056 Test(s): 300.0/9056

Method Blank **Water** **QC Batch # 2004/02/06-02.41**

MB: 2004/02/06-02.41-001 Date Extracted: 02/06/2004

Compound	Conc.	RL	Unit	Analyzed	Flag
Nitrate	ND	1.0	mg/L	02/06/2004	
Sulfate	ND	1.0	mg/L	02/06/2004	

Misc Anions by Ion Chromatograph

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Batch QC Report

Prep(s): 300.0/9056

Test(s): 300.0/9056

Laboratory Control Spike **Water** **QC Batch # 2004/02/06-02.41**

LCS 2004/02/06-02.41-002 Extracted: 02/06/2004 Analyzed: 02/06/2004
LCSD 2004/02/06-02.41-003 Extracted: 02/06/2004 Analyzed: 02/06/2004

Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Nitrate	19.2	20.0	20.0	96.0	100.0	4.1	80-120	20		
Sulfate	19.0	20.1	20.0	95.0	100.5	5.6	80-120	20		

SEVERN TRENT STL

Submission #: 2004-02-0151

Misc Anions by Ion Chromatograph

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Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Batch QC Report

Prep(s): 300.0/9056

Test(s): 300.0/9056

Matrix Spike (MS / MSD) **Water** **QC Batch # 2004/02/06-02.41**

MW-1 >> MS

Lab ID: 2004-02-0151 - 001

MS: 2004/02/06-02.41-004 Extracted: 02/06/2004

Analyzed: 02/06/2004

Dilution: 1.00

MSD: 2004/02/06-02.41-005 Extracted: 02/06/2004

Analyzed: 02/06/2004

Dilution: 1.00

Compound	Conc. mg/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	mg/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Nitrate	19.8	19.6	ND	20.0	99.0	98.0	1.0	80-120	20		
Sulfate	23.1	22.7	3.44	20.0	98.3	113.5	14.4	80-120	20		

SEVERN TRENT STL

Submission #: 2004-02-0151

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience
Attn.: Anju Farfan

21 Technology Drive
Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	02/05/2004 04:26	Water	1
MW-2	02/05/2004 04:48	Water	2
MW-3	02/05/2004 05:12	Water	3
MW-4	02/05/2004 05:38	Water	4
MW-5	02/05/2004 06:06	Water	5
MW-6	02/05/2004 06:33	Water	6
MW-7	02/05/2004 06:58	Water	7
MW-8	02/05/2004 07:27	Water	8
MW-9	02/05/2004 07:57	Water	9
MW-10	02/05/2004 08:35	Water	10

SEVERN TRENT STL

Submission #: 2004-02-0151

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience
Attn.: Anju Farfan

21 Technology Drive
Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 5030B
Sample ID: **MW-1**
Sampled: 02/05/2004 04:26
Matrix: Water

Test(s): 8260FAB
Lab ID: 2004-02-0151 - 1
Extracted: 2/14/2004 15:30
QC Batch#: 2004/02/14-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	600	50	ug/L	1.00	02/14/2004 15:30	
Benzene	ND	0.50	ug/L	1.00	02/14/2004 15:30	
Toluene	ND	0.50	ug/L	1.00	02/14/2004 15:30	
Ethylbenzene	ND	0.50	ug/L	1.00	02/14/2004 15:30	
Total xylenes	2.7	1.0	ug/L	1.00	02/14/2004 15:30	
Methyl tert-butyl ether (MTBE)	36	2.0	ug/L	1.00	02/14/2004 15:30	
Ethanol	ND	500	ug/L	1.00	02/14/2004 15:30	
Surrogate(s)						
Toluene-d8	101.3	88-110	%	1.00	02/14/2004 15:30	
1,2-Dichloroethane-d4	94.3	76-114	%	1.00	02/14/2004 15:30	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience
Attn.: Anju Farfan

21 Technology Drive
Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-2**	Lab ID:	2004-02-0151 - 2
Sampled:	02/05/2004 04:48	Extracted:	2/16/2004 11:25
Matrix:	Water	QC Batch#:	2004/02/16-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/16/2004 11:25	
Benzene	ND	0.50	ug/L	1.00	02/16/2004 11:25	
Toluene	ND	0.50	ug/L	1.00	02/16/2004 11:25	
Ethylbenzene	ND	0.50	ug/L	1.00	02/16/2004 11:25	
Total xylenes	ND	1.0	ug/L	1.00	02/16/2004 11:25	
Methyl tert-butyl ether (MTBE)	10	2.0	ug/L	1.00	02/16/2004 11:25	
Ethanol	ND	500	ug/L	1.00	02/16/2004 11:25	
Surrogate(s)						
Toluene-d8	92.4	88-110	%	1.00	02/16/2004 11:25	
1,2-Dichloroethane-d4	105.0	76-114	%	1.00	02/16/2004 11:25	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-3**	Lab ID:	2004-02-0151 - 3
Sampled:	02/05/2004 05:12	Extracted:	2/14/2004 16:14
Matrix:	Water	QC Batch#:	2004/02/14-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/14/2004 16:14	
Benzene	ND	0.50	ug/L	1.00	02/14/2004 16:14	
Toluene	ND	0.50	ug/L	1.00	02/14/2004 16:14	
Ethylbenzene	ND	0.50	ug/L	1.00	02/14/2004 16:14	
Total xylenes	ND	1.0	ug/L	1.00	02/14/2004 16:14	
Methyl tert-butyl ether (MTBE)	11	2.0	ug/L	1.00	02/14/2004 16:14	
Ethanol	ND	500	ug/L	1.00	02/14/2004 16:14	
Surrogate(s)						
Toluene-d8	100.4	88-110	%	1.00	02/14/2004 16:14	
1,2-Dichloroethane-d4	91.6	76-114	%	1.00	02/14/2004 16:14	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 5030B
Sample ID: **MW-4**
Sampled: 02/05/2004 05:38
Matrix: Water

Test(s): 8260FAB
Lab ID: 2004-02-0151 - 4
Extracted: 2/14/2004 16:36
QC Batch#: 2004/02/14-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/14/2004 16:36	
Benzene	ND	0.50	ug/L	1.00	02/14/2004 16:36	
Toluene	ND	0.50	ug/L	1.00	02/14/2004 16:36	
Ethylbenzene	ND	0.50	ug/L	1.00	02/14/2004 16:36	
Total xylenes	ND	1.0	ug/L	1.00	02/14/2004 16:36	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	02/14/2004 16:36	
Ethanol	ND	500	ug/L	1.00	02/14/2004 16:36	
Surrogate(s)						
Toluene-d8	100.9	88-110	%	1.00	02/14/2004 16:36	
1,2-Dichloroethane-d4	98.8	76-114	%	1.00	02/14/2004 16:36	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 5030B
Sample ID: **MW-5**
Sampled: 02/05/2004 06:06
Matrix: Water

Test(s): 8260FAB
Lab ID: 2004-02-0151 - 5
Extracted: 2/14/2004 16:58
QC Batch#: 2004/02/14-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/14/2004 16:58	
Benzene	ND	0.50	ug/L	1.00	02/14/2004 16:58	
Toluene	ND	0.50	ug/L	1.00	02/14/2004 16:58	
Ethylbenzene	ND	0.50	ug/L	1.00	02/14/2004 16:58	
Total xylenes	ND	1.0	ug/L	1.00	02/14/2004 16:58	
Methyl tert-butyl ether (MTBE)	2.7	2.0	ug/L	1.00	02/14/2004 16:58	
Ethanol	ND	500	ug/L	1.00	02/14/2004 16:58	
Surrogate(s)						
Toluene-d8	104.0	88-110	%	1.00	02/14/2004 16:58	
1,2-Dichloroethane-d4	94.8	76-114	%	1.00	02/14/2004 16:58	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 5030B
Sample ID: **MW-6**
Sampled: 02/05/2004 06:33
Matrix: Water
Analysis Flag: o (See Legend and Note Section)

Test(s): 8260FAB
Lab ID: 2004-02-0151 - 6
Extracted: 2/14/2004 17:20
QC Batch#: 2004/02/14-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	8400	500	ug/L	10.00	02/14/2004 17:20	
Benzene	100	5.0	ug/L	10.00	02/14/2004 17:20	
Toluene	12	5.0	ug/L	10.00	02/14/2004 17:20	
Ethylbenzene	770	5.0	ug/L	10.00	02/14/2004 17:20	
Total xylenes	980	10	ug/L	10.00	02/14/2004 17:20	
Methyl tert-butyl ether (MTBE)	270	20	ug/L	10.00	02/14/2004 17:20	
Ethanol	ND	5000	ug/L	10.00	02/14/2004 17:20	
Surrogate(s)						
Toluene-d8	96.4	88-110	%	10.00	02/14/2004 17:20	
1,2-Dichloroethane-d4	97.6	76-114	%	10.00	02/14/2004 17:20	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-7**	Lab ID:	2004-02-0151 - 7
Sampled:	02/05/2004 06:58	Extracted:	2/14/2004 17:43
Matrix:	Water	QC Batch#:	2004/02/14-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/14/2004 17:43	
Benzene	ND	0.50	ug/L	1.00	02/14/2004 17:43	
Toluene	ND	0.50	ug/L	1.00	02/14/2004 17:43	
Ethylbenzene	ND	0.50	ug/L	1.00	02/14/2004 17:43	
Total xylenes	ND	1.0	ug/L	1.00	02/14/2004 17:43	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	02/14/2004 17:43	
Ethanol	ND	500	ug/L	1.00	02/14/2004 17:43	
Surrogate(s)						
Toluene-d8	103.2	88-110	%	1.00	02/14/2004 17:43	
1,2-Dichloroethane-d4	94.2	76-114	%	1.00	02/14/2004 17:43	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 5030B
Sample ID: **MW-8**
Sampled: 02/05/2004 07:27
Matrix: Water

Test(s): 8260FAB
Lab ID: 2004-02-0151 - 8
Extracted: 2/16/2004 13:02
QC Batch#: 2004/02/16-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/16/2004 13:02	
Benzene	ND	0.50	ug/L	1.00	02/16/2004 13:02	
Toluene	ND	0.50	ug/L	1.00	02/16/2004 13:02	
Ethylbenzene	ND	0.50	ug/L	1.00	02/16/2004 13:02	
Total xylenes	ND	1.0	ug/L	1.00	02/16/2004 13:02	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	02/16/2004 13:02	
Ethanol	ND	500	ug/L	1.00	02/16/2004 13:02	
Surrogate(s)						
Toluene-d8	100.8	88-110	%	1.00	02/16/2004 13:02	
1,2-Dichloroethane-d4	103.0	76-114	%	1.00	02/16/2004 13:02	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	**MW-9**	Lab ID:	2004-02-0151 - 9
Sampled:	02/05/2004 07:57	Extracted:	2/14/2004 14:40
Matrix:	Water	QC Batch#:	2004/02/14-1C.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/14/2004 14:40	
Benzene	ND	0.50	ug/L	1.00	02/14/2004 14:40	
Toluene	ND	0.50	ug/L	1.00	02/14/2004 14:40	
Ethylbenzene	ND	0.50	ug/L	1.00	02/14/2004 14:40	
Total xylenes	ND	1.0	ug/L	1.00	02/14/2004 14:40	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	02/14/2004 14:40	
Ethanol	ND	500	ug/L	1.00	02/14/2004 14:40	
Surrogate(s)						
Toluene-d8	109.9	88-110	%	1.00	02/14/2004 14:40	
1,2-Dichloroethane-d4	107.1	76-114	%	1.00	02/14/2004 14:40	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Prep(s): 5030B
Sample ID: **MW-10**
Sampled: 02/05/2004 08:35
Matrix: Water
Analysis Flag: o (See Legend and Note Section)

Test(s): 8260FAB
Lab ID: 2004-02-0151 - 10
Extracted: 2/16/2004 13:26
QC Batch#: 2004/02/16-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	320	250	ug/L	5.00	02/16/2004 13:26	g
Benzene	ND	2.5	ug/L	5.00	02/16/2004 13:26	
Toluene	ND	2.5	ug/L	5.00	02/16/2004 13:26	
Ethylbenzene	ND	2.5	ug/L	5.00	02/16/2004 13:26	
Total xylenes	ND	5.0	ug/L	5.00	02/16/2004 13:26	
Methyl tert-butyl ether (MTBE)	300	10	ug/L	5.00	02/16/2004 13:26	
Ethanol	ND	2500	ug/L	5.00	02/16/2004 13:26	
Surrogate(s)						
Toluene-d8	103.3	88-110	%	5.00	02/16/2004 13:26	
1,2-Dichloroethane-d4	104.5	76-114	%	5.00	02/16/2004 13:26	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Batch QC Report

Prep(s): 5030B
Method Blank

Water

Test(s): 8260FAB
QC Batch # 2004/02/14-1A.64

MB: 2004/02/14-1A.64-042

Date Extracted: 02/14/2004 09:26

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/14/2004 09:26	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	02/14/2004 09:26	
Benzene	ND	0.5	ug/L	02/14/2004 09:26	
Toluene	ND	0.5	ug/L	02/14/2004 09:26	
Ethylbenzene	ND	0.5	ug/L	02/14/2004 09:26	
Total xylenes	ND	1.0	ug/L	02/14/2004 09:26	
Ethanol	ND	500	ug/L	02/14/2004 09:26	
Surrogates(s)					
1,2-Dichloroethane-d4	96.4	76-114	%	02/14/2004 09:26	
Toluene-d8	100.4	88-110	%	02/14/2004 09:26	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Method Blank

Water

QC Batch # 2004/02/14-1C.66

MB: 2004/02/14-1C.66-002

Date Extracted: 02/14/2004 10:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/14/2004 10:02	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	02/14/2004 10:02	
Benzene	ND	0.5	ug/L	02/14/2004 10:02	
Toluene	ND	0.5	ug/L	02/14/2004 10:02	
Ethylbenzene	ND	0.5	ug/L	02/14/2004 10:02	
Total xylenes	ND	1.0	ug/L	02/14/2004 10:02	
Ethanol	ND	500	ug/L	02/14/2004 10:02	
Surrogates(s)					
1,2-Dichloroethane-d4	101.6	76-114	%	02/14/2004 10:02	
Toluene-d8	106.0	88-110	%	02/14/2004 10:02	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2004/02/16-1B.66-000

Water

Test(s): 8260FAB
QC Batch # 2004/02/16-1B.66
Date Extracted: 02/16/2004 10:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/16/2004 10:00	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	02/16/2004 10:00	
Benzene	ND	0.5	ug/L	02/16/2004 10:00	
Toluene	ND	0.5	ug/L	02/16/2004 10:00	
Ethylbenzene	ND	0.5	ug/L	02/16/2004 10:00	
Total xylenes	ND	1.0	ug/L	02/16/2004 10:00	
Ethanol	ND	500	ug/L	02/16/2004 10:00	
Surrogates(s)					
1,2-Dichloroethane-d4	107.0	76-114	%	02/16/2004 10:00	
Toluene-d8	100.2	88-110	%	02/16/2004 10:00	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2004/02/14-1A.64**

LCS 2004/02/14-1A.64-041 Extracted: 02/14/2004 Analyzed: 02/14/2004 08:41
LCSD 2004/02/14-1A.64-043 Extracted: 02/14/2004 Analyzed: 02/14/2004 09:03

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.7	24.6	25	98.8	98.4	0.4	65-165	20		
Benzene	26.8	26.0	25	107.2	104.0	3.0	69-129	20		
Toluene	27.5	26.6	25	110.0	106.4	3.3	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	424	419	500	84.8	83.8		76-114			
Toluene-d8	499	508	500	99.8	101.6		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2004/02/14-1C.66**

LCS 2004/02/14-1C.66-014 Extracted: 02/14/2004 Analyzed: 02/14/2004 09:14
LCSD 2004/02/14-1C.66-038 Extracted: 02/14/2004 Analyzed: 02/14/2004 09:38

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	24.5	24.2	25	98.0	96.8	1.2	65-165	20		
Benzene	25.9	27.6	25	103.6	110.4	6.4	69-129	20		
Toluene	28.5	27.1	25	114.0	108.4	5.0	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	487	476	500	97.4	95.2		76-114			
Toluene-d8	537	531	500	107.4	106.2		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2004/02/16-1B.66**

LCS 2004/02/16-1B.66-011 Extracted: 02/16/2004 Analyzed: 02/16/2004 09:11
LCSD 2004/02/16-1B.66-035 Extracted: 02/16/2004 Analyzed: 02/16/2004 09:35

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	21.6	25.3	25	86.4	101.2	15.8	65-165	20		
Benzene	27.4	27.9	25	109.6	111.6	1.8	69-129	20		
Toluene	25.7	26.0	25	102.8	104.0	1.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	517	540	500	103.4	108.0		76-114			
Toluene-d8	536	524	500	107.2	104.8		88-110			

SEVERN TRENT STL

Submission #: 2004-02-0151

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips #3135

Received: 02/05/2004 17:53

Site: 845 66th Avenue, Oakland, CA

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

STL

STL San Francisco

Sample Receipt Checklist

Submission #:2004- 02 - 0151

Checklist completed by: (initials) DSH Date: 02/06/04

Courier name: ☑ STL San Francisco ☐ Client _____

Custody seals intact on shipping container/samples	Yes___ No___	Not Present ✓
Chain of custody present?	Yes ✓ No___	
Chain of custody signed when relinquished and received?	Yes ✓ No___	
Chain of custody agrees with sample labels?	Yes ✓ No___	
Samples in proper container/bottle?	Yes ✓ No___	
Sample containers intact?	Yes ✓ No___	
Sufficient sample volume for indicated test?	Yes ✓ No___	
All samples received within holding time?	Yes ✓ No___	
Container/Temp Blank temperature in compliance (4^0 C ± 2)?	Temp: 4.5°C Yes ✓ No___	
	Ice Present Yes ✓ No___	
Water - VOA vials have zero headspace?	No VOA vials submitted___ Yes ✓ No___	

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O)

Water - pH acceptable upon receipt? ☒ Yes ☐ No

☐ pH adjusted– Preservative used: ☐ HNO_3 ☐ HCl ☐ H_2SO_4 ☐ NaOH ☐ ZnOAc –Lot #(s) _____

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: ____/____/04

Client contacted: ☐ Yes ☐ No

Summary of discussion:

Corrective Action (per PM/Client):

2004-02-0151

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Chain Of Custody Record

82700

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS Attn: Dee Hutchinson 3611 South Harbor, Suite 200 Santa Ana, CA. 92704

ConocoPhillips Work Order Number

ConocoPhillips Cost Object

DATE: 02/05/04

PAGE: 1 of 1

SAMPLING COMPANY: TRC	Valid Value ID:	CONOCOPHILLIPS SITE NUMBER: 3135	GLOBAL ID NO.:
ADDRESS: 21 Technology Drive, Irvine CA 92618		SITE ADDRESS: (Street and City): 845 66th AVE Oakland CA	CONOCOPHILLIPS SITE MANAGER:
PROJECT CONTACT (Hardcopy or PDF Report to): Anju Farfan		RPF DELIVERABLE TO (RP or Designee): Peter Thomson, TRC pthomson@trcsolutions.com	PHONE NO.: 949-341-7408
TELEPHONE: 949-341-7440	FAX: 949-753-0111	E-MAIL: afarfan@trcsolutions.com	E-MAIL:
SAMPLER NAME(S) (Print): HERNANDEZ	CONSULTANT PROJECT NUMBER: 41050001/FA20		LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS): ☒ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

SAMPLES FOR FERROUS IRON HAVE BEEN FIELD FILTERED (NITRATE 48Hr Hold time)

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEXMBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEXMBE	Lead (Total) CSTLC DTCLP	TPHd by 8015M	BTEXMTBE/Ethanol by 8260B	Ferrous Iron	NITRATE	Sulfate
	MW-1	2/4/04	0926	GW	5									X	X	X	X	X
	MW-2		0948															
	MW-3		0912															
	MW-4		0938															
	MW-5		0906															
	MW-6		0933															
	MW-7		0958															
	MW-8		0727															
	MW-9		0757															
	MW-10		0855															

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

4.5 °C

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date: 2/5/04	Time: 1235
Relinquished by: (Signature) 2/5/04 1753	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) Naveed	Date: 2/5/04	Time: 1753

STATEMENTS

Purge Water Transport and Disposal

Non-hazardous groundwater produced during purging and sampling was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc., to the ConocoPhillips Refinery at Rodeo, California. Disposal at the Rodeo facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures – Water Quality and Compliance", as revised on February 7, 2003. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file at TRC's Concord Office. Purge water suspected of containing potentially hazardous material, such as liquid-phase hydrocarbons, was accumulated separately in a drum for transportation and disposal by Filter Recycling, Inc.

Limitations

The fluid level monitoring and groundwater sampling activities summarized in this report have been performed under the responsible charge of a California Registered Geologist or Registered Civil Engineer and have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.