



Customer-Focused Solutions

June 16, 2004

TRC Project No. 42016101

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

Alameda County Health Services
JUN 21 2004
Environmental Services Division

**RE: Quarterly Status Report - First Quarter 2004
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 2004 Quarterly Status Report for the subject site, shown in attached Figure 3.

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: All underground and aboveground equipment and facilities were removed by John's Excavating of Santa Rosa, California. 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 groundwater 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 .25 mile 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 0.05 foot/foot to the southwest. These data were consistent with historical data.

CHARACTERIZATION STATUS

Total purgeable petroleum hydrocarbons (TPPH) were detected in four of seven wells, with a maximum concentration of 34,000 micrograms per liter ($\mu\text{g/l}$) in onsite well MW-1.

Benzene was detected in two of seven wells, with a maximum concentration of 690 $\mu\text{g/l}$ in onsite well MW-1.

Methyl tertiary butyl ether (MTBE) was detected in five of seven wells, with a maximum concentration of 19,000 µg/l in offsite well MW-7.

Hydrocarbon impacts are not fully delineated offsite. Perimeter downgradient monitoring wells MW-10 and MW-11 were non-detect for benzene and MTBE, and had low levels of TPH. Perimeter downgradient monitoring well MW-9 contained 1,200 µg/l MTBE and was non-detect for benzene and TPH.

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 88 pounds of ozone have been injected.

First Quarter 2004 Evaluation: Since system activation, hydrocarbon concentrations have declined in MW-1 and MW-6. Hydrocarbon concentrations in MW-7 initially increased, then decreased, and have been relatively stable over the last year. Petroleum hydrocarbon concentrations in perimeter downgradient monitoring wells MW-9 through MW-11 have remained stable.

RECENT CORRESPONDENCE

No correspondence this quarter.

CURRENT QUARTER ACTIVITIES

January 7, 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.

January-March 2004: SECOR performed operations and maintenance activities on the ozone sparging system throughout the quarter. Approximately 6.3 pounds of ozone was injected during the fourth quarter. No waste was generated at the site.

NEXT QUARTER ACTIVITIES

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

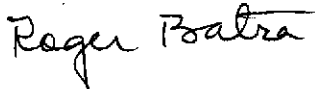
Continue operating the ozone sparging system to reduce hydrocarbon mass in the subsurface. Continue sampling of monitoring wells MW-1, MW-6, and MW-7 to aid in evaluation of the ozone sparging system.

QSR – First Quarter 2004
76 Service Station #1871, Oakland, California
June 16, 2004
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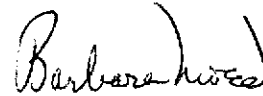
If you have any questions regarding this report, please call Roger Batra at (925) 688-2466.

Sincerely,

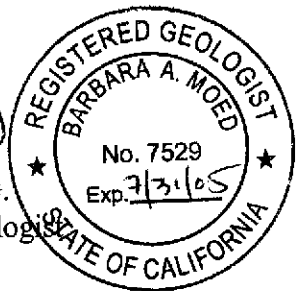
TRC



Roger Batra
Senior Project Manager



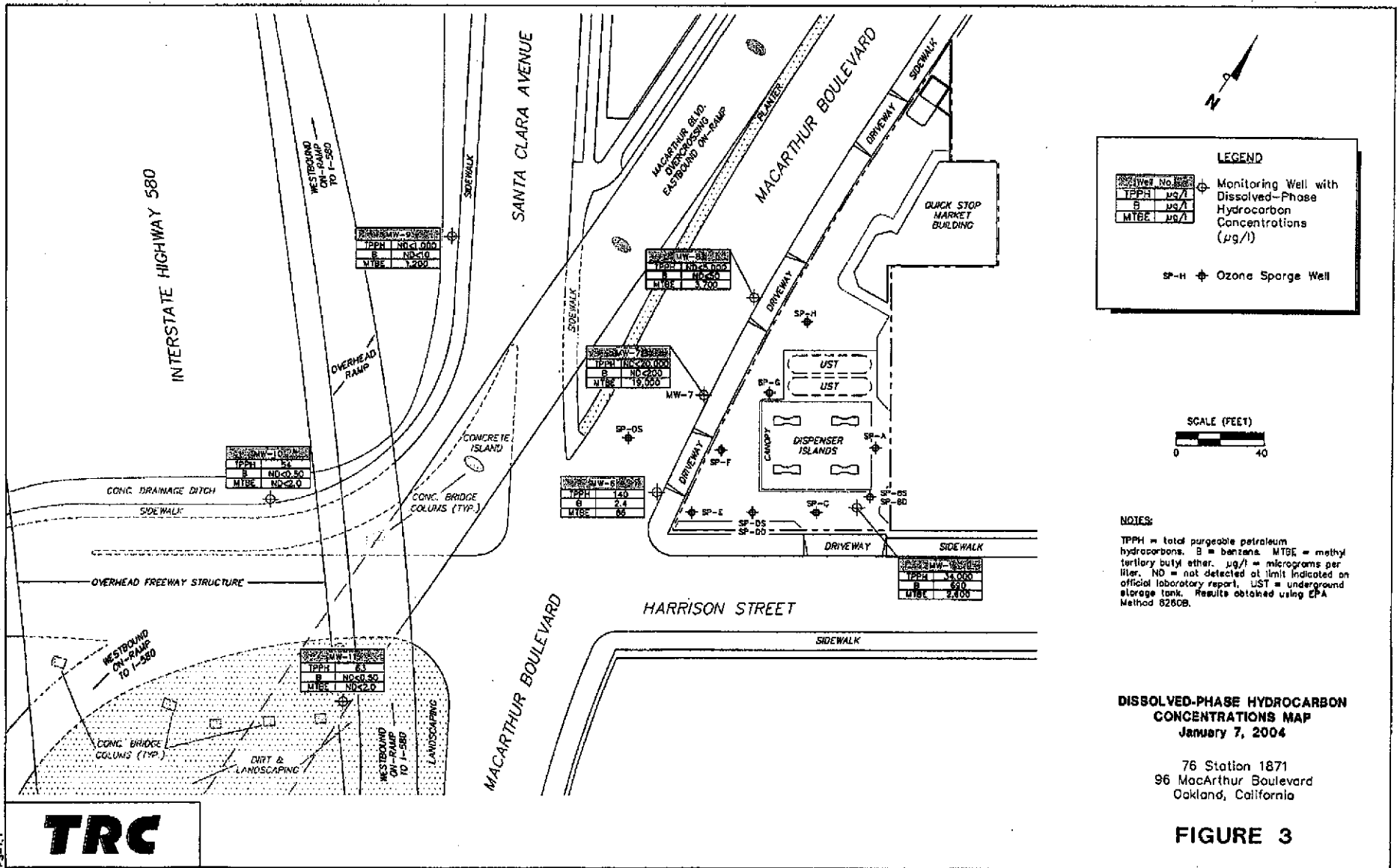
Barbara Moed, R.G.
Senior Project Geologist



Attachment:

Figure 3 – Dissolved Phase Hydrocarbon Concentrations Map, January 7, 2004, from First Quarter 2004 Fluid Level Monitoring and Sampling Report, dated February 20, 2004 by TRC.

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



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June 16 , 2004

TRC Project No. 42016101

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

Alameda County
JUN 18 2004
Environmental Health

**RE: Quarterly Status Report - Fourth Quarter 2003
76 Service Station #1871, 96 MacArthur Boulevard, Oakland, California
Alameda County**

Dear Mr. Hwang:

On behalf of ConocoPhillips Company (ConocoPhillips), TRC is submitting the Fourth Quarter 2003 Quarterly Status Report for the subject site, shown in attached Figure 3.

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: All underground and aboveground equipment and facilities were removed by John' s Excavating of Santa Rosa, California. 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 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 groundwater 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 .25 mile 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 five of seven wells, with a maximum concentration of 45,000 micrograms per liter ($\mu\text{g/l}$) in onsite well MW-1.

Benzene was not detected above the reporting limit, except in onsite well MW-1 at a concentration of 1,400 $\mu\text{g/l}$.

Methyl tertiary butyl ether (MTBE) was detected in five of seven wells, with a maximum concentration of 22,000 µg/l in offsite well MW-7.

Hydrocarbon impacts are not fully delineated offsite. Perimeter downgradient monitoring wells MW-10 and MW-11 were non-detect for TPH, benzene, and MTBE. Perimeter downgradient monitoring well MW-9 contained 890 µg/l TPH and 990 µg/l MTBE.

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 88 pounds of ozone have been injected.

Fourth Quarter 2003 Evaluation: Since system activation, hydrocarbon concentrations have declined in MW-1 and MW-6. Hydrocarbon concentrations in MW-7 initially increased, then decreased, and have been relatively stable over the last three quarters. Petroleum hydrocarbon concentrations in perimeter downgradient monitoring wells MW-9 through MW-11 have remained stable.

RECENT CORRESPONDENCE

No correspondence this quarter.

CURRENT QUARTER ACTIVITIES

October 2, 2003: 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.

October-December 2003: SECOR performed operations and maintenance activities on the ozone sparging system throughout the quarter. Approximately 0.98 pounds of ozone was injected during the fourth quarter. No waste was generated at the site.

NEXT QUARTER ACTIVITIES

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

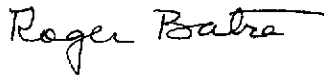
Continue operating the ozone sparging system to reduce hydrocarbon mass in the subsurface. Continue sampling of monitoring wells MW-1, MW-6, and MW-7 to aid in evaluation of the ozone sparging system.

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76 Service Station #1871, Oakland, California
June 16, 2004
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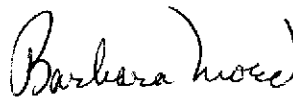
If you have any questions regarding this report, please call Roger Batra at (925) 688-2466.

Sincerely,

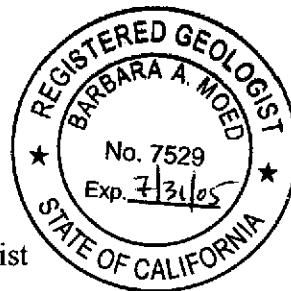
TRC



Roger Batra
Senior Project Manager



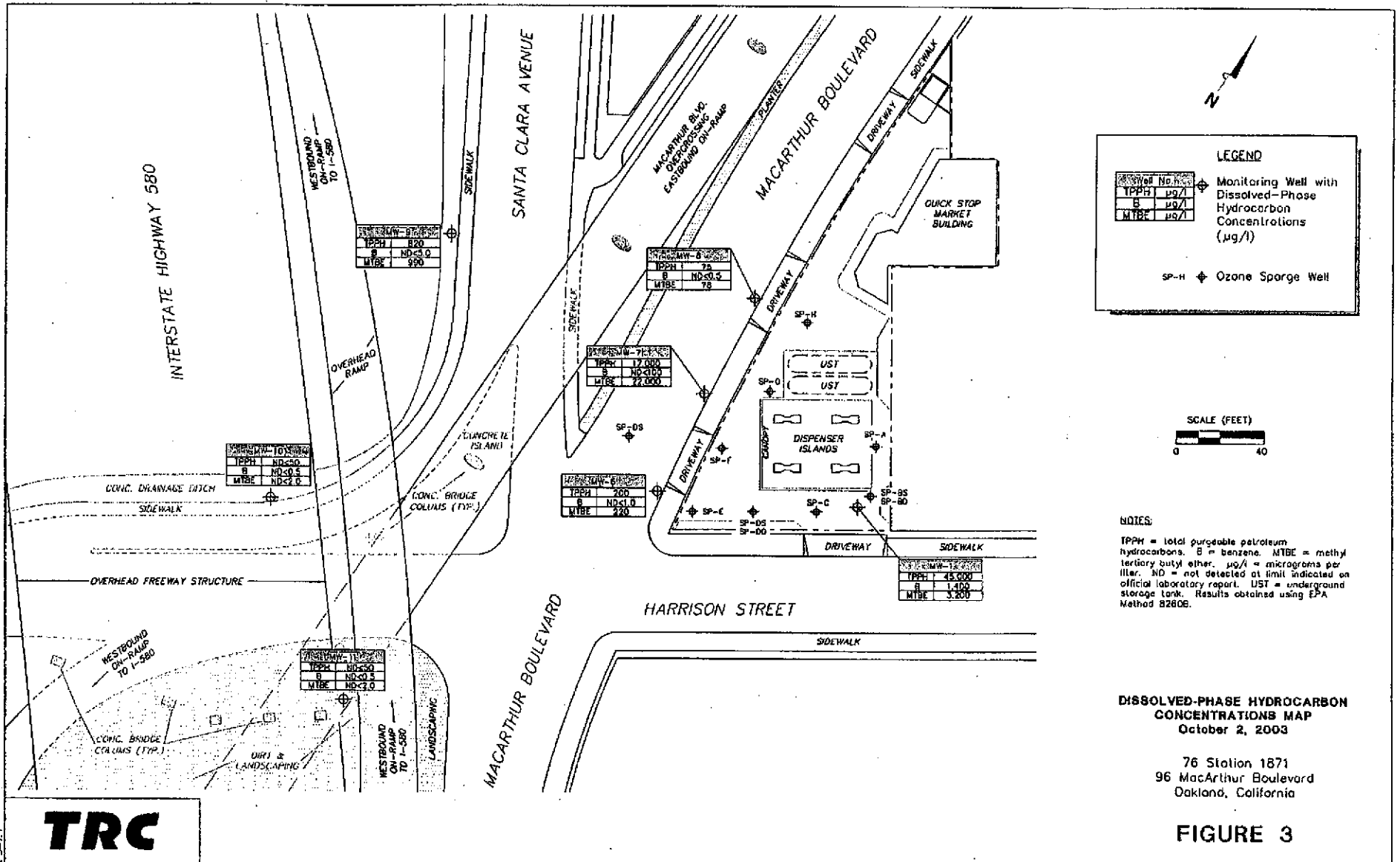
Barbara Moed, R.G.
Senior Project Geologist



Attachment:

Figure 3 – Dissolved - Phase Hydrocarbon Concentrations Map, October 2, 2003, from Fourth Quarter 2003 Fluid Level Monitoring and Sampling Report, dated December 11, 2003 by TRC.

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



TRC

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Customer-Focused Solutions

May 25, 2004

ConocoPhillips Company
76 Broadway
Sacramento, California 95818

Alameda County
JUN 18 2004
Environmental Health

ATTN: MR. THOMAS H. KOSEL

SITE: 76 STATION 1871
96 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2004

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. Don Hwang, Alameda County Health Care Services
Ms. Barbara Moed, TRC

Enclosures
1871R03.QMS





Customer-Focused Solutions

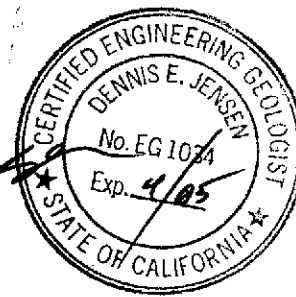
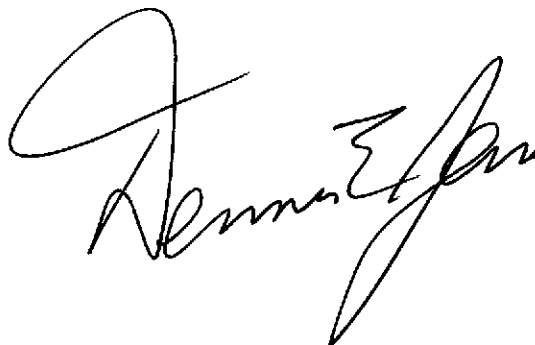
**QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2004**

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
May 25, 2004

QUARTERLY 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
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
Statements	Purge Water Transport and Disposal Limitations

Summary of Gauging and Sampling Activities
April 2004 through June 2004
76 Station 1871
96 MacArthur
Oakland, CA

Site Information:

Site:	76 Station 96 MacArthur Oakland, CA
Project Coordinator/Phone Number:	Thomas Kosel/916-558-7666
Groundwater wells onsite:	1
Groundwater wells offsite:	6

Field Activity:

Sampling consultant:	TRC
Date(s) sampled:	04/02/04
Groundwater wells gauged:	7
Groundwater wells sampled:	7
Purging method:	bailer/diaphragm pump
Treatment/disposal method during sampling event:	Onyx/Rodeo Unit 100
Free product pumpouts other than sampling event:	No
Treatment/Disposal method during free product pumpouts:	N/A

Site Hydrogeology:

Minimum depth to groundwater (feet bgs):	7.49
Maximum depth to groundwater (feet bgs):	18.01
Average groundwater elevation (feet relative to mean sea level):	69.20
Average change in groundwater elevations since previous event (feet):	-0.87
Groundwater gradient and flow direction:	0.05 ft/ft, southwest
Previous gradient and/or flow direction (and date):	0.05 ft/ft, southwest (01/07/04)

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

Wells with benzene concentrations below MCL:	6
Wells with benzene concentrations at or above MCL:	1
Minimum benzene concentration (µg/l):	ND
Maximum benzene concentration (µg/l):	1.8 (MW-1)
Minimum MTBE concentration (µg/l):	ND
Maximum MTBE concentration (µg/l):	5900
Minimum TPPH concentration (µg/l):	ND
Maximum TPPH concentration (µg/l):	3400 (MW-7)
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.

TABLES

TABLE KEY

ABBREVIATIONS / SYMBOLS

LPH	= liquid-phase hydrocarbons
µg/l	= micrograms per liter
mg/l	= milligrams per liter
ND	= not detected at or above laboratory detection limit
DTSC	= Department of Toxic Substances Control
N/A	= not applicable
DNA	= data not available
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, ethyl benzene, 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:

$$\text{Surface elevation} - \text{depth to water} + (0.75 \times \text{LPH thickness}).$$

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 1871 was provided by Gettler-Ryan Inc., Dublin, California, in an excel table received in September 2003.

Table 1
SUMMARY OF GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS
April 2, 2004
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)													
4/2/04	86.99	13.18	0.00	73.81	-0.88	--	350	1.8	ND<0.50	6.2	30	--	19	
MW-6	(Screen Interval in feet: 5.0-25.0)													
4/2/04	79.67	8.63	0.00	71.04	-0.55	--	3200	ND<20	ND<20	ND<20	ND<40	--	5900	
MW-7	(Screen Interval in feet: 5.0-25.0)													
4/2/04	80.67	8.09	0.00	72.58	-0.82	--	3400	ND<20	ND<20	ND<20	ND<40	--	5100	
MW-8	(Screen Interval in feet: 5.0-25.0)													
4/2/04	81.71	8.51	0.00	73.20	-0.30	--	3000	ND<20	ND<20	ND<20	ND<40	--	5200	
MW-9	(Screen Interval in feet: DNA)													
4/2/04	82.07	15.08	0.00	66.99	-0.43	--	510	ND<5.0	ND<5.0	ND<5.0	ND<10	--	850	
MW-10	(Screen Interval in feet: DNA)													
4/2/04	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	
MW-11	(Screen Interval in feet: DNA)													
4/2/04	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	

Table 2
HISTORIC GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS

November 1992 Through April 2004

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)														
1/25/93	81.18	--	0.00	--	--	120000	--	2100	4600	4900	22000	--	--	
4/29/93	81.18	13.71	0.00	67.47	--	100000	--	850	2000	4300	19000	--	--	
7/16/93	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	--	--	
1/20/94	81.18	15.17	0.00	66.01	0.03	92000	--	1200	3000	3400	17000	--	--	
4/13/94	81.18	14.44	0.00	66.74	0.73	51000	--	1000	2600	3200	15000	--	--	
7/13/94	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	--	--	
1/10/95	81.18	12.44	0.00	68.74	3.11	810	--	16	18	59	250	--	--	
4/17/95	81.18	12.68	0.00	68.50	-0.24	48000	--	880	530	2500	11000	--	--	
7/24/95	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	--	
1/18/96	81.18	14.21	0.00	66.97	0.64	30000	--	1500	500	3500	13000	2400	--	
4/18/96	86.24	13.40	0.00	72.84	5.87	66000	--	2700	2200	3100	13000	57000	--	
7/24/96	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	--	
1/28/97	86.24	11.25	0.00	74.99	3.60	94000	--	7700	19000	3100	15000	120000	--	
7/29/97	86.24	14.67	0.00	71.57	-3.42	ND	--	ND	ND	ND	ND	70000	--	
1/14/98	86.24	12.27	0.00	73.97	2.40	85000	--	6100	10000	3000	17000	110000	--	
7/1/98	86.24	14.32	0.00	71.92	-2.05	110000	--	8700	12000	2700	15000	110000	--	
6/18/99	86.24	13.93	0.00	72.31	0.39	49000	--	6900	6500	380	12000	72000	47000	
1/21/00	86.24	15.05	0.00	71.19	-1.12	63700	--	5520	2000	2640	13100	57100	--	
7/10/00	86.24	13.97	0.00	72.27	1.08	67800	--	9910	4120	3330	16100	67400	54000	
1/4/01	86.24	14.92	0.00	71.32	-0.95	63900	--	6270	784	2,670	12,900	--	38100	
7/16/01	86.24	14.32	0.00	71.92	0.60	66000	--	7100	330	2300	9800	36000	41000	

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														
1/31/02	86.99	13.54	0.00	73.45	1.53	42000	--	5800	1800	2000	8200	26000	26000	
4/11/02	86.99	13.64	0.00	73.35	-0.10	58000	--	2900	1200	1800	10000	--	19000	
7/11/02	86.99	13.96	0.00	73.03	-0.32	--	5900	330	ND<10	230	600	3400	3400	
10/15/02	86.99	14.71	0.00	72.28	-0.75	--	470	16	ND<2.5	14	16	390	390	
1/14/03	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	49	
4/16/03	86.99	13.18	0.00	73.81	-0.41	--	510	57	0.62	29	61	160	160	
7/16/03	86.99	14.26	0.00	72.73	-1.08	--	27000	260	23	730	3200	1200	1200	
10/2/03	86.99	14.95	0.00	72.04	-0.69	--	45000	1400	32	2900	7600	--	3200	
1/7/04	86.99	12.30	0.00	74.69	2.65	--	34000	690	41	1600	5200	--	2600	
4/2/04	86.99	13.18	0.00	73.81	-0.88	--	350	1.8	ND<0.50	6.2	30	--	19	
MW-2 (Screen Interval in feet: DNA)														
11/3/92	76.61	--	--	--	--	140	--	2.2	ND	ND	2	--	--	
1/25/93	76.61	--	--	--	--	2100	--	56	1.1	90	140	--	--	
4/29/93	76.61	9.73	0.00	66.88	--	1500	--	290	ND	33	11	--	--	
7/16/93	76.61	10.17	0.00	66.44	-0.44	510	--	17	0.6	3.2	2.5	--	--	
10/19/93	76.61	11.18	0.00	65.43	-1.01	670	--	24	1.1	7.7	23	--	--	
1/20/94	76.61	11.12	0.00	65.49	0.06	820	--	97	ND	12	ND	--	--	
4/13/94	76.61	10.12	0.00	66.49	1.00	550	--	71	ND	5.1	1.3	--	--	
7/13/94	76.61	10.86	0.00	65.75	-0.74	2000	--	490	ND	17	13	--	--	
10/10/94	76.61	11.48	0.00	65.13	-0.62	2300	--	340	ND	25	ND	--	--	
1/10/95	76.61	8.71	0.00	67.90	2.77	850	--	3.8	ND	8.5	1.3	--	--	
4/17/95	76.61	8.90	0.00	67.71	-0.19	1300	--	4.7	ND	8.3	1.2	--	--	
7/24/95	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	--	
1/18/96	76.61	10.11	0.00	66.50	0.59	900	--	300	86	7.6	18	4300	--	
4/18/96	81.66	9.27	0.00	72.39	5.89	18000	--	3600	680	890	4100	19000	--	
7/24/96	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	--	
1/28/97	81.66	7.70	0.00	73.96	3.08	45000	--	2400	2900	2000	7600	29000	--	

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														
7/29/97	81.66	10.28	0.00	71.38	-2.58	ND	--	1.2	0.72	0.63	0.62	17000	--	
1/14/98	81.66	8.63	0.00	73.03	1.65	14000	--	1000	150	790	3300	23000	--	
7/1/98	81.66	9.53	0.00	72.13	-0.90	2700	--	100	ND	180	78	7100	--	
6/18/99	--	--	--	--	--	--	--	--	--	--	--	--	--	Well was destroyed
MW-3 (Screen Interval in feet: DNA)														
11/3/92	77.48	--	--	--	--	2100	--	120	15	38	200	--	--	
1/25/93	77.48	--	--	--	--	2300	--	80	1	55	52	--	--	
4/29/93	77.48	11.37	0.00	66.11	--	4500	--	1700	ND	200	140	--	--	
7/16/93	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	--	--	
1/20/94	77.48	12.65	0.00	64.83	0.04	4200	--	11	ND	21	15	--	--	
4/13/94	77.48	12.02	0.00	65.46	0.63	4200	--	210	ND	36	53	--	--	
7/13/94	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	--	--	
1/10/95	77.48	10.42	0.00	67.06	2.56	310	--	4.6	ND	3.5	2.1	--	--	
4/17/95	77.48	10.42	0.00	67.06	0.00	7800	--	ND	4.6	300	450	--	--	
7/24/95	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	--	
1/18/96	77.48	11.79	0.00	65.69	0.71	2200	--	270	33	26	18	5500	--	
4/18/96	82.55	11.30	0.00	71.25	5.56	6000	--	1800	ND	100	230	48000	--	
7/24/96	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	--	
1/28/97	82.55	9.50	0.00	73.05	3.15	4400	--	250	13	87	47	54000	--	
7/29/97	82.55	11.99	0.00	70.56	-2.49	ND	--	3500	ND	220	ND	75000	--	
1/14/98	82.55	10.30	0.00	72.25	1.69	ND	--	430	ND	100	380	37000	--	
7/1/98	82.55	11.70	0.00	70.85	-1.40	ND	--	430	ND	ND	ND	45000	--	
6/18/99	--	--	--	--	--	--	--	--	--	--	--	--	--	Well was destroyed
MW-4 (Screen Interval in feet: DNA)														
4/18/96	82.04	9.83	0.00	72.21	--	ND	--	630	ND	ND	ND	18000	--	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-4 continued														
7/24/96	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	--	
1/28/97	82.04	7.94	0.00	74.10	3.20	1200	--	490	ND	17	6.8	16000	--	
7/29/97	82.04	10.86	0.00	71.18	-2.92	50	--	1.5	0.61	0.73	0.78	15000	--	
1/14/98	82.04	8.73	0.00	73.31	2.13	ND	--	ND	ND	ND	ND	5200	--	
7/1/98	82.04	10.51	0.00	71.53	-1.78	ND	--	ND	ND	ND	ND	640	--	
6/18/99	82.04	--	--	--	--	--	--	--	--	--	--	--	--	Well was destroyed
MW-5 (Screen Interval in feet: DNA)														
4/18/96	81.80	9.65	0.00	72.15	--	31000	--	5500	1400	1700	8100	66000	--	
7/24/96	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	--	
1/28/97	81.80	7.76	0.00	74.04	3.64	19000	--	6100	62	82	310	160000	--	
7/29/97	81.80	11.58	0.00	70.22	-3.82	ND	--	ND	ND	ND	ND	71000	--	
1/14/98	81.80	9.08	0.00	72.72	2.50	ND	--	3600	ND	ND	ND	80000	--	
7/1/98	81.80	11.25	0.00	70.55	-2.17	6400	--	2100	21	120	330	61000	--	
6/18/99	81.80	--	--	--	--	--	--	--	--	--	--	--	--	Well was destroyed
MW-6 (Screen Interval in feet: 5.0-25.0)														
6/18/99	78.91	9.30	0.00	69.61	--	2100	--	21	29	ND	47	97000	71000	
1/21/00	78.91	9.37	0.00	69.54	-0.07	1880	--	143	31.2	106	196	41200	48800	
7/10/00	78.91	8.94	0.00	69.97	0.43	5710	--	869	209	301	1430	22200	19500	
1/4/01	78.91	9.21	0.00	69.70	-0.27	ND	--	ND	ND	ND	ND	--	9510	
7/16/01	78.91	9.42	0.00	69.49	-0.21	4800	--	200	21	150	440	29000	34000	
1/31/02	78.91	8.50	0.00	70.41	0.92	12000	--	250	92	500	1500	26000	31000	
4/11/02	79.67	9.08	0.00	70.59	0.18	3600	--	42	32	39	280	120000	--	
7/11/02	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	
1/14/03	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	
4/16/03	79.67	8.21	0.00	71.46	0.10	--	270	ND<0.50	ND<0.50	ND<0.50	1.3	--	15	
7/16/03	79.67	9.43	0.00	70.24	-1.22	--	290	39	0.6	ND<0.50	15	--	150	

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														
10/2/03	79.67	9.92	0.00	69.75	-0.49	--	200	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	220	
1/7/04	79.67	8.08	0.00	71.59	1.84	--	140	2.4	ND<1.0	8.6	13	--	86	
4/2/04	79.67	8.63	0.00	71.04	-0.55	--	3200	ND<20	ND<20	ND<20	ND<40	--	5900	
MW-7 (Screen Interval in feet: 5.0-25.0)														
6/18/99	79.92	8.70	0.00	71.22	--	ND	--	ND	ND	ND	ND	16000	13000	
1/21/00	79.92	9.30	0.00	70.62	-0.60	ND	--	ND	ND	ND	ND	12300	18200	
7/10/00	79.92	8.72	0.00	71.20	0.58	ND	--	ND	ND	ND	ND	16900	13800	
1/4/01	79.92	9.17	0.00	70.75	-0.45	ND	--	ND	ND	ND	0.719	--	37.3	
7/16/01	79.92	9.02	0.00	70.90	0.15	ND	--	ND	ND	ND	ND	7200	4700	
1/31/02	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	
4/11/02	80.67	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
7/11/02	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	
1/14/03	80.67	7.89	0.00	72.78	1.92	--	ND<25000	ND<250	ND<250	ND<250	ND<500	--	33000	
4/16/03	80.67	8.04	0.00	72.63	-0.15	--	ND<25000	ND<250	ND<250	ND<250	ND<500	--	37000	
7/16/03	80.67	9.19	0.00	71.48	-1.15	--	25000	ND<250	ND<250	ND<250	ND<500	--	38000	
10/2/03	80.67	9.89	0.00	70.78	-0.70	--	17000	ND<100	ND<100	ND<100	ND<200	--	22000	
1/7/04	80.67	7.27	0.00	73.40	2.62	--	ND<20000	ND<200	460	ND<200	540	--	19000	
4/2/04	80.67	8.09	0.00	72.58	-0.82	--	3400	ND<20	ND<20	ND<20	ND<40	--	5100	
MW-8 (Screen Interval in feet: 5.0-25.0)														
6/18/99	80.96	9.10	0.00	71.86	--	ND	--	ND	ND	ND	ND	290	160	
1/21/00	80.96	10.00	0.00	70.96	-0.90	ND	--	ND	ND	ND	1.09	224	221	
7/10/00	80.96	7.94	0.00	73.02	2.06	ND	--	ND	ND	ND	ND	234	223	
1/4/01	80.96	9.76	0.00	71.20	-1.82	3790	--	141	8.92	128	375	--	34200	
7/16/01	80.96	9.15	0.00	71.81	0.61	ND	--	ND	ND	ND	ND	66	70	
1/31/02	80.96	7.99	0.00	72.97	1.16	5900	--	86	ND<10	630	390	670	700	
4/11/02	81.71	9.00	0.00	72.71	-0.26	250	--	2.0	ND<0.50	38	2.2	410	--	
7/11/02	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	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-8 continued														
1/14/03	81.71	8.63	0.00	73.08	1.97	--	ND<250	2.6	ND<2.5	18	ND<5.0	--	430	
4/16/03	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	
7/16/03	81.71	9.63	0.00	72.08	-0.65	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	140	
10/2/03	81.71	10.41	0.00	71.30	-0.78	--	75	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	78	
1/7/04	81.71	8.21	0.00	73.50	2.20	--	ND<5000	ND<50	ND<50	ND<50	340	--	3700	
4/2/04	81.71	8.51	0.00	73.20	-0.30	--	3000	ND<20	ND<20	ND<20	ND<40	--	5200	
MW-9 (Screen Interval in feet: DNA)														
1/31/02	82.07	14.72	0.00	67.35	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	680	910	
4/11/02	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	--	
7/11/02	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	
1/14/03	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	
4/16/03	82.07	14.51	0.00	67.56	0.24	--	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<10	--	860	
7/16/03	82.07	15.54	0.00	66.53	-1.03	--	ND<2500	ND<25	ND<25	ND<25	ND<50	--	1300	
10/2/03	82.07	16.28	0.00	65.79	-0.74	--	820	ND<5.0	ND<5.0	ND<5.0	ND<10	--	990	
1/7/04	82.07	14.65	0.00	67.42	1.63	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	1200	
4/2/04	82.07	15.08	0.00	66.99	-0.43	--	510	ND<5.0	ND<5.0	ND<5.0	ND<10	--	850	
MW-10 (Screen Interval in feet: DNA)														
1/31/02	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	
4/11/02	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	--	
7/11/02	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	
1/14/03	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	
4/16/03	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	
7/16/03	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	
10/2/03	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	
1/7/04	74.98	6.22	0.00	68.76	1.41	--	54	ND<0.50	ND<0.50	1.3	4.5	--	ND<2.0	
4/2/04	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	
MW-11 (Screen Interval in feet: DNA)														

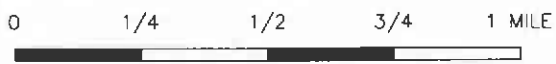
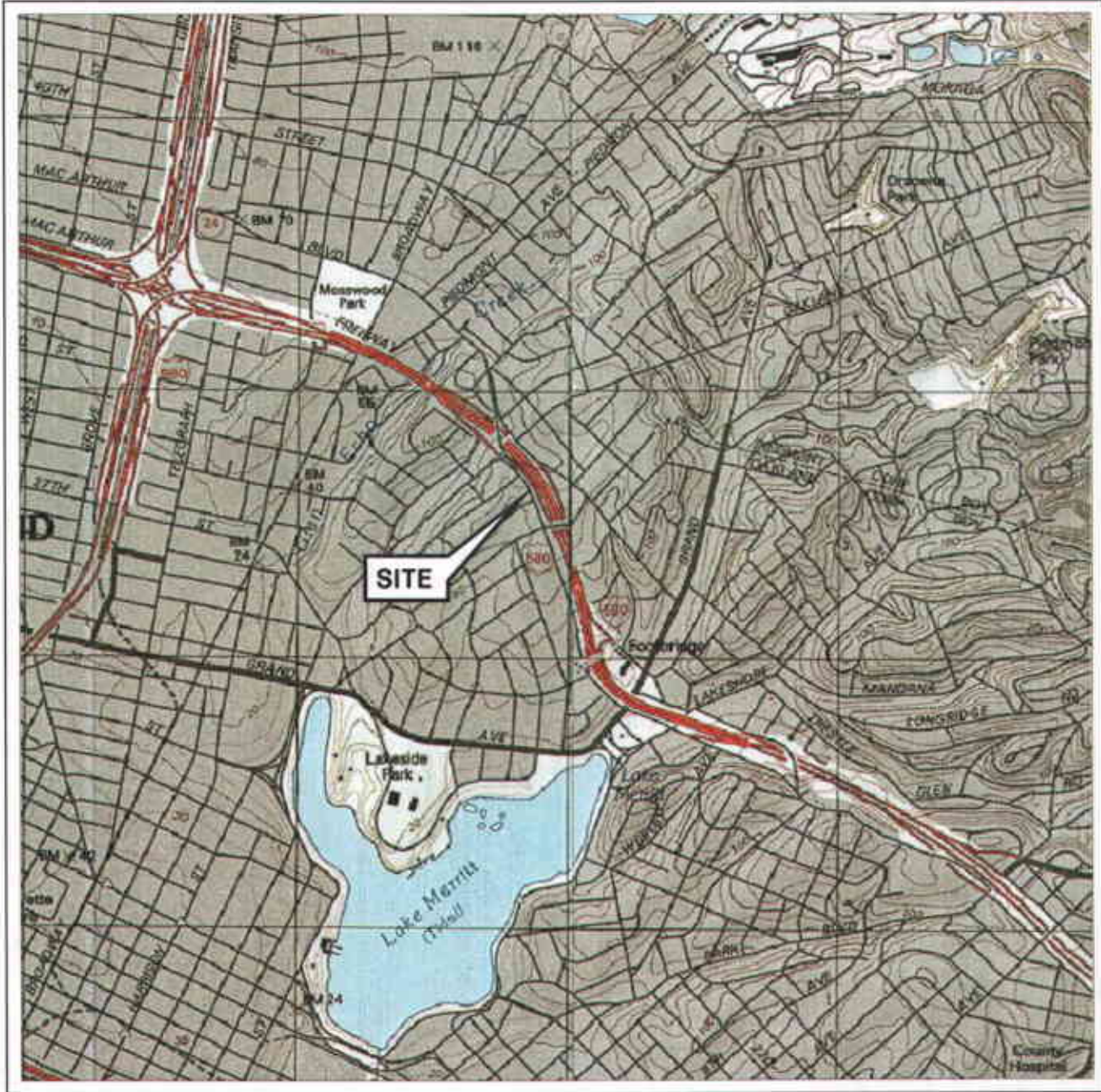
Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-11 continued														
1/31/02	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	
4/11/02	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	--	
7/11/02	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	
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	
1/14/03	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	
4/16/03	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	
7/16/03	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	
10/2/03	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	
1/7/04	77.31	16.20	0.00	61.11	-3.24	--	63	ND<0.50	ND<0.50	0.68	2.2	--	ND<2.0	
4/2/04	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	

Table 3
SUMMARY OF ADDITIONAL CHEMICAL ANALYSIS RESULTS
76 Station 1871

Date Sampled	TPH-D (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8015B (mg/l)	Ethanol 8260B (µg/l)	H- Alkalinity (mg/l)	1,2 DCE (µg/l)
MW-1										
6/18/99	--	ND	ND	ND	ND	ND	ND	--	ND	--
7/16/01	--	ND	ND	ND	ND	ND	ND	--	--	--
1/14/03	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	--	--
7/16/03	--	--	--	--	--	--	ND<10000	--	--	--
10/2/03	--	--	--	--	--	--	--	ND<25000	--	--
1/7/04	--	--	--	--	--	--	--	ND<20000	--	--
4/2/04	--	--	--	--	--	--	--	ND<50	--	--
MW-4										
4/18/96	110	--	--	--	--	--	--	--	--	--
7/24/96	ND	--	--	--	--	--	--	--	--	--
10/24/96	ND	--	--	--	--	--	--	--	--	--
1/28/97	210	--	--	--	--	--	--	--	--	--
7/29/97	ND	--	--	--	--	--	--	--	--	--
1/14/98	ND	--	--	--	--	--	--	--	--	--
7/1/98	ND	--	--	--	--	--	--	--	--	--
MW-6										
6/18/99	--	ND	ND	ND	ND	ND	ND	--	--	ND
7/16/01	--	ND	ND	ND	ND	ND	ND	--	--	ND
7/11/02	--	ND<100	ND<100	ND<1000	ND<200	ND<100	ND<5000	--	--	ND<100
1/14/03	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	--	ND<2.0
7/16/03	--	--	--	--	--	--	ND<500	--	--	--
10/2/03	--	--	--	--	--	--	--	ND<1000	--	--
1/7/04	--	--	--	--	--	--	--	ND<1000	--	--
4/2/04	--	--	--	--	--	--	--	ND<2000	--	--
MW-7										
6/18/99	--	ND	ND	ND	ND	ND	ND	--	--	ND

Date Sampled	TPH-D (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8015B (mg/l)	Ethanol 8260B (µg/l)	H- Alkalinity (mg/l)	1,2 DCE (µg/l)
MW-7 continued										
7/16/01	--	ND	ND	ND	ND	ND	ND	--	--	ND
1/14/03	--	ND<1000	ND<1000	ND<50000	ND<1000	ND<1000	ND<250000	--	--	ND<1000
7/16/03	--	--	--	--	--	--	ND<250000	--	--	--
10/2/03	--	--	--	--	--	--	--	ND<100000	--	--
1/7/04	--	--	--	--	--	--	--	ND<200000	--	--
4/2/04	--	--	--	--	--	--	--	ND<2000	--	--
MW-8										
6/18/99	--	ND	ND	ND	ND	ND	ND	--	--	ND
7/16/01	--	ND	ND	ND	ND	ND	ND	--	--	ND
1/14/03	--	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2500	--	--	ND<10
7/16/03	--	--	--	--	--	--	ND<500	--	--	--
10/2/03	--	--	--	--	--	--	--	ND<500	--	--
1/7/04	--	--	--	--	--	--	--	ND<50000	--	--
4/2/04	--	--	--	--	--	--	--	ND<2000	--	--
MW-9										
10/2/03	--	--	--	--	--	--	--	ND<5000	--	--
1/7/04	--	--	--	--	--	--	--	ND<10000	--	--
4/2/04	--	--	--	--	--	--	--	ND<500	--	--
MW-10										
1/31/02	--	ND<7.1	ND<7.1	ND<140	ND<7.1	ND<7.1	ND<3600	--	--	ND<7.1
1/14/03	--	ND<8.0	ND<8.0	ND<400	ND<8.0	ND<8.0	ND<2000	--	--	ND<8.0
7/16/03	--	--	--	--	--	--	ND<25000	--	--	--
10/2/03	--	--	--	--	--	--	--	ND<500	--	--
1/7/04	--	--	--	--	--	--	--	ND<500	--	--
4/2/04	--	--	--	--	--	--	--	ND<50	--	--
MW-11										
10/2/03	--	--	--	--	--	--	--	ND<500	--	--
1/7/04	--	--	--	--	--	--	--	ND<500	--	--
4/2/04	--	--	--	--	--	--	--	ND<50	--	--

FIGURES



SCALE 1:24,000



VICINITY MAP

76 Station 1871
 96 MacArthur Boulevard
 Oakland, California

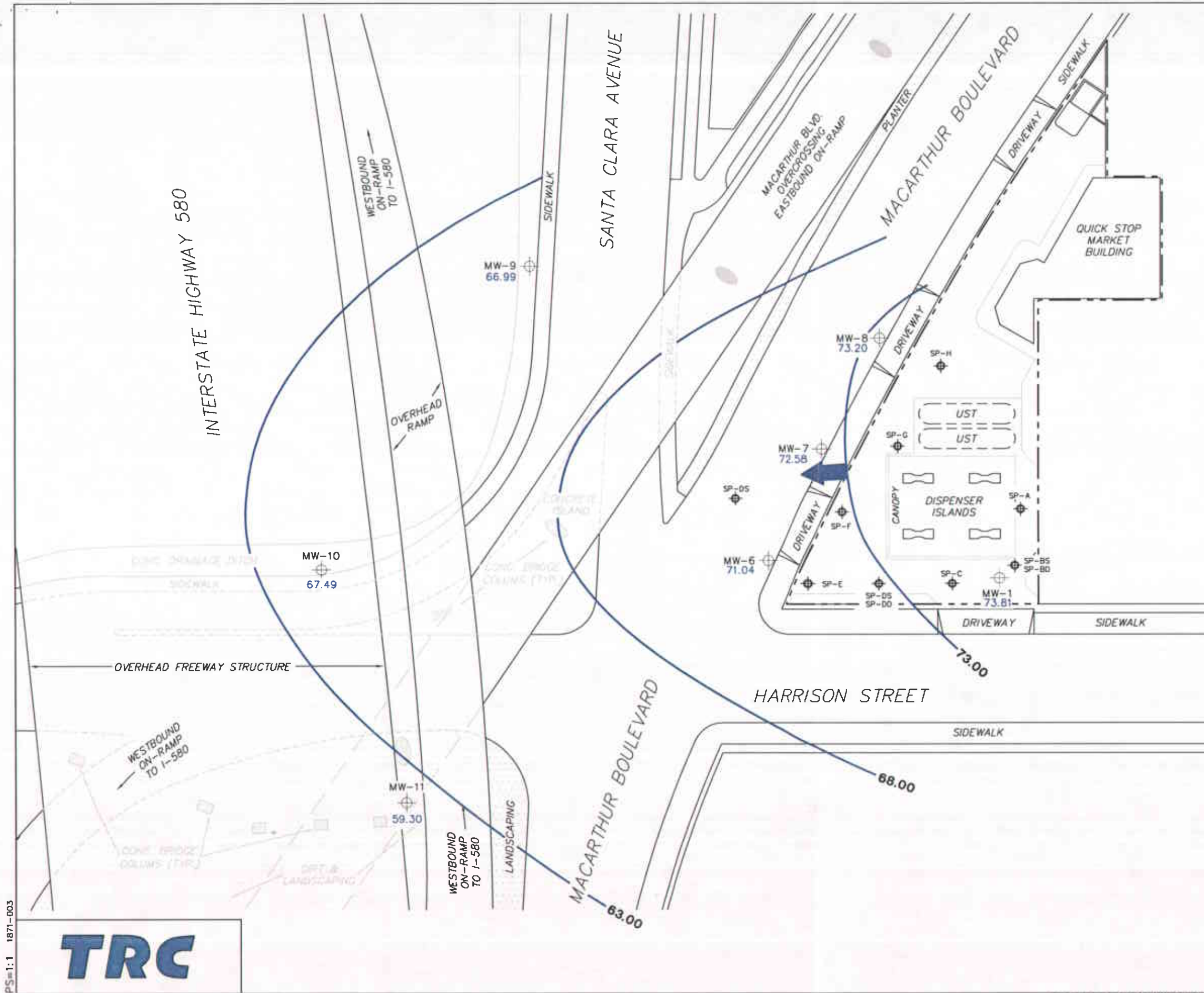
SOURCE:

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

FIGURE 1



PS = 1:1



LEGEND

- MW-11 Monitoring Well with Groundwater Elevation (feet)
- SP-H Ozone Sparge Well
- 73.00 Groundwater Elevation Contour
- General Direction of Groundwater Flow



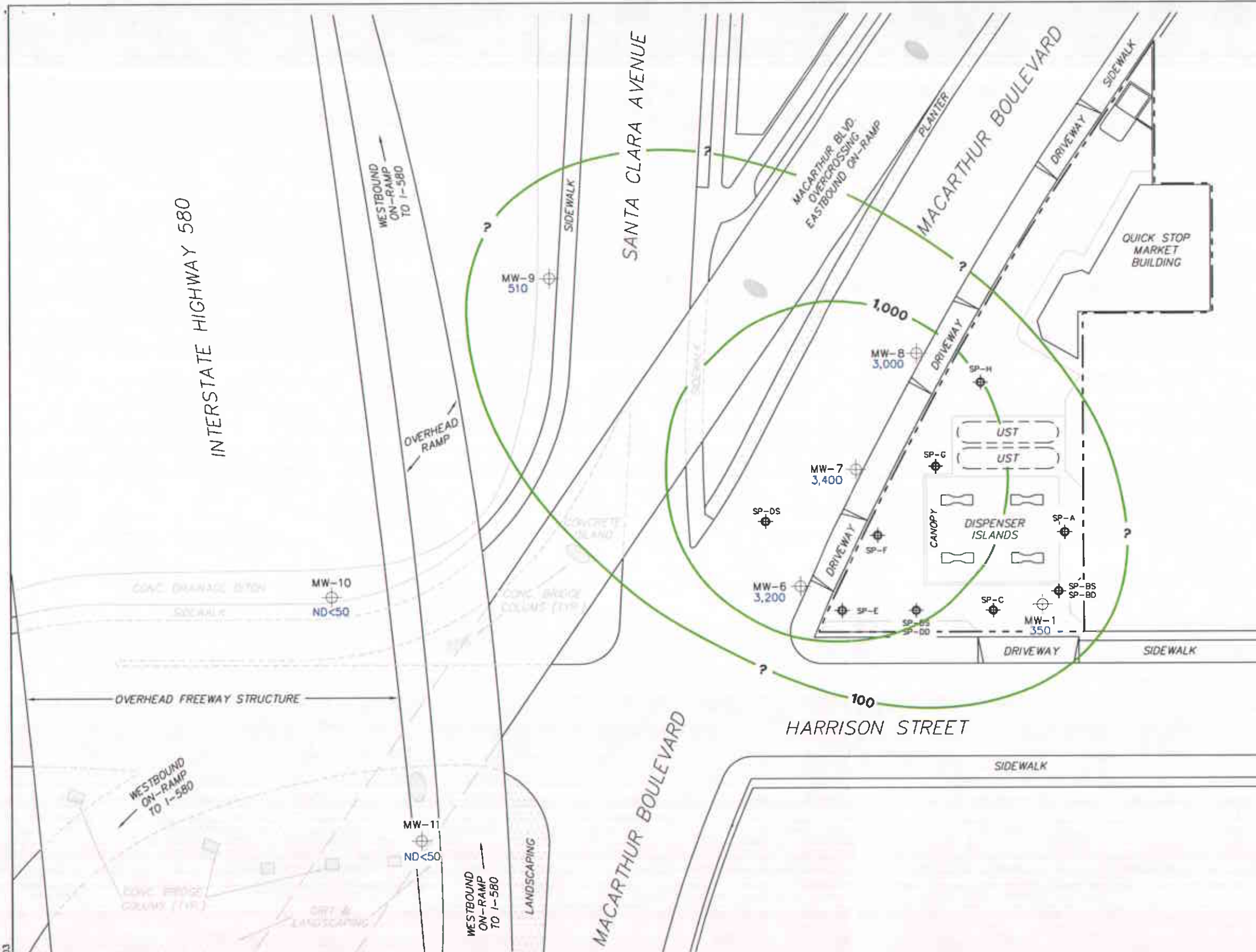
NOTES:
 Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank.

**GROUNDWATER ELEVATION
 CONTOUR MAP
 April 2, 2004**

76 Station 1871
 96 MacArthur Boulevard
 Oakland, California

FIGURE 2





LEGEND

- MW-11 ⊕ Monitoring Well with Dissolved-Phase TPH Concentration (µg/l)
- SP-H ⊕ Ozone Sparge Well
- 1,000 — Dissolved-Phase TPH Contour (µg/l)



NOTES:

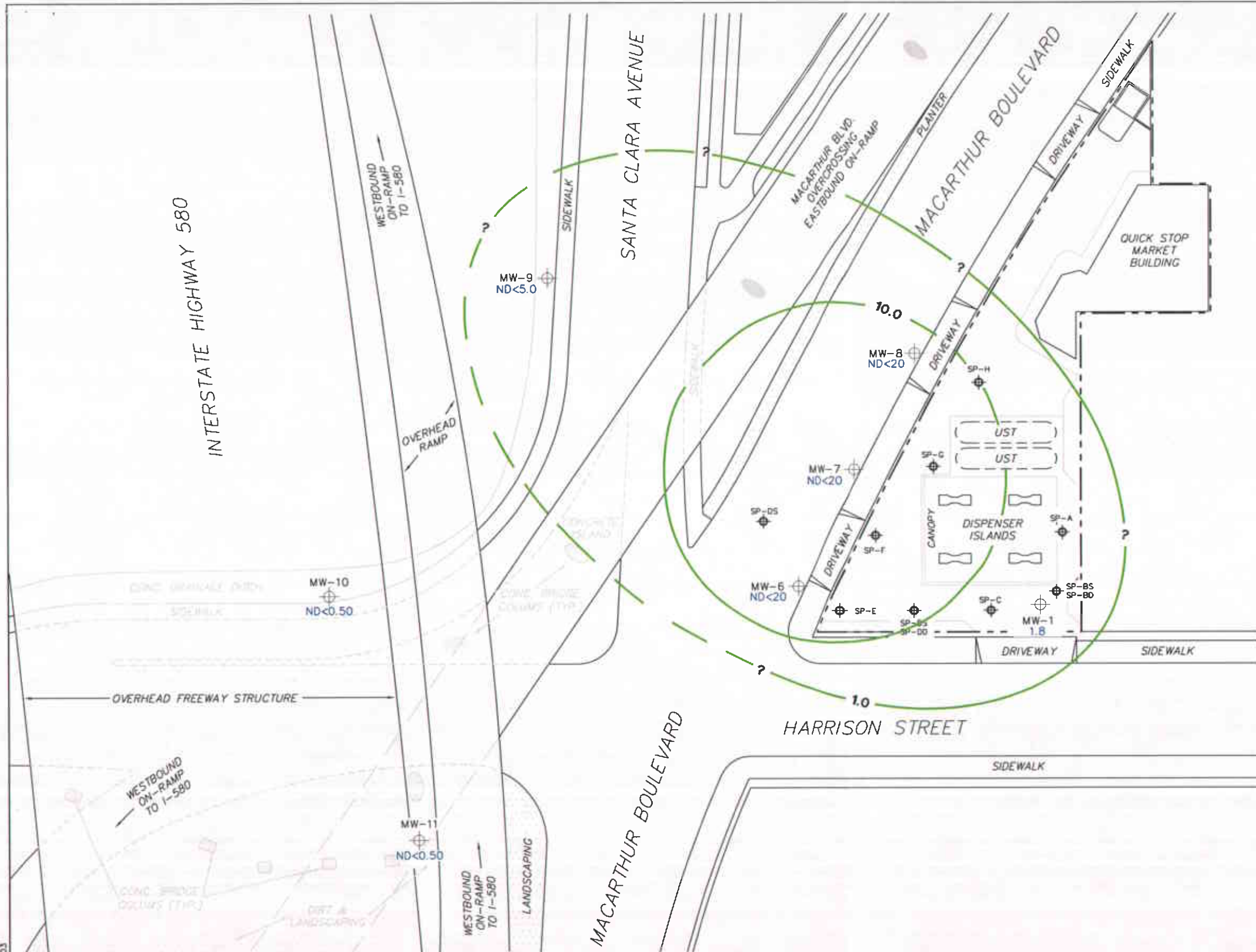
Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPH = total purgeable petroleum hydrocarbons. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Results obtained using EPA Method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

DISSOLVED-PHASE TPH CONCENTRATION MAP
April 2, 2004

76 Station 1871
 96 MacArthur Boulevard
 Oakland, California

FIGURE 3





LEGEND

- MW-11 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration ($\mu\text{g/l}$)
- SP-H ⊕ Ozone Sparge Well
- 10.0 — Dissolved-Phase Benzene Contour ($\mu\text{g/l}$)



NOTES:

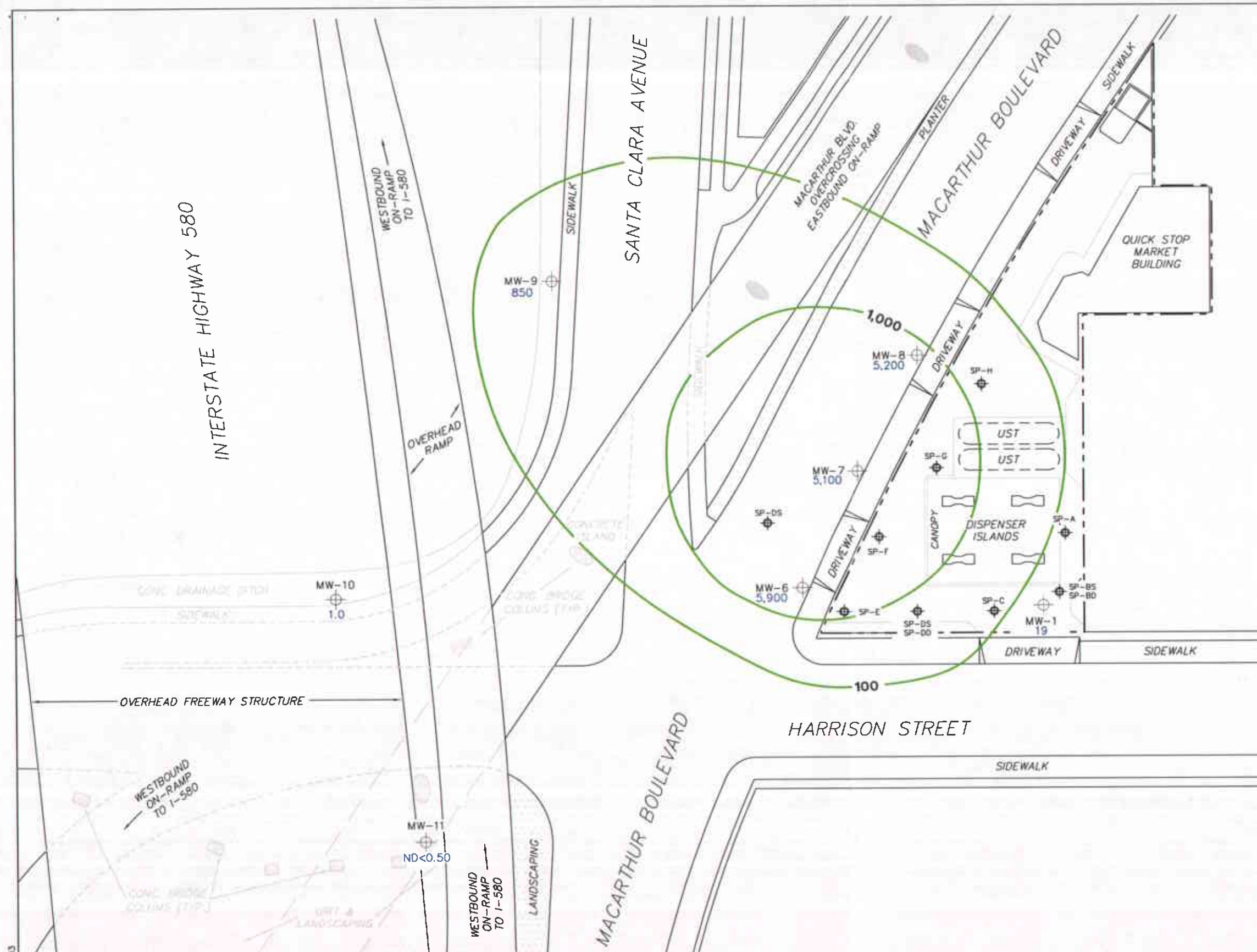
$\mu\text{g/l}$ = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
 UST = underground storage tank. Dashed line indicates contour based on non-detect at elevated detection limit.

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
 April 2, 2004

76 Station 1871
 96 MacArthur Boulevard
 Oakland, California

FIGURE 4





LEGEND

- MW-11 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)
- SP-H ⊕ Ozone Sparge Well
- 1,000 — Dissolved-Phase MTBE Contour (µg/l)



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
April 2, 2004

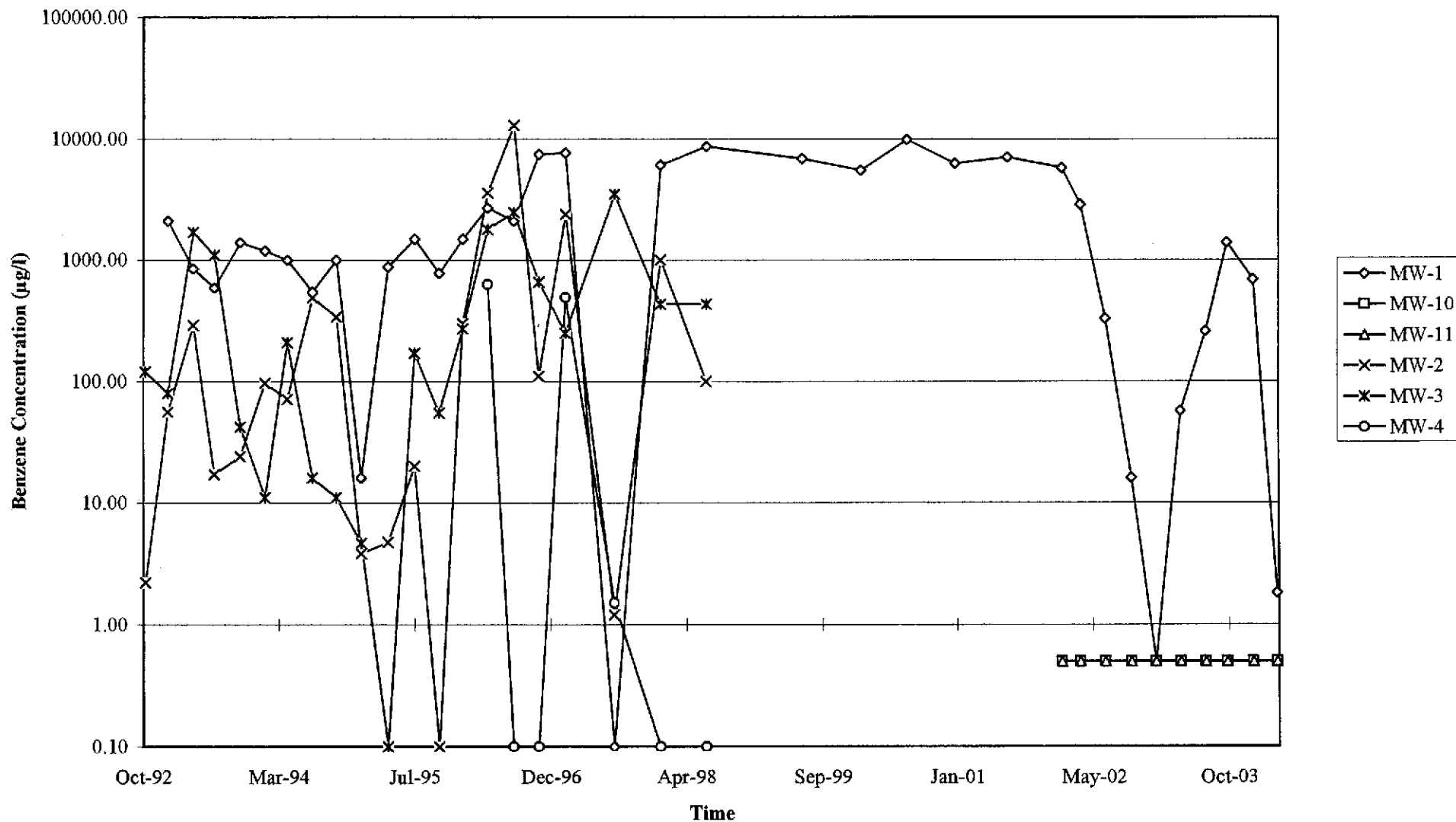
76 Station 1871
 96 MacArthur Boulevard
 Oakland, California

FIGURE 5

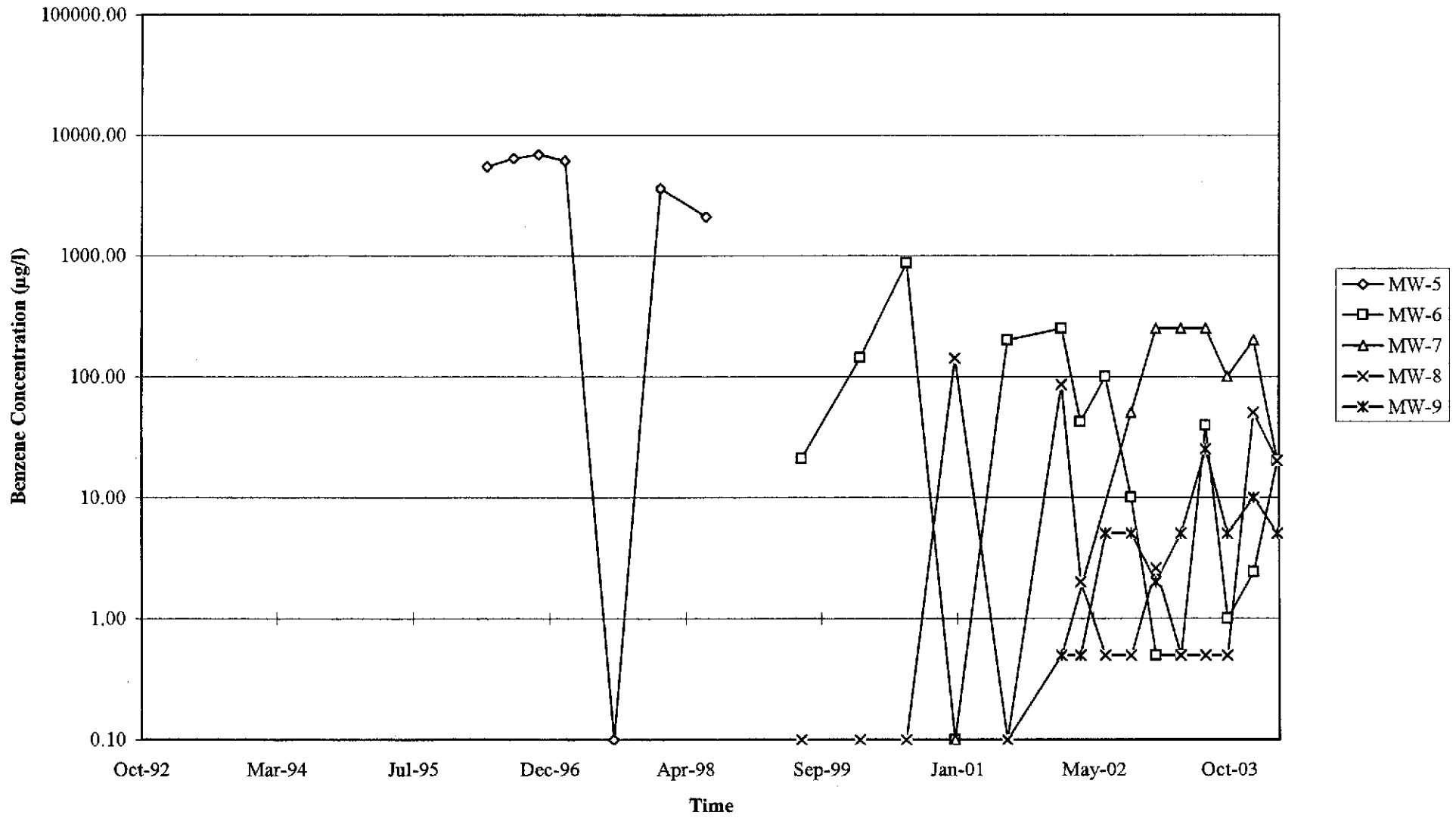


GRAPHS

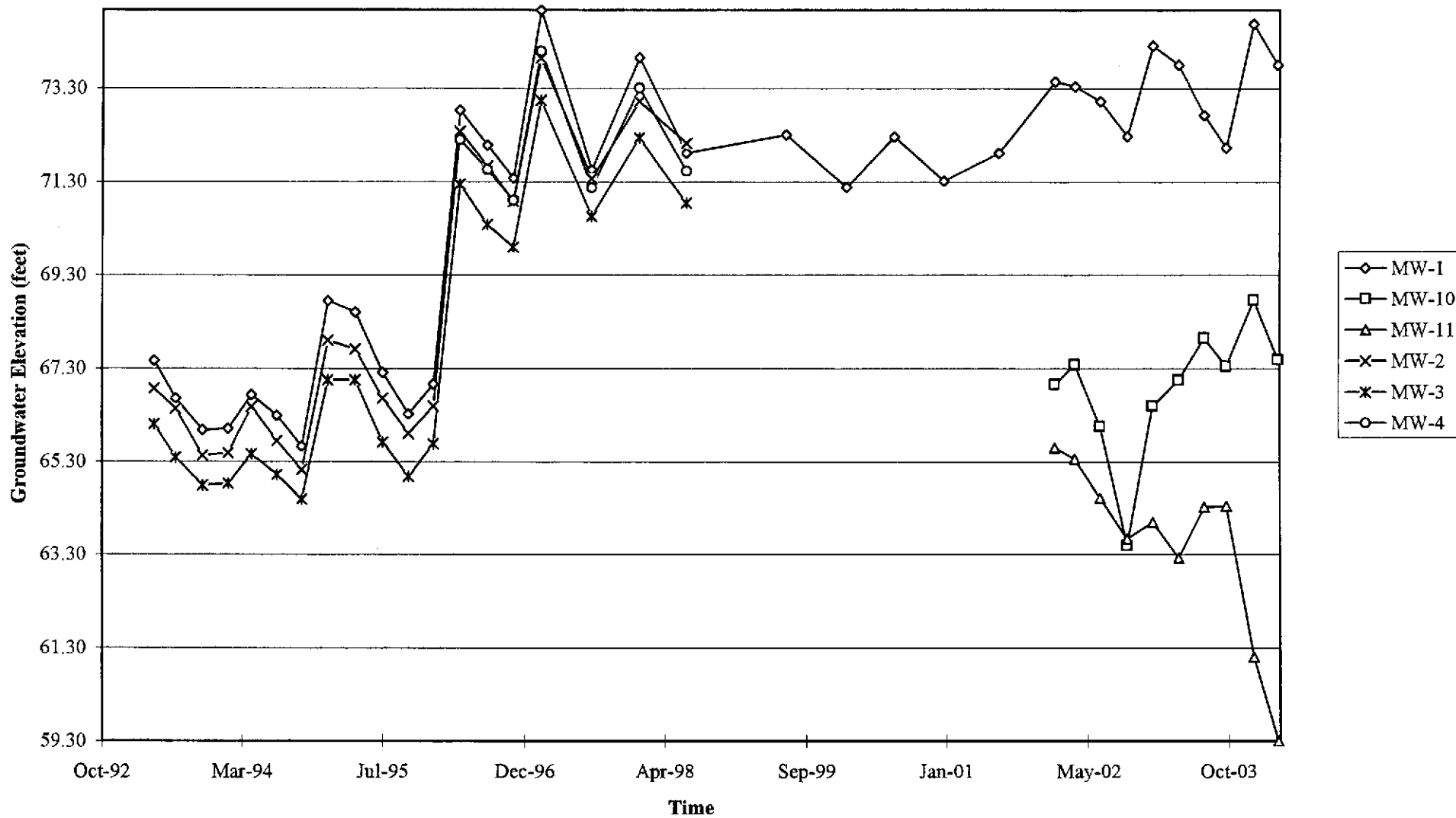
Graph 1
Benzene Concentrations vs. Time
76 Station 1871



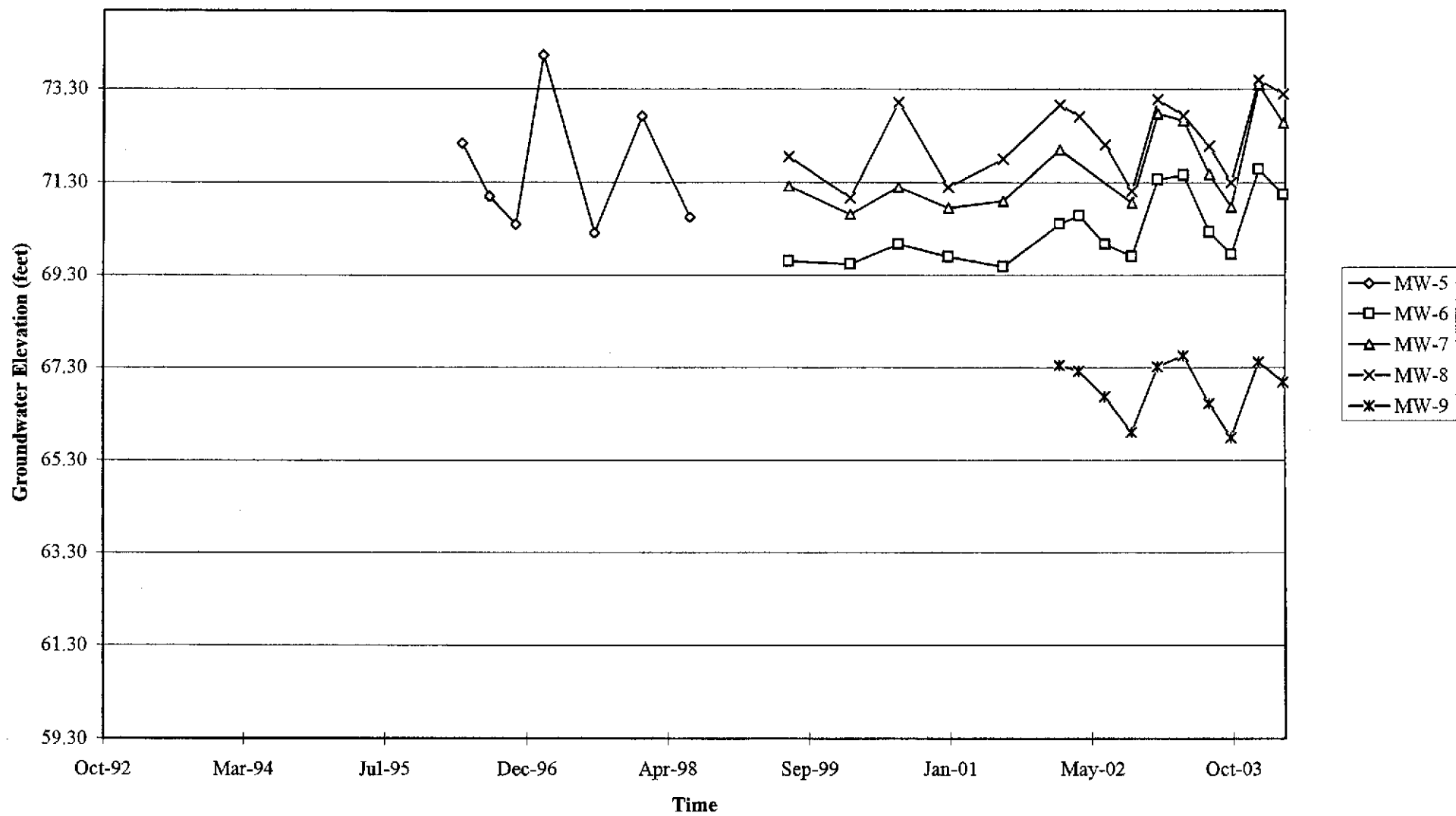
Graph 2
Benzene Concentrations vs. Time
76 Station 1871



Graph 3
Hydrograph
76 Station 1871



Graph 4
Hydrograph
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.

GROUNDWATER SAMPLING FIELD NOTES

Technician: Max K. Clifton

Site: 1871

Project No.: 41030001

Date: 4-2-09

Well No.: MW-1

Purge Method: Dia.

Depth to Water (feet): 13.18

Depth to Product (feet): 0

Total Depth (feet): 23.81

LPH & Water Recovered (gallons): 0

Water Column (feet): 10.63

Casing Diameter (Inches): 4"

80% Recharge Depth (feet): 15.31

1 Well Volume (gallons): 7

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	ORP Turbidity	D.O.
0730			7	718	14.1	7.13	36	13.42
				702 ME				
			14	702	14.3	7.21	41	12.67
	0747		21	709	15.2	7.22	34	11.33
Static at Time Sampled		Total Gallons Purged			Time Sampled			
23.22		21			102.7			
Comments: <u>Well went dry after purging.</u>								
<u>Well did not recover at all after 2 1/2 hrs. - 3 hrs</u>								

Well No.: MW-6

Purge Method: Dia.

Depth to Water (feet): 8.63

Depth to Product (feet): 0

Total Depth (feet): 24.49

LPH & Water Recovered (gallons): 0

Water Column (feet): 15.86

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.80

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	ORP Turbidity	D.O.
0754			3	708	13.2	7.40	9	12.72
			6	741	13.0	7.56	20	13.46
	0806		9	747	12.5	7.46	23	12.63
Static at Time Sampled		Total Gallons Purged			Time Sampled			
9.36		9			1120			
Comments:								

GROUNDWATER SAMPLING FIELD NOTES

Technician: Max Edelstein

Site: 1871

Project No.: 4030001

Date: 4-2-04

Well No.: MW-7

Purge Method: Dig

Depth to Water (feet): 8.09

Depth to Product (feet): 0

Total Depth (feet): 24.48

LPH & Water Recovered (gallons): 0

Water Column (feet): 16.39

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 11.38

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	ORP Turbidity	D.O.
0814			3	788	15.3	7.28	24	11.32
			6	762	14.7	7.31	22	12.03
	0826		9	792	14.0	7.31	10	12.41
Static at Time Sampled			Total Gallons Purged		Time Sampled			
			9		1140			
Comments: <u>Had to wait for car to leave to sample</u>								

Well No.: MW-8

Purge Method: Dig

Depth to Water (feet): 8.51

Depth to Product (feet): 0

Total Depth (feet): 24.22

LPH & Water Recovered (gallons): 0

Water Column (feet): 15.71

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)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	ORP Turbidity	D.O.
0832			3	598	16.2	7.25	-10	12.82
			6	609	18.7	7.48	3	13.47
	0845		9	611	18.3	7.62	16	13.37
Static at Time Sampled			Total Gallons Purged		Time Sampled			
9.37			9		1035 1146 146			
Comments: <u>Had to wait for car to leave to sample</u>								

GROUNDWATER SAMPLING FIELD NOTES

Technician: Max Eckstedt

Site: 1871

Project No.: 4108000

Date: 4-2-04

Well No.: MU-7

Purge Method: Hand bail

Depth to Water (feet): 15.08

Depth to Product (feet): 0

Total Depth (feet): 19.86

LPH & Water Recovered (gallons): 0

Water Column (feet): 4.78

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 16.04

1 Well Volume (gallons): 1

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	ORP Turbidity	D.O.
0905			1	647	14.1	7.72	12	13.21
			2	702	14.1	7.54	15	14.00
	0910		3	668	14.5	7.54	32	16.37
Static at Time Sampled		Total Gallons Purged		Time Sampled				
13.08		3		1038				
Comments:								

Well No.: MU-10

Purge Method: Hand Bail

Depth to Water (feet): 7.49

Depth to Product (feet): 0

Total Depth (feet): 19.89

LPH & Water Recovered (gallons): 0

Water Column (feet): 12.40

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 9.97

1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	ORP Turbidity	D.O.
0918			2	637	16.0	7.38	42	12.02
			4	601	16.4	7.43	45	11.88
	0924		6	582	16.9	7.68	45	11.91
Static at Time Sampled		Total Gallons Purged		Time Sampled				
7.82		6		1052				
Comments:								

GROUNDWATER SAMPLING FIELD NOTES

Technician: Max Eckstein

Site: 1871

Project No.: 41030001

Date: 4-2-04

Well No.: M6-11

Purge Method: Hand bail

Depth to Water (feet): 18.01

Depth to Product (feet): 0

Total Depth (feet): 30.01

LPH & Water Recovered (gallons): 0

Water Column (feet): 12.00

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 20.41

1 Well Volume (gallons): 2"

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
0940			2	1364	17.1	8.92	-1	14.08
			4	1299	17.1	8.18	98	13.65
	1002		6	1239	17.6	8.13	108	11.94
Static at Time Sampled		Total Gallons Purged			Time Sampled			
18.94		6			11 08			
Comments:								

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)	Conduc-tivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
Static at Time Sampled		Total Gallons Purged			Time Sampled			
Comments:								

TRC Alton Geoscience

April 16, 2004

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 04/05/2004 16:34

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 05/20/2004 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 Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

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 # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	04/02/2004 10:27	Water	1
MW-6	04/02/2004 11:20	Water	2
MW-7	04/02/2004 11:40	Water	3
MW-8	04/02/2004 11:45	Water	4
MW-9	04/02/2004 10:38	Water	5
MW-10	04/02/2004 10:52	Water	6
MW-11	04/02/2004 11:08	Water	7

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 # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-1	Lab ID: 2004-04-0138 - 1
Sampled: 04/02/2004 10:27	Extracted: 4/13/2004 15:11
Matrix: Water	QC Batch#: 2004/04/13-1C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	350	50	ug/L	1.00	04/13/2004 15:11	
Benzene	1.8	0.50	ug/L	1.00	04/13/2004 15:11	
Toluene	ND	0.50	ug/L	1.00	04/13/2004 15:11	
Ethylbenzene	6.2	0.50	ug/L	1.00	04/13/2004 15:11	
Total xylenes	30	1.0	ug/L	1.00	04/13/2004 15:11	
Methyl tert-butyl ether (MTBE)	19	0.50	ug/L	1.00	04/13/2004 15:11	
Ethanol	ND	50	ug/L	1.00	04/13/2004 15:11	
Surrogate(s)						
Toluene-d8	89.1	88-110	%	1.00	04/13/2004 15:11	
1,2-Dichloroethane-d4	98.3	76-114	%	1.00	04/13/2004 15:11	

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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 # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Prep(s): 5030B Test(s): 8260FAB
 Sample ID: MW-6 Lab ID: 2004-04-0138 - 2
 Sampled: 04/02/2004 11:20 Extracted: 4/14/2004 15:53
 Matrix: Water QC Batch#: 2004/04/14-1D.64
 Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	3200	2000	ug/L	40.00	04/14/2004 15:53	g
Benzene	ND	20	ug/L	40.00	04/14/2004 15:53	
Toluene	ND	20	ug/L	40.00	04/14/2004 15:53	
Ethylbenzene	ND	20	ug/L	40.00	04/14/2004 15:53	
Total xylenes	ND	40	ug/L	40.00	04/14/2004 15:53	
Methyl tert-butyl ether (MTBE)	5900	20	ug/L	40.00	04/14/2004 15:53	
Ethanol	ND	2000	ug/L	40.00	04/14/2004 15:53	
Surrogate(s)						
Toluene-d8	95.1	88-110	%	40.00	04/14/2004 15:53	
1,2-Dichloroethane-d4	102.1	76-114	%	40.00	04/14/2004 15:53	

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20

Conoco Phillips # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Prep(s): 5030B

Test(s): 8260FAB

Sample ID: MW-7

Lab ID: 2004-04-0138 - 3

Sampled: 04/02/2004 11:40

Extracted: 4/13/2004 20:02

Matrix: Water

QC Batch#: 2004/04/13-2A.64

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	3400	2000	ug/L	40.00	04/13/2004 20:02	g
Benzene	ND	20	ug/L	40.00	04/13/2004 20:02	
Toluene	ND	20	ug/L	40.00	04/13/2004 20:02	
Ethylbenzene	ND	20	ug/L	40.00	04/13/2004 20:02	
Total xylenes	ND	40	ug/L	40.00	04/13/2004 20:02	
Methyl tert-butyl ether (MTBE)	5100	20	ug/L	40.00	04/13/2004 20:02	
Ethanol	ND	2000	ug/L	40.00	04/13/2004 20:02	
Surrogate(s)						
Toluene-d8	92.9	88-110	%	40.00	04/13/2004 20:02	
1,2-Dichloroethane-d4	113.0	76-114	%	40.00	04/13/2004 20:02	

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Conoco Phillips # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Prep(s): 5030B Test(s): 8260FAB
 Sample ID: MW-8 Lab ID: 2004-04-0138 - 4
 Sampled: 04/02/2004 11:45 Extracted: 4/13/2004 20:24
 Matrix: Water QC Batch#: 2004/04/13-2A.64
 Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	3000	2000	ug/L	40.00	04/13/2004 20:24	g
Benzene	ND	20	ug/L	40.00	04/13/2004 20:24	
Toluene	ND	20	ug/L	40.00	04/13/2004 20:24	
Ethylbenzene	ND	20	ug/L	40.00	04/13/2004 20:24	
Total xylenes	ND	40	ug/L	40.00	04/13/2004 20:24	
Methyl tert-butyl ether (MTBE)	5200	20	ug/L	40.00	04/13/2004 20:24	
Ethanol	ND	2000	ug/L	40.00	04/13/2004 20:24	
Surrogate(s)						
Toluene-d8	92.9	88-110	%	40.00	04/13/2004 20:24	
1,2-Dichloroethane-d4	108.3	76-114	%	40.00	04/13/2004 20:24	

Gas/BTEX Fuel Oxygenates by 8260B

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Conoco Phillips # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Prep(s): 5030B Test(s): 8260FAB
 Sample ID: MW-9 Lab ID: 2004-04-0138 - 5
 Sampled: 04/02/2004 10:38 Extracted: 4/10/2004 17:50
 Matrix: Water QC Batch#: 2004/04/10-1B.64
 Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	510	500	ug/L	10.00	04/10/2004 17:50	g
Benzene	ND	5.0	ug/L	10.00	04/10/2004 17:50	
Toluene	ND	5.0	ug/L	10.00	04/10/2004 17:50	
Ethylbenzene	ND	5.0	ug/L	10.00	04/10/2004 17:50	
Total xylenes	ND	10	ug/L	10.00	04/10/2004 17:50	
Methyl tert-butyl ether (MTBE)	850	5.0	ug/L	10.00	04/10/2004 17:50	
Ethanol	ND	500	ug/L	10.00	04/10/2004 17:50	
Surrogate(s)						
Toluene-d8	94.0	88-110	%	10.00	04/10/2004 17:50	
1,2-Dichloroethane-d4	102.1	76-114	%	10.00	04/10/2004 17:50	

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Conoco Phillips # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-10	Lab ID:	2004-04-0138 - 6
Sampled:	04/02/2004 10:52	Extracted:	4/10/2004 18:12
Matrix:	Water	QC Batch#:	2004/04/10-1B.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/10/2004 18:12	
Benzene	ND	0.50	ug/L	1.00	04/10/2004 18:12	
Toluene	ND	0.50	ug/L	1.00	04/10/2004 18:12	
Ethylbenzene	ND	0.50	ug/L	1.00	04/10/2004 18:12	
Total xylenes	ND	1.0	ug/L	1.00	04/10/2004 18:12	
Methyl tert-butyl ether (MTBE)	1.0	0.50	ug/L	1.00	04/10/2004 18:12	
Ethanol	ND	50	ug/L	1.00	04/10/2004 18:12	
Surrogate(s)						
Toluene-d8	92.4	88-110	%	1.00	04/10/2004 18:12	
1,2-Dichloroethane-d4	99.2	76-114	%	1.00	04/10/2004 18:12	

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Conoco Phillips # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-11	Lab ID:	2004-04-0138 - 7
Sampled:	04/02/2004 11:08	Extracted:	4/10/2004 18:34
Matrix:	Water	QC Batch#:	2004/04/10-1B.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	04/10/2004 18:34	
Benzene	ND	0.50	ug/L	1.00	04/10/2004 18:34	
Toluene	ND	0.50	ug/L	1.00	04/10/2004 18:34	
Ethylbenzene	ND	0.50	ug/L	1.00	04/10/2004 18:34	
Total xylenes	ND	1.0	ug/L	1.00	04/10/2004 18:34	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	04/10/2004 18:34	
Ethanol	ND	50	ug/L	1.00	04/10/2004 18:34	
Surrogate(s)						
Toluene-d8	94.7	88-110	%	1.00	04/10/2004 18:34	
1,2-Dichloroethane-d4	102.7	76-114	%	1.00	04/10/2004 18:34	

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Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20

Conoco Phillips # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/04/10-1B.64-007

Water

Test(s): 8260FAB

QC Batch # 2004/04/10-1B.64

Date Extracted: 04/10/2004 10:07

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/10/2004 10:07	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/10/2004 10:07	
Benzene	ND	0.5	ug/L	04/10/2004 10:07	
Toluene	ND	0.5	ug/L	04/10/2004 10:07	
Ethylbenzene	ND	0.5	ug/L	04/10/2004 10:07	
Total xylenes	ND	1.0	ug/L	04/10/2004 10:07	
Ethanol	ND	50	ug/L	04/10/2004 10:07	
Surrogates(s)					
1,2-Dichloroethane-d4	93.8	76-114	%	04/10/2004 10:07	
Toluene-d8	93.2	88-110	%	04/10/2004 10:07	

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Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20
Conoco Phillips # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B
Method Blank

Water

Test(s): 8260FAB
QC Batch # 2004/04/13-1C.64

MB: 2004/04/13-1C.64-045

Date Extracted: 04/13/2004 08:45

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/13/2004 08:45	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/13/2004 08:45	
Benzene	ND	0.5	ug/L	04/13/2004 08:45	
Toluene	ND	0.5	ug/L	04/13/2004 08:45	
Ethylbenzene	ND	0.5	ug/L	04/13/2004 08:45	
Total xylenes	ND	1.0	ug/L	04/13/2004 08:45	
Ethanol	ND	50	ug/L	04/13/2004 08:45	
Surrogates(s)					
1,2-Dichloroethane-d4	94.8	76-114	%	04/13/2004 08:45	
Toluene-d8	91.4	88-110	%	04/13/2004 08:45	

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Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20

Conoco Phillips # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/04/13-2A.64-005

Water

Test(s): 8260FAB

QC Batch # 2004/04/13-2A.64

Date Extracted: 04/13/2004 19:05

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/13/2004 19:05	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/13/2004 19:05	
Benzene	ND	0.5	ug/L	04/13/2004 19:05	
Toluene	ND	0.5	ug/L	04/13/2004 19:05	
Ethylbenzene	ND	0.5	ug/L	04/13/2004 19:05	
Total xylenes	ND	1.0	ug/L	04/13/2004 19:05	
Ethanol	ND	50	ug/L	04/13/2004 19:05	
Surrogates(s)					
1,2-Dichloroethane-d4	99.6	76-114	%	04/13/2004 19:05	
Toluene-d8	96.4	88-110	%	04/13/2004 19:05	

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Gas/BTEX Fuel Oxygenates by 8260B

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Project: 41050001FA20

Conoco Phillips # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/04/14-1D.64-026

Water

Test(s): 8260FAB

QC Batch # 2004/04/14-1D.64

Date Extracted: 04/14/2004 09:26

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/14/2004 09:26	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/14/2004 09:26	
Benzene	ND	0.5	ug/L	04/14/2004 09:26	
Toluene	ND	0.5	ug/L	04/14/2004 09:26	
Ethylbenzene	ND	0.5	ug/L	04/14/2004 09:26	
Total xylenes	ND	1.0	ug/L	04/14/2004 09:26	
Ethanol	ND	50	ug/L	04/14/2004 09:26	
Surrogates(s)					
1,2-Dichloroethane-d4	97.2	76-114	%	04/14/2004 09:26	
Toluene-d8	97.4	88-110	%	04/14/2004 09:26	

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Project: 41050001FA20

Conoco Phillips # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2004/04/10-1B.64

LCS 2004/04/10-1B.64-022

Extracted: 04/10/2004

Analyzed: 04/10/2004 09:22

LCSD 2004/04/10-1B.64-045

Extracted: 04/10/2004

Analyzed: 04/10/2004 09:45

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.2	23.4	25	92.8	93.6	0.9	65-165	20		
Benzene	24.2	24.2	25	96.8	96.8	0.0	69-129	20		
Toluene	24.8	24.3	25	99.2	97.2	2.0	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	459	445	500	91.8	89.0		76-114			
Toluene-d8	473	468	500	94.6	93.6		88-110			

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Project: 41050001FA20

Conoco Phillips # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2004/04/13-1C.64

LCS 2004/04/13-1C.64-001

Extracted: 04/13/2004

Analyzed: 04/13/2004 08:01

LCSD 2004/04/13-1C.64-023

Extracted: 04/13/2004

Analyzed: 04/13/2004 08:23

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.5	22.4	25	90.0	89.6	0.4	65-165	20		
Benzene	23.6	22.2	25	94.4	88.8	6.1	69-129	20		
Toluene	23.3	22.2	25	93.2	88.8	4.8	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	445	461	500	89.0	92.2		76-114			
Toluene-d8	460	452	500	92.0	90.4		88-110			

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Project: 41050001FA20

Conoco Phillips # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2004/04/13-2A.64

LCS 2004/04/13-2A.64-020

Extracted: 04/13/2004

Analyzed: 04/13/2004 18:20

LCSD 2004/04/13-2A.64-043

Extracted: 04/13/2004

Analyzed: 04/13/2004 18:43

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.5	22.8	25	94.0	91.2	3.0	65-165	20		
Benzene	25.4	25.2	25	102.0	100.8	1.2	69-129	20		
Toluene	25.4	24.3	25	101.6	97.2	4.4	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	481	473	500	96.2	94.6		76-114			
Toluene-d8	483	484	500	96.6	96.8		88-110			

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Project: 41050001FA20

Conoco Phillips # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2004/04/14-1D.64

LCS 2004/04/14-1D.64-041

Extracted: 04/14/2004

Analyzed: 04/14/2004 08:41

LCSD 2004/04/14-1D.64-004

Extracted: 04/14/2004

Analyzed: 04/14/2004 09:04

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.2	22.2	25	88.8	88.8	0.0	65-165	20		
Benzene	24.0	24.2	25	96.0	96.8	0.8	69-129	20		
Toluene	24.0	23.9	25	96.0	95.6	0.4	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	443	453	500	88.6	90.6		76-114			
Toluene-d8	480	485	500	96.0	97.0		88-110			

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Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience
Attn.: Anju Farfan

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Phone: (949) 341-7440 Fax: (949) 753-0111
Project: 41050001FA20
Conoco Phillips # 1871

Received: 04/05/2004 16:34

Site: 96 MacArthur, Oakland

Legend and Notes

Analysis Flag

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

Result Flag

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

STL San Francisco

Sample Receipt Checklist

Submission #: 2004- 04-0138

Checklist completed by: (initials) NK Date: 04/06/04

Courier name: STL San Francisco Client _____

Custody seals intact on shipping container/samples Yes _____ No _____ Not Present

Chain of custody present? Yes No _____

Chain of custody signed when relinquished and received? Yes No _____

Chain of custody agrees with sample labels? Yes No _____

Samples in proper container/bottle? Yes No _____

Sample containers intact? Yes No _____

Sufficient sample volume for indicated test? Yes No _____

All samples received within holding time? Yes No _____

Container/Temp Blank temperature in compliance ($4^{\circ}C \pm 2$)? Temp: 2.0 °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: HNO₃ HCl H₂SO₄ 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):

STL-San Francisco

7004-04-0138

ConocoPhillips Chain Of Custody Record

84520

1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

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: 4-02-04

PAGE: 1 of 1

SAMPLING COMPANY: TRC		Valid Value ID:	CONOCOPHILLIPS SITE NUMBER 1871		GLOBAL ID NO.: T0600101493
ADDRESS: 21 Technology Drive, Irvine CA 92618		SITE ADDRESS (Street and City): 96 MacArthur, Oakland		CONOCOPHILLIPS SITE MANAGER:	
PROJECT CONTACT (Hardcopy or PDF Report to): Anju Farfan		EDF DELIVERABLE TO (RP or Designee): Peter Thomson, TRC		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): Max Eckstein		CONSULTANT PROJECT NUMBER: 41050001/FA20		REQUESTED ANALYSES	

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

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MBE	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/MBE	Lead <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> DTCLP	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes 2.0 L	TEMPERATURE ON RECEIPT C°	
		DATE	TIME													
	MW-1	4-2-04	1027	GL	3									X TPHg by 8260B		
	MW-6		1120											X BTEX/MBE/ETH/4.0/1 by 8260B		
	MW-7		1140													
	MW-8		1145													
	MW-9		1038													
	MW-10		1050													
	MW-11		1108													

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 4/5/04 1131	Time: 1720
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 4/5/04 1634	Time:
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date:	Time:

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.