RO 455

ConocoPhillips

76 Broadway
Sacramento, CA 95818
phone 916.558.7676
fax 916.558.7639

April 27, 2005

Mr. Don Hwang
Alameda County Health Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Re: **Document Transmittal**
Fuel Leak Case
76 Station #1871
96 MacArthur Blvd.
Oakland, CA

Dear Mr. Hwang:

Please find attached TRC's *Quarterly Status Report, dated 4/22/05,* TRC's *Quarterly Monitoring Report, dated 2/25/05, and Secor's Quarterly Remedial Performance Summary, dated 4/15/05* for the above referenced site. I declare, under penalty of perjury, that to the best of my knowledge the information and/or recommendations contained in the attached proposal or reports are true and correct.

If you have any questions or need additional information, please call me at (916) 558-7666.

Sincerely,

Thomas H. Kosel
Site Manger, Risk Management and Remediation
ConocoPhillips
76 Broadway, Sacramento, CA 95818

Attachment
cc: Roger Batra, TRC

TRC

Customer-Focused Solutions

April 22, 2005 TRC Project No. 42016101

Mr. Don Hwang
Alameda County Health Services
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

RE: Quarterly Status Report - First Quarter 2005
76 Service Station #1871, 96 MacArthur Boulevard, Oakland, California
Alameda County

Dear Mr. Hwang:

On behalf of ConocoPhillips Company (ConocoPhillips), TRC is submitting the First Quarter 2005 Quarterly Status Report for the subject site, shown on attached Figure 3 through 5.

PREVIOUS ASSESSMENTS

The site is located on the north corner of the intersection of MacArthur Boulevard and Harrison Street in Oakland, California. The site is currently an operating service station.

May 1992: Roux Associates (Roux) performed a dispenser and product piping modification project.

October 1992: Roux installed three 4-inch diameter groundwater monitoring wells onsite.

January 1993: Quarterly groundwater sampling and monitoring began.

August 1994: A 280-gallon single-wall steel waste oil underground storage tank (UST) was replaced with a 550-gallon double-wall fiberglass UST. Conformation sampling was performed.

February 1996: The Alameda County Health Care Service Agency (ACHCSA) approved Unocal' s request to reduce the groundwater monitoring and sampling program from quarterly to semiannually (KEI, 1996).

March 1996: Two monitoring wells were installed at the site.

May 1998: John' s Excavating of Santa Rosa, California removed all underground and aboveground equipment and facilities. Facilities included two 12,000-gallon double-wall steel gasoline USTs, one 550-gallon double-wall steel waste oil UST, two hydraulic lifts, two dispenser islands and related single-wall product piping, and one service station building. Gettler-Ryan Inc.

(GR) personnel performed soil and groundwater sampling activities in conjunction with the station demolition. A total of 1,252.78 tons of soil were removed from the site during demolition activities and transported to Forward Landfill for disposal.

September 1998: Two wells that were damaged during site demolition activities were drilled out and the boreholes backfilled with neat cement to grade. In addition, one soil boring was advanced onsite to a total depth of 16.5 feet below ground surface (bgs). Groundwater was encountered at approximately 10.5 feet bgs. Soil and groundwater samples were collected for use in a Risk Based Corrective Action (RBCA) analysis for the site.

February 1999: GR performed a RBCA evaluation. The RBCA evaluation determined that, since the site was scheduled for construction of a fuel dispensing facility covered with concrete and asphalt and no groundwater receptors were located within a .25 mile radius of the site, the potential threat to public health and environment was not of significant concern.

June 1999: GR installed three offsite monitoring wells, and advanced nine soil borings on and near the site. Depth-discrete soil and groundwater samples were collected.

April 2002: An ozone injection system was installed and activated at the site.

September 2003: Operations and maintenance responsibilities for the remediation system were transferred to SECOR International Inc. (SECOR).

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

SENSITIVE RECEPTORS

According to the RBCA evaluation, no groundwater receptors were located within a ¼mile radius of the site. No other sensitive receptor survey has been identified.

MONITORING AND SAMPLING

One onsite and six offsite wells are currently monitored quarterly. All wells were sampled this quarter. The groundwater gradient and flow direction were 0.02 foot/foot to the southwest. These data were consistent with historical data.

CHARACTERIZATION STATUS

Total purgeable petroleum hydrocarbons (TPPH) were detected in two of seven wells, with a maximum concentration of 24,000 micrograms per liter (µg/l) in onsite well MW-1.

Benzene was detected in three of seven wells, with a maximum concentration of 240 µg/l in onsite well MW-1.

Methyl tertiary butyl ether (MTBE) was detected in six of seven wells, with a maximum concentration of 13,000 µg/l in offsite well MW-7.

Hydrocarbon impacts are not fully delineated offsite. Perimeter downgradient monitoring well MW-8 contained 1,800 µg/l MTBE and was non-detect for TPPH and benzene. Perimeter downgradient monitoring well MW-9 contained 2,300 µg/l MTBE and was non-detect for TPPH and benzene. Perimeter downgradient monitoring well MW-10 contained .71 µg/l MTBE was non-detect for TPPH and benzene. Perimeter downgradient monitoring well MW-11 was non-detect for MTBE, TPPH, and benzene.

REMEDIATION STATUS

April 2002: GR installed an ozone sparging system utilizing 10 ozone sparge wells completed to maximum depths of 25 to 30 feet bgs. The system was activated on April 8, 2002. Since then approximately 137 pounds of ozone have been injected.

RECENT CORRESPONDENCE

No correspondence this quarter.

CURRENT QUARTER ACTIVITIES

January 24, 2005: 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.

January-March 2005: SECOR performed operations and maintenance activities on the ozone sparging system throughout the quarter. During the quarter the system operated for 0.40 hours. The system was restarted on January 13, 2005 after a hose from the compressor to the manifold was repaired; however it was found to be non-operational on February 25, 2005 due to a bad GFI. The GFI was replaced on March 8, 2005; however the system was again left down due to a broken fan on the compressor and ruptured hose. Both will be repaired in the second quarter 2005. Approximately 0 pounds of ozone was injected during the first quarter. No waste was generated at the site.

NEXT QUARTER ACTIVITIES

Continue quarterly monitoring and sampling to assess plume stability and concentration trends.

Continue operating the ozone sparging system to reduce hydrocarbon mass in the subsurface. Continue sampling of monitoring wells MW-1 and MW-7 to aid in evaluation of the ozone sparging system.

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

Sincerely,

TRC

Roger Batra

Roger Batra
Senior Project Manager

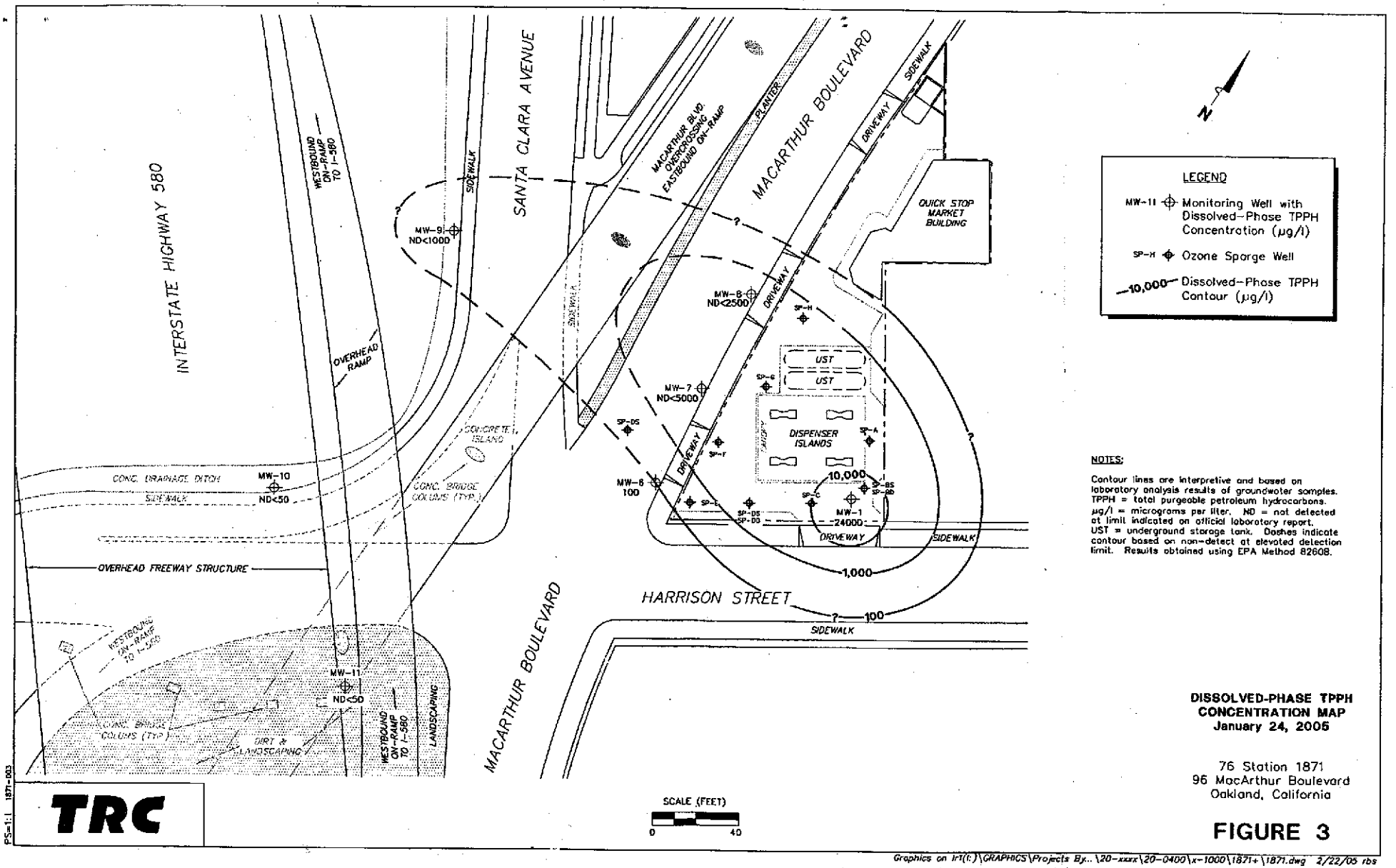
Attachments:

Figure 3 – Dissolved-Phase TPPH Concentration Map, January 24, 2005, from First Quarter 2005 Quarterly Monitoring Report, January through March 2005, dated February 25, 2005 by TRC.

Figure 4 – Dissolved-Phase Benzene Concentration Map, January 24, 2005, from First Quarter 2005 Quarterly Monitoring Report, January through March 2005, dated February 25, 2005 by TRC.

Figure 5 – Dissolved-Phase MTBE Concentration Map, January 24, 2005, from First Quarter 2005 Quarterly Monitoring Report, January through March 2005, dated February 25, 2005 by TRC.

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



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. Dashes indicate contour based on non-detect at elevated detection limit. Results obtained using EPA Method 8260B.

DISSOLVED-PHASE TPPH CONCENTRATION MAP
January 24, 2005

76 Station 1871
96 MacArthur Boulevard
Oakland, California

FIGURE 3

TRC

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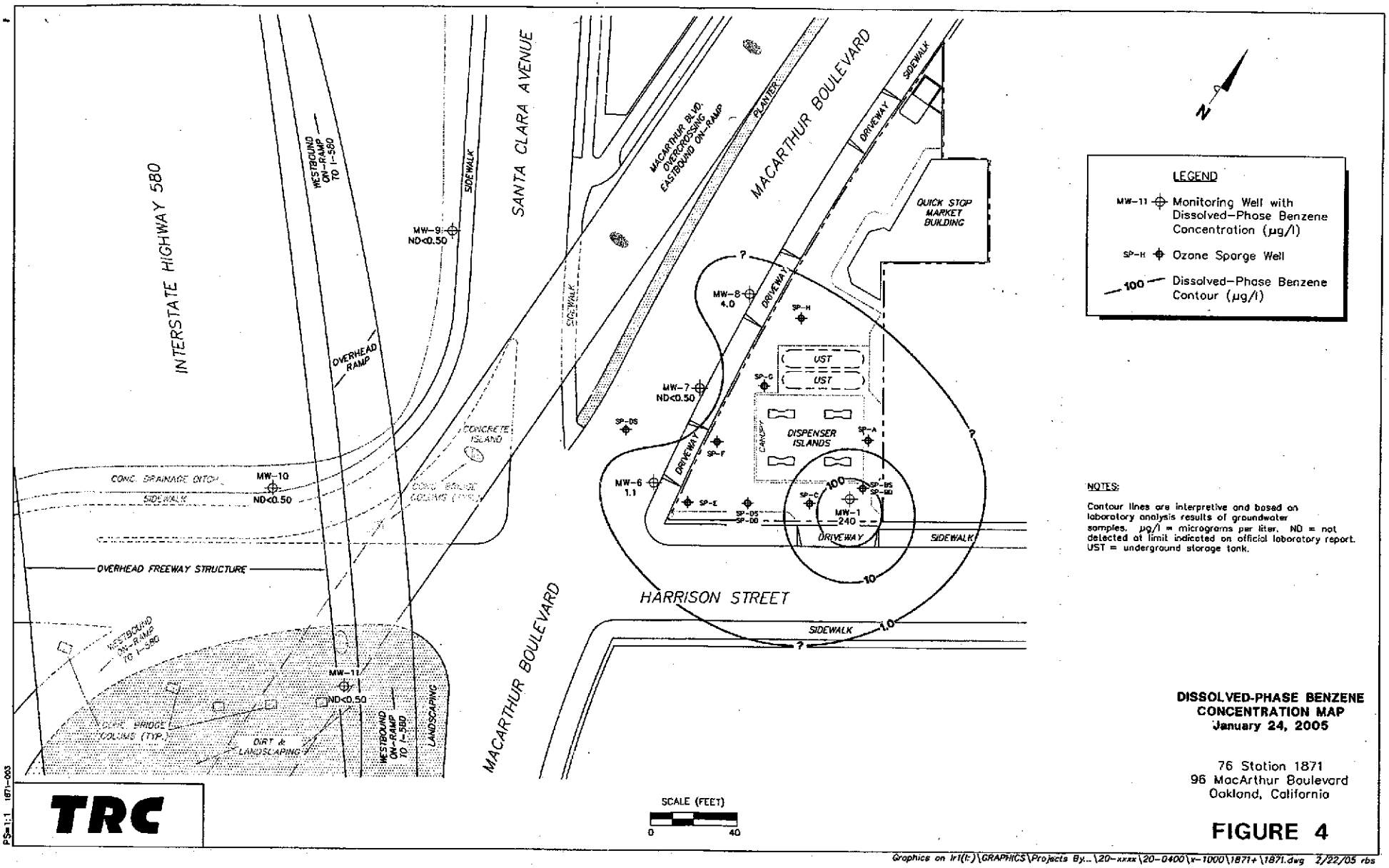

NOTES:

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. UST = underground storage tank.

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
January 24, 2005

76 Station 1871
96 MacArthur Boulevard
Oakland, California

FIGURE 4

TRC

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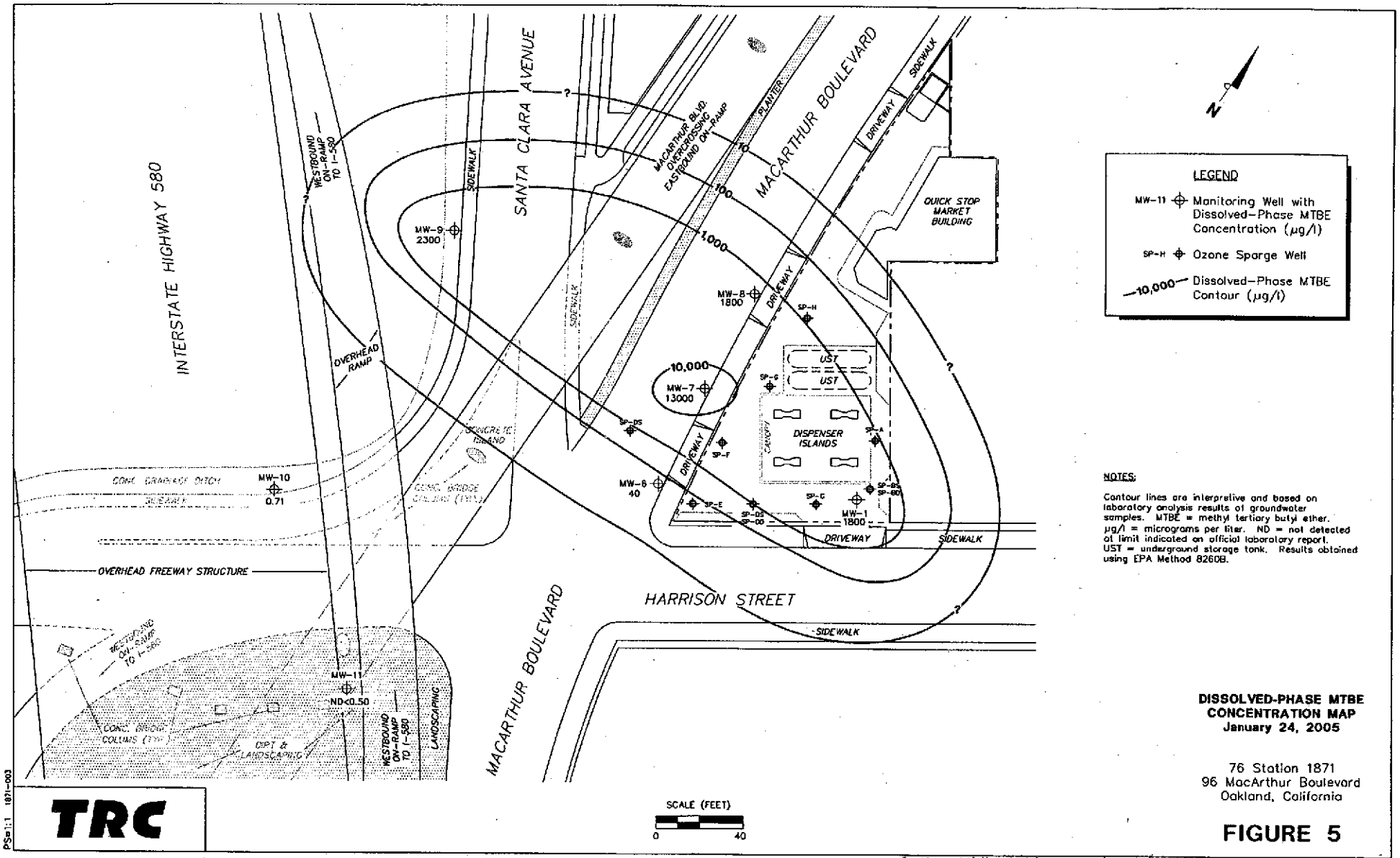

NOTES:

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

DISSOLVED-PHASE MTBE CONCENTRATION MAP
January 24, 2005

76 Station 1871
96 MacArthur Boulevard
Oakland, California

FIGURE 5

TRC

PSa1:1 1871-003

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TRC

Customer-Focused Solutions

February 25, 2005

ConocoPhillips Company
76 Broadway
Sacramento, California 95818

ATTN: MR. THOMAS H. KOSEL

SITE: 76 STATION 1871
96 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
JANUARY THROUGH MARCH 2005

Dear Mr. Kosel:

Please find enclosed our Quarterly Monitoring Report for 76 Station, located at 96 MacArthur Boulevard, Oakland, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC

Anju Farfan
QMS Operations Manager

CC: Mr. Roger Batra, TRC (3 copies)

Enclosures
20-0400/1871R06.QMS

21 Technology Drive • Irvine, California 92618
Telephone 949-753-0101 • Fax 949-753-0111

TRC

Customer-Focused Solutions

QUARTERLY MONITORING REPORT
JANUARY THROUGH MARCH 2005

76 STATION 1871
96 MacArthur Boulevard
Oakland, California

Prepared For:

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

By:

Senior Project Geologist, Irvine Operations
February 24, 2005

21 Technology Drive • Irvine, California 92618
Telephone 949-753-0101 • Fax 949-753-0111

LIST OF ATTACHMENTS	
Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Table 1: Current Fluid Levels and Selected Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 3: Additional Analytical 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	Groundwater Elevations vs. Time Benzene Concentrations vs. Time
Field Activities	General Field Procedures Groundwater Sampling Field Notes
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities
January 2005 through March 2005
76 Station 1871
96 MacArthur
Oakland, CA

Project Coordinator: **Thomas Kosel**
Telephone: **916-558-7666**
Water Sampling Contractor: ***TRC***
Compiled by: **Valentina Tobon**
Date(s) of Gauging/Sampling Event: **01/24/05**

Sample Points

Groundwater wells: **1** onsite, **6** offsite Wells gauged: **7** Wells sampled: **7**
Purging method: **Bailer/diaphragm**
Purge water disposal: **Onyx Rodeo Unit 100**
Other Sample Points: **0** Type: **n/a**

Liquid Phase Hydrocarbons (LPH)

Wells with LPH: **0** Maximum thickness (feet): **n/a**
LPH removal frequency: **n/a** Method: **n/a**
Treatment or disposal of water/LPH: **n/a**

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **6.4 feet** Maximum: **17.44 feet**
Average groundwater elevation (relative to available local datum): **69.55 feet**
Average change in groundwater elevation since previous event: **1.20 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.02 ft/ft, southwest**
Previous event: **0.04 ft/ft, southwest (11/24/04)**

Selected Laboratory Results

Wells with detected **Benzene:** **3** Wells above MCL (1.0 µg/l): **3**
Maximum reported benzene concentration: **240 µg/l (MW-1)**

Wells with **TPPH 8260B** **2** Maximum: **24,000 µg/l (MW-1)**
Wells with **MTBE** **6** Maximum: **13,000 µg/l (MW-7)**

Notes:

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

STANDARD ABREVIATIONS

--	=	not analyzed, measured, or collected
LPH	=	liquid-phase hydrocarbons
Trace	=	less than 0.01 foot of LPH in well
µg/l	=	micrograms per liter (approx. equivalent to parts per billion, ppb)
mg/l	=	milligrams per liter (approx. equivalent to parts per million, ppm)
ND<	=	not detected at or above laboratory detection limit
TOC	=	top of casing (surveyed reference elevation)

ANALYTES

BTEX	=	benzene, toluene, ethylbenzene, and (total) xylenes
DIPE	=	di-isopropyl ether
ETBE	=	ethyl tertiary butyl ether
MTBE	=	methyl tertiary butyl ether
PCB	=	polychlorinated biphenyls
PCE	=	tetrachloroethene
TBA	=	tertiary butyl alcohol
TCA	=	trichloroethane
TCE	=	trichloroethene
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TPPH	=	total purgeable petroleum hydrocarbons
TRPH	=	total recoverable petroleum hydrocarbons
TAME	=	tertiary amyl methyl ether
1,1-DCA	=	1,1-dichloroethane
1,2-DCA	=	1,2-dichloroethane (same as EDC, ethylene dichloride)
1,1-DCE	=	1,1-dichloroethene
1,2-DCE	=	1,2-dichloroethene (cis- and trans-)

NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: Surface Elevation - Measured Depth to Water + (Dp x LPH Thickness), where Dp is the density of the LPH, if known. A value of 0.75 is used for gasoline and when the density is not known. A value of 0.83 is used for diesel.
3. Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures).
4. Comments shown on tables are general. Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report.
5. A "J" flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory.
6. Other laboratory flags (qualifiers) may have been reported. See the official laboratory report (attached) for a complete list of laboratory flags.
7. Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display. Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report.
8. Groundwater vs. Time graphs may be corrected for apparent level changes due to re-survey.

REFERENCE

TRC began groundwater monitoring and sampling for 76 Station 1871 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

Table 1

CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

January 24, 2005

76 Station 1871

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: 9.5-24.5)**												
01/24/05	86.99	12.98	0.00	74.01	2.00	--	24000	240	ND<20	1100	3600	--	1800	
MW-6		**(Screen Interval in feet: 5.0-25.0)**												
01/24/05	79.67	8.33	0.00	71.34	1.26	--	100	1.1	ND<0.50	0.60	1.1	--	40	
MW-7		**(Screen Interval in feet: 5.0-25.0)**												
01/24/05	80.67	7.92	0.00	72.75	1.73	--	ND<5000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	13000	
MW-8		**(Screen Interval in feet: 5.0-25.0)**												
01/24/05	81.71	8.49	0.00	73.22	1.70	--	ND<2500	4.0	0.52	ND<0.50	29	--	1800	
MW-9		**(Screen Interval in feet: DNA)**												
01/24/05	82.07	14.96	0.00	67.11	1.29	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2300	
MW-10		**(Screen Interval in feet: DNA)**												
01/24/05	74.98	6.40	0.00	68.58	1.15	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.71	
MW-11		**(Screen Interval in feet: DNA)**												
01/24/05	77.31	17.44	0.00	59.87	-0.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through January 2005
76 Station 1871

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: 9.5-24.5)**													
11/03/92	--	--	--	--	--	260000	--	2300	4600	3700	17000	--	--	
01/25/93	81.18	--	0.00	--	--	120000	--	2100	4600	4900	22000	--	--	
04/29/93	81.18	13.71	0.00	67.47	--	100000	--	850	2000	4300	19000	--	--	
07/16/93	81.18	14.51	0.00	66.67	-0.80	29000	--	590	560	980	4200	--	--	
10/19/93	81.18	15.20	0.00	65.98	-0.69	67000	--	1400	2600	2900	5000	--	--	
01/20/94	81.18	15.17	0.00	66.01	0.03	92000	--	1200	3000	3400	17000	--	--	
04/13/94	81.18	14.44	0.00	66.74	0.73	51000	--	1000	2600	3200	15000	--	--	
07/13/94	81.18	14.88	0.00	66.30	-0.44	35000	--	550	150	1400	5700	--	--	
10/10/94	81.18	15.55	0.00	65.63	-0.67	52000	--	1000	810	3300	12000	--	--	
01/10/95	81.18	12.44	0.00	68.74	3.11	810	--	16	18	59	250	--	--	
04/17/95	81.18	12.68	0.00	68.50	-0.24	48000	--	880	530	2500	11000	--	--	
07/24/95	81.18	13.97	0.00	67.21	-1.29	48000	--	1500	420	2700	9700	--	--	
10/23/95	81.18	14.85	0.00	66.33	-0.88	47000	--	780	210	2100	11000	270	--	
01/18/96	81.18	14.21	0.00	66.97	0.64	30000	--	1500	500	3500	13000	2400	--	
04/18/96	86.24	13.40	0.00	72.84	5.87	66000	--	2700	2200	3100	13000	57000	--	
07/24/96	86.24	14.15	0.00	72.09	-0.75	5600	--	2100	ND	160	160	24000	--	
10/24/96	86.24	14.85	0.00	71.39	-0.70	110000	--	7500	8000	3300	14000	58000	--	
01/28/97	86.24	11.25	0.00	74.99	3.60	94000	--	7700	19000	3100	15000	120000	--	
07/29/97	86.24	14.67	0.00	71.57	-3.42	ND	--	ND	ND	ND	ND	70000	--	
01/14/98	86.24	12.27	0.00	73.97	2.40	85000	--	6100	10000	3000	17000	110000	--	
07/01/98	86.24	14.32	0.00	71.92	-2.05	110000	--	8700	12000	2700	15000	110000	--	
06/18/99	86.24	13.93	0.00	72.31	0.39	49000	--	6900	6500	380	12000	72000	47000	
01/21/00	86.24	15.05	0.00	71.19	-1.12	63700	--	5520	2000	2640	13100	57100	--	
07/10/00	86.24	13.97	0.00	72.27	1.08	67800	--	9910	4120	3330	16100	67400	54000	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through January 2005
76 Station 1871

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														
01/04/01	86.24	14.92	0.00	71.32	-0.95	63900	--	6270	784	2670	12900	--	38100	
07/16/01	86.24	14.32	0.00	71.92	0.60	66000	--	7100	330	2300	9800	36000	41000	
01/31/02	86.99	13.54	0.00	73.45	1.53	42000	--	5800	1800	2000	8200	26000	26000	
04/11/02	86.99	13.64	0.00	73.35	-0.10	58000	--	2900	1200	1800	10000	19000	--	
07/11/02	86.99	13.96	0.00	73.03	-0.32	--	5900	330	ND<10	230	600	--	3400	
10/15/02	86.99	14.71	0.00	72.28	-0.75	--	470	16	ND<2.5	14	16	--	390	
01/14/03	86.99	12.77	0.00	74.22	1.94	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	49	
04/16/03	86.99	13.18	0.00	73.81	-0.41	--	510	57	0.62	29	61	--	160	
07/16/03	86.99	14.26	0.00	72.73	-1.08	--	27000	260	23	730	3200	--	1200	
10/02/03	86.99	14.95	0.00	72.04	-0.69	--	45000	1400	32	2900	7600	--	3200	
01/07/04	86.99	12.30	0.00	74.69	2.65	--	34000	690	41	1600	5200	--	2600	
04/02/04	86.99	13.18	0.00	73.81	-0.88	--	350	1.8	ND<0.50	6.2	30	--	19	
07/29/04	86.99	14.61	0.00	72.38	-1.43	--	41000	550	ND<20	2000	6100	--	1200	
11/24/04	86.99	14.98	0.00	72.01	-0.37	--	55000	910	28	3100	11000	--	1600	
01/24/05	86.99	12.98	0.00	74.01	2.00	--	24000	240	ND<20	1100	3600	--	1800	
MW-2	**(Screen Interval in feet: DNA)**													
11/03/92	76.61	--	--	--	--	140	--	2.2	ND	ND	2.0	--	--	
01/25/93	76.61	--	--	--	--	2100	--	56	1.1	90	140	--	--	
04/29/93	76.61	9.73	0.00	66.88	--	1500	--	290	ND	33	11	--	--	
07/16/93	76.61	10.17	0.00	66.44	-0.44	510	--	17	0.60	3.2	2.5	--	--	
10/19/93	76.61	11.18	0.00	65.43	-1.01	670	--	24	1.1	7.7	23	--	--	
01/20/94	76.61	11.12	0.00	65.49	0.06	820	--	97	ND	12	ND	--	--	
04/13/94	76.61	10.12	0.00	66.49	1.00	550	--	71	ND	5.1	1.3	--	--	
07/13/94	76.61	10.86	0.00	65.75	-0.74	2000	--	490	ND	17	13	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through January 2005

76 Station 1871

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														
10/10/94	76.61	11.48	0.00	65.13	-0.62	2300	--	340	ND	25	ND	--	--	
01/10/95	76.61	8.71	0.00	67.90	2.77	850	--	3.8	ND	8.5	1.3	--	--	
04/17/95	76.61	8.90	0.00	67.71	-0.19	1300	--	4.7	ND	8.3	1.2	--	--	
07/24/95	76.61	9.94	0.00	66.67	-1.04	960	--	20	ND	4.2	6.2	--	--	
10/23/95	76.61	10.70	0.00	65.91	-0.76	ND	--	ND	ND	ND	ND	19	--	
01/18/96	76.61	10.11	0.00	66.50	0.59	900	--	300	86	7.6	18	4300	--	
04/18/96	81.66	9.27	0.00	72.39	5.89	18000	--	3600	680	890	4100	19000	--	
07/24/96	81.66	10.02	0.00	71.64	-0.75	100000	--	13000	21000	2700	16000	120000	--	
10/24/96	81.66	10.78	0.00	70.88	-0.76	800	--	110	17	11	20	20000	--	
01/28/97	81.66	7.70	0.00	73.96	3.08	45000	--	2400	2900	2000	7600	29000	--	
07/29/97	81.66	10.28	0.00	71.38	-2.58	ND	--	1.2	0.72	0.63	0.62	17000	--	
01/14/98	81.66	8.63	0.00	73.03	1.65	14000	--	1000	150	790	3300	23000	--	
07/01/98	81.66	9.53	0.00	72.13	-0.90	2700	--	100	ND	180	78	7100	--	
06/18/99	--	--	--	--	--	--	--	--	--	--	--	--	--	Well was destroyed
MW-3	**(Screen Interval in feet: DNA)**													
11/03/92	77.48	--	--	--	--	2100	--	120	15	38	200	--	--	
01/25/93	77.48	--	--	--	--	2300	--	80	1	55	52	--	--	
04/29/93	77.48	11.37	0.00	66.11	--	4500	--	1700	ND	200	140	--	--	
07/16/93	77.48	12.09	0.00	65.39	-0.72	4000	--	1100	28	52	70	--	--	
10/19/93	77.48	12.69	0.00	64.79	-0.60	3800	--	42	ND	50	56	--	--	
01/20/94	77.48	12.65	0.00	64.83	0.04	4200	--	11	ND	21	15	--	--	
04/13/94	77.48	12.02	0.00	65.46	0.63	4200	--	210	ND	36	53	--	--	
07/13/94	77.48	12.46	0.00	65.02	-0.44	1800	--	16	16	ND	21	--	--	
10/10/94	77.48	12.98	0.00	64.50	-0.52	4300	--	11	ND	12	ND	--	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through January 2005

76 Station 1871

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														
01/10/95	77.48	10.42	0.00	67.06	2.56	310	--	4.6	ND	3.5	2.1	--	--	
04/17/95	77.48	10.42	0.00	67.06	0.00	7800	--	ND	4.6	300	450	--	--	
07/24/95	77.48	11.76	0.00	65.72	-1.34	3200	--	170	ND	22	16	--	--	
10/23/95	77.48	12.50	0.00	64.98	-0.74	3900	--	55	ND	19	11	4500	--	
01/18/96	77.48	11.79	0.00	65.69	0.71	2200	--	270	33	26	18	5500	--	
04/18/96	82.55	11.30	0.00	71.25	5.56	6000	--	1800	ND	100	230	48000	--	
07/24/96	82.55	12.17	0.00	70.38	-0.87	ND	--	2500	ND	ND	ND	71000	--	
10/24/96	82.55	12.65	0.00	69.90	-0.48	3800	--	660	ND	15	ND	65000	--	
01/28/97	82.55	9.50	0.00	73.05	3.15	4400	--	250	13	87	47	54000	--	
07/29/97	82.55	11.99	0.00	70.56	-2.49	ND	--	3500	ND	220	ND	75000	--	
01/14/98	82.55	10.30	0.00	72.25	1.69	ND	--	430	ND	100	380	37000	--	
07/01/98	82.55	11.70	0.00	70.85	-1.40	ND	--	430	ND	ND	ND	45000	--	
06/18/99	--	--	--	--	--	--	--	--	--	--	--	--	--	Well was destroyed
MW-4	**(Screen Interval in feet: DNA)**													
04/18/96	82.04	9.83	0.00	72.21	--	ND	--	630	ND	ND	ND	18000	--	
07/24/96	82.04	10.47	0.00	71.57	-0.64	ND	--	ND	ND	ND	5.2	3900	--	
10/24/96	82.04	11.14	0.00	70.90	-0.67	ND	--	ND	ND	ND	ND	6300	--	
01/28/97	82.04	7.94	0.00	74.10	3.20	1200	--	490	ND	17	6.8	16000	--	
07/29/97	82.04	10.86	0.00	71.18	-2.92	50	--	1.5	0.61	0.73	0.78	15000	--	
01/14/98	82.04	8.73	0.00	73.31	2.13	ND	--	ND	ND	ND	ND	5200	--	
07/01/98	82.04	10.51	0.00	71.53	-1.78	ND	--	ND	ND	ND	ND	640	--	
06/18/99	82.04	--	--	--	--	--	--	--	--	--	--	--	--	Well was destroyed
MW-5	**(Screen Interval in feet: DNA)**													
04/18/96	81.80	9.65	0.00	72.15	--	31000	--	5500	1400	1700	8100	66000	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through January 2005

76 Station 1871

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														
07/24/96	81.80	10.80	0.00	71.00	-1.15	32000	--	6400	ND	1600	6100	120000	--	
10/24/96	81.80	11.40	0.00	70.40	-0.60	17000	--	6900	ND	970	130	84000	--	
01/28/97	81.80	7.76	0.00	74.04	3.64	19000	--	6100	62	82	310	160000	--	
07/29/97	81.80	11.58	0.00	70.22	-3.82	ND	--	ND	ND	ND	ND	71000	--	
01/14/98	81.80	9.08	0.00	72.72	2.50	ND	--	3600	ND	ND	ND	80000	--	
07/01/98	81.80	11.25	0.00	70.55	-2.17	6400	--	2100	21	120	330	61000	--	
06/18/99	81.80	--	--	--	--	--	--	--	--	--	--	--	--	Well was destroyed
MW-6	**(Screen Interval in feet: 5.0-25.0)**													
06/18/99	78.91	9.30	0.00	69.61	--	2100	--	21	29	ND	47	97000	71000	
01/21/00	78.91	9.37	0.00	69.54	-0.07	1880	--	143	31.2	106	196	41200	48800	
07/10/00	78.91	8.94	0.00	69.97	0.43	5710	--	869	209	301	1430	22200	19500	
01/04/01	78.91	9.21	0.00	69.70	-0.27	ND	--	ND	ND	ND	ND	--	9510	
07/16/01	78.91	9.42	0.00	69.49	-0.21	4800	--	200	21	150	440	29000	34000	
01/31/02	78.91	8.50	0.00	70.41	0.92	12000	--	250	92	500	1500	26000	31000	
04/11/02	79.67	9.08	0.00	70.59	0.18	3600	--	42	32	39	280	120000	--	
07/11/02	79.67	9.70	0.00	69.97	-0.62	--	12000	ND<100	ND<100	ND<100	ND<200	--	15000	
10/15/02	79.67	9.96	0.00	69.71	-0.26	--	1300	ND<10	ND<10	ND<10	ND<20	--	3200	
01/14/03	79.67	8.31	0.00	71.36	1.65	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	120	
04/16/03	79.67	8.21	0.00	71.46	0.10	--	270	ND<0.50	ND<0.50	ND<0.50	1.3	--	15	
07/16/03	79.67	9.43	0.00	70.24	-1.22	--	290	39	0.60	ND<0.50	15	--	150	
10/02/03	79.67	9.92	0.00	69.75	-0.49	--	200	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	220	
01/07/04	79.67	8.08	0.00	71.59	1.84	--	140	2.4	ND<1.0	8.6	13	--	86	
04/02/04	79.67	8.63	0.00	71.04	-0.55	--	3200	ND<20	ND<20	ND<20	ND<40	--	5900	
07/29/04	79.67	9.75	0.00	69.92	-1.12	--	170	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	160	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
November 1992 Through January 2005
76 Station 1871

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														
11/24/04	79.67	9.59	0.00	70.08	0.16	--	80	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	45	
01/24/05	79.67	8.33	0.00	71.34	1.26	--	100	1.1	ND<0.50	0.60	1.1	--	40	
MW-7	**(Screen Interval in feet: 5.0-25.0)**													
06/18/99	79.92	8.70	0.00	71.22	--	ND	--	ND	ND	ND	ND	16000	13000	
01/21/00	79.92	9.30	0.00	70.62	-0.60	ND	--	ND	ND	ND	ND	12300	18200	
07/10/00	79.92	8.72	0.00	71.20	0.58	ND	--	ND	ND	ND	ND	16900	13800	
01/04/01	79.92	9.17	0.00	70.75	-0.45	ND	--	ND	ND	ND	0.719	--	37.3	
07/16/01	79.92	9.02	0.00	70.90	0.15	ND	--	ND	ND	ND	ND	7200	4700	
01/31/02	79.92	7.91	0.00	72.01	1.11	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	8900	9900	
04/11/02	80.67	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
07/11/02	80.67	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
10/15/02	80.67	9.81	0.00	70.86	--	--	ND<5000	ND<50	ND<50	ND<50	ND<100	--	12000	
01/14/03	80.67	7.89	0.00	72.78	1.92	--	ND<25000	ND<250	ND<250	ND<250	ND<500	--	33000	
04/16/03	80.67	8.04	0.00	72.63	-0.15	--	ND<25000	ND<250	ND<250	ND<250	ND<500	--	37000	
07/16/03	80.67	9.19	0.00	71.48	-1.15	--	25000	ND<250	ND<250	ND<250	ND<500	--	38000	
10/02/03	80.67	9.89	0.00	70.78	-0.70	--	17000	ND<100	ND<100	ND<100	ND<200	--	22000	
01/07/04	80.67	7.27	0.00	73.40	2.62	--	ND<20000	ND<200	460	ND<200	540	--	19000	
04/02/04	80.67	8.09	0.00	72.58	-0.82	--	3400	ND<20	ND<20	ND<20	ND<40	--	5100	
07/29/04	80.67	9.40	0.00	71.27	-1.31	--	7400	ND<50	ND<50	ND<50	ND<100	--	11000	
11/24/04	80.67	9.65	0.00	71.02	-0.25	--	6200	ND<50	ND<50	ND<50	ND<100	--	6800	
01/24/05	80.67	7.92	0.00	72.75	1.73	--	ND<5000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	13000	
MW-8	**(Screen Interval in feet: 5.0-25.0)**													
06/18/99	80.96	9.10	0.00	71.86	--	ND	--	ND	ND	ND	ND	290	160	
01/21/00	80.96	10.00	0.00	70.96	-0.90	ND	--	ND	ND	ND	1.09	224	221	

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November 1992 Through January 2005
76 Station 1871

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MW-8 continued														
07/10/00	80.96	7.94	0.00	73.02	2.06	ND	--	ND	ND	ND	ND	234	223	
01/04/01	80.96	9.76	0.00	71.20	-1.82	3790	--	141	8.92	128	375	--	34200	
07/16/01	80.96	9.15	0.00	71.81	0.61	ND	--	ND	ND	ND	ND	66	70	
01/31/02	80.96	7.99	0.00	72.97	1.16	5900	--	86	ND<10	630	390	670	700	
04/11/02	81.71	9.00	0.00	72.71	-0.26	250	--	2.0	ND<0.50	38	2.2	410	--	
07/11/02	81.71	9.60	0.00	72.11	-0.60	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	120	
10/15/02	81.71	10.60	0.00	71.11	-1.00	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	21	
01/14/03	81.71	8.63	0.00	73.08	1.97	--	ND<250	2.6	ND<2.5	18	ND<5.0	--	430	
04/16/03	81.71	8.98	0.00	72.73	-0.35	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	18	
07/16/03	81.71	9.63	0.00	72.08	-0.65	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	140	
10/02/03	81.71	10.41	0.00	71.30	-0.78	--	75	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	78	
01/07/04	81.71	8.21	0.00	73.50	2.20	--	ND<5000	ND<50	ND<50	ND<50	340	--	3700	
04/02/04	81.71	8.51	0.00	73.20	-0.30	--	3000	ND<20	ND<20	ND<20	ND<40	--	5200	
07/29/04	81.71	9.78	0.00	71.93	-1.27	--	3200	ND<25	ND<25	ND<25	ND<50	--	5500	
11/24/04	81.71	10.19	0.00	71.52	-0.41	--	2100	ND<10	ND<10	ND<10	ND<20	--	2400	
01/24/05	81.71	8.49	0.00	73.22	1.70	--	ND<2500	4.0	0.52	ND<0.50	29	--	1800	
MW-9	**(Screen Interval in feet: DNA)**													
01/31/02	82.07	14.72	0.00	67.35	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	680	910	
04/11/02	82.07	14.85	0.00	67.22	-0.13	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	620	--	
07/11/02	82.07	15.39	0.00	66.68	-0.54	--	580	ND<5.0	ND<5.0	ND<5.0	ND<10	--	580	
10/15/02	82.07	16.16	0.00	65.91	-0.77	--	570	ND<5.0	ND<5.0	ND<5.0	ND<10	--	1400	
01/14/03	82.07	14.75	0.00	67.32	1.41	--	ND<200	ND<2.0	ND<2.0	ND<2.0	ND<4.0	--	220	
04/16/03	82.07	14.51	0.00	67.56	0.24	--	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<10	--	860	
07/16/03	82.07	15.54	0.00	66.53	-1.03	--	ND<2500	ND<25	ND<25	ND<25	ND<50	--	1300	

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November 1992 Through January 2005

76 Station 1871

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MW-9 continued														
10/02/03	82.07	16.28	0.00	65.79	-0.74	--	820	ND<5.0	ND<5.0	ND<5.0	ND<10	--	990	
01/07/04	82.07	14.65	0.00	67.42	1.63	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	1200	
04/02/04	82.07	15.08	0.00	66.99	-0.43	--	510	ND<5.0	ND<5.0	ND<5.0	ND<10	--	850	
07/29/04	82.07	15.81	0.00	66.26	-0.73	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	1300	
11/24/04	82.07	16.25	0.00	65.82	-0.44	--	1100	ND<5.0	ND<5.0	ND<5.0	ND<10	--	1300	
01/24/05	82.07	14.96	0.00	67.11	1.29	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2300	
MW-10	**(Screen Interval in feet: DNA)**													
01/31/02	74.98	8.02	0.00	66.96	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	1.2	
04/11/02	74.98	7.60	0.00	67.38	0.42	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
07/11/02	74.98	8.91	0.00	66.07	-1.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.1	
10/15/02	74.98	11.49	0.00	63.49	-2.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
01/14/03	74.98	8.47	0.00	66.51	3.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
04/16/03	74.98	7.92	0.00	67.06	0.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
07/16/03	74.98	7.03	0.00	67.95	0.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
10/02/03	74.98	7.63	0.00	67.35	-0.60	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
01/07/04	74.98	6.22	0.00	68.76	1.41	--	54	ND<0.50	ND<0.50	1.3	4.5	--	ND<2.0	
04/02/04	74.98	7.49	0.00	67.49	-1.27	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.0	
07/29/04	74.98	7.41	0.00	67.57	0.08	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/24/04	74.98	7.55	0.00	67.43	-0.14	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.5	
01/24/05	74.98	6.40	0.00	68.58	1.15	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.71	
MW-11	**(Screen Interval in feet: DNA)**													
01/31/02	77.31	11.71	0.00	65.60	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0	
04/11/02	77.31	11.95	0.00	65.36	-0.24	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
07/11/02	77.31	12.79	0.00	64.52	-0.84	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through January 2005

76 Station 1871

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-11	**continued**													
10/15/02	77.31	13.67	0.00	63.64	-0.88	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
01/14/03	77.31	13.31	0.00	64.00	0.36	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
04/16/03	77.31	14.08	0.00	63.23	-0.77	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
07/16/03	77.31	12.98	0.00	64.33	1.10	--	65	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
10/02/03	77.31	12.96	0.00	64.35	0.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
01/07/04	77.31	16.20	0.00	61.11	-3.24	--	63	ND<0.50	ND<0.50	0.68	2.2	--	ND<2.0	
04/02/04	77.31	18.01	0.00	59.30	-1.81	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
07/29/04	77.31	14.39	0.00	62.92	3.62	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/24/04	77.31	16.72	0.00	60.59	-2.33	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
01/24/05	77.31	17.44	0.00	59.87	-0.72	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D	EDC	EDB	DO	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	ORP	pH	Ethanol 8260B
	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mV)	(pH)	(µg/l)
MW-1											
06/18/99	--	--	ND	--	ND	ND	ND	ND	--	--	ND
07/16/01	--	--	ND	--	ND	ND	ND	ND	--	--	ND
01/14/03	--	--	ND<2.0	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	ND<500
07/16/03	--	--	--	--	--	--	--	--	--	--	ND<10000
10/02/03	--	--	--	--	--	--	--	--	--	--	ND<25000
01/07/04	--	--	--	--	--	--	--	--	--	--	ND<20000
04/02/04	--	--	--	--	--	--	--	--	--	--	ND<50
07/29/04	--	--	--	--	--	--	--	--	--	--	ND<2000
11/24/04	--	--	--	3.08	--	--	--	--	-39	6.58	ND<2000
01/24/05	--	--	--	--	--	--	--	--	--	--	ND<2000
MW-4											
04/18/96	110	--	--	--	--	--	--	--	--	--	--
07/24/96	ND	--	--	--	--	--	--	--	--	--	--
10/24/96	ND	--	--	--	--	--	--	--	--	--	--
01/28/97	210	--	--	--	--	--	--	--	--	--	--
07/29/97	ND	--	--	--	--	--	--	--	--	--	--
01/14/98	ND	--	--	--	--	--	--	--	--	--	--
07/01/98	ND	--	--	--	--	--	--	--	--	--	--
MW-6											
06/18/99	--	ND	ND	--	ND	ND	ND	ND	--	--	ND
07/16/01	--	ND	ND	--	ND	ND	ND	ND	--	--	ND
07/11/02	--	ND<100	ND<100	--	ND<100	ND<1000	ND<200	ND<100	--	--	ND<5000
01/14/03	--	ND<2.0	ND<2.0	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	ND<500
07/16/03	--	--	--	--	--	--	--	--	--	--	ND<500
10/02/03	--	--	--	--	--	--	--	--	--	--	ND<1000
01/07/04	--	--	--	--	--	--	--	--	--	--	ND<1000

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D	EDC	EDB	DO	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	ORP	pH	Ethanol 8260B
	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mV)	(pH)	(µg/l)
MW-6 continued											
04/02/04	--	--	--	--	--	--	--	--	--	--	ND<2000
07/29/04	--	--	--	--	--	--	--	--	--	--	ND<100
11/24/04	--	--	--	2.81	--	--	--	--	-12	6.99	ND<50
01/24/05	--	--	--	--	--	--	--	--	--	--	ND<50
MW-7											
06/18/99	--	ND	ND	--	ND	ND	ND	ND	--	--	ND
07/16/01	--	ND	ND	--	ND	ND	ND	ND	--	--	ND
01/14/03	--	ND<1000	ND<1000	--	ND<1000	ND<50000	ND<1000	ND<1000	--	--	ND<250000
07/16/03	--	--	--	--	--	--	--	--	--	--	ND<250000
10/02/03	--	--	--	--	--	--	--	--	--	--	ND<100000
01/07/04	--	--	--	--	--	--	--	--	--	--	ND<200000
04/02/04	--	--	--	--	--	--	--	--	--	--	ND<2000
07/29/04	--	--	--	--	--	--	--	--	--	--	ND<5000
11/24/04	--	--	--	1.99	--	--	--	--	-24	6.60	ND<5000
01/24/05	--	--	--	--	--	--	--	--	--	--	ND<5000
MW-8											
06/18/99	--	ND	ND	--	ND	ND	ND	ND	--	--	ND
07/16/01	--	ND	ND	--	ND	ND	ND	ND	--	--	ND
01/14/03	--	ND<10	ND<10	--	ND<10	ND<500	ND<10	ND<10	--	--	ND<2500
07/16/03	--	--	--	--	--	--	--	--	--	--	ND<500
10/02/03	--	--	--	--	--	--	--	--	--	--	ND<500
01/07/04	--	--	--	--	--	--	--	--	--	--	ND<50000
04/02/04	--	--	--	--	--	--	--	--	--	--	ND<2000
07/29/04	--	--	--	--	--	--	--	--	--	--	ND<2500
11/24/04	--	--	--	2.71	--	--	--	--	-36	6.67	ND<1000
01/24/05	--	--	--	--	--	--	--	--	--	--	ND<2500

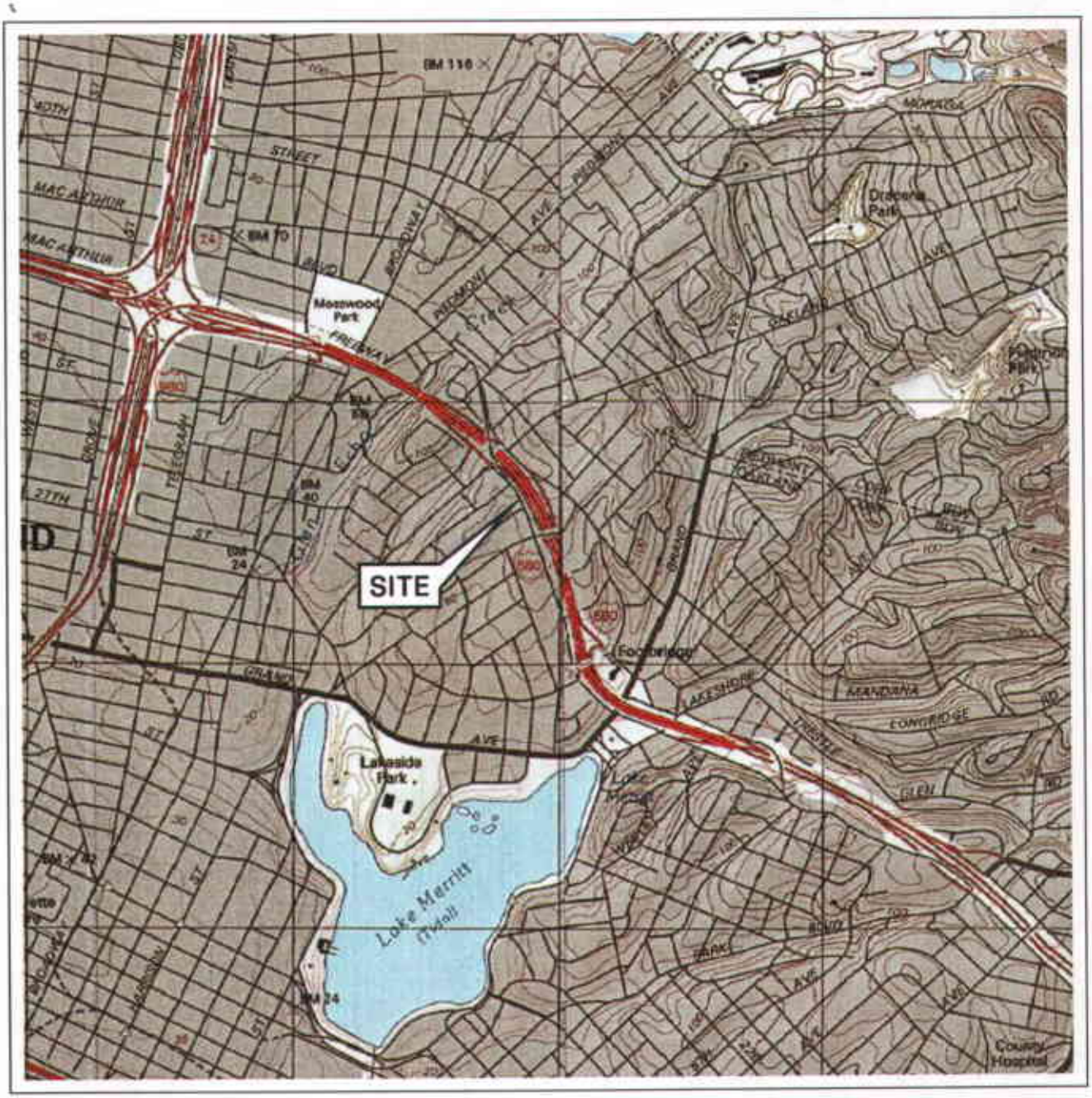
Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D	EDC	EDB	DO	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	ORP	pH	Ethanol 8260B
	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mV)	(pH)	(µg/l)
MW-9											
01/31/02	--	ND<7.1	ND<7.1	--	ND<7.1	ND<140	ND<7.1	ND<7.1	--	--	ND<3600
01/14/03	--	ND<8.0	ND<8.0	--	ND<8.0	ND<400	ND<8.0	ND<8.0	--	--	ND<2000
07/16/03	--	--	--	--	--	--	--	--	--	--	ND<25000
10/02/03	--	--	--	--	--	--	--	--	--	--	ND<5000
01/07/04	--	--	--	--	--	--	--	--	--	--	ND<10000
04/02/04	--	--	--	--	--	--	--	--	--	--	ND<500
07/29/04	--	--	--	--	--	--	--	--	--	--	ND<1000
11/24/04	--	--	--	3.24	--	--	--	--	-67	6.47	ND<500
01/24/05	--	--	--	--	--	--	--	--	--	--	ND<1000
MW-10											
01/31/02	--	ND<1.0	ND<1.0	--	ND<1.0	ND<20	ND<1.0	ND<1.0	--	--	ND<500
01/14/03	--	ND<2.0	ND<2.0	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	ND<500
07/16/03	--	--	--	--	--	--	--	--	--	--	ND<500
10/02/03	--	--	--	--	--	--	--	--	--	--	ND<500
01/07/04	--	--	--	--	--	--	--	--	--	--	ND<500
04/02/04	--	--	--	--	--	--	--	--	--	--	ND<50
07/29/04	--	--	--	--	--	--	--	--	--	--	ND<50
11/24/04	--	--	--	2.59	--	--	--	--	-29	6.89	ND<50
01/24/05	--	--	--	--	--	--	--	--	--	--	ND<50
MW-11											
01/31/02	--	ND<1.0	ND<1.0	--	ND<1.0	ND<20	ND<1.0	ND<1.0	--	--	ND<500
01/14/03	--	ND<2.0	ND<2.0	--	ND<2.0	ND<100	ND<2.0	ND<2.0	--	--	ND<500
07/16/03	--	--	--	--	--	--	--	--	--	--	ND<500
10/02/03	--	--	--	--	--	--	--	--	--	--	ND<500
01/07/04	--	--	--	--	--	--	--	--	--	--	ND<500
04/02/04	--	--	--	--	--	--	--	--	--	--	ND<50

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D	EDC	EDB	DO	TAME 8260B	TBA 8260B	DIPE 8260B	ETBE 8260B	ORP	pH	Ethanol 8260B
	(µg/l)	(µg/l)	(µg/l)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(mV)	(pH)	(µg/l)
MW-11	**continued**										
07/29/04	--	--	--	--	--	--	--	--	--	--	ND<50
11/24/04	--	--	--	3.85	--	--	--	--	143	6.75	ND<50
01/24/05	--	--	--	--	--	--	--	--	--	--	ND<50

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 1871
96 MacArthur Boulevard
Oakland, California

TRC

FIGURE 1

PS = 1:1

Graphics on \\r1(i:)\VICINITY MAPS\1871vm.dwg 11/17/03 blw

INTERSTATE HIGHWAY 580

WESTBOUND ON-RAMP TO I-580

OVERHEAD RAMP

SIDEWALK

SANTA CLARA AVENUE

MACARTHUR BLVD. OVERCROSSING EASTBOUND ON-RAMP

PLANTER

MACARTHUR BOULEVARD

DRIVEWAY

SIDEWALK

QUICK STOP MARKET BUILDING

68.00

70.00

72.00

74.00

MW-9
67.11

MW-8
73.22

SP-H

UST

UST

SP-G

MW-7
72.75

SP-DS

DISPENSER ISLANDS

SP-A

DRIVEWAY

SP-F

MW-6
71.34

SP-E

SP-DS
SP-DD

SP-C

SP-BS
SP-BD

MW-1
74.01

DRIVEWAY

SIDEWALK

HARRISON STREET

SIDEWALK

MW-10
68.58

OVERHEAD FREEWAY STRUCTURE

MW-11
59.87*

WESTBOUND ON-RAMP TO I-580

LANDSCAPING

MACARTHUR BOULEVARD

N

LEGEND

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

SP-H ⊕ Ozone Sparge Well

74.00 — Groundwater Elevation Contour

General Direction of Groundwater Flow

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. * = not included in groundwater contour interpretation.

GROUNDWATER ELEVATION CONTOUR MAP
January 24, 2005

76 Station 1871
96 MacArthur Boulevard
Oakland, California

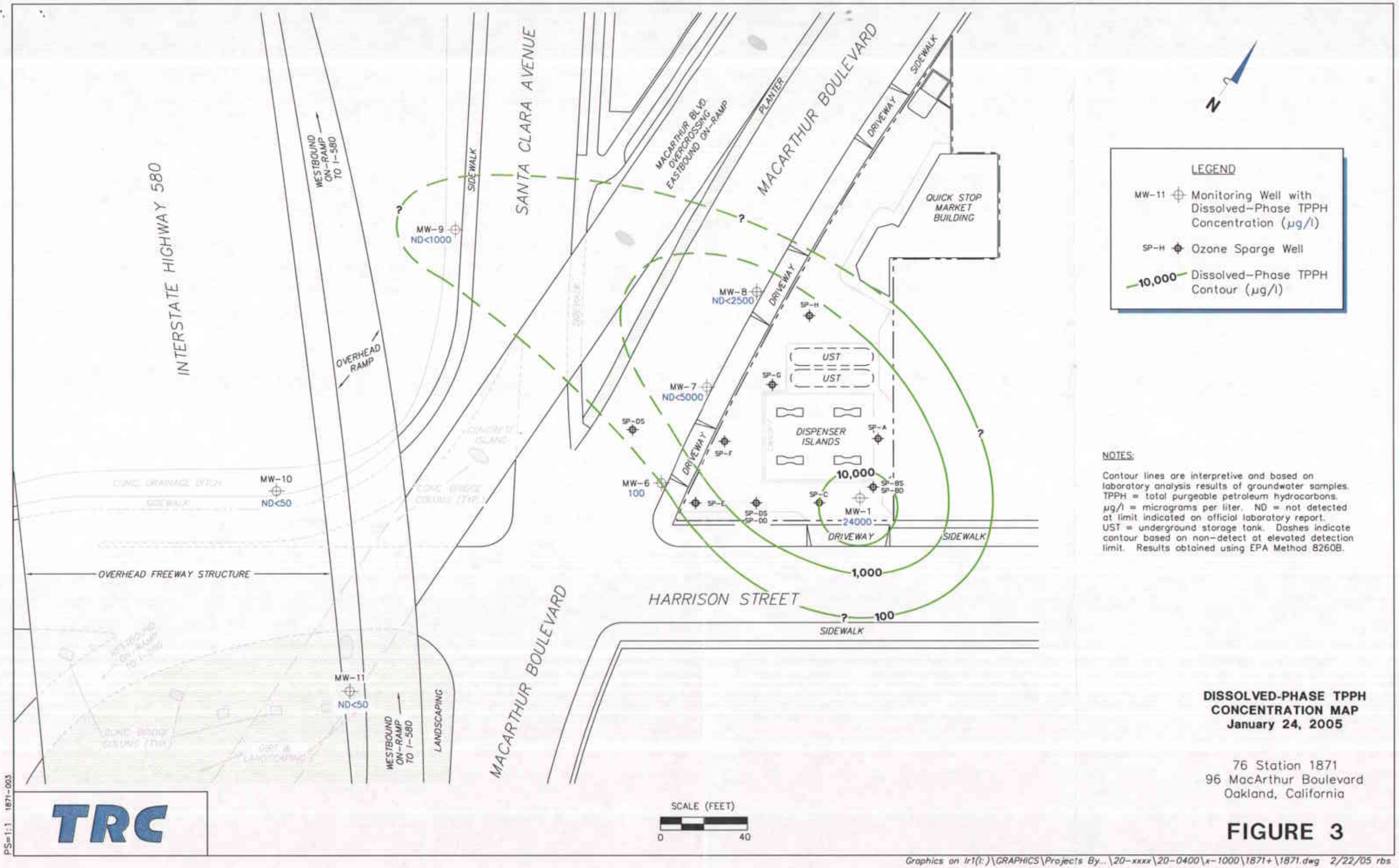
FIGURE 2

SCALE (FEET)
0 40

PS=1:1 1871-003

TRC

Graphics on Ir1(I:)\GRAPHICS\Projects By...\20-xxxx\20-0400\x-1000\1871+\1871.dwg 2/22/05 rbs



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. Dashes indicate contour based on non-detect at elevated detection limit. Results obtained using EPA Method 8260B.

DISSOLVED-PHASE TPPH CONCENTRATION MAP
January 24, 2005

76 Station 1871
96 MacArthur Boulevard
Oakland, California

FIGURE 3

TRC

PS=1:1 1871-003

Graphics on Ir1(I:)\GRAPHICS\Projects By...\20-xxxx\20-0400\x-1000\1871+\1871.dwg 2/22/05 rbs

INTERSTATE HIGHWAY 580

WESTBOUND ON-RAMP TO I-580

OVERHEAD RAMP

SIDEWALK

SANTA CLARA AVENUE

MACARTHUR BLVD. OVERCROSSING EASTBOUND ON-RAMP

PLANTER

MACARTHUR BOULEVARD

DRIVEWAY

SIDEWALK

QUICK STOP MARKET BUILDING

MW-9
ND<0.50

MW-8
4.0

MW-7
ND<0.50

MW-6
1.1

MW-10
ND<0.50

MW-11
ND<0.50

MW-1
240

SP-H

SP-G

SP-A

SP-F

SP-E

SP-C

SP-BS

SP-BD

SP-DS

SP-DD

UST

UST

DISPENSER ISLANDS

DRIVEWAY

DRIVEWAY

SIDEWALK

100

10

1.0

?

?

?

HARRISON STREET

SIDEWALK

MACARTHUR BOULEVARD

OVERHEAD FREEWAY STRUCTURE

WESTBOUND ON-RAMP TO I-580

LANDSCAPING

CONC. DRAINAGE DITCH

CONC. BRIDGE COLUMNS (TYP.)

SCALE (FEET)

0 40

N

LEGEND

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

SP-H ⊕ Ozone Sparge Well

100 Dissolved-Phase Benzene Contour (µg/l)

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. UST = underground storage tank.

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
January 24, 2005

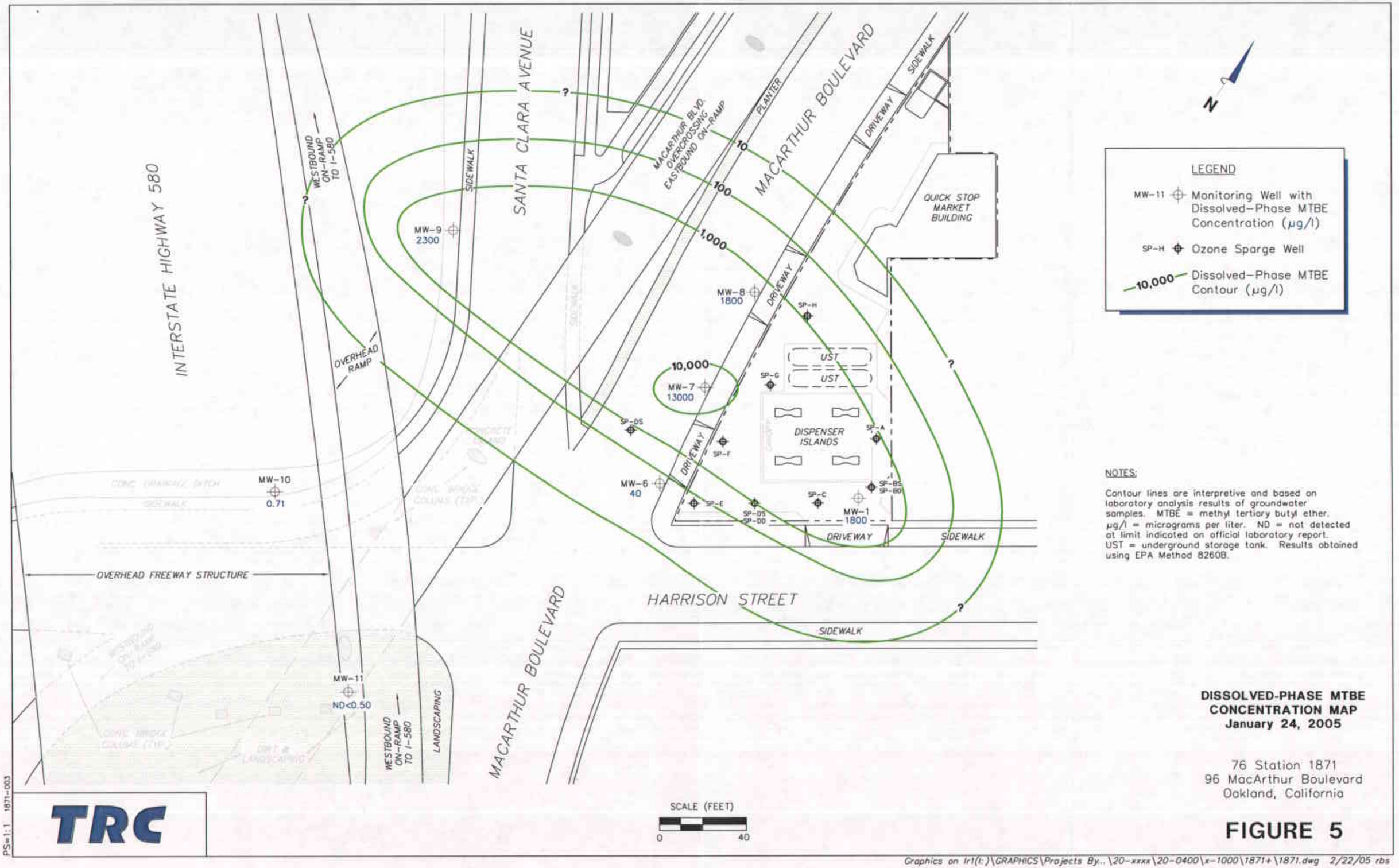
76 Station 1871
96 MacArthur Boulevard
Oakland, California

FIGURE 4

TRC

PS=1:1 1871-003

Graphics on Ir1(I:)\GRAPHICS\Projects By...\20-xxxx\20-0400\x-1000\1871+\1871.dwg 2/22/05 rbs



DISSOLVED-PHASE MTBE CONCENTRATION MAP
January 24, 2005

76 Station 1871
96 MacArthur Boulevard
Oakland, California

FIGURE 5

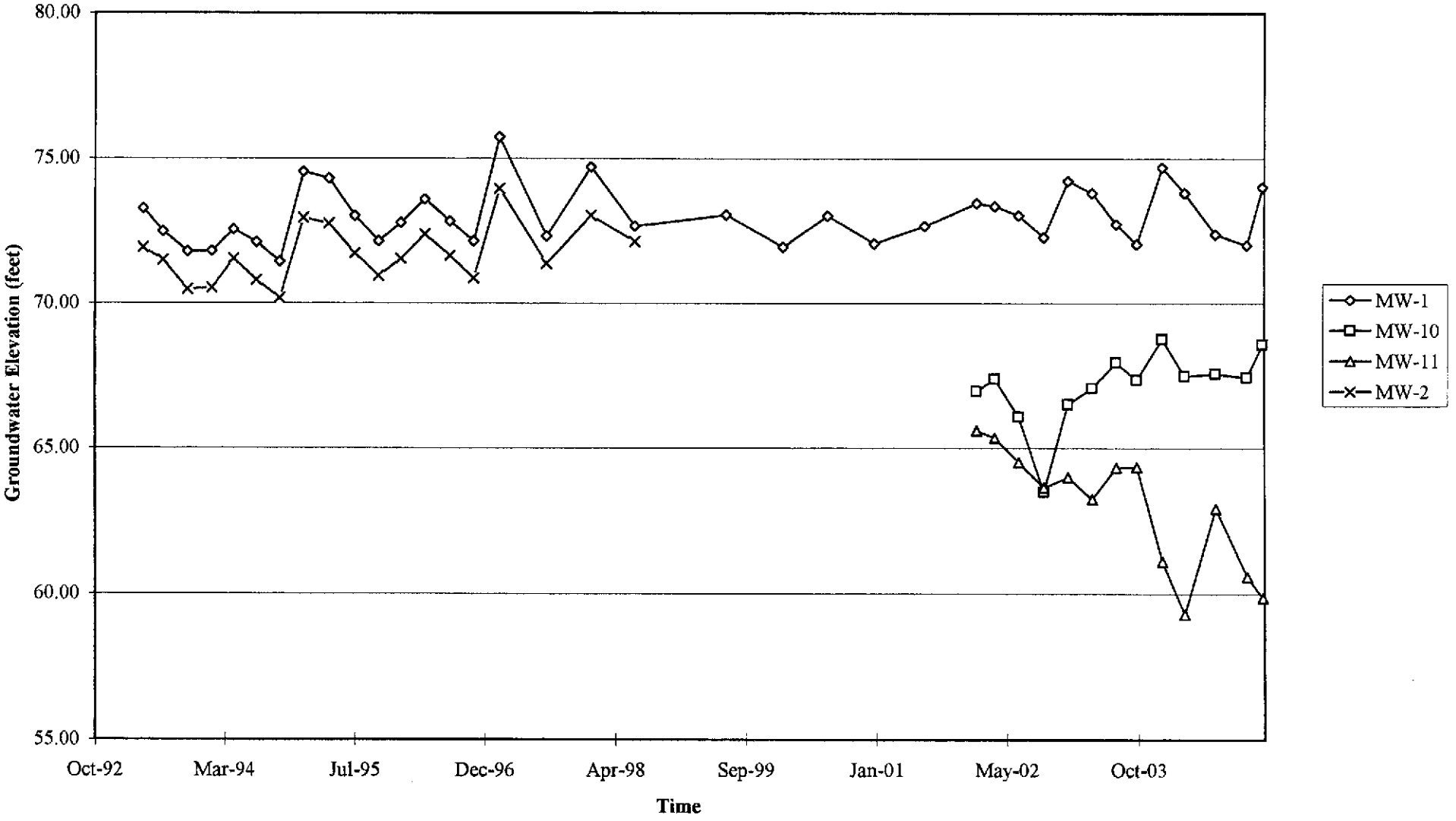
TRC

PS=1:1 1871-003

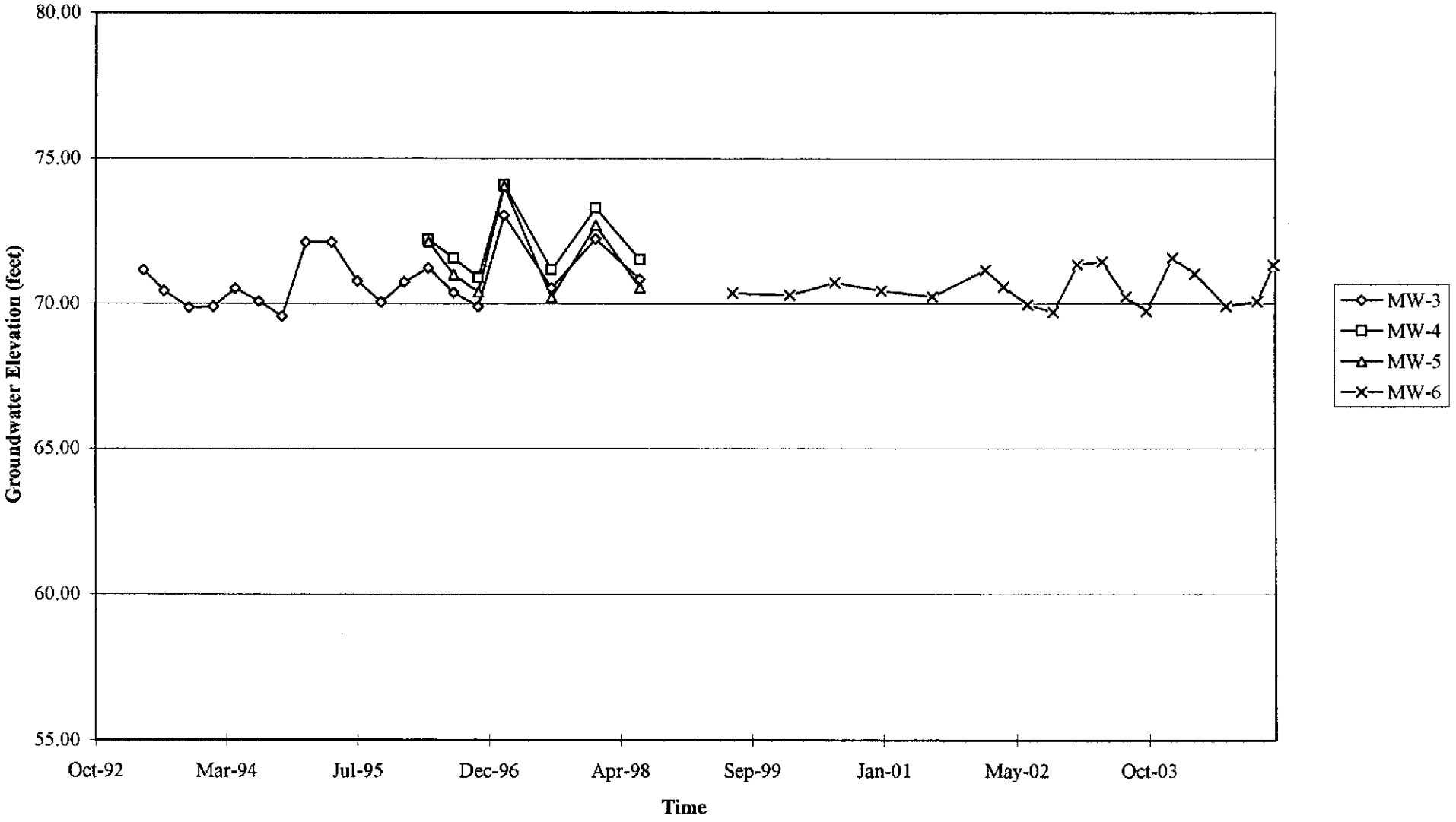
Graphics on Ir1(I:)\GRAPHICS\Projects By...\20-xxxx\20-0400\x-1000\1871+\1871.dwg 2/22/05 rbs

GRAPHS

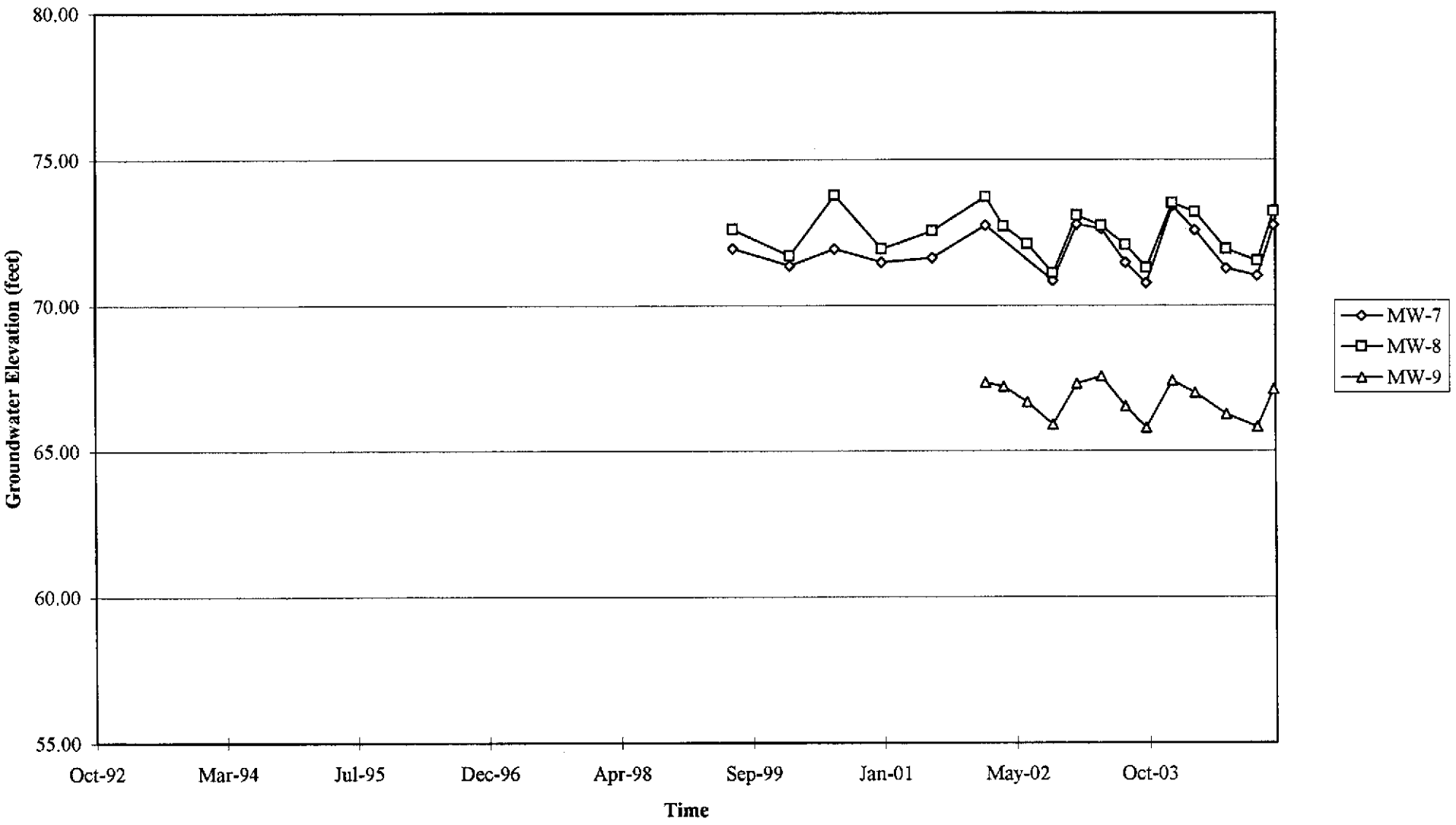
Groundwater Elevations vs. Time
76 Station 1871



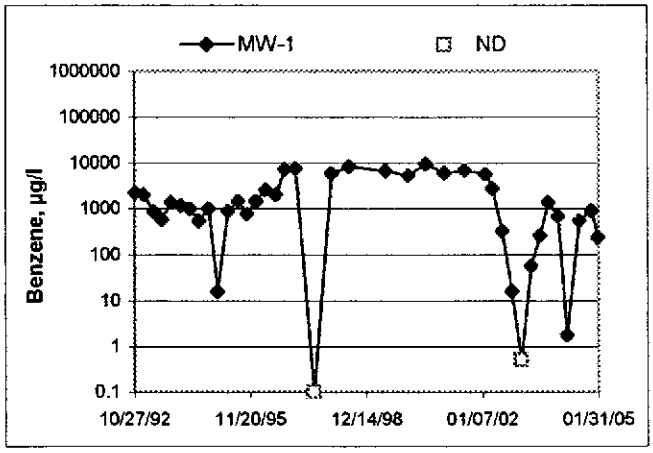
Groundwater Elevations vs. Time
76 Station 1871

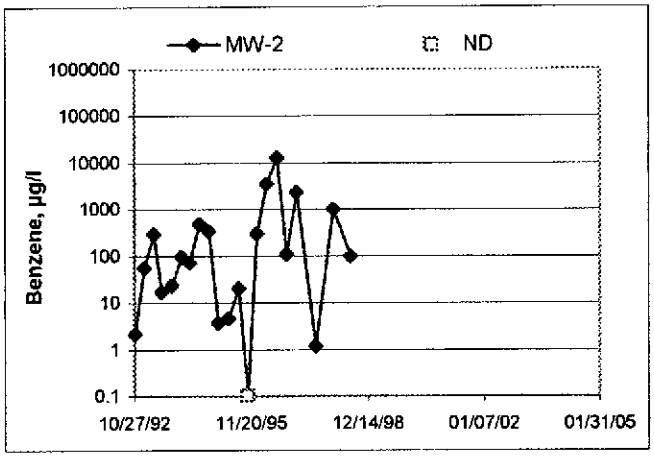


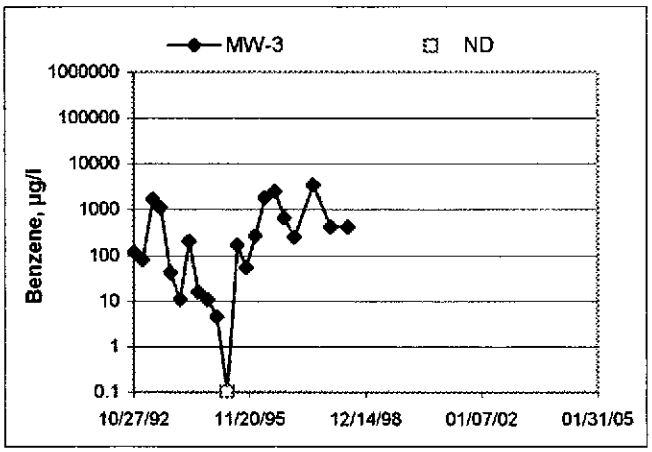
Groundwater Elevations vs. Time
76 Station 1871

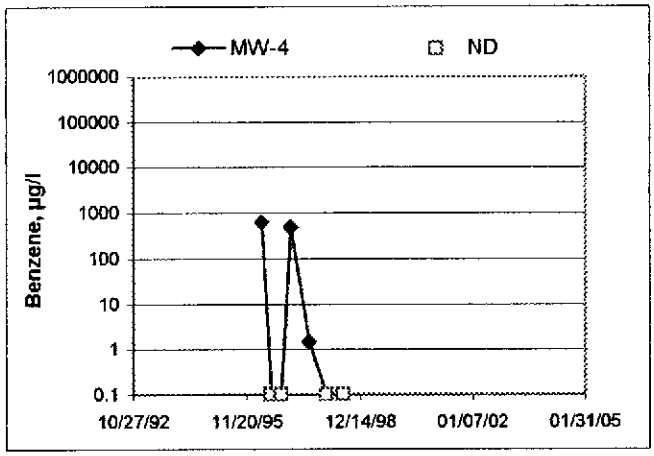


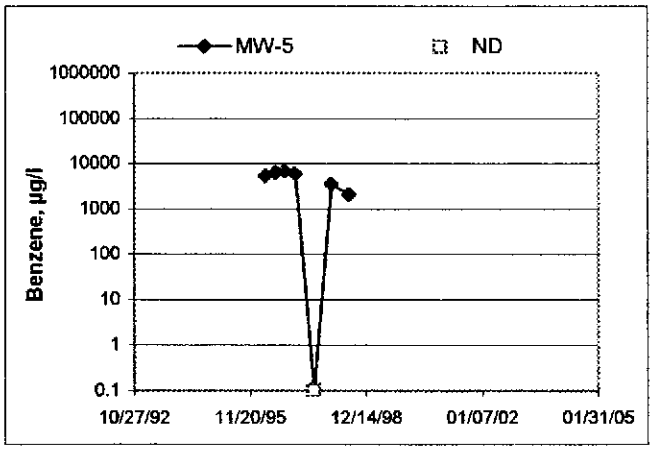
Benzene Concentrations vs Time
76 Station 1871

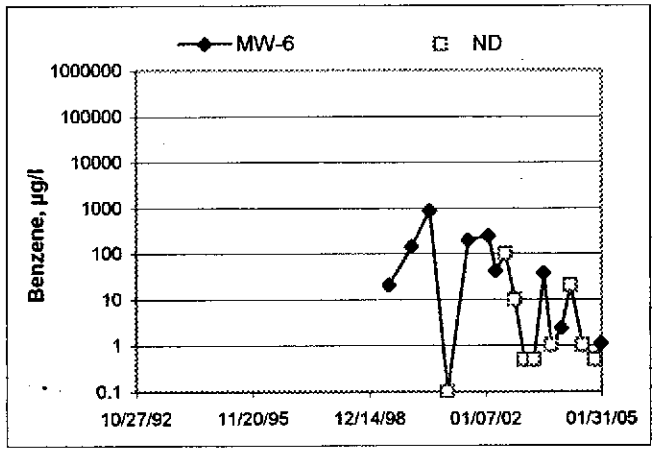


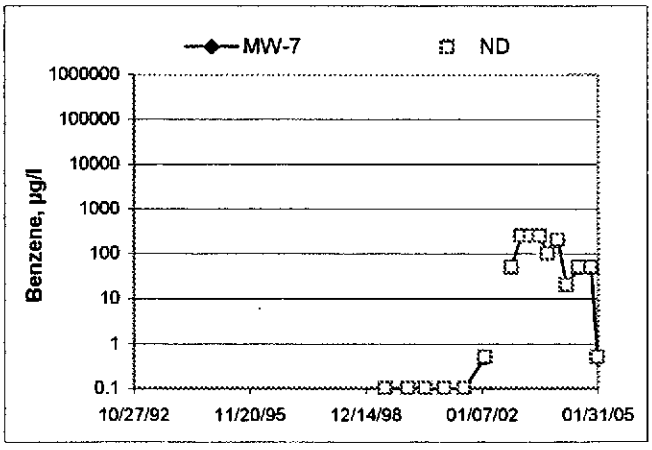


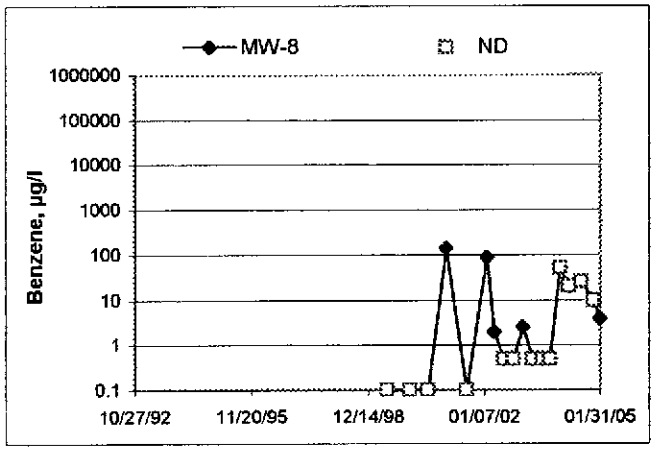




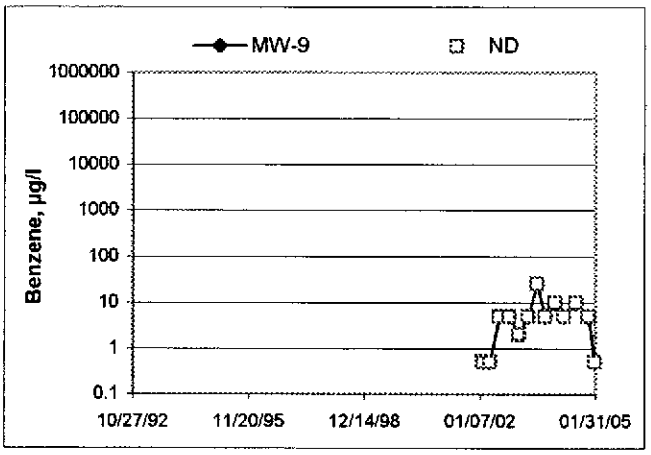


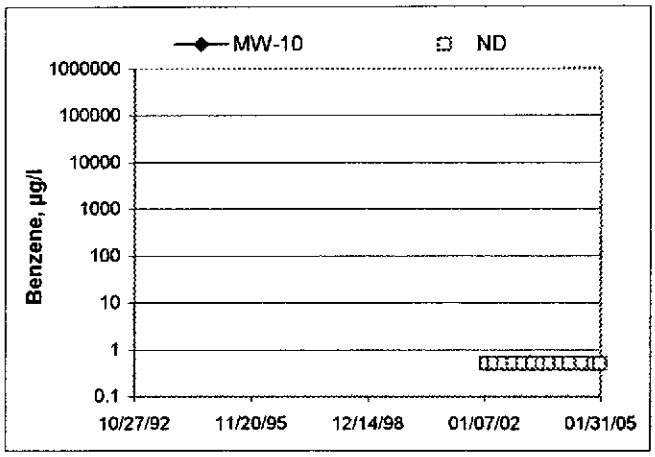


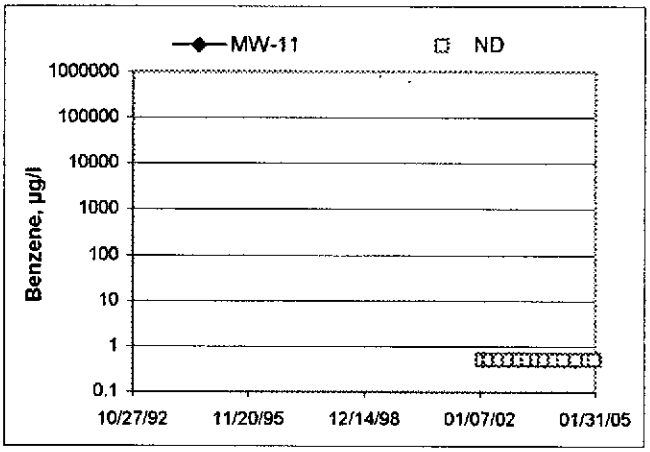




Benzene Concentrations vs Time
76 Station 1871







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: Anthony Job #/Task #: 41050001 Date: 1-24-05

Site # 1871 Project Manager A. Collins Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-9	✓	6.37	1961	14.96	~~0~~	~~0~~	11:06	2"
MW-8	✓	6.47	24.28	8.49	~~0~~	~~0~~	11:23	2"
MW-7	✓	6.53	24.31	7.72	~~0~~	~~0~~	11:30	2"
MW-6	✓	6:58	24.47	8.37	~~0~~	~~0~~	11:38	2"
MW-11	✓	7.08	30.05	17.44	~~0~~	~~0~~	11:54	2"
MW-10	✓	7.16	19.94	6.40	~~0~~	~~0~~	12:12	2"
MW-1	✓	7.21	23.99	12.98	~~0~~	~~0~~	12:37	4"

FIELD DATA COMPLETE ✓	QA/QC ✓	COC ✓	WELL BOX CONDITION SHEETS ✓
WTT CERTIFICATE	MANIFEST	DRUM INVENTORY ✓	TRAFFIC CONTROL ✓

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Anthony

Site: 1871 Project No.: 41050001 Date: 1-24-05

Well No.: MW-9 Purge Method: hand bail

Depth to Water (feet): 14.96 Depth to Product (feet): ø

Total Depth (feet): 19.61 LPH & Water Recovered (gallons): ø

Water Column (feet): 4.65 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 15.89 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F (C))	pH	~~Turbidity~~ ORP	D.O.
7:59			1	769	18.9	6.33	-45	22.5
			2	751	19.1	6.38	-35	18.5
	8:12		3	729	19.1	6.42	-45	26.0

Static at Time Sampled	Total Gallons Purged	Time Sampled
15.04	3	11:06

Comments:

Well No.: MW-8 Purge Method: D

Depth to Water (feet): 8.49 Depth to Product (feet): ø

Total Depth (feet): 24.28 LPH & Water Recovered (gallons): ø

Water Column (feet): 15.79 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.65 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F (C))	pH	~~Turbidity~~ ORP	D.O.
8:33			3	289	72.4	8.21	56	41.2
			6	288	63.5	7.46	54	39.1
	8:46		9	305	54.7	7.34	60	41.6

Static at Time Sampled	Total Gallons Purged	Time Sampled
9.25	9	1123

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: Anthony

Site: 1871 Project No.: 41050001 Date: 1-24-05

Well No.: MW-7 Purge Method: D

Depth to Water (feet): 7.92 Depth to Product (feet): -0

Total Depth (feet): 24.31 LPH & Water Recovered (gallons): 0

Water Column (feet): 16.39 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.19 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F C)	pH	~~Turbidity~~ orp	D.O.
8:54			3	506	46.8	6.60	71	14.5
			6	507	44.4	6.69	57	21.5
	903		9	456	54.9	6.79	48	17.2

Static at Time Sampled	Total Gallons Purged	Time Sampled
8:23	9	11:30

Comments:

Well No.: MW-6 Purge Method: D

Depth to Water (feet): 8.33 Depth to Product (feet): -0

Total Depth (feet): 24.49 LPH & Water Recovered (gallons): 0

Water Column (feet): 16.16 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.56 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F C)	pH	~~Turbidity~~ orp	D.O.
9:14			3	484	39.3	7.37	72	15.3
			6	475	38.2	7.20	73	14.9
	9:23		9	491	38.9	6.83	70	14.5

Static at Time Sampled	Total Gallons Purged	Time Sampled
8.61	9	11:38

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: Anthony

Site: 1871 Project No.: 41050001 Date: 1-24-05

Well No.: MW-11 Purge Method: D

Depth to Water (feet): 17.44 Depth to Product (feet): 0

Total Depth (feet): 30.05 LPH & Water Recovered (gallons): 0

Water Column (feet): 12.61 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 19.96 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F,C)	pH	~~Turbidity~~ ORP	D.O.
9:38			2	1569	30.8	6.65	79	32.6
			4	1640	29.4	6.55	84	33.8
	946		6	1647	29.4	6.56	83	30.01

Static at Time Sampled	Total Gallons Purged	Time Sampled
22.22	6	11:54

Comments: did not recover in 2 hours

Well No.: MW-10 Purge Method: D

Depth to Water (feet): 6.40 Depth to Product (feet): 0

Total Depth (feet): 19.94 LPH & Water Recovered (gallons): 0

Water Column (feet): 13.54 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 9.11 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F,C)	pH	~~Turbidity~~ ORP	D.O.
10.04			2	505	13.4	7.22	87	25.5
			4	542	13.2	7.17	86	28.1
	10.12		6	545	13.5	6.85	84	27.5

Static at Time Sampled	Total Gallons Purged	Time Sampled
15.28	6	12:12

Comments: Did not recover in 2 hours

GROUNDWATER SAMPLING FIELD NOTES

Technician: Anthony

Site: 1871 Project No.: 41050001 Date: 1-24-05

Well No.: MW-1 Purge Method: D

Depth to Water (feet): 12.98 Depth to Product (feet): 0

Total Depth (feet): 23.99 LPH & Water Recovered (gallons): 0

Water Column (feet): 11.01 Casing Diameter (Inches): 4"

80% Recharge Depth (feet): 15.18 1 Well Volume (gallons): 7

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	~~Turbidity~~ ORP	D.O.
10:25			7	340	56.8	6.75	100	17.0
			14	374	51.2	6.74	90	15.1
	10:37		21	407	51.5	6.32	96	14.3

Static at Time Sampled	Total Gallons Purged	Time Sampled
18.20	21	12:37

Comments: did not recover in 2 hours

Well No.: _____ Purge Method: _____

Depth to Water (feet): _____ Depth to Product (feet): _____

Total Depth (feet): _____ LPH & Water Recovered (gallons): _____

Water Column (feet): _____ Casing Diameter (Inches): _____

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

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.

Static at Time Sampled	Total Gallons Purged	Time Sampled

Comments: _____

SEVERN TRENT STL

Submission#: 2005-01-0742

TRC Alton Geoscience- Irvine

February 09, 2005

21 Technology Drive
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 41050001FA20
Project: Conoco Phillips # 1871
Site: 96 MacArthur, Oakland

Attached is our report for your samples received on 01/26/2005 15:00
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 03/12/2005 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: 2005-01-0742

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine
Attn.: Anju Farfan

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

Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-9	01/24/2005 11:06	Water	1
MW-8	01/24/2005 11:23	Water	2
MW-7	01/24/2005 11:30	Water	3
MW-6	01/24/2005 11:38	Water	4
MW-11	01/24/2005 11:54	Water	5
MW-10	01/24/2005 12:12	Water	6
MW-1	01/24/2005 12:37	Water	7

SEVERN TRENT STL

Submission: 2005-01-0742

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine
Attn.: Anju Farfan

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

Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

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

Sample ID: **MW-9**
Lab ID: 2005-01-0742 - 1

Sampled: 01/24/2005 11:06
Extracted: 2/7/2005 15:23
2/7/2005 09:23

Matrix: Water
QC Batch#: 2005/02/07-01.07
2005/02/07-1B.65

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1000	ug/L	20.00	02/07/2005 09:23	
Benzene	ND	0.50	ug/L	1.00	02/07/2005 15:23	
Toluene	ND	0.50	ug/L	1.00	02/07/2005 15:23	
Ethylbenzene	ND	0.50	ug/L	1.00	02/07/2005 15:23	
Total xylenes	ND	1.0	ug/L	1.00	02/07/2005 15:23	
Methyl tert-butyl ether (MTBE)	2300	10	ug/L	20.00	02/07/2005 09:23	
Ethanol	ND	1000	ug/L	20.00	02/07/2005 09:23	
Surrogate(s)						
1,2-Dichloroethane-d4	100.3	73-130	%	1.00	02/07/2005 15:23	
1,2-Dichloroethane-d4	90.8	73-130	%	20.00	02/07/2005 09:23	
Toluene-d8	97.3	81-114	%	1.00	02/07/2005 15:23	
Toluene-d8	98.9	81-114	%	20.00	02/07/2005 09:23	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine
Attn.: Anju Farfan

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

Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

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

Sample ID: **MW-8**
Lab ID: 2005-01-0742 - 2

Sampled: 01/24/2005 11:23
Extracted: 2/7/2005 15:54
2/7/2005 09:48

Matrix: Water
QC Batch#: 2005/02/07-01.07
2005/02/07-1B.65

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	2500	ug/L	50.00	02/07/2005 09:48	
Benzene	4.0	0.50	ug/L	1.00	02/07/2005 15:54	
Toluene	0.52	0.50	ug/L	1.00	02/07/2005 15:54	
Ethylbenzene	ND	0.50	ug/L	1.00	02/07/2005 15:54	
Total xylenes	29	1.0	ug/L	1.00	02/07/2005 15:54	
Methyl tert-butyl ether (MTBE)	1800	25	ug/L	50.00	02/07/2005 09:48	
Ethanol	ND	2500	ug/L	50.00	02/07/2005 09:48	
Surrogate(s)						
1,2-Dichloroethane-d4	93.9	73-130	%	50.00	02/07/2005 15:54	
1,2-Dichloroethane-d4	97.7	73-130	%	1.00	02/07/2005 09:48	
Toluene-d8	101.9	81-114	%	50.00	02/07/2005 09:48	
Toluene-d8	96.5	81-114	%	1.00	02/07/2005 15:54	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	**MW-7**	Lab ID:	2005-01-0742 - 3
Sampled:	01/24/2005 11:30	Extracted:	2/7/2005 16:25 2/7/2005 10:14
Matrix:	Water	QC Batch#:	2005/02/07-01.07 2005/02/07-1B.65

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	5000	ug/L	100.00	02/07/2005 10:14	
Benzene	ND	0.50	ug/L	1.00	02/07/2005 16:25	
Toluene	ND	0.50	ug/L	1.00	02/07/2005 16:25	
Ethylbenzene	ND	0.50	ug/L	1.00	02/07/2005 16:25	
Total xylenes	ND	1.0	ug/L	1.00	02/07/2005 16:25	
Methyl tert-butyl ether (MTBE)	13000	50	ug/L	100.00	02/07/2005 10:14	
Ethanol	ND	5000	ug/L	100.00	02/07/2005 10:14	
Surrogate(s)						
1,2-Dichloroethane-d4	99.0	73-130	%	100.00	02/07/2005 10:14	
1,2-Dichloroethane-d4	99.8	73-130	%	1.00	02/07/2005 16:25	
Toluene-d8	100.4	81-114	%	100.00	02/07/2005 10:14	
Toluene-d8	96.7	81-114	%	1.00	02/07/2005 16:25	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Prep(s): 5030B
Sample ID: **MW-6**
Sampled: 01/24/2005 11:38
Matrix: Water

Test(s): 8260B
Lab ID: 2005-01-0742 - 4
Extracted: 2/7/2005 21:33
QC Batch#: 2005/02/07-4A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	100	50	ug/L	1.00	02/07/2005 21:33	
Benzene	1.1	0.50	ug/L	1.00	02/07/2005 21:33	
Toluene	ND	0.50	ug/L	1.00	02/07/2005 21:33	
Ethylbenzene	0.60	0.50	ug/L	1.00	02/07/2005 21:33	
Total xylenes	1.1	1.0	ug/L	1.00	02/07/2005 21:33	
Methyl tert-butyl ether (MTBE)	40	0.50	ug/L	1.00	02/07/2005 21:33	
Ethanol	ND	50	ug/L	1.00	02/07/2005 21:33	
Surrogate(s)						
1,2-Dichloroethane-d4	101.7	73-130	%	1.00	02/07/2005 21:33	
Toluene-d8	95.3	81-114	%	1.00	02/07/2005 21:33	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Prep(s): 5030B
Sample ID: **MW-11**
Sampled: 01/24/2005 11:54
Matrix: Water

Test(s): 8260B
Lab ID: 2005-01-0742 - 5
Extracted: 2/5/2005 12:58
QC Batch#: 2005/02/05-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	02/05/2005 12:58	Q6
Benzene	ND	0.50	ug/L	1.00	02/05/2005 12:58	
Toluene	ND	0.50	ug/L	1.00	02/05/2005 12:58	
Ethylbenzene	ND	0.50	ug/L	1.00	02/05/2005 12:58	
Total xylenes	ND	1.0	ug/L	1.00	02/05/2005 12:58	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	02/05/2005 12:58	
Ethanol	ND	50	ug/L	1.00	02/05/2005 12:58	
Surrogate(s)						
1,2-Dichloroethane-d4	95.0	73-130	%	1.00	02/05/2005 12:58	
Toluene-d8	93.4	81-114	%	1.00	02/05/2005 12:58	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine
Attn.: Anju Farfan

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

Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Prep(s): 5030B
Sample ID: **MW-10**
Sampled: 01/24/2005 12:12
Matrix: Water

Test(s): 8260B
Lab ID: 2005-01-0742 - 6
Extracted: 2/5/2005 14:04
QC Batch#: 2005/02/05-1A.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	02/05/2005 14:04	
Benzene	ND	0.50	ug/L	1.00	02/05/2005 14:04	
Toluene	ND	0.50	ug/L	1.00	02/05/2005 14:04	
Ethylbenzene	ND	0.50	ug/L	1.00	02/05/2005 14:04	
Total xylenes	ND	1.0	ug/L	1.00	02/05/2005 14:04	
Methyl tert-butyl ether (MTBE)	0.71	0.50	ug/L	1.00	02/05/2005 14:04	
Ethanol	ND	50	ug/L	1.00	02/05/2005 14:04	
Surrogate(s)						
1,2-Dichloroethane-d4	94.0	73-130	%	1.00	02/05/2005 14:04	
Toluene-d8	93.9	81-114	%	1.00	02/05/2005 14:04	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

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

Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

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

Sample ID: **MW-1**
Lab ID: 2005-01-0742 - 7

Sampled: 01/24/2005 12:37
Extracted: 2/7/2005 11:07

Matrix: Water
QC Batch#: 2005/02/07-1B.65

Analysis Flag: L2 (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	24000	2000	ug/L	40.00	02/07/2005 11:07	
Benzene	240	20	ug/L	40.00	02/07/2005 11:07	
Toluene	ND	20	ug/L	40.00	02/07/2005 11:07	
Ethylbenzene	1100	20	ug/L	40.00	02/07/2005 11:07	
Total xylenes	3600	40	ug/L	40.00	02/07/2005 11:07	
Methyl tert-butyl ether (MTBE)	1800	20	ug/L	40.00	02/07/2005 11:07	
Ethanol	ND	2000	ug/L	40.00	02/07/2005 11:07	
Surrogate(s)						
1,2-Dichloroethane-d4	99.0	73-130	%	40.00	02/07/2005 11:07	
Toluene-d8	102.0	81-114	%	40.00	02/07/2005 11:07	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine
Attn.: Anju Farfan

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

Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2005/02/05-1A.64-053

Water

Test(s): 8260B
QC Batch # 2005/02/05-1A.64
Date Extracted: 02/05/2005 09:53

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	02/05/2005 09:53	
Benzene	ND	0.5	ug/L	02/05/2005 09:53	
Toluene	ND	0.5	ug/L	02/05/2005 09:53	
Ethylbenzene	ND	0.5	ug/L	02/05/2005 09:53	
Total xylenes	ND	1.0	ug/L	02/05/2005 09:53	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	02/05/2005 09:53	
Ethanol	ND	50	ug/L	02/05/2005 09:53	
Surrogates(s)					
1,2-Dichloroethane-d4	105.6	73-130	%	02/05/2005 09:53	
Toluene-d8	104.6	81-114	%	02/05/2005 09:53	

Gas/BTEX Fuel Oxygenates by 8260B

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Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/02/07-01.07

MB: 2005/02/07-01.07-003

Date Extracted: 02/07/2005 14:44

Compound	Conc.	RL	Unit	Analyzed	Flag
Benzene	ND	0.5	ug/L	02/07/2005 14:44	
Toluene	ND	0.5	ug/L	02/07/2005 14:44	
Ethylbenzene	ND	0.5	ug/L	02/07/2005 14:44	
Total xylenes	ND	1.0	ug/L	02/07/2005 14:44	
Surrogates(s)					
1,2-Dichloroethane-d4	95.6	73-130	%	02/07/2005 14:44	
Toluene-d8	98.0	81-114	%	02/07/2005 14:44	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Batch QC Report

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

Method Blank **Water** **QC Batch # 2005/02/07-1B.65**

MB: 2005/02/07-1B.65-037

Date Extracted: 02/07/2005 08:37

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	02/07/2005 08:37	
Benzene	ND	0.5	ug/L	02/07/2005 08:37	
Toluene	ND	0.5	ug/L	02/07/2005 08:37	
Ethylbenzene	ND	0.5	ug/L	02/07/2005 08:37	
Total xylenes	ND	1.0	ug/L	02/07/2005 08:37	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	02/07/2005 08:37	
Ethanol	ND	50	ug/L	02/07/2005 08:37	
Surrogates(s)					
1,2-Dichloroethane-d4	97.6	73-130	%	02/07/2005 08:37	
Toluene-d8	98.8	81-114	%	02/07/2005 08:37	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B — Test(s): 8260B

Method Blank — **Water** — **QC Batch # 2005/02/07-4A.66**

MB: 2005/02/07-4A.66-050 — Date Extracted: 02/07/2005 18:50

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	02/07/2005 18:50	
Benzene	ND	0.5	ug/L	02/07/2005 18:50	
Toluene	ND	0.5	ug/L	02/07/2005 18:50	
Ethylbenzene	ND	0.5	ug/L	02/07/2005 18:50	
Total xylenes	ND	1.0	ug/L	02/07/2005 18:50	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	02/07/2005 18:50	
Ethanol	ND	50	ug/L	02/07/2005 18:50	
Surrogates(s)					
1,2-Dichloroethane-d4	98.0	73-130	%	02/07/2005 18:50	
Toluene-d8	98.8	81-114	%	02/07/2005 18:50	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/02/05-1A.64**

LCS 2005/02/05-1A.64-032 Extracted: 02/05/2005 Analyzed: 02/05/2005 09:32
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	20.4		25	81.6			65-165	20		
Benzene	19.9		25	79.6			69-129	20		
Toluene	22.3		25	89.2			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	510		500	102.0			73-130			
Toluene-d8	488		500	97.6			81-114			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/02/07-01.07**

LCS 2005/02/07-01.07-002 Extracted: 02/07/2005 Analyzed: 02/07/2005 14:13
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	20.4		25.0	81.6			69-129	20		
Toluene	22.2		25.0	88.8			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	499		500	99.8			73-130			
Toluene-d8	486		500	97.2			81-114			

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

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Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/02/07-1B.65**

LCS 2005/02/07-1B.65-011 Extracted: 02/07/2005 Analyzed: 02/07/2005 08:11
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	31.3		25	125.2			65-165	20		
Benzene	30.3		25	121.2			69-129	20		
Toluene	30.1		25	120.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	408		500	81.6			73-130			
Toluene-d8	518		500	103.6			81-114			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike **Water** **QC Batch # 2005/02/07-4A.66**

LCS 2005/02/07-4A.66-028 Extracted: 02/07/2005 Analyzed: 02/07/2005 18:28
LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	21.1		25	84.4			65-165	20		
Benzene	21.7		25	86.8			69-129	20		
Toluene	26.1		25	104.4			70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	478		500	95.6			73-130			
Toluene-d8	500		500	100.0			81-114			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/02/05-1A.64**

MW-11 >> MS

Lab ID: 2005-01-0742 - 005

MS: 2005/02/05-1A.64-020 Extracted: 02/05/2005 Analyzed: 02/05/2005 13:20

Dilution: 1.00

MSD: 2005/02/05-1A.64-042 Extracted: 02/05/2005 Analyzed: 02/05/2005 13:42

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	22.1	21.4	ND	25	88.4	85.6	3.2	69-129	20		
Toluene	24.2	23.6	ND	25	96.8	94.4	2.5	70-130	20		
Methyl tert-butyl ether	23.2	24.8	ND	25	92.8	99.2	6.7	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	462	506		500	92.4	101.2		73-130			
Toluene-d8	510	467		500	102.0	93.4		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/02/07-01.07**

MS/MSD

Lab ID: 2005-02-0037 - 001

MS: 2005/02/07-01.07-010 Extracted: 02/07/2005 Analyzed: 02/07/2005 18:29
Dilution: 1.00

MSD: 2005/02/07-01.07-011 Extracted: 02/07/2005 Analyzed: 02/07/2005 19:00
Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	35.7	32.8	12.9	25.0	91.2	79.6	13.6	69-129	20		
Toluene	24.5	21.5	0.988	25.0	94.0	82.0	13.6	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	493	499		500	98.6	99.8		73-130			
Toluene-d8	482	484		500	96.4	96.8		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

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

Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/02/07-1B.65**

MS/MSD

Lab ID: 2005-01-0774 - 002

MS: 2005/02/07-1B.65-024 Extracted: 02/07/2005 Analyzed: 02/07/2005 12:24
Dilution: 1.00

MSD: 2005/02/07-1B.65-051 Extracted: 02/07/2005 Analyzed: 02/07/2005 12:51
Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	27.2	27.5	ND	25	108.8	110.0	1.1	65-165	20		
Benzene	28.0	28.4	ND	25	112.0	113.6	1.4	69-129	20		
Toluene	27.0	28.5	ND	25	108.0	114.0	5.4	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	418	399		500	83.6	79.8		73-130			
Toluene-d8	502	509		500	100.4	101.8		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD) **Water** **QC Batch # 2005/02/07-4A.66**

MS/MSD

Lab ID: 2005-01-0834 - 010

MS: 2005/02/07-4A.66-048 Extracted: 02/07/2005 Analyzed: 02/07/2005 20:48

Dilution: 1.00

MSD: 2005/02/07-4A.66-010 Extracted: 02/07/2005 Analyzed: 02/07/2005 21:10

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	22.9	23.6	ND	25	91.6	94.4	3.0	65-165	20		
Benzene	22.7	23.0	ND	25	90.8	92.0	1.3	69-129	20		
Toluene	27.5	26.4	ND	25	110.0	105.6	4.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	487	519		500	97.4	103.8		73-130			
Toluene-d8	504	502		500	100.8	100.4		81-114			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips # 1871

Received: 01/26/2005 15:00

Site: 96 MacArthur, Oakland

Legend and Notes

Sample Comment

Lab ID: 2005-01-0742 -5

Siloxane peaks were found in the sample, which are not believed to be gas related. If they were to be quantified, the concentration would be 130 ug/L.

Analysis Flag

L2

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

Result Flag

Q6

The concentration reported reflect(s) individual or discrete unidentified peaks not matching a typical fuel pattern.

SEVERN TRENT STL

STL San Francisco

Sample Receipt Checklist

Submission #:2005- 01 - 0742

Checklist completed by: (initials) AM Date: 1 / 28 /05

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 ($4^{\circ}C \pm 2$)? — Temp: 2 °C Yes ✓ No____

Potential reason for > 6°C – Ice melted ☐ Ice in bags ☐ Not enough ice ☐ Not enough blue ice ☐ Samples in boxes ☐

Sampled<4hr. ago? ☐ Ice not required (e.g. air or bulk sample) ☐ — 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: _____/_____/05

Client contacted: ☐ Yes ☐ No

Summary of discussion: _____

Corrective Action (per PM/Client): _____

STATEMENTS

Purge Water Disposal

Non-hazardous groundwater produced during purging and sampling of monitoring 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 containing a significant amount of liquid-phase hydrocarbons was accumulated separately in drums 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.