fo231

TRC
Customer-Focused Solutions

April 14, 2004

ConocoPhillips Company
76 Broadway
Sacramento, California 95818

ATTN: MR. THOMAS H. KOSEL

SITE: 76 STATION 0752
800 HARRISON STREET
OAKLAND, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
JANUARY THROUGH MARCH 2004

Dear Mr. Kosel:

Please find enclosed our Quarterly Monitoring Report for 76 Station 0752, located at 800 Harrison Street, Oakland, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

For

Anju Farfan
QMS Operations Manager

CC: Mr. Barney Chan, Alameda County Health Care Services
Barbara Moed, TRC

Enclosures
20-0400/0752R02.QMS

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

TRC

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RO 231

June 15, 2004

TRC Project No. 42016201

DH

Barney Chan
Alameda County Health Services
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

RE: Quarterly Status Report - First Quarter 2004
76 Service Station #0752, 800 Harrison Street, Oakland, California
Alameda County

Dear Mr. Chan:

On behalf of ConocoPhillips Company (ConocoPhillips), TRC is submitting the First Quarter 2004 Quarterly Status Report for the subject site, shown on Figures 3 through 5.

PREVIOUS ASSESSMENTS

The subject site contains a 76 service station. The site is located northeast and across 8th Street from a Shell service station that is located adjacent to and northeast of a currently closed Arco service station. In addition, a gasoline and diesel service station referred to as "Mandarin Auto Service" is located east-southeast of the 76 service station.

November 1990: Kaprealian Engineering, Inc's. (KEI) initial fieldwork was conducted when two underground gasoline storage tanks and one waste oil tank were removed from the site. The tanks were made of steel, and no apparent holes or cracks were observed in the fuel tanks; however, one 1/8th-inch square hole was observed in the waste oil tank. KEI collected an additional soil sample from the fuel tank pit at a depth of approximately 19 feet below grade.

December 1990: KEI collected soil samples from beneath the pump islands. KEI also collected a sample from the pump island excavation.

January 1991: At the request of the Alameda County Health Care Services (ACHCS), KEI collected one additional soil sample from the waste oil tank pit. After sampling, the waste oil tank pit was excavated to the sample depth of 9.5 feet below grade.

May 1991: Three monitoring wells were installed and two exploratory borings were drilled at the site. The monitoring wells were installed to depths ranging from 33 to 35 feet below ground surface (bgs). The exploratory borings were each drilled to total depths of 23 feet bgs. Groundwater was encountered at depths ranging from about 22.5 to 24 feet bgs during drilling. Based on the analytical results, a monthly groundwater monitoring and quarterly groundwater sampling program was implemented.

1590 Solano Way, Suite A • Concord, California 94520
Telephone 925-688-1200 • Fax 925-688-0388

September-October 1992: Three additional monitoring wells were installed to further delineate the extent of groundwater contamination. These wells were drilled to total depths ranging from 32 to 33 feet bgs. Groundwater was encountered at depths ranging from 21.5 to 23 feet bgs.

April 1993: Two additional monitoring wells were installed in the vicinity of the site. These monitoring wells were drilled to a total depth of 31 to 33 feet bgs. Groundwater was encountered at depths of 21 to 21.5 feet bgs. Based on the analytical results of all of the soil samples collected, KEI concluded that the horizontal extent of the soil contamination at the site had been defined, and that the contamination was limited to the areas beneath the fuel tanks and the southernmost pump island. Based on the groundwater monitoring data collected and evaluated through April of 1993, the groundwater flow direction had been consistently to the southwest or south-southwest. In addition, no free product or sheen had been detected in any well through April of 1993. KEI recommended quarterly monitoring frequency.

October 2003: Site environmental consulting responsibilities were transferred to TRC.

SENSITIVE RECEPTORS

Lake Merritt and the Oakland Estuary are located approximately 0.5 miles from the site.

MONITORING AND SAMPLING

Currently, eight wells are monitored semiannually. All wells were sampled this quarter. The groundwater gradient and flow direction were 0.007 foot/foot to the southwest.

CHARACTERIZATION STATUS

Total purgeable petroleum hydrocarbons (TPPH) were detected in six of eight monitoring wells, with a maximum concentration of 8,000 micrograms per liter (µg/l) in MW-1.

Benzene was detected in six of eight monitoring wells, with a maximum concentration of 16 µg/l in MW-5.

MTBE was detected in eight monitoring wells, with a maximum concentration of 8,500 µg/l in MW-1.

REMEDIATION STATUS

Remediation is not currently being conducted at the site.

RECENT CORRESPONDENCE

No correspondence this quarter.

CURRENT QUARTER ACTIVITIES

February 4, 2004: TRC performed groundwater monitoring and sampling. Wastewater generated from well purging and equipment cleaning was stored at TRC's groundwater monitoring facility in Concord, California, and transported by Onyx to the ConocoPhillips Refinery in Rodeo, California, for treatment and disposal.

NEXT QUARTER ACTIVITIES

Await agency directives for additional assessment work, if any.

Continue semiannual monitoring and sampling to assess plume stability and concentration trends at key wells.

If you have any questions regarding this report, please call Roger Batra at (925) 688-2466.

Sincerely,

TRC

Roger Batra
Senior Project Manager

Barbara Moed, R.G.
Senior Project Geologist

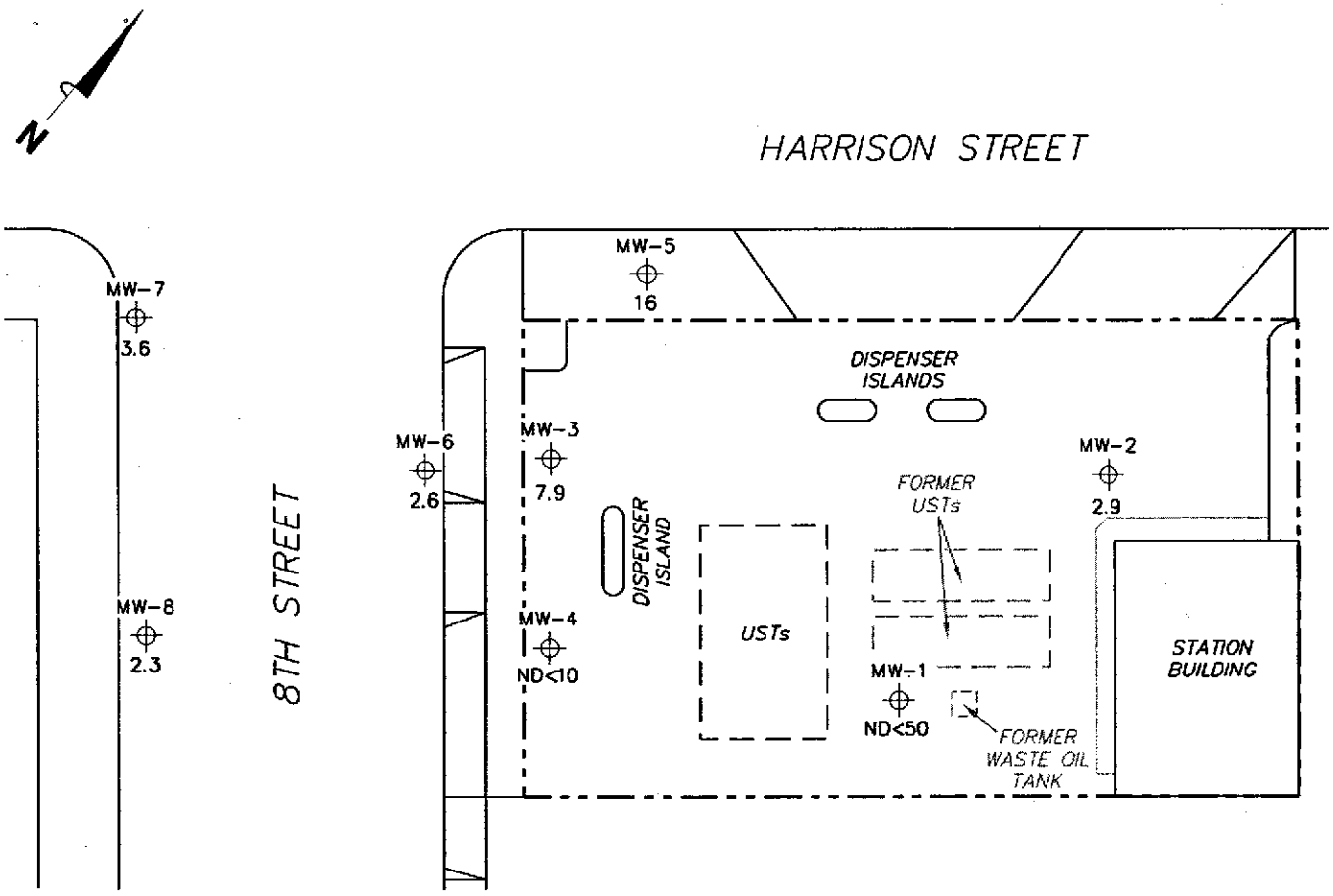
Attachments:

Figure 3 – Dissolved Phase TPPH Concentration Map, February 4, 2004, from First Quarter 2004 Fluid Level Monitoring and Sampling Report, dated April 14, 2004 by TRC.

Figure 4 – Dissolved Phase Benzene Concentration Map, February 4, 2004, from First Quarter 2004 Fluid Level Monitoring and Sampling Report, dated April 14, 2004 by TRC.

Figure 5 – Dissolved Phase MTBE Concentration Map, February 4, 2004, from First Quarter 2004 Fluid Level Monitoring and Sampling Report, dated April 14, 2004 by TRC.

cc: Thomas Kosel, ConocoPhillips (hard copy and electronic upload)



NOTES:

µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
UST = underground storage tank.

LEGEND

MW-8 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
February 4, 2004

76 Station 0752
800 Harrison Street
Oakland, California

TRC

SCALE (FEET)
0 30

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FIGURE 4

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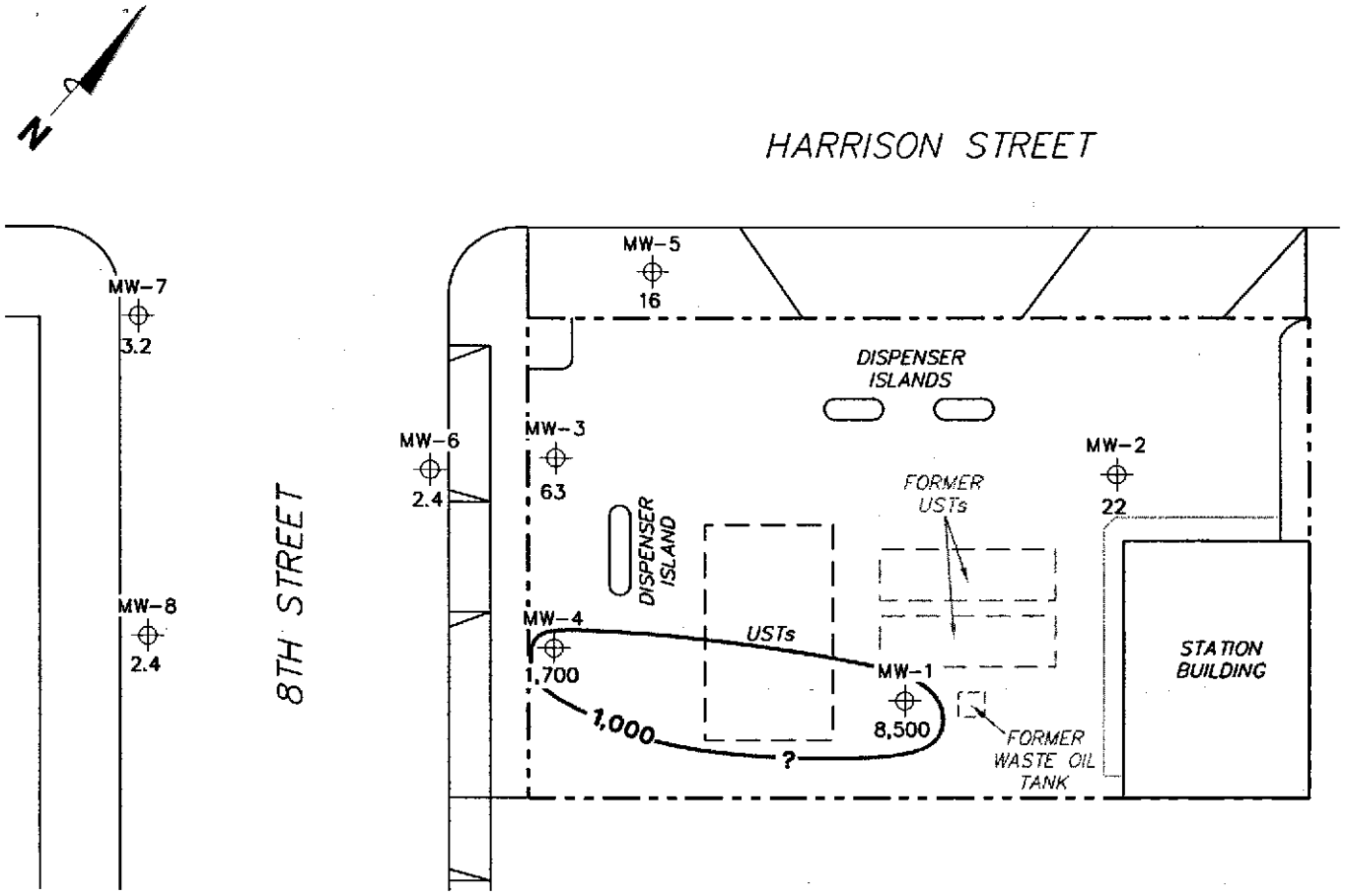

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. UST = underground storage tank. Results obtained using EPA Method 8260B.

LEGEND

MW-8 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

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

DISSOLVED-PHASE MTBE CONCENTRATION MAP
February 4, 2004

76 Station 0752
800 Harrison Street
Oakland, California

TRC

SCALE (FEET)
0 30

FIGURE 5

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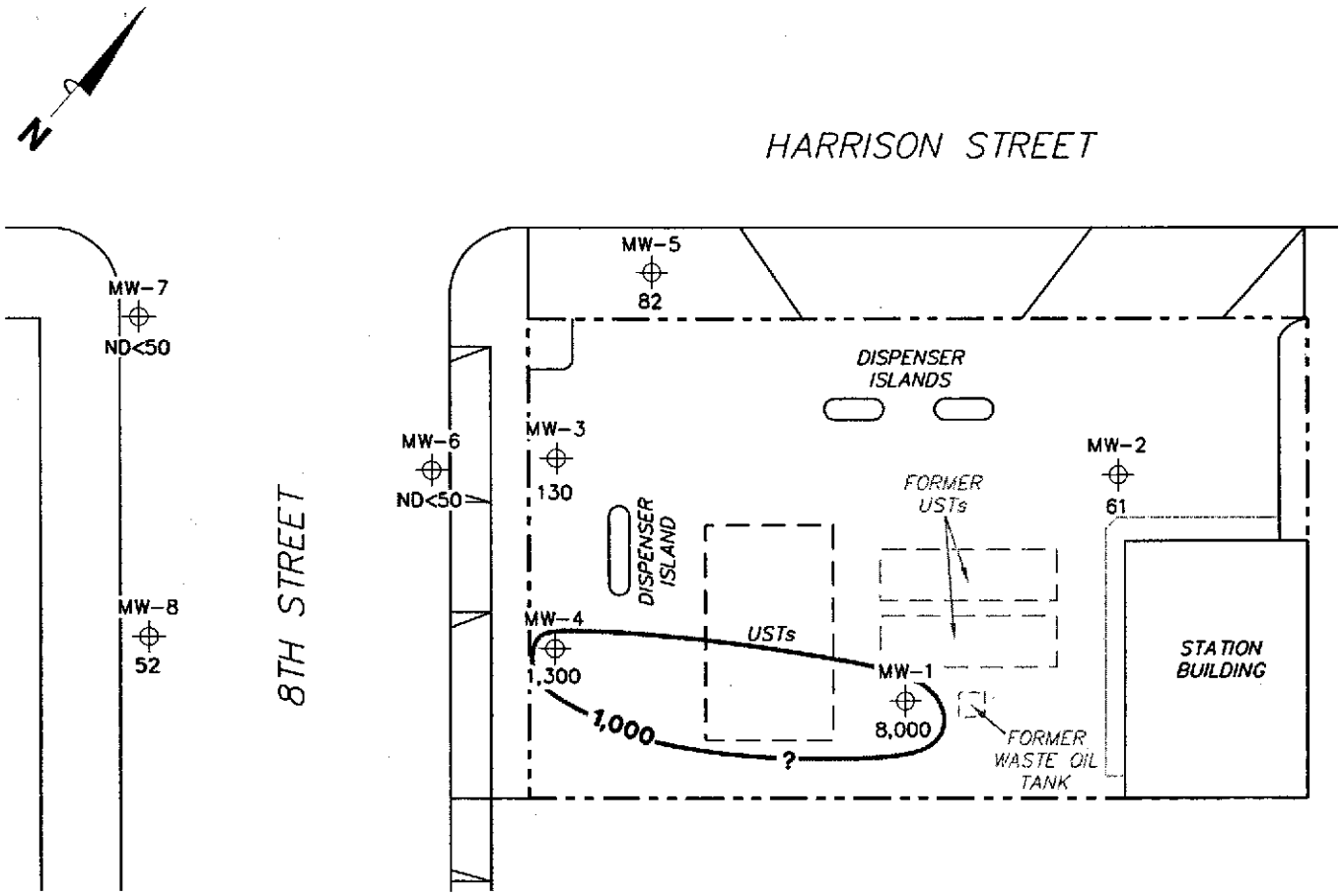

NOTES:

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. UST = underground storage tank. Results obtained using EPA Method 8260B.

LEGEND

MW-8 ⊕ Monitoring Well with Dissolved-Phase TPPH Concentration (µg/l)

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

DISSOLVED-PHASE TPPH CONCENTRATION MAP
February 4, 2004

76 Station 0752
800 Harrison Street
Oakland, California

TRC

SCALE (FEET)
0 30

PS=1:1

FIGURE 3

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TRC

Customer-Focused Solutions

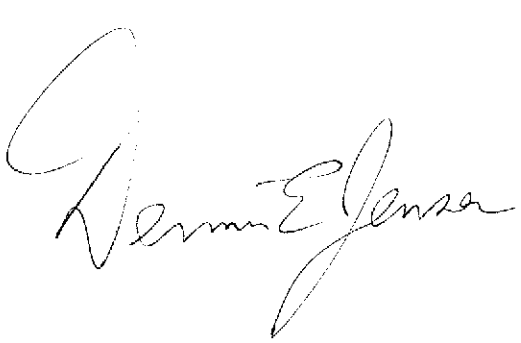
FIRST QUARTER 2004
FLUID LEVEL MONITORING AND
GROUNDWATER SAMPLING REPORT
April 14, 2004

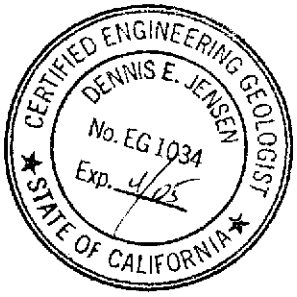
76 Station 0752
800 Harrison Street
Oakland, California

Prepared For:

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

By:





Senior Project Geologist, Irvine Operations

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Irvine, California 92618

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Summary of Gauging and Sampling Activities
January 2004 through March 2004
76 Station 0752
800 Harrison Street
Oakland, CA

Site Information:

Site:	76 Station 800 Harrison Street Oakland, CA
Project Coordinator/Phone Number:	Thomas H. Kosel/916-558-7666
Groundwater wells onsite:	4
Groundwater wells offsite:	4

Field Activity:

Sampling consultant:	TRC
Date(s) sampled:	2/04/04
Groundwater wells gauged:	8
Groundwater wells sampled:	8
Purging method:	submersible 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):	15.49
Maximum depth to groundwater (feet bgs):	17.98
Average groundwater elevation (feet relative to mean sea level):	16.73
Average change in groundwater elevations since previous event (feet):	0.13
Groundwater gradient and flow direction:	0.007 ft/ft, southwest

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

Wells with benzene concentrations below MCL:	2
Wells with benzene concentrations at or above MCL:	6
Minimum benzene concentration (µg/l):	ND
Maximum benzene concentration (µg/l):	16 (MW-5)
Minimum MTBE concentration (µg/l):	2.4
Maximum MTBE concentration (µg/l):	8500
Minimum TPPH concentration (µg/l):	ND
Maximum TPPH concentration (µg/l):	8000 (MW-1)
Groundwater wells with free product:	0
Minimum free product thickness (feet):	0
Maximum free product thickness (feet):	0

Additional Information:

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.

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 Table 3b: Summary of Additional Chemical Analysis Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPPH 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
Statement	Purge Water Transport and Disposal Limitations

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 0752 was provided Gettler-Ryan Inc, Dublin, California, in an excel table received in September 2003.

Table 1

SUMMARY OF GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS

February 4, 2004

76 Station 0752

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		**(Screen Interval in feet: 13.5-33.5)**												
2/4/04	34.69	17.98	0.00	16.71	-0.07	--	8000	ND<50	ND<50	ND<50	ND<100	--	8500	
MW-2		**(Screen Interval in feet: 15-33)**												
2/4/04	34.72	17.36	0.00	17.36	0.32	--	61	2.9	ND<0.50	ND<0.50	ND<1.0	--	22	
MW-3		**(Screen Interval in feet: 15-33)**												
2/4/04	33.14	16.15	0.00	16.99	--	--	130	7.9	ND<0.50	ND<0.50	ND<1.0	--	63	
MW-4		**(Screen Interval in feet: 15-33)**												
2/4/04	32.71	16.12	0.00	16.59	--	--	1300	ND<10	ND<10	ND<10	ND<20	--	1700	
MW-5		**(Screen Interval in feet: 15-32)**												
2/4/04	32.95	16.08	0.00	16.87	--	--	82	16	1.6	0.65	ND<1.0	--	16	
MW-6		**(Screen Interval in feet: 15-32)**												
2/4/04	32.16	15.49	0.00	16.67	--	--	ND<50	2.6	ND<0.50	ND<0.50	ND<1.0	--	2.4	
MW-7		**(Screen Interval in feet: 13-33)**												
2/4/04	32.20	15.90	0.00	16.30	--	--	ND<50	3.6	ND<0.50	ND<0.50	ND<1.0	--	3.2	
MW-8		**(Screen Interval in feet: 11-29)**												
2/4/04	32.00	15.65	0.00	16.35	--	--	52	2.3	ND<0.50	ND<0.50	ND<1.0	--	2.4	

Table 2

HISTORIC GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS

June 1991 Through February 2004

76 Station 0752

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	**(Screen Interval in feet: 13.5-33.5)**													
12/30/91	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
4/2/92	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
6/30/92	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
9/15/92	34.94	--	--	--	--	76	--	1.0	ND	ND	ND	--	--	
12/21/92	34.94	21.17	0.00	13.77	--	95	--	0.69	ND	ND	1.0	--	--	
4/28/93	34.94	--	--	--	--	920	--	3.1	2.3	1.2	9.7	--	--	
7/23/93	34.94	20.13	0.00	14.81	--	ND	--	0.5	0.66	ND	ND	--	--	
10/5/93	34.69	20.30	0.00	14.39	-0.42	92	--	1.5	ND	ND	0.72	--	--	
1/3/94	34.69	20.52	0.00	14.17	-0.22	ND	--	ND	ND	ND	ND	--	--	
4/2/94	34.69	20.16	0.00	14.53	0.36	ND	--	ND	ND	ND	ND	--	--	
7/5/94	34.69	19.27	0.00	15.42	0.89	250	--	4.8	13	1.2	7.3	--	--	
10/6/94	34.69	20.87	0.00	13.82	-1.60	540	--	1.4	ND	0.7	11	--	--	
1/2/95	34.69	19.67	0.00	15.02	1.20	140	--	ND	ND	ND	ND	--	--	
4/3/95	34.69	17.61	0.00	17.08	2.06	580	--	3.6	0.8	ND	4.0	--	--	
7/14/95	34.69	18.58	0.00	16.11	-0.97	260	--	2.1	ND	ND	1.2	--	--	
10/10/95	34.69	19.60	0.00	15.09	-1.02	220	--	2.0	ND	25	5.6	29	--	
1/3/96	34.69	19.69	0.00	15.00	-0.09	190	--	2.4	ND	0.7	1.2	--	--	
4/10/96	34.69	17.65	0.00	17.04	2.04	540	--	8.9	1.7	1.5	7.4	50	--	
7/9/96	34.69	18.52	0.00	16.17	-0.87	490	--	3.0	1.4	1.3	2.5	150	--	
1/24/97	34.69	17.72	0.00	16.97	0.80	760	--	27	0.9	5.2	10	510	--	
7/23/97	34.69	19.42	0.00	15.27	-1.70	ND	--	ND	ND	ND	ND	550	--	
1/26/98	34.69	17.46	0.00	17.23	1.96	1800	--	ND	ND	ND	ND	4800	--	
7/3/98	34.69	18.61	0.00	16.08	-1.15	ND	--	ND	ND	ND	ND	1800	--	
1/14/99	34.69	18.92	0.00	15.77	-0.31	83	--	ND	ND	ND	ND	230	--	
7/15/99	34.69	17.84	0.00	16.85	1.08	110	--	ND	ND	ND	1.0	290	--	

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														
1/7/00	34.69	19.13	0.00	15.56	-1.29	ND	--	ND	ND	ND	ND	260	--	
7/19/00	34.69	20.27	0.00	14.42	-1.14	ND	--	ND	ND	ND	ND	648	--	
1/2/01	34.69	20.04	0.00	14.65	0.23	ND	--	ND	ND	ND	ND	119	--	
5/23/01	34.69	18.27	0.00	16.42	1.77	84	--	ND	ND	ND	ND	760	--	
7/30/01	34.69	18.56	0.00	16.13	-0.29	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	350	--	
10/15/01	34.69	18.72	0.00	15.97	-0.16	96	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	160	--	
1/14/02	34.69	16.78	0.00	17.91	1.94	450	--	ND<2.5	ND<2.5	ND<2.5	3.3	4,100	--	
4/15/02	34.69	17.35	0.00	17.34	-0.57	ND<1,000	--	ND<10	ND<10	ND<10	ND<10	10,000	--	
7/15/02	34.69	17.63	0.00	17.06	-0.28	2,100	--	ND<10	ND<10	ND<10	ND<20	--	2,100	
1/18/03	34.69	17.04	0.00	17.65	0.59	ND<25,000	--	ND<250	ND<250	ND<250	ND<500	--	29,000	
7/11/03	34.69	17.91	0.00	16.78	-0.87	4000	--	ND<25	ND<25	ND<25	ND<50	--	6,300	
2/4/04	34.69	17.98	0.00	16.71	-0.07	--	8000	ND<50	ND<50	ND<50	ND<100	--	8500	
MW-2	**(Screen Interval in feet: 15-33)**													
6/5/91	34.97	--	--	--	--	49	--	ND	ND	ND	ND	--	--	
9/30/91	34.97	--	--	--	--	130	--	18	0.53	14	9.6	--	--	
12/30/91	34.97	--	--	--	--	91	--	16	0.89	11	1.9	--	--	
4/2/92	34.97	--	--	--	--	88	--	12	0.32	6.3	7.2	--	--	
6/30/92	34.97	--	--	--	--	76	--	9.3	0.76	4.8	6.9	--	--	
9/15/92	34.97	--	--	--	--	1300	--	91	5.7	80	110	--	--	
12/21/92	34.97	20.85	0.00	14.12	--	960	--	97	3.2	74	96	--	--	
4/28/93	34.97	--	--	--	--	1300	--	76	1.9	130	87	--	--	
7/23/93	34.97	19.81	0.00	15.16	--	66	--	1.8	ND	2.5	2.0	--	--	
10/5/93	34.72	19.95	0.00	14.77	-0.39	120	--	12	ND	2.1	12	--	--	
1/3/94	34.72	20.21	0.00	14.51	-0.26	260	--	25	ND	5.5	26	--	--	
4/2/94	34.72	19.88	0.00	14.84	0.33	ND	--	0.65	ND	ND	0.99	--	--	
7/5/94	34.72	19.07	0.00	15.65	0.81	160	--	16	ND	0.73	10	--	--	
10/6/94	34.72	20.55	0.00	14.17	-1.48	170	--	15	ND	1.4	11	--	--	
1/2/95	34.72	19.25	0.00	15.47	1.30	190	--	27	ND	0.95	11	--	--	
4/3/95	34.72	17.49	0.00	17.23	1.76	2400	--	65	6.6	19	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														
7/14/95	34.72	18.30	0.00	16.42	-0.81	750	--	270	ND	ND	13	--	--	
10/10/95	34.72	19.25	0.00	15.47	-0.95	50	--	1.6	ND	ND	ND	200	--	
1/3/96	34.72	19.40	0.00	15.32	-0.15	ND	--	ND	ND	ND	ND	--	--	
4/10/96	34.72	17.35	0.00	17.37	2.05	300	--	42	ND	2.4	9	620	--	
7/9/96	34.72	18.22	0.00	16.50	-0.87	760	--	230	ND	1.3	2.4	1500	--	
1/24/97	34.72	17.59	0.00	17.13	0.63	2900	--	400	350	190	720	1300	--	
7/23/97	34.72	19.13	0.00	15.59	-1.54	ND	--	ND	ND	ND	ND	65	--	
1/26/98	34.72	17.12	0.00	17.60	2.01	ND	--	ND	ND	ND	0.58	13	--	
7/3/98	34.72	18.20	0.00	16.52	-1.08	140	--	26	ND	0.95	5.0	330	--	
1/14/99	34.72	18.56	0.00	16.16	-0.36	ND	--	0.54	ND	ND	ND	350	--	
7/15/99	34.72	17.39	0.00	17.33	1.17	ND	--	0.88	ND	ND	ND	39	--	
1/7/00	34.72	18.78	0.00	15.94	-1.39	ND	--	ND	ND	ND	ND	24	--	
7/19/00	34.72	19.68	0.00	15.04	-0.90	ND	--	1.45	ND	ND	ND	117	--	
1/2/01	34.72	19.73	0.00	14.99	-0.05	ND	--	ND	ND	ND	ND	11.4	--	
5/23/01	34.72	18.16	0.00	16.56	1.57	ND	--	ND	ND	ND	ND	33	--	
7/30/01	34.72	18.34	0.00	16.38	-0.18	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	67	--	
10/15/01	34.72	18.52	0.00	16.20	-0.18	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	31	--	
1/14/02	34.72	16.72	0.00	18.00	1.80	ND<50	--	ND<0.50	ND<0.50	ND<0.50	0.56	11	--	
4/15/02	34.72	17.26	0.00	17.46	-0.54	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	110	--	
7/15/02	34.72	17.46	0.00	17.26	-0.20	270	--	21	ND<0.50	3.8	4.0	--	73	
1/18/03	34.72	16.93	0.00	17.79	0.53	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	22	
7/11/03	34.72	17.68	0.00	17.04	-0.75	130	--	3.0	ND<0.50	ND<0.50	ND<1.0	--	89	
2/4/04	34.72	17.36	0.00	17.36	0.32	--	61	2.9	ND<0.50	ND<0.50	ND<1.0	--	22	
MW-3	**(Screen Interval in feet: 15-33)**													
6/5/91	33.39	--	--	--	--	5800	--	1200	40	140	97	--	--	
9/30/91	33.39	--	--	--	--	6800	--	1400	130	290	240	--	--	
12/30/91	33.39	--	--	--	--	7200	--	2100	690	410	550	--	--	
4/2/92	33.39	--	--	--	--	8000	--	1400	200	300	310	--	--	
6/30/92	33.39	--	--	--	--	8900	--	1900	210	430	550	--	--	

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														
9/15/92	33.39	--	--	--	--	10000	--	1900	330	400	580	--	--	
12/21/92	33.39	20.02	0.00	13.37	--	8500	--	1500	150	310	330	--	--	
4/28/93	33.39	--	--	--	--	2600	--	220	7.6	41	27	--	--	
7/23/93	33.39	19.00	0.00	14.39	--	4400	--	660	26	160	82	--	--	
10/5/93	33.14	19.20	0.00	13.94	-0.45	9200	--	720	88	140	140	--	--	
1/3/94	33.14	19.40	0.00	13.74	-0.20	4900	--	830	100	170	150	--	--	
4/2/94	33.14	19.01	0.00	14.13	0.39	6000	--	800	30	140	110	--	--	
7/5/94	33.14	18.14	0.00	15.00	0.87	25000	--	ND	ND	ND	ND	--	--	
10/6/94	33.14	19.73	0.00	13.41	-1.59	49000	--	1300	200	280	300	--	--	
1/2/95	33.14	18.36	0.00	14.78	1.37	480	--	1.6	ND	1.4	ND	--	--	
4/3/95	33.14	16.38	0.00	16.76	1.98	8100	--	65	ND	ND	ND	--	--	
7/14/95	33.14	17.49	0.00	15.65	-1.11	ND	--	1300	ND	ND	ND	--	--	
10/10/95	33.14	18.50	0.00	14.64	-1.01	3100	--	1400	36	50	53	190000	--	
1/3/96	33.14	18.54	0.00	14.60	-0.04	ND	--	2300	110	150	140	--	--	
2/4/04	33.14	16.15	0.00	16.99	--	--	130	7.9	ND<0.50	ND<0.50	ND<1.0	--	63	
MW-4	**(Screen Interval in feet: 15-33)**													
2/4/04	32.71	16.12	0.00	16.59	--	--	1300	ND<10	ND<10	ND<10	ND<20	--	1700	
MW-5	**(Screen Interval in feet: 15-32)**													
2/4/04	32.95	16.08	0.00	16.87	--	--	82	16	1.6	0.65	ND<1.0	--	16	
MW-6	**(Screen Interval in feet: 15-32)**													
2/4/04	32.16	15.49	0.00	16.67	--	--	ND<50	2.6	ND<0.50	ND<0.50	ND<1.0	--	2.4	
MW-7	**(Screen Interval in feet: 13-33)**													
2/4/04	32.20	15.90	0.00	16.30	--	--	ND<50	3.6	ND<0.50	ND<0.50	ND<1.0	--	3.2	
MW-8	**(Screen Interval in feet: 11-29)**													
2/4/04	32.00	15.65	0.00	16.35	--	--	52	2.3	ND<0.50	ND<0.50	ND<1.0	--	2.4	

Table 3
SUMMARY OF ADDITIONAL CHEMICAL ANALYSIS RESULTS
76 Station 0752

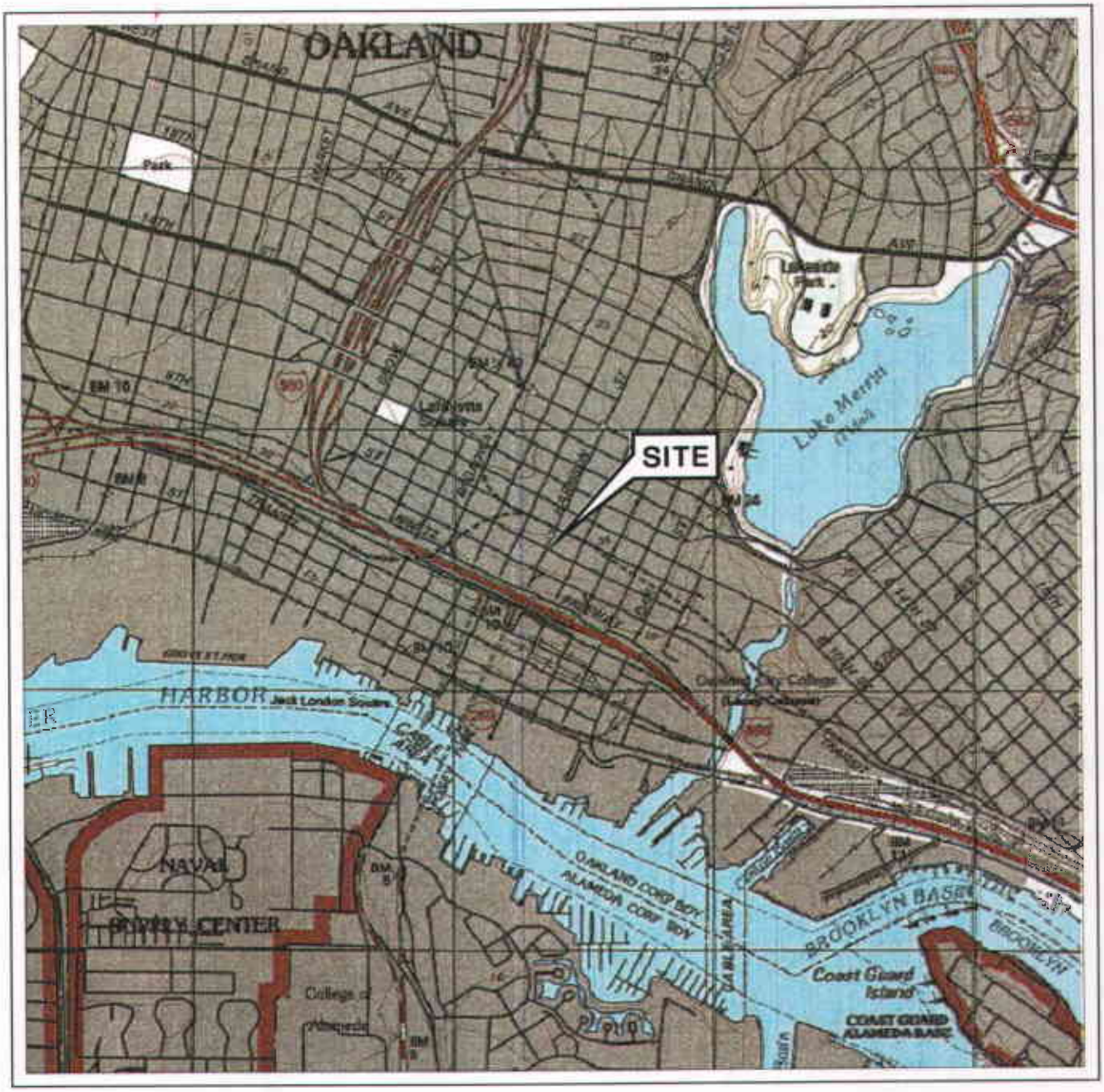
Date Sampled	TPH-D	PCE	Chloro-form	TCE	EDB	T-Lead	Pre-Purge DO	Post Purge DO	Sulfate	EDC	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Calcium
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)
MW-1															
12/30/1991	ND	2.1	6.4	0.9	--	0.0057	--	--	--	--	--	--	--	--	--
4/2/1992	94	2.6	7.1	1.4	--	0.016	--	--	--	--	--	--	--	--	--
6/30/1992	120	2.2	9.5	1.3	--	0.009	--	--	--	--	--	--	--	--	--
9/15/1992	ND	2.2	12	1.3	--	--	--	--	--	--	--	--	--	--	--
12/21/1992	ND	1.4	12	0.83	--	--	--	--	--	--	--	--	--	--	--
4/28/1993	470	0.89	12	0.85	--	--	--	--	--	--	--	--	--	--	--
7/23/1993	ND	1.3	16	0.91	--	--	--	--	--	--	--	--	--	--	--
10/5/1993	57	1.3	13	0.66	--	--	--	--	--	--	--	--	--	--	--
1/3/1994	ND	1.4	18	0.93	--	--	--	--	--	--	--	--	--	--	--
4/2/1994	ND	1.1	15	0.68	--	--	--	--	--	--	--	--	--	--	--
4/10/1996	--	--	--	--	--	--	--	3.04	--	--	--	--	--	--	21
7/9/1996	--	--	--	--	--	--	--	3.13	--	--	--	--	--	--	--
1/24/1997	--	--	--	--	--	--	--	2.56	--	--	--	--	--	--	--
7/23/1997	--	--	--	--	--	--	2.26	2.81	--	--	--	--	--	--	--
1/26/1998	--	--	--	--	--	--	3.97	--	--	--	--	--	--	--	--
7/3/1998	--	--	--	--	--	--	3.58	--	--	--	--	--	--	--	--
7/15/2002	--	--	--	--	ND<0.5	--	--	--	--	ND<0.5	ND<0.5	ND<5.0	ND<1.0	ND<0.5	--
7/11/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	ND<10000	--	--	--
MW-2															
1/3/1996	--	--	--	--	--	--	--	1.80	97	--	--	--	--	--	27
4/10/1996	--	--	--	--	--	--	--	5.88	--	--	--	--	--	--	58
7/9/1996	--	--	--	--	--	--	--	0.71	--	--	--	--	--	--	--
1/24/1997	--	--	--	--	--	--	--	2.37	--	--	--	--	--	--	--
7/23/1997	--	--	--	--	--	--	1.40	0.97	--	--	--	--	--	--	--
1/26/1998	--	--	--	--	--	--	4.12	--	--	--	--	--	--	--	--

Date Sampled	TPH-D	PCE	Chloro-form	TCE	EDB	T-Lead	Pre-Purge DO	Post Purge DO	Sulfate	EDC	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	Calcium
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mg/l)
MW-2 continued															
7/3/1998	--	--	--	--	--	--	3.99	--	--	--	--	--	--	--	--
7/11/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	ND<100	--	--	--
MW-3															
1/3/1996	--	--	--	--	--	--	--	1.50	16	--	--	--	--	--	43
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	ND<100	--	--	--
MW-4															
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	ND<2000	--	--	--
MW-5															
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	ND<100	--	--	--
MW-6															
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	ND<100	--	--	--
MW-7															
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	ND<100	--	--	--
MW-8															
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	ND<100	--	--	--

Table 3b
SUMMARY OF ADDITIONAL CHEMICAL ANALYSIS RESULTS
76 Station 0752

Date Sampled	Mang	Zinc	Ethanol 8260B	Nickel	Cadmium	Chromium	BOD	Nitrate	TOG	T-Iron	B-Alkalinity	1,2 DCE
	(mg/l)	(mg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(µg/l)
MW-1												
12/30/1991	--	0.046	--	ND	ND	0.0078	--	--	ND	--	--	--
4/2/1992	--	0.02	--	ND	ND	0.015	--	--	ND	--	--	--
6/30/1992	--	0.087	--	0.1	ND	0.079	--	--	ND	--	--	--
9/15/1992	--	--	--	--	--	--	--	--	--	--	--	--
12/21/1992	--	--	--	--	--	--	--	--	--	--	--	--
4/28/1993	--	--	--	--	--	--	--	--	--	--	--	1.1
7/23/1993	--	--	--	--	--	--	--	--	--	--	--	--
10/5/1993	--	--	--	--	--	--	--	--	--	--	--	--
1/3/1994	--	--	--	--	--	--	--	--	--	--	--	--
4/2/1994	--	--	--	--	--	--	--	--	--	--	--	--
4/10/1996	2.6	--	--	--	--	--	--	--	--	15	160	--
7/9/1996	--	--	--	--	--	--	--	--	--	--	--	--
1/24/1997	--	--	--	--	--	--	--	--	--	--	--	--
7/23/1997	--	--	--	--	--	--	--	--	--	--	--	--
1/26/1998	--	--	--	--	--	--	--	--	--	--	--	--
7/3/1998	--	--	--	--	--	--	--	--	--	--	--	--
7/15/2002	--	--	ND<25	--	--	--	--	--	--	--	--	--
7/11/2003	--	--	ND<25,000	--	--	--	--	--	--	--	--	--
2/4/2004	--	--	ND<50000	--	--	--	--	--	--	--	--	--
MW-2												
1/3/1996	3.0	--	--	--	--	--	2.2	0.22	--	77	130	--
4/10/1996	7.0	--	--	--	--	--	--	--	--	60	460	--
7/9/1996	--	--	--	--	--	--	--	--	--	--	--	--
1/24/1997	--	--	--	--	--	--	--	--	--	--	--	--
7/23/1997	--	--	--	--	--	--	--	--	--	--	--	--
1/26/1998	--	--	--	--	--	--	--	--	--	--	--	--

Date Sampled	Mang	Zinc	Ethanol 8260B	Nickel	Cadmium	Chromium	BOD	Nitrate	TOG	T-Iron	B-Alkalinity	1,2 DCE
	(mg/l)	(mg/l)	(µg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(µg/l)
MW-2 continued												
7/3/1998	--	--	--	--	--	--	--	--	--	--	--	--
7/11/2003	--	--	ND<500	--	--	--	--	--	--	--	--	--
2/4/2004	--	--	ND<500	--	--	--	--	--	--	--	--	--
MW-3												
1/3/1996	--	--	--	--	--	--	--	--	--	--	--	--
2/4/2004	--	--	ND<500	--	--	--	--	--	--	--	--	--
MW-4												
2/4/2004	--	--	ND<10000	--	--	--	--	--	--	--	--	--
MW-5												
2/4/2004	--	--	ND<500	--	--	--	--	--	--	--	--	--
MW-6												
2/4/2004	--	--	ND<500	--	--	--	--	--	--	--	--	--
MW-7												
2/4/2004	--	--	ND<500	--	--	--	--	--	--	--	--	--
MW-8												
2/4/2004	--	--	ND<500	--	--	--	--	--	--	--	--	--



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 East & Oakland West
Quadrangles

VICINITY MAP

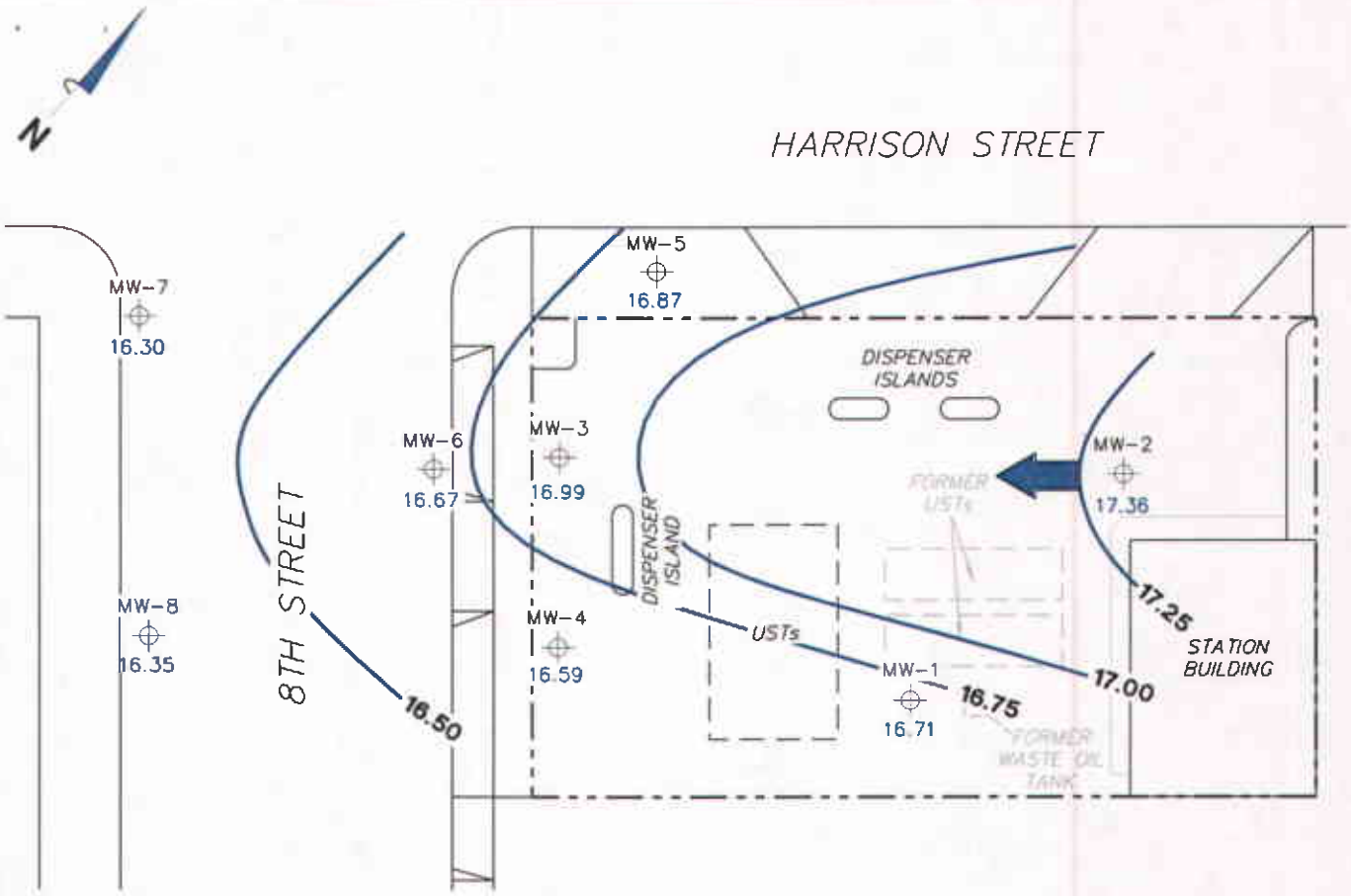
76 Station 0752
800 Harrison Street
Oakland, California

TRC

FIGURE 1

PS = 1:1

Graphics on Irvine-fs1(L:)\VICINITY MAPS\0752vm.dwg 3/2/04 jrw



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank.

LEGEND

MW-8 ⊕ Monitoring Well with Groundwater Elevation (feet)

17.25 —— Groundwater Elevation Contour

➡ General Direction of Groundwater Flow

GROUNDWATER ELEVATION CONTOUR MAP
February 4, 2003

76 Station 0752
800 Harrison Street
Oakland, California

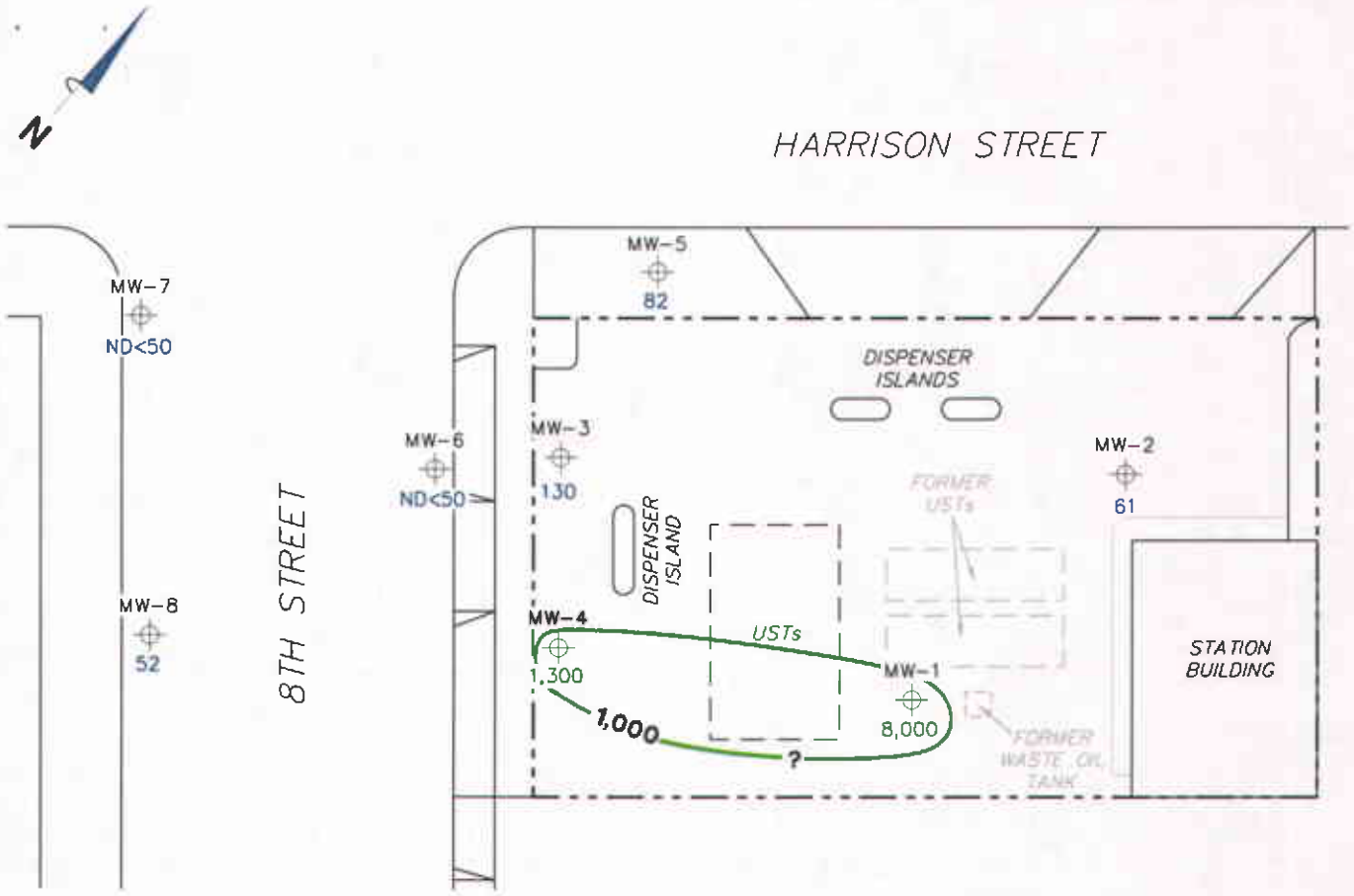
TRC

SCALE (FEET)
0 30

PS=1:1

FIGURE 2

Graphics on Irvine-fs1(L:)\Graphics\Projects By...\20-xxxx\20-0400\x-0000\0752+\0752gms.dwg 3/4/04 bbs



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. UST = underground storage tank. Results obtained using EPA Method 8260B.

LEGEND

MW-8 ⊕ Monitoring Well with Dissolved-Phase TPPH Concentration (µg/l)

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

DISSOLVED-PHASE TPPH CONCENTRATION MAP
February 4, 2004

76 Station 0752
800 Harrison Street
Oakland, California

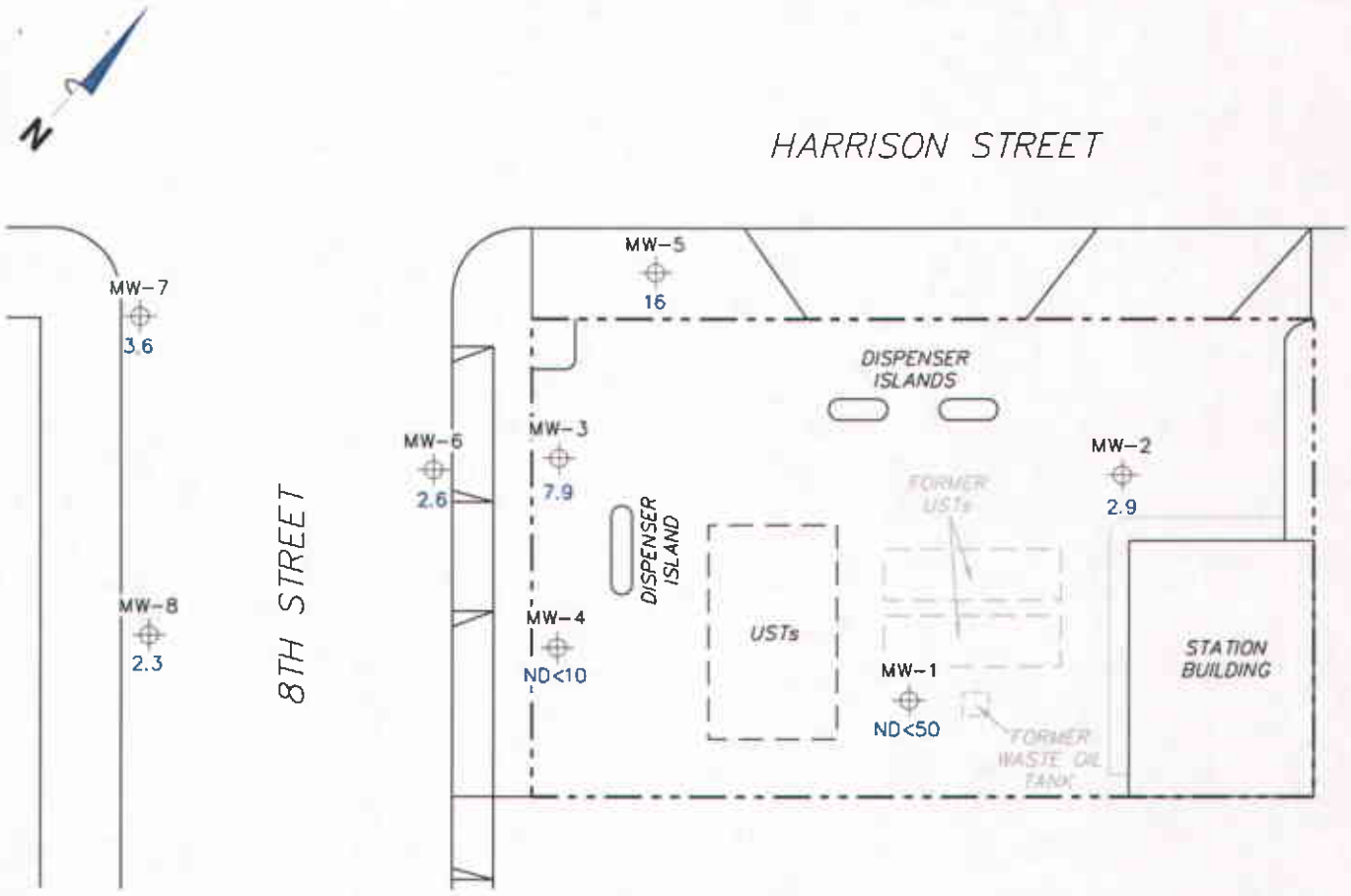
TRC

SCALE (FEET)
0 30

PS=1:1

FIGURE 3

Graphics on Irvine-fs1(L:)\Graphics\Projects By...\20-xxxx\20-0400\x-0000\0752+\0752qms.dwg 3/4/04 bbs



NOTES:

µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
UST = underground storage tank.

LEGEND

MW-8 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
February 4, 2004

76 Station 0752
800 Harrison Street
Oakland, California

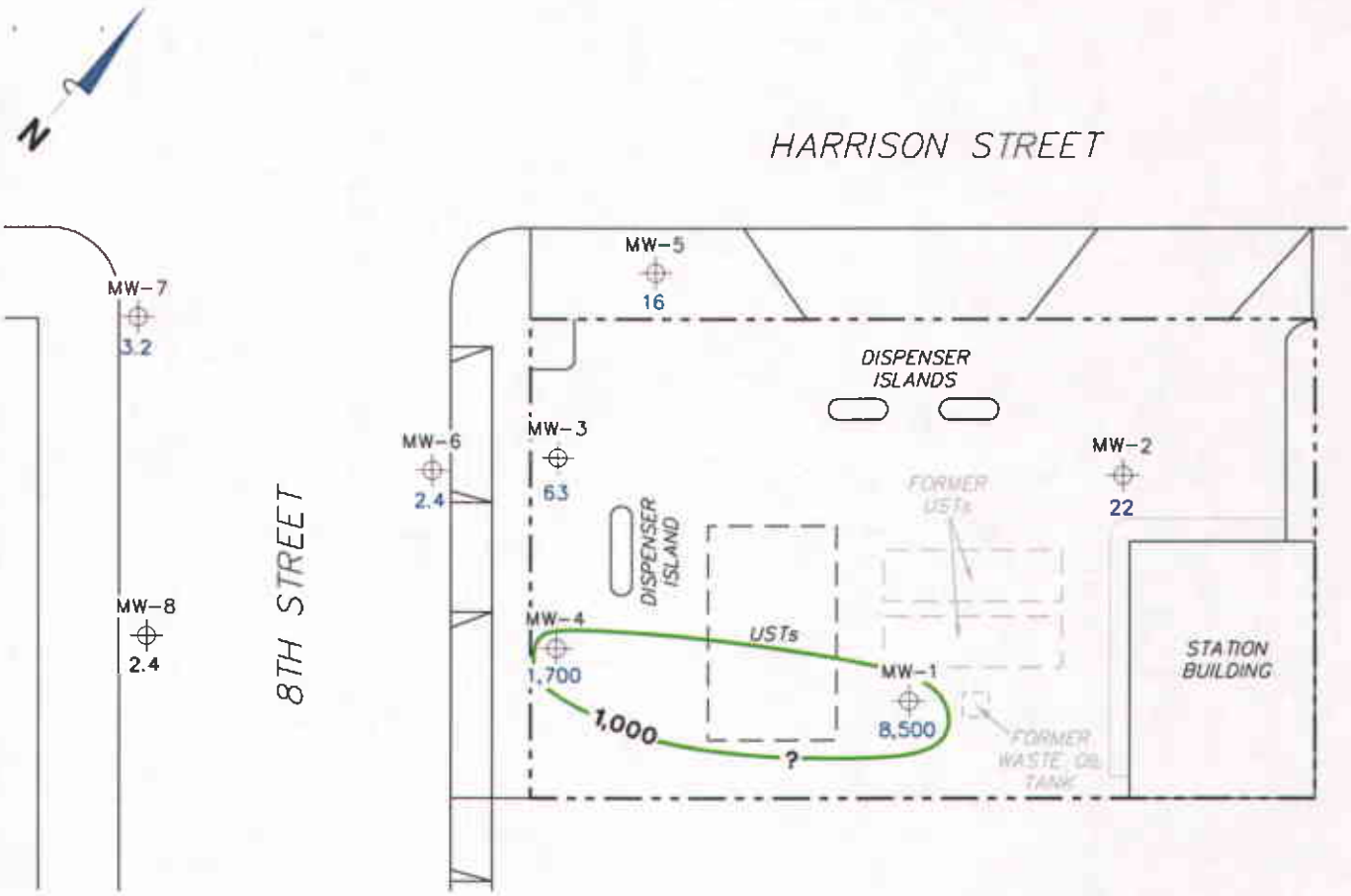
TRC

SCALE (FEET)
0 30

FIGURE 4

PS=1:1

Graphics on Irvine-fs1(L:)\Graphics\Projects By...\20-xxxx\20-0400\x-0000\0752+\0752qms.dwg 3/4/04 bbs



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. UST = underground storage tank. Results obtained using EPA Method 8260B.

LEGEND

MW-8 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

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

DISSOLVED-PHASE MTBE CONCENTRATION MAP
February 4, 2004

76 Station 0752
800 Harrison Street
Oakland, California

TRC

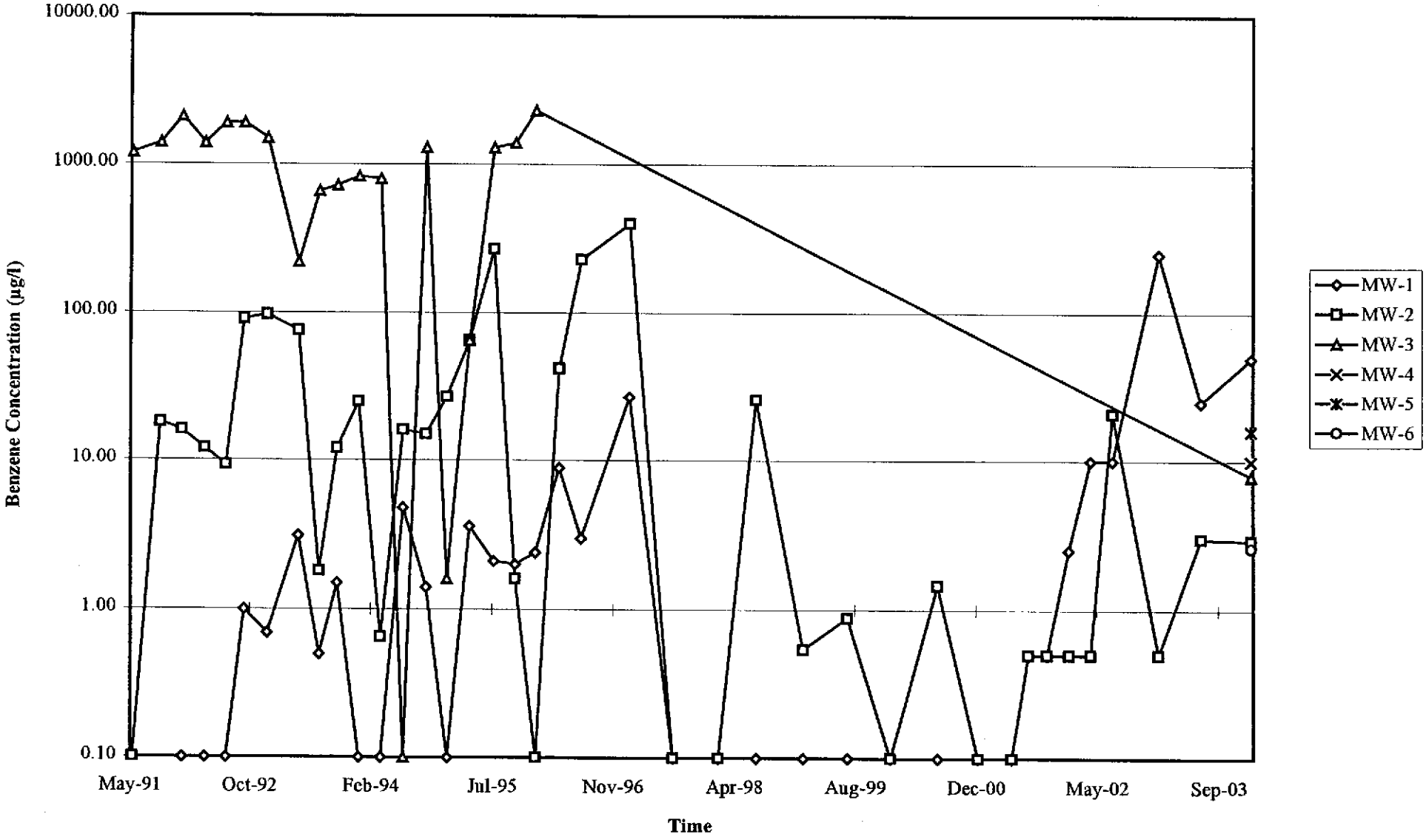
SCALE (FEET)
0 30

PS=1:1

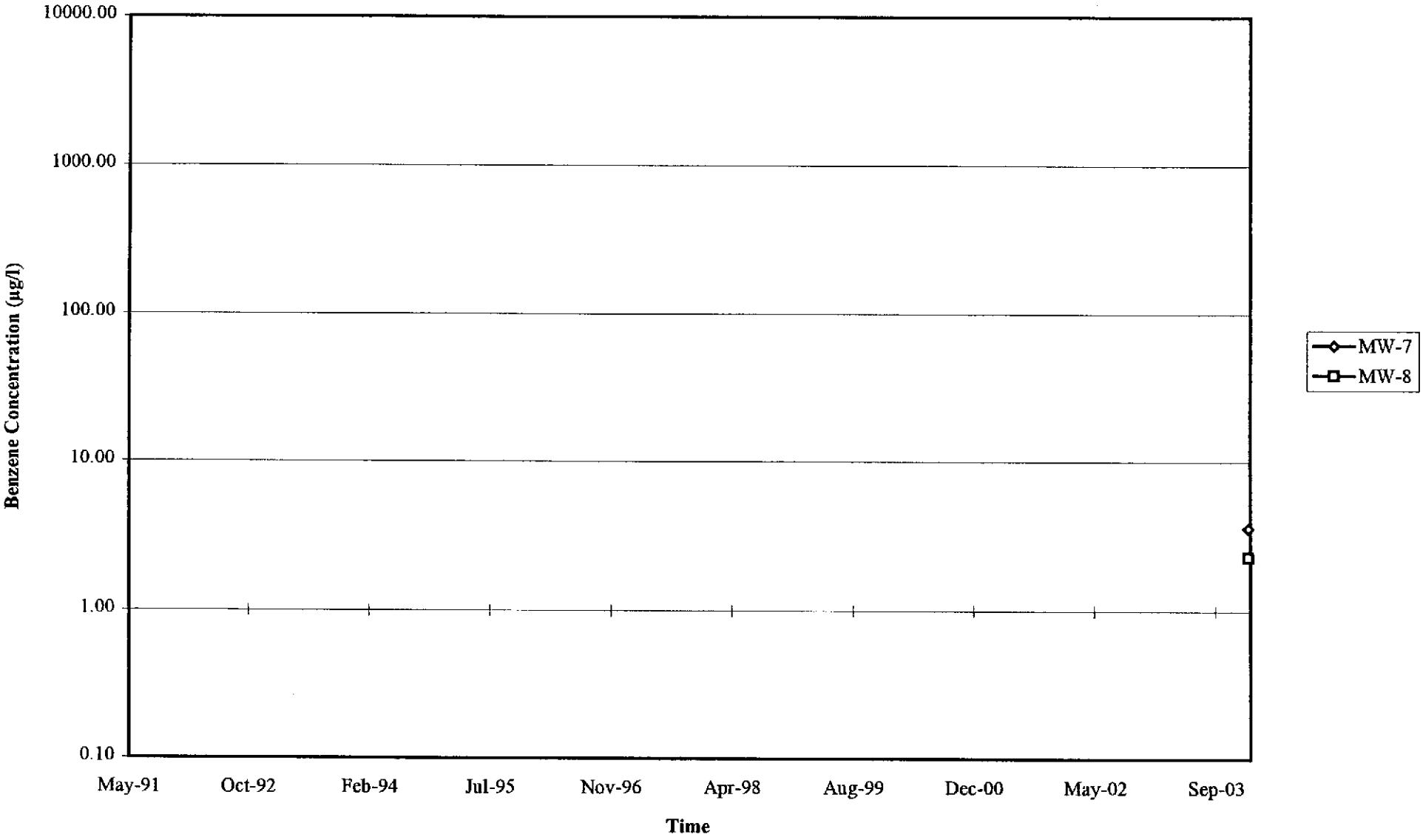
FIGURE 5

Graphics on Irvine-fs1(L:)\Graphics\Projects By...\20-xxxx\20-0400\x-0000\0752+\0752qms.dwg 3/4/04 bbs

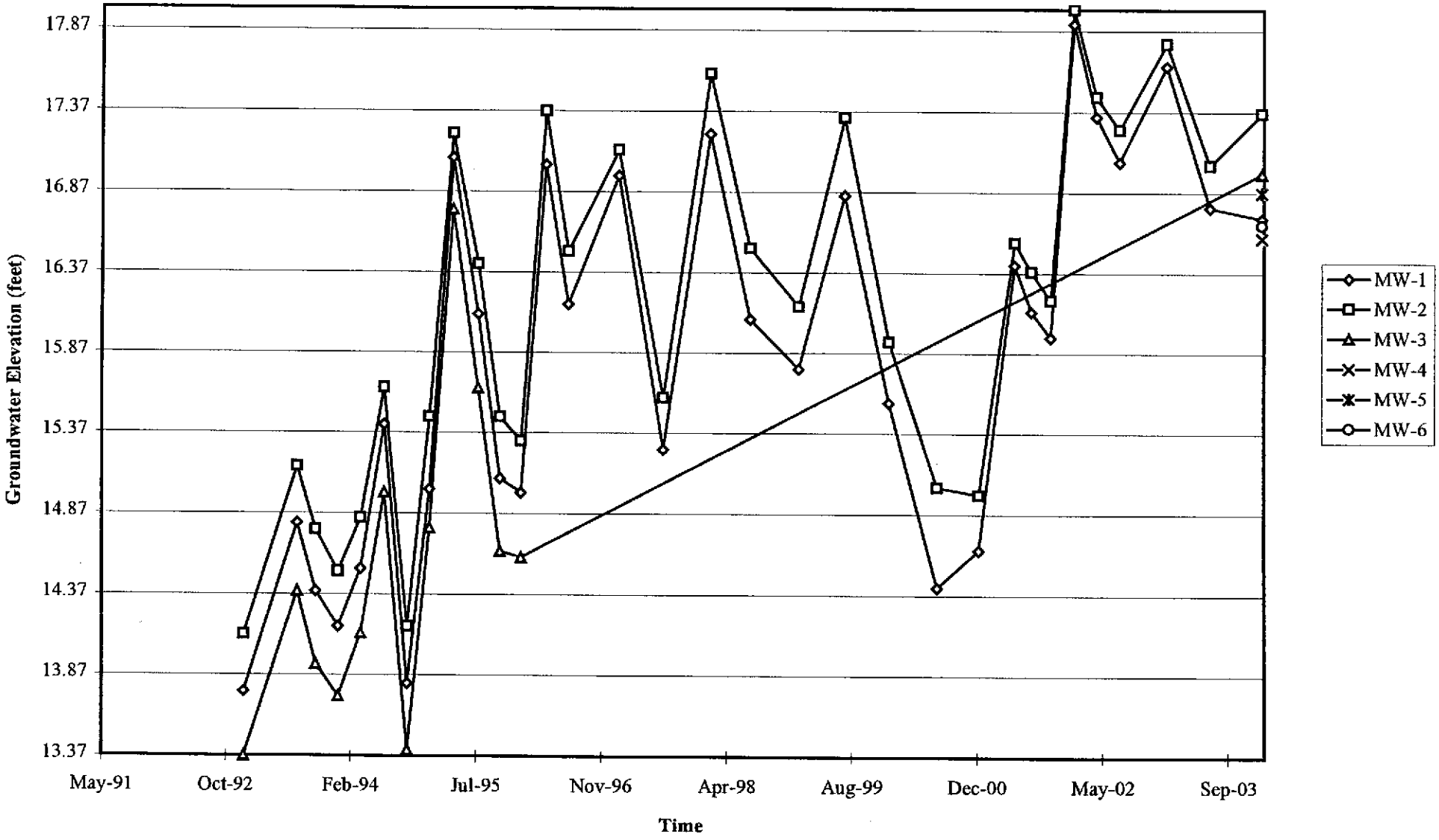
Graph 1
Benzene Concentrations vs. Time
76 Station 0752



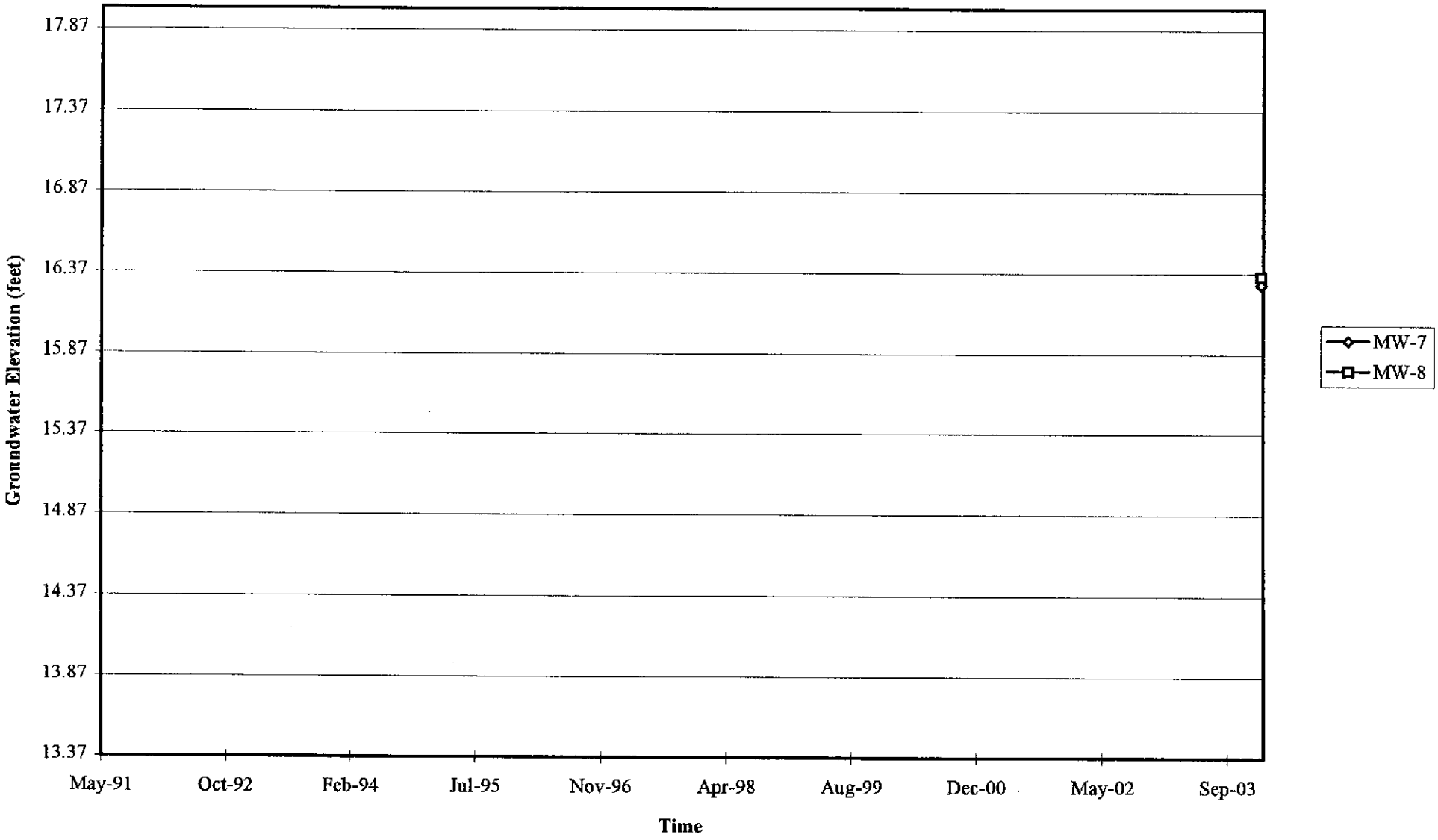
Graph 2
Benzene Concentrations vs. Time
76 Station 0752



Graph 3
Hydrograph
76 Station 0752



Graph 4
Hydrograph
76 Station 0752



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

TRC

Technician: HERNANDEZ Job #/Task #: 410500001/FA20 Date: 02/04/04

Site # 0752 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	33.60	17.98	ø	ø	0855	2"
MW-2			30.15	17.36	ø	ø	0920	2"
MW-3			32.20	16.15	ø	ø	0949	2"
MW-4			32.25	16.12	ø	ø	0826	2"
MW-5			31.70	16.08	ø	ø	0753	2"
MW-6			32.10	15.49	ø	ø	0730	2"
MW-7			32.15	15.90	ø	ø	0831	2"
MW-8		↓	31.97	15.65	ø	ø	0859	2"

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

WTT CERTIFICATE MANIFEST DRUM INVENTORY ✓ TRAFFIC CONTROL

Fldmon.xls 9/23/01

GROUNDWATER SAMPLING FIELD NOTES

Site: 0752 Project No.: 410500011/F920 Date: 02/04/04

MA

Well No. MW-1
Depth to Water (feet): 17.98
Total Depth (feet) 33.60
Water Column (feet): 15.62
80% Recharge Depth (feet): 21.10

Purge Method: SUB
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
0839			2	1056	18.9	6.81
			4	1061	18.7	6.86
	0842		6	1069	19.0	6.89

Static at Time Sampled	Total Purged	Time Sampled
19.10	6 gal	0855

Comments:

Site: —

Project No.: —

Well No. MW-2
Depth to Water (feet): 17.36
Total Depth (feet) 30.15
Water Column (feet): 12.79
80% Recharge Depth (feet): 19.91

Purge Method: SUB
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
0904			2	1049	19.0	7.07
			4	1037	19.2	7.01
	0908		6	1034	19.4	6.94

Static at Time Sampled	Total Purged	Time Sampled
18.24	6 gal	0920

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Site: 0752 Project No.: 41050001.1920 Date: 02/04/04 MP 3

Well No. MW-3
Depth to Water (feet): 16.15
Total Depth (feet) 32.20
Water Column (feet): 16.05
80% Recharge Depth (feet): 19.00

Purge Method: SUB
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
932			3	1098	20.0	7.82
			6	1074	20.2	7.70
	0937		9	1059	21.2	7.53

Static at Time Sampled	Total Purged	Time Sampled
18.14	9gal	0949

Comments:

Site: —

Well No. MW-4
Depth to Water (feet): 16.12
Total Depth (feet) 32.25
Water Column (feet): 16.13
80% Recharge Depth (feet): 19.34

Project No.: —
Purge Method: SUB
Depth to Product (feet):
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
0810			3	615	19.6	7.43
			6	590	19.3	7.07
	0815		9	551	19.6	6.97

Static at Time Sampled	Total Purged	Time Sampled
17.49	9gal	0826

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Site: 0752 Project No.: 410500001/FA2B Date: 02/04/04

MW (2)

Well No. MW-5
Depth to Water (feet): 16.08
Total Depth (feet) 31.70
Water Column (feet): 15.62
80% Recharge Depth (feet): 19.20

Purge Method: SUB
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
0744			2	534	18.9	7.55
			4	556	18.5	7.34
	0748		6	571	18.8	7.21

Static at Time Sampled	Total Purged	Time Sampled
17.01	6 gal	0753

Comments:

Site: ✓

Well No. MW-6
Depth to Water (feet): 15.49
Total Depth (feet) 32.10
Water Column (feet): 16.61
80% Recharge Depth (feet): 18.81

Project No.: ✓
Purge Method: SUB
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
0713			3	521	18.0	7.28
			6	514	17.8	7.36
	0718		9	506	17.4	7.43

Static at Time Sampled	Total Purged	Time Sampled
1555	9 gal	0730

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Site: 0752 Project No.: 4/050001/TA20 Date: 02/04/04

Well No. MW-8
Depth to Water (feet): 15.65
Total Depth (feet) 31.97
Water Column (feet): 16.32
80% Recharge Depth (feet): 18.91

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

MW 8

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH
0642			3	510	17.0	6.92
			6	521	17.8	7.08
	0647		9	543	18.0	7.19

Static at Time Sampled	Total Purged	Time Sampled
16.01	9 gal	0659

Comments:

Site: ✓ Project No.: ✓

Well No. MW-7
Depth to Water (feet): 15.90
Total Depth (feet) 32.15
Water Column (feet): 16.25
80% Recharge Depth (feet): 19.15

Purge Method: SUB
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
0615			3	589	17.4	7.29
			6	571	18.0	7.34
	0619		9	559	18.4	7.51

Static at Time Sampled	Total Purged	Time Sampled
15.98	9 gal	0631

Comments:

SEVERN TRENT STL

Submission#: 2004-02-0237

TRC Alton Geoscience

February 20, 2004

21 Technology Drive
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 41050001FA20
Project: Conoco Phillips#0752
Site: 800 Harrison Street.,Oakland,CA

Attached is our report for your samples received on 02/08/2004 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 03/24/2004 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 #: 2004-02-0237

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#0752

Received: 02/08/2004 17:53

Site: 800 Harrison Street.,Oakland,CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	02/04/2004 08:55	Water	1
MW-2	02/04/2004 09:20	Water	2
MW-3	02/04/2004 09:49	Water	3
MW-4	02/04/2004 08:26	Water	4
MW-5	02/04/2004 07:53	Water	5
MW-6	02/04/2004 07:30	Water	6
MW-7	02/04/2004 06:31	Water	7
MW-8	02/04/2004 06:59	Water	8

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#0752

Received: 02/08/2004 17:53

Site: 800 Harrison Street.,Oakland,CA

Prep(s): 5030B
Test(s): 8260FAB

Sample ID: **MW-1**
Lab ID: 2004-02-0237 - 1

Sampled: 02/04/2004 08:55
Extracted: 2/16/2004 11:01

Matrix: Water
QC Batch#: 2004/02/16-1B.66

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	8000	5000	ug/L	100.00	02/16/2004 11:01	g
Benzene	ND	50	ug/L	100.00	02/16/2004 11:01	
Toluene	ND	50	ug/L	100.00	02/16/2004 11:01	
Ethylbenzene	ND	50	ug/L	100.00	02/16/2004 11:01	
Total xylenes	ND	100	ug/L	100.00	02/16/2004 11:01	
tert-Butyl alcohol (TBA)	ND	10000	ug/L	100.00	02/16/2004 11:01	
Methyl tert-butyl ether (MTBE)	8500	200	ug/L	100.00	02/16/2004 11:01	
Ethanol	ND	50000	ug/L	100.00	02/16/2004 11:01	
Surrogate(s)						
Toluene-d8	103.8	88-110	%	100.00	02/16/2004 11:01	
1,2-Dichloroethane-d4	114.0	76-114	%	100.00	02/16/2004 11:01	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips#0752

Received: 02/08/2004 17:53

Site: 800 Harrison Street.,Oakland,CA

Prep(s): 5030B
Sample ID: **MW-2**
Sampled: 02/04/2004 09:20
Matrix: Water

Test(s): 8260FAB
Lab ID: 2004-02-0237 - 2
Extracted: 2/16/2004 11:49
QC Batch#: 2004/02/16-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	61	50	ug/L	1.00	02/16/2004 11:49	g
Benzene	2.9	0.50	ug/L	1.00	02/16/2004 11:49	
Toluene	ND	0.50	ug/L	1.00	02/16/2004 11:49	
Ethylbenzene	ND	0.50	ug/L	1.00	02/16/2004 11:49	
Total xylenes	ND	1.0	ug/L	1.00	02/16/2004 11:49	
tert-Butyl alcohol (TBA)	ND	100	ug/L	1.00	02/16/2004 11:49	
Methyl tert-butyl ether (MTBE)	22	2.0	ug/L	1.00	02/16/2004 11:49	
Ethanol	ND	500	ug/L	1.00	02/16/2004 11:49	
Surrogate(s)						
Toluene-d8	101.8	88-110	%	1.00	02/16/2004 11:49	
1,2-Dichloroethane-d4	109.5	76-114	%	1.00	02/16/2004 11:49	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips#0752

Received: 02/08/2004 17:53

Site: 800 Harrison Street.,Oakland,CA

Prep(s): 5030B
Sample ID: **MW-3**
Sampled: 02/04/2004 09:49
Matrix: Water

Test(s): 8260FAB
Lab ID: 2004-02-0237 - 3
Extracted: 2/14/2004 16:16
QC Batch#: 2004/02/14-1C.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	130	50	ug/L	1.00	02/14/2004 16:16	g
Benzene	7.9	0.50	ug/L	1.00	02/14/2004 16:16	
Toluene	ND	0.50	ug/L	1.00	02/14/2004 16:16	
Ethylbenzene	ND	0.50	ug/L	1.00	02/14/2004 16:16	
Total xylenes	ND	1.0	ug/L	1.00	02/14/2004 16:16	
tert-Butyl alcohol (TBA)	ND	100	ug/L	1.00	02/14/2004 16:16	
Methyl tert-butyl ether (MTBE)	63	2.0	ug/L	1.00	02/14/2004 16:16	
Ethanol	ND	500	ug/L	1.00	02/14/2004 16:16	
Surrogate(s)						
Toluene-d8	108.7	88-110	%	1.00	02/14/2004 16:16	
1,2-Dichloroethane-d4	113.9	76-114	%	1.00	02/14/2004 16:16	

Gas/BTEX Fuel Oxygenates by 8260B

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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#0752

Received: 02/08/2004 17:53

Site: 800 Harrison Street.,Oakland,CA

Prep(s): 5030B
Sample ID: **MW-4**
Sampled: 02/04/2004 08:26
Matrix: Water

Test(s): 8260FAB
Lab ID: 2004-02-0237 - 4
Extracted: 2/16/2004 11:18
QC Batch#: 2004/02/16-1D.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1300	1000	ug/L	20.00	02/16/2004 11:18	g
Benzene	ND	10	ug/L	20.00	02/16/2004 11:18	
Toluene	ND	10	ug/L	20.00	02/16/2004 11:18	
Ethylbenzene	ND	10	ug/L	20.00	02/16/2004 11:18	
Total xylenes	ND	20	ug/L	20.00	02/16/2004 11:18	
tert-Butyl alcohol (TBA)	ND	2000	ug/L	20.00	02/16/2004 11:18	
Methyl tert-butyl ether (MTBE)	1700	40	ug/L	20.00	02/16/2004 11:18	
Ethanol	ND	10000	ug/L	20.00	02/16/2004 11:18	
Surrogate(s)						
Toluene-d8	98.1	88-110	%	20.00	02/16/2004 11:18	
1,2-Dichloroethane-d4	96.2	76-114	%	20.00	02/16/2004 11:18	

Gas/BTEX Fuel Oxygenates by 8260B

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Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001FA20
Conoco Phillips#0752

Received: 02/08/2004 17:53

Site: 800 Harrison Street.,Oakland,CA

Prep(s): 5030B
Test(s): 8260FAB
Sample ID: **MW-5**
Lab ID: 2004-02-0237 - 5
Sampled: 02/04/2004 07:53
Extracted: 2/16/2004 11:42
Matrix: Water
QC Batch#: 2004/02/16-1D.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	82	50	ug/L	1.00	02/16/2004 11:42	
Benzene	16	0.50	ug/L	1.00	02/16/2004 11:42	
Toluene	1.6	0.50	ug/L	1.00	02/16/2004 11:42	
Ethylbenzene	0.65	0.50	ug/L	1.00	02/16/2004 11:42	
Total xylenes	ND	1.0	ug/L	1.00	02/16/2004 11:42	
tert-Butyl alcohol (TBA)	ND	100	ug/L	1.00	02/16/2004 11:42	
Methyl tert-butyl ether (MTBE)	16	2.0	ug/L	1.00	02/16/2004 11:42	
Ethanol	ND	500	ug/L	1.00	02/16/2004 11:42	
Surrogate(s)						
Toluene-d8	97.3	88-110	%	1.00	02/16/2004 11:42	
1,2-Dichloroethane-d4	92.2	76-114	%	1.00	02/16/2004 11:42	

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#0752

Received: 02/08/2004 17:53

Site: 800 Harrison Street.,Oakland,CA

Prep(s): 5030B
Sample ID: **MW-6**
Sampled: 02/04/2004 07:30
Matrix: Water

Test(s): 8260FAB
Lab ID: 2004-02-0237 - 6
Extracted: 2/16/2004 12:13
QC Batch#: 2004/02/16-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/16/2004 12:13	
Benzene	2.6	0.50	ug/L	1.00	02/16/2004 12:13	
Toluene	ND	0.50	ug/L	1.00	02/16/2004 12:13	
Ethylbenzene	ND	0.50	ug/L	1.00	02/16/2004 12:13	
Total xylenes	ND	1.0	ug/L	1.00	02/16/2004 12:13	
tert-Butyl alcohol (TBA)	ND	100	ug/L	1.00	02/16/2004 12:13	
Methyl tert-butyl ether (MTBE)	2.4	2.0	ug/L	1.00	02/16/2004 12:13	
Ethanol	ND	500	ug/L	1.00	02/16/2004 12:13	
Surrogate(s)						
Toluene-d8	103.4	88-110	%	1.00	02/16/2004 12:13	
1,2-Dichloroethane-d4	105.4	76-114	%	1.00	02/16/2004 12:13	

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#0752

Received: 02/08/2004 17:53

Site: 800 Harrison Street.,Oakland,CA

Prep(s): 5030B
Sample ID: **MW-7**
Sampled: 02/04/2004 06:31
Matrix: Water

Test(s): 8260FAB
Lab ID: 2004-02-0237 - 7
Extracted: 2/16/2004 12:37
QC Batch#: 2004/02/16-1B.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	02/16/2004 12:37	
Benzene	3.6	0.50	ug/L	1.00	02/16/2004 12:37	
Toluene	ND	0.50	ug/L	1.00	02/16/2004 12:37	
Ethylbenzene	ND	0.50	ug/L	1.00	02/16/2004 12:37	
Total xylenes	ND	1.0	ug/L	1.00	02/16/2004 12:37	
tert-Butyl alcohol (TBA)	ND	100	ug/L	1.00	02/16/2004 12:37	
Methyl tert-butyl ether (MTBE)	3.2	2.0	ug/L	1.00	02/16/2004 12:37	
Ethanol	ND	500	ug/L	1.00	02/16/2004 12:37	
Surrogate(s)						
Toluene-d8	107.5	88-110	%	1.00	02/16/2004 12:37	
1,2-Dichloroethane-d4	109.8	76-114	%	1.00	02/16/2004 12:37	

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#0752

Received: 02/08/2004 17:53

Site: 800 Harrison Street.,Oakland,CA

Prep(s): 5030B
Sample ID: **MW-8**
Sampled: 02/04/2004 06:59
Matrix: Water

Test(s): 8260FAB
Lab ID: 2004-02-0237 - 8
Extracted: 2/14/2004 18:17
QC Batch#: 2004/02/14-1C.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	52	50	ug/L	1.00	02/14/2004 18:17	g
Benzene	2.3	0.50	ug/L	1.00	02/14/2004 18:17	
Toluene	ND	0.50	ug/L	1.00	02/14/2004 18:17	
Ethylbenzene	ND	0.50	ug/L	1.00	02/14/2004 18:17	
Total xylenes	ND	1.0	ug/L	1.00	02/14/2004 18:17	
tert-Butyl alcohol (TBA)	ND	100	ug/L	1.00	02/14/2004 18:17	
Methyl tert-butyl ether (MTBE)	2.4	2.0	ug/L	1.00	02/14/2004 18:17	
Ethanol	ND	500	ug/L	1.00	02/14/2004 18:17	
Surrogate(s)						
Toluene-d8	107.1	88-110	%	1.00	02/14/2004 18:17	
1,2-Dichloroethane-d4	108.0	76-114	%	1.00	02/14/2004 18:17	

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#0752

Received: 02/08/2004 17:53

Site: 800 Harrison Street.,Oakland,CA

Batch QC Report

Prep(s): 5030B
Method Blank

Water

Test(s): 8260FAB
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	
tert-Butyl alcohol (TBA)	ND	100	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#0752

Received: 02/08/2004 17:53

Site: 800 Harrison Street.,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	
tert-Butyl alcohol (TBA)	ND	100	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#0752

Received: 02/08/2004 17:53

Site: 800 Harrison Street.,Oakland,CA

Batch QC Report

Prep(s): 5030B
Method Blank

Water

Test(s): 8260FAB
QC Batch # 2004/02/16-1D.64

MB: 2004/02/16-1D.64-013

Date Extracted: 02/16/2004 10:13

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	02/16/2004 10:13	
tert-Butyl alcohol (TBA)	ND	100	ug/L	02/16/2004 10:13	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	02/16/2004 10:13	
Benzene	ND	0.5	ug/L	02/16/2004 10:13	
Toluene	ND	0.5	ug/L	02/16/2004 10:13	
Ethylbenzene	ND	0.5	ug/L	02/16/2004 10:13	
Total xylenes	ND	1.0	ug/L	02/16/2004 10:13	
Ethanol	ND	500	ug/L	02/16/2004 10:13	
Surrogates(s)					
1,2-Dichloroethane-d4	94.0	76-114	%	02/16/2004 10:13	
Toluene-d8	99.2	88-110	%	02/16/2004 10:13	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience
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Irvine, CA 92718
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Project: 41050001FA20
Conoco Phillips#0752

Received: 02/08/2004 17:53

Site: 800 Harrison Street.,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

TRC Alton Geoscience

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Irvine, CA 92718
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Project: 41050001FA20
Conoco Phillips#0752

Received: 02/08/2004 17:53

Site: 800 Harrison Street.,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			

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience
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Irvine, CA 92718
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Project: 41050001FA20
Conoco Phillips#0752

Received: 02/08/2004 17:53

Site: 800 Harrison Street.,Oakland,CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike **Water** **QC Batch # 2004/02/16-1D.64**

LCS 2004/02/16-1D.64-028 Extracted: 02/16/2004 Analyzed: 02/16/2004 09:28

LCSD 2004/02/16-1D.64-051 Extracted: 02/16/2004 Analyzed: 02/16/2004 09:51

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	25.6	24.4	25	102.4	97.6	4.8	65-165	20		
Benzene	26.3	26.5	25	105.2	106.0	0.8	69-129	20		
Toluene	27.7	26.9	25	110.8	107.6	2.9	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	446	450	500	89.2	90.0		76-114			
Toluene-d8	499	514	500	99.8	102.8		88-110			

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#0752

Received: 02/08/2004 17:53

Site: 800 Harrison Street.,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.

SEVERN TRENT STL

STL San Francisco

Sample Receipt Checklist

Submission #:2004- 02 - 0237

Checklist completed by: (initials) TL Date: 02 08 /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^{o} C ± 2)?	Temp: 4.0 °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): _____

2004-02-0257

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

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

ConocoPhillips Chain Of Custody Record

82692

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: 02/04/04

PAGE: 1 of 1

SAMPLING COMPANY: TRC	Valid Value ID:	CONOCOPHILLIPS SITE NUMBER: 0752	GLOBAL ID NO.:
ADDRESS: 21 Technology Drive, Irvine CA 92618		SITE ADDRESS (Street and City): 800 HARRISON STREET OAKLAND CA	CONOCOPHILLIPS SITE MANAGER:
PROJECT CONTACT (Hardcopy or PDF Report to): Anju Farfan		EDF 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: / LAB USE ONLY
SAMPLER NAME(S) (Print): HERNANDEZ	CONSULTANT PROJECT NUMBER: 41050001/FA20		

TURNAROUND TIME (CALENDAR DAYS): [X] 14 DAYS [ ] 7 DAYS [ ] 72 HOURS [ ] 48 HOURS [ ] 24 HOURS [ ] LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED [X]

* 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/BTEX/MtBE	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/BTEX/MtBE	Lead ☐Total ☐STLC ☐TCLP	TPH by 8260B		BTEX/MTBE/ETHANOL by 8260B														
	MW-1	02/04/04	0855	GW	3									X		X														
	MW-2		0920																											
	MW-3		0949																											
	MW-4		0826																											
	MW-5		0753																											
	MW-6		0730																											
	MW-7		0631																											
	MW-8		0659																											

FIELD NOTES:

Container/Preservative or PID Readings or Laboratory Notes

4.0 °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) Navarro	Date: 2/5/04	Time: 1753

9/19/03 Revision

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.