ConocoPhillips
76 Broadway
Sacramento, California 95818

January 30, 2009

Barbara Jakub
Alameda County Health Agency
1131 Harbor Bay parkway, Suite250
Alameda, California 94502-577

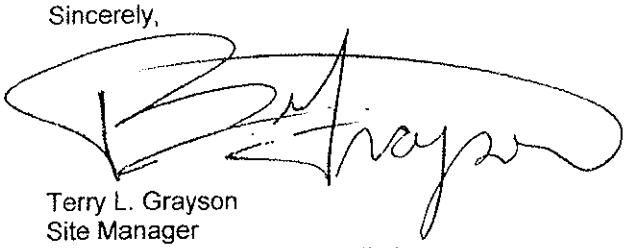
Re: ***Quarterly Summary Report—Second Quarter 2008***
76 Service Station # 1871 RO # 0455
96 MacArthur Blvd
Oakland, CA

Dear Ms. Jakub:

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

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

Sincerely,



Terry L. Grayson
Site Manager
Risk Management & Remediation

January 26, 2009

Ms. Barbara Jakubs
Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Re: Quarterly Summary Report – Second Quarter 2008
76 Service Station No. 1871
96 MacArthur Boulevard
Oakland, California
RO0000455

DELTA

Dear Ms. Jakubs,

On behalf of ConocoPhillips Company (ConocoPhillips), Delta Consultants (Delta) is submitting the subject report and forwarding a copy of TRC's *Quarterly Monitoring Report April through June 2008,* dated July 14, 2008 for the above site. TRC has uploaded a copy of their report to the GeoTracker database.

Please contact me at (916) 503-1260 if you have questions.

Sincerely,
Delta Consultants

John Reay, P.G.
Senior Project Manager

Enclosure

cc: Mr. Terry Grayson– ConocoPhillips (electronic copy only)

a member of. Inogen Environmental Alliance

11050 White Rock Road Suite 110 Rancho Cordova, California 95670 USA
Phone +1 916.638.2085 / USA Toll Free 800.477.7411
Fax +1 916.638.8385 www.deltaenv.com

QUARTERLY SUMMARY REPORT
Second Quarter 2008

76 Service Station No. 1871
96 MacArthur Boulevard
Oakland, California

County: Alameda

SITE DESCRIPTION

The site is an operating service station located on the north corner of the intersection of MacArthur Boulevard and Harrison Street in Oakland, California. The site is currently a QuikStop market and petroleum dispensing facility. There are four dispenser islands, one station building, and two gasoline underground storage tanks (USTs).

SITE BACKGROUND AND ACTIVITY

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 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 frequency 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 development of a Risk Based Corrective Action (RBCA) evaluation for the site.

February 1999 GR performed a RBCA evaluation. The RBCA evaluation concluded 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 1/4 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.

January 2006 Operations and maintenance responsibilities for the remediation system were transferred to Environ Strategy Consultants, Inc. International Inc. (Environ Strategy).

November 2007 At the request of the ACHCSA, TRC submitted a Site Conceptual Model.

October 2007 Site environmental consulting responsibilities were transferred to Delta Consultants.

SENSITIVE RECEPTORS

No potential receptors for impacted groundwater were identified within one-quarter mile distance of the site during the 1999 RBCA evaluation. No other sensitive receptor surveys have been conducted for the site.

GROUNDWATER MONITORING AND SAMPLING

The groundwater monitoring well network, consisting of one onsite and six offsite monitoring wells, has been monitored and sampled on a quarterly basis since January 2002. During the most recent groundwater sampling event conducted on June 12, 2008, reported depth to groundwater ranged from 7.11 feet (MW-10) to 14.07 feet (MW-1) below top of casing (TOC).

The groundwater flow direction was reported west to south at a gradient of 0.04 ft/ft. This is inconsistent with a gradient of 0.02 southwest during the previous sampling event (April 25, 2008). Reported historical groundwater flow direction has been primarily to the southwest.

Dissolved groundwater concentrations are reported as follows.

TPH-G Detected in four of the seven sampled wells with a maximum concentration of 4,900 µg/L (MW-1). This is an increase from the maximum concentration of 7,400 µg/L, reported in the sample from well MW-1 during the previous sampling event. MW-

16, MW-7, and MW-9 showed concentrations of 84 µg/L, 52 µg/L, and 180 µg/L respectively during the lcurrent sampling event.

Benzene Detected in one of the seven sampled wells with a maximum concentration of 6.4 µg/L in the sample from well MW-1. This is a decrease from maximum concentration of 28 µg/L in MW-1 during the previous sampling event. Historically, results are not reported above laboratory reporting limits in any sampled well.

MTBE Detected in six of the seven sampled wells with a maximum concentration of 270 µg/L (MW-9). This is a decrease from a maximum concentration of 340 µg/L in the sample from well MW-9 during the previous sampling event. MW-1, MW-6, MW-7, MW-8, and MW-10 showed concentrations of 16 µg/L, 17 µg/L, 9.4 µg/L, 14 µg/L, and 2.6 µg/L respectively during the current sampling event.

REMEDIATION STATUS

April 2002 GR installed an ozone sparge 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 149 pounds of ozone have been injected.

CHARACTERIZATION STATUS

Soil samples have shown maximum TPH-G, benzene, and MTBE concentrations of 7,400 mg/kg, 3.1 mg/kg and 1 mg/kg, respectively. During the most recent monitoring and sampling event, the maximum TPH-G and MTBE concentrations were 7,400 µg/L (MW-1) and 340 µg/L (MW-9).

As noted, an ozone sparge was activated on April 8, 2002. At that time one monitoring well (MW-1) was onsite; monitoring wells MW-2 through MW-5 had been destroyed. Ozone sparging initially had some definite effect on lowering petroleum hydrocarbon concentrations in groundwater, especially evidenced in the TPH-G concentrations in MW-1. However, within five quarters the TPH-G concentrations were comparable to the highest detected and ozone sparging appears to have little effect based on the analytical results of groundwater samples collected from MW-1.

Downgradient offsite migration of MTBE is evident based on the historical analytical results of groundwater samples from monitoring wells MW-6, MW-7, and MW-8, located adjacent to the site, and MW-9, located more than 150 feet from the onsite source. To date, groundwater samples from downgradient offsite monitoring well MW-10 have not shown similar MTBE concentrations as the other offsite wells. Assessment of downgradient migration of MTBE, e.g., rate of migration, has not yet been addressed.

RECENT CORRESPONDENCE

No regulatory correspondence were received or sent during the first quarter 2008.

THIS QUARTER ACTIVITIES (Second Quarter 2008)

- Delta prepared the *Quarterly Summary Report, First Quarter 2008*, dated June 23, 2008.

- Monitoring and sampling of the groundwater monitoring well network was conducted by TRC on June 12, 2008.

NEXT QUARTER ACTIVITIES (Second Quarter 2008)

- TRC prepared the *Quarterly Monitoring report January through March 2008* dated April 16, 2080.

- TRC will perform the second quarter 2008 groundwater monitoring and sampling event and will prepare a quarterly monitoring report.

CONSULTANT: Delta Consultants

TRC

21 Technology Drive
Irvine, CA 92618

949 727.9336 PHONE
949 727.7399 FAX

www.TRCsolutions.com

DATE: July 14, 2008

TO: ConocoPhillips Company
76 Broadway
Sacramento, California 95818

ATTN: MR. BILL BORGH

SITE: 76 STATION 1871
96 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2008

Dear Mr. Borgh:

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) 727-9336.

Sincerely,

TRC

Anju Farfan
Groundwater Program Operations Manager

CC: Ms. Caitlin Morgan, Delta Consultants (3 copies)

Enclosures
20-0400/1871R19 QMS

QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2008

76 STATION 1871
96 MacArthur Boulevard
Oakland, California

Prepared For:

Mr. Bill Borgh
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, California 95818

By:

Senior Project Geologist, Irvine Operations

Date: 7/14/08

TRC

LIST OF ATTACHMENTS	
Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Contents of Tables Table 1: Current Fluid Levels and Selected Analytical Results Table 1a: Additional Current Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 2a: Additional Historic Analytical Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPH-G (GC/MS) 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 Field Monitoring Data Sheet - 06/12/08 Groundwater Sampling Field Notes - 06/12/08
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities
April 2008 through June 2008
76 Station 1871
96 MacArthur Boulevard
Oakland, CA

Project Coordinator: **Bill Borgh**
Telephone: **916-558-7612**
Water Sampling Contractor: ***TRC***
Compiled by: **Christina Carrillo**
Date(s) of Gauging/Sampling Event: **06/12/08**

Sample Points

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

Liquid Phase Hydrocarbons (LPH)

Sample Points 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: **7.11 feet** Maximum: **15.7 feet**
Average groundwater elevation (relative to available local datum): **69.25 feet**
Average change in groundwater elevation since previous event: **-0.32 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.04 ft/ft, west to south**
Previous event: **0.02 ft/ft, southwest (03/25/08)**

Selected Laboratory Results

Sample Points with detected **Benzene:** **1** Sample Points above MCL (1.0 µg/l): **1**
Maximum reported benzene concentration: **6.4 µg/l (MW-1)**

Sample Points with **TPH-G by GC/MS** **4** Maximum: **4,900 µg/l (MW-1)**
Sample Points with **MTBE 8260B** **6** Maximum: **270 µg/l (MW-9)**

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 ABBREVIATIONS

--	=	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)
DNA	=	data not available

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-G (GC/MS)	=	total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B
TPH-D	=	total petroleum hydrocarbons with diesel distinction
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.

Contents of Tables 1 and 2
Site: 76 Station 1871

Current Event

Table 1	Well/ Date	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)		Comments
Table 1a	Well/ Date	TBA	Ethanol (8260B)	Pre-purge Dissolved Oxygen	Pre-purge ORP										

Historic Data

Table 2	Well/ Date	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015M)	TPH-G (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)		Comments
Table 2a	Well/ Date	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	pH (lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP	

Table 1

CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

June 12, 2008

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 (8015M) (µg/l)	TPH-G (GC/MS) (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)**												
06/12/08	86.99	14.07	0.00	72.92	-0.51	--	4900	6.4	ND<2.5	170	280	--	16	
MW-6		**(Screen Interval in feet: 5.0-25.0)**												
06/12/08	79.67	9.47	0.00	70.20	-0.84	--	84	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	17	
MW-7		**(Screen Interval in feet: 5.0-25.0)**												
06/12/08	80.67	8.92	0.00	71.75	-0.47	--	52	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	9.4	
MW-8		**(Screen Interval in feet: 5.0-25.0)**												
06/12/08	81.71	9.53	0.00	72.18	-1.13	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	14	
MW-9		**(Screen Interval in feet: DNA)**												
06/12/08	82.07	15.70	0.00	66.37	-0.79	--	180	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	270	
MW-10		**(Screen Interval in feet: DNA)**												
06/12/08	74.98	7.11	0.00	67.87	-0.37	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.6	
MW-11		**(Screen Interval in feet: DNA)**												
06/12/08	77.31	13.87	0.00	63.44	1.87	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 1 a
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TBA	Ethanol (8260B)	Pre-purge Dissolved Oxygen	Pre-purge ORP
	(µg/l)	(µg/l)	(mg/l)	(mV)
MW-1				
06/12/08	330	ND<1200	4.33	65
MW-6				
06/12/08	ND<10	ND<250	0.80	30
MW-7				
06/12/08	30	ND<250	3.96	55
MW-8				
06/12/08	ND<10	ND<250	9.40	38
MW-9				
06/12/08	250	ND<250	2.55	86
MW-10				
06/12/08	ND<10	ND<250	1.42	75
MW-11				
06/12/08	ND<10	ND<250	3.33	160

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2008

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 (8015M) (µg/l)	TPH-G (GC/MS) (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	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2008

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 (8015M) (µg/l)	TPH-G (GC/MS) (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														
07/10/00	86.24	13.97	0.00	72.27	1.08	67800	--	9910	4120	3330	16100	67400	54000	
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	
06/23/05	86.99	13.39	0.00	73.60	-0.41	--	24000	140	ND<25	1100	2900	--	600	
09/28/05	86.99	14.63	0.00	72.36	-1.24	--	8200	22	0.97	290	660	--	320	
12/20/05	86.99	11.42	0.00	75.57	3.21	--	10000	17	29	180	840	--	2400	
03/10/06	86.99	10.98	0.00	76.01	0.44	--	10000	35	ND<5.0	470	1300	--	960	
06/23/06	86.99	11.85	0.00	75.14	-0.87	--	11000	110	ND<5.0	610	1600	--	780	
09/27/06	86.99	14.11	0.00	72.88	-2.26	--	8500	22	ND<10	270	740	--	460	
12/22/06	86.99	13.66	0.00	73.33	0.45	--	7300	35	ND<5.0	370	850	--	210	
03/23/07	86.99	13.25	0.00	73.74	0.41	--	8800	28	ND<2.5	440	910	--	170	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2008

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 (8015M) (µg/l)	TPH-G (GC/MS) (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														
06/29/07	86.99	13.47	0.00	73.52	-0.22	--	6300	16	ND<2.5	300	650	--	50	
09/28/07	86.99	13.92	0.00	73.07	-0.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.2	
12/17/07	86.99	14.57	0.00	72.42	-0.65	--	4700	ND<5.0	ND<5.0	71	160	--	18	
03/25/08	86.99	13.56	0.00	73.43	1.01	--	7400	28	ND<2.5	430	540	--	170	
06/12/08	86.99	14.07	0.00	72.92	-0.51	--	4900	6.4	ND<2.5	170	280	--	16	
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	--	--	
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	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2008

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 (8015M) (µg/l)	TPH-G (GC/MS) (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														
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	--	--	
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	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2008

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 (8015M) (µg/l)	TPH-G (GC/MS) (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														
01/14/98	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	--	
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	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2008

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 (8015M) (µg/l)	TPH-G (GC/MS) (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														
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	
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	
06/23/05	79.67	8.33	0.00	71.34	0.00	--	230	0.52	ND<0.50	3.6	9.6	--	200	
09/28/05	79.67	9.56	0.00	70.11	-1.23	--	500	ND<0.50	ND<0.50	ND<0.50	1.2	--	980	
12/20/05	79.67	7.82	0.00	71.85	1.74	--	640	0.79	ND<0.50	0.68	2.3	--	2400	
03/10/06	79.67	6.83	0.00	72.84	0.99	--	970	1.2	ND<0.50	1.3	5.0	--	3600	
06/23/06	79.67	8.13	0.00	71.54	-1.30	--	1700	ND<12	ND<12	ND<12	ND<25	--	1100	
09/27/06	79.67	9.44	0.00	70.23	-1.31	--	ND<1200	ND<12	ND<12	ND<12	ND<12	--	620	
12/22/06	79.67	8.60	0.00	71.07	0.84	--	9100	ND<10	ND<10	ND<10	ND<10	--	600	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2008

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 (8015M) (µg/l)	TPH-G (GC/MS) (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														
03/23/07	79.67	8.39	0.00	71.28	0.21	--	330	ND<0.50	ND<0.50	0.82	ND<0.50	--	680	
06/29/07	79.67	9.02	0.00	70.65	-0.63	--	180	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	290	
09/28/07	79.67	9.65	0.00	70.02	-0.63	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/17/07	79.67	9.62	0.00	70.05	0.03	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	21	
03/25/08	79.67	8.63	0.00	71.04	0.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	12	
06/12/08	79.67	9.47	0.00	70.20	-0.84	--	84	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	17	
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	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2008

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 (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-7 continued														
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	
06/23/05	80.67	8.56	0.00	72.11	-0.64	--	8700	ND<25	ND<25	ND<25	ND<50	--	12000	
09/28/05	80.67	9.37	0.00	71.30	-0.81	--	1200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5700	
12/20/05	80.67	6.31	0.00	74.36	3.06	--	1100	0.90	ND<0.50	24	37	--	8200	
03/10/06	80.67	5.84	0.00	74.83	0.47	--	1200	24	ND<0.50	3.6	ND<1.0	--	4700	
06/23/06	80.67	6.83	0.00	73.84	-0.99	--	1800	21	ND<12	ND<12	ND<25	--	1500	
09/27/06	80.67	8.95	0.00	71.72	-2.12	--	ND<1200	ND<12	ND<12	ND<12	ND<12	--	350	
12/22/06	80.67	8.35	0.00	72.32	0.60	--	24000	ND<50	ND<50	ND<50	ND<50	--	190	
03/23/07	80.67	8.01	0.00	72.66	0.34	--	85	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	92	
06/29/07	80.67	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
09/28/07	80.67	9.05	0.00	71.62	--	--	50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	37	
12/19/07	80.67	9.23	0.00	71.44	-0.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.2	
03/25/08	80.67	8.45	0.00	72.22	0.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.3	
06/12/08	80.67	8.92	0.00	71.75	-0.47	--	52	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	9.4	
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	
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	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2008

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 (8015M) (µg/l)	TPH-G (GC/MS) (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														
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	
06/23/05	81.71	8.34	0.00	73.37	0.15	--	490	ND<0.50	ND<0.50	1.5	ND<1.0	--	980	
09/28/05	81.71	9.61	0.00	72.10	-1.27	--	270	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	520	
12/20/05	81.71	7.35	0.00	74.36	2.26	--	2700	ND<0.50	ND<0.50	78	82	--	86	
03/10/06	81.71	6.63	0.00	75.08	0.72	--	190	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	51	
06/23/06	81.71	6.56	0.00	75.15	0.07	--	3600	ND<0.50	ND<0.50	100	57	--	ND<0.50	
09/27/06	81.71	9.64	0.00	72.07	-3.08	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	18	
12/22/06	81.71	9.42	0.00	72.29	0.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	0.50	--	16	
03/23/07	81.71	8.68	0.00	73.03	0.74	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	12	
06/29/07	81.71	9.10	0.00	72.61	-0.42	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	17	
09/28/07	81.71	9.89	0.00	71.82	-0.79	--	99	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	21	
12/17/07	81.71	9.81	0.00	71.90	0.08	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	16	
03/25/08	81.71	8.40	0.00	73.31	1.41	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	14	
06/12/08	81.71	9.53	0.00	72.18	-1.13	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	14	
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	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2008

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 (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-9 continued														
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	
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	
06/23/05	82.07	14.40	0.00	67.67	0.56	--	1500	ND<5.0	ND<5.0	ND<5.0	ND<10	--	2000	
09/28/05	82.07	15.67	0.00	66.40	-1.27	--	ND<2500	ND<25	ND<25	ND<25	ND<50	--	2400	
12/20/05	82.07	14.61	0.00	67.46	1.06	--	560	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2800	
03/10/06	82.07	13.39	0.00	68.68	1.22	--	1100	ND<5.0	ND<5.0	ND<5.0	ND<10	--	2100	
06/23/06	82.07	13.68	0.00	68.39	-0.29	--	1700	ND<12	ND<12	ND<12	ND<25	--	1700	
09/27/06	82.07	14.83	0.00	67.24	-1.15	--	ND<1200	ND<12	ND<12	ND<12	ND<12	--	1400	
12/22/06	82.07	14.75	0.00	67.32	0.08	--	680	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1100	
03/23/07	82.07	14.52	0.00	67.55	0.23	--	240	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	660	
06/29/07	82.07	14.89	0.00	67.18	-0.37	--	210	ND<0.50	ND<0.50	ND<0.50	0.52	--	410	
09/28/07	82.07	15.48	0.00	66.59	-0.59	--	390	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	430	
12/17/07	82.07	15.72	0.00	66.35	-0.24	--	190	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	480	
03/25/08	82.07	14.91	0.00	67.16	0.81	--	250	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	340	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2008

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 (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-9 continued														
06/12/08	82.07	15.70	0.00	66.37	-0.79	--	180	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	270	
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	
06/23/05	74.98	6.46	0.00	68.52	-0.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/28/05	74.98	7.52	0.00	67.46	-1.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/20/05	74.98	6.04	0.00	68.94	1.48	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.57	
03/10/06	74.98	5.86	0.00	69.12	0.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/23/06	74.98	6.42	0.00	68.56	-0.56	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.50	
09/27/06	74.98	6.92	0.00	68.06	-0.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	48	
12/22/06	74.98	5.90	0.00	69.08	1.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	8.5	
03/23/07	74.98	6.48	0.00	68.50	-0.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.54	
06/29/07	74.98	6.78	0.00	68.20	-0.30	--	ND<50	ND<0.50	ND<0.50	0.76	1.6	--	5.6	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2008

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 (8015M) (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-10 continued														
09/28/07	74.98	7.24	0.00	67.74	-0.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	15	
12/17/07	74.98	6.92	0.00	68.06	0.32	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.6	
03/25/08	74.98	6.74	0.00	68.24	0.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.3	
06/12/08	74.98	7.11	0.00	67.87	-0.37	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.6	
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	
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	
06/23/05	77.31	12.37	0.00	64.94	5.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/28/05	77.31	16.78	0.00	60.53	-4.41	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/20/05	77.31	17.06	0.00	60.25	-0.28	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/10/06	77.31	16.20	0.00	61.11	0.86	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/23/06	77.31	12.65	0.00	64.66	3.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/27/06	77.31	14.78	0.00	62.53	-2.13	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

November 1992 Through June 2008

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 (8015M) (µg/l)	TPH-G (GC/MS) (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**													
12/22/06	77.31	13.48	0.00	63.83	1.30	--	55	ND<0.50	ND<0.50	2.1	5.4	--	ND<0.50	
03/23/07	77.31	13.78	0.00	63.53	-0.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
06/29/07	77.31	15.58	0.00	61.73	-1.80	--	ND<50	ND<0.50	ND<0.50	ND<0.50	0.62	--	ND<0.50	
09/28/07	77.31	16.02	0.00	61.29	-0.44	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/17/07	77.31	15.75	0.00	61.56	0.27	--	ND<50	ND<0.50	ND<0.50	ND<0.50	1.0	--	ND<0.50	
03/25/08	77.31	15.74	0.00	61.57	0.01	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/12/08	77.31	13.87	0.00	63.44	1.87	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	pH (lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(pH)	(mg/l)	(mg/l)	(mV)	(mV)
MW-1													
06/18/99	--	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--
07/16/01	--	ND	ND	ND	--	ND	ND	ND	--	--	--	--	--
01/14/03	--	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
07/16/03	--	--	ND<10000	--	--	--	--	--	--	--	--	--	--
10/02/03	--	--	ND<25000	--	--	--	--	--	--	25.1	45.7	80.1	21.0
01/07/04	--	--	ND<20000	--	--	--	--	--	--	12.12	12.31	142	24
04/02/04	--	--	ND<50	--	--	--	--	--	--	11.33	13.42	36	34
07/29/04	--	--	ND<2000	--	--	--	--	--	--	5.37	5.51	-2	-4
11/24/04	--	--	ND<2000	--	--	--	--	--	6.58	3.08	4.73	-43	-39
01/24/05	--	--	ND<2000	--	--	--	--	--	--	14.3	17.0	100	96
06/23/05	--	--	ND<50000	--	--	--	--	--	--	--	4.79	-103	--
09/28/05	--	--	ND<1000	--	--	--	--	--	--	3.45	4.73	-91	-94
12/20/05	--	--	ND<250	--	--	--	--	--	--	4.16	2.76	-210	-328
03/10/06	--	--	ND<2500	--	--	--	--	--	--	1.45	1.64	-511	-615
06/23/06	--	--	ND<2500	--	--	--	--	--	--	--	4.31	-030	--
09/27/06	--	--	ND<5000	--	--	--	--	--	--	4.50	4.72	-32	-25
12/22/06	--	--	ND<2500	--	--	--	--	--	--	6.80	2.35	-121	-72
03/23/07	--	--	ND<1200	--	--	--	--	--	--	3.22	3.45	-135	-141
06/29/07	--	--	ND<1200	--	--	--	--	--	--	6.64	7.11	-131	-65
09/28/07	--	--	ND<250	--	--	--	--	--	--	--	7.84	-167	--
12/17/07	--	--	ND<2500	--	--	--	--	--	--	9.74	6.51	-63	-46
03/25/08	--	--	ND<1200	--	--	--	--	--	--	6.70	6.50	-60	-64
06/12/08	--	330	ND<1200	--	--	--	--	--	--	--	4.33	65	--
MW-4													
04/18/96	110	--	--	--	--	--	--	--	--	--	--	--	--
07/24/96	ND	--	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	pH (lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(pH)	(mg/l)	(mg/l)	(mV)	(mV)
MW-4 continued													
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<1000	ND<5000	ND<100	ND<100	ND<200	ND<100	ND<100	--	--	--	--	--
01/14/03	--	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
07/16/03	--	--	ND<500	--	--	--	--	--	--	--	--	--	--
10/02/03	--	--	ND<1000	--	--	--	--	--	--	15.5	26.2	139	175
01/07/04	--	--	ND<1000	--	--	--	--	--	--	12.63	14.29	-12	24
04/02/04	--	--	ND<2000	--	--	--	--	--	--	12.63	12.72	9	23
07/29/04	--	--	ND<100	--	--	--	--	--	--	4.74	4.79	-19	-8
11/24/04	--	--	ND<50	--	--	--	--	--	6.99	2.81	5.54	-29	-12
01/24/05	--	--	ND<50	--	--	--	--	--	--	14.5	15.3	72	70
06/23/05	--	--	ND<1000	--	--	--	--	--	--	1.86	1.73	70	71
09/28/05	--	--	ND<1000	--	--	--	--	--	--	2.63	2.57	-74	-80
12/20/05	--	--	ND<250	--	--	--	--	--	--	1.52	2.30	-280	-217
03/10/06	--	--	ND<250	--	--	--	--	--	--	5.25	0.80	173	224
06/23/06	--	--	ND<6200	--	--	--	--	--	--	--	3.39	-105	--
09/27/06	--	--	ND<6200	--	--	--	--	--	--	2.54	3.01	-109	-104
12/22/06	--	--	ND<5000	--	--	--	--	--	--	1.22	4.03	-46	-67
03/23/07	--	--	ND<250	--	--	--	--	--	--	3.64	3.62	-101	-92
06/29/07	--	--	ND<250	--	--	--	--	--	--	8.49	6.78	171	84

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	pH (lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(pH)	(mg/l)	(mg/l)	(mV)	(mV)
MW-6 continued													
09/28/07	--	--	ND<250	--	--	--	--	--	--	8.36	8.40	167	154
12/17/07	--	--	ND<250	--	--	--	--	--	--	10.19	9.38	-23	-14
03/25/08	--	--	ND<250	--	--	--	--	--	--	10.03	10.10	-20	-18
06/12/08	--	ND<10	ND<250	--	--	--	--	--	--	--	0.80	30	--
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<50000	ND<250000	ND<1000	ND<1000	ND<1000	ND<1000	ND<1000	--	--	--	--	--
07/16/03	--	--	ND<250000	--	--	--	--	--	--	--	--	--	--
10/02/03	--	--	ND<100000	--	--	--	--	--	--	24.3	28.2	109	153
01/07/04	--	--	ND<200000	--	--	--	--	--	--	10.79	10.85	23	5
04/02/04	--	--	ND<2000	--	--	--	--	--	--	12.41	11.32	24	10
07/29/04	--	--	ND<5000	--	--	--	--	--	--	4.10	3.96	17	18
11/24/04	--	--	ND<5000	--	--	--	--	--	6.60	1.99	3.29	-43	-24
01/24/05	--	--	ND<5000	--	--	--	--	--	--	17.2	14.5	71	48
06/23/05	--	--	ND<50000	--	--	--	--	--	--	2.84	2.18	-37	-32
09/28/05	--	--	ND<1000	--	--	--	--	--	--	3.45	3.63	-81	-85
12/20/05	--	--	ND<250	--	--	--	--	--	--	2.04	2.03	-263	-256
03/10/06	--	--	ND<250	--	--	--	--	--	--	1.28	0.95	164	-179
06/23/06	--	--	ND<6200	--	--	--	--	--	--	--	3.95	-119	--
09/27/06	--	--	ND<6200	--	--	--	--	--	--	3.16	3.98	-107	-95
12/22/06	--	--	ND<25000	--	--	--	--	--	--	2.25	2.03	-86	-101
03/23/07	--	--	ND<250	--	--	--	--	--	--	3.38	3.75	-49	-47
09/28/07	--	--	ND<250	--	--	--	--	--	--	8.16	7.96	30	26
12/19/07	--	--	ND<250	--	--	--	--	--	--	6.70	6.72	-17	-13
03/25/08	--	--	ND<250	--	--	--	--	--	--	4.77	4.81	-30	-34

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	pH (lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(pH)	(mg/l)	(mg/l)	(mV)	(mV)
MW-7 continued													
06/12/08	--	30	ND<250	--	--	--	--	--	--	--	3.96	55	--
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<500	ND<2500	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	--	--
07/16/03	--	--	ND<500	--	--	--	--	--	--	--	--	--	--
10/02/03	--	--	ND<500	--	--	--	--	--	--	23.6	28.5	188	197
01/07/04	--	--	ND<50000	--	--	--	--	--	--	9.94	13.13	-15	21
04/02/04	--	--	ND<2000	--	--	--	--	--	--	13.37	12.82	-10	16
07/29/04	--	--	ND<2500	--	--	--	--	--	--	3.68	3.73	18	30
11/24/04	--	--	ND<1000	--	--	--	--	--	6.67	3.97	2.71	-36	-20
01/24/05	--	--	ND<2500	--	--	--	--	--	--	41.6	41.2	56	60
06/23/05	--	--	ND<1000	--	--	--	--	--	--	2.05	2.13	58	56
09/28/05	--	--	ND<1000	--	--	--	--	--	--	2.12	1.98	-40	-26
12/20/05	--	--	ND<250	--	--	--	--	--	--	2.02	3.72	-402	-326
03/10/06	--	--	ND<250	--	--	--	--	--	--	1.51	0.99	-182	-181
06/23/06	--	--	ND<250	--	--	--	--	--	--	--	2.81	-135	--
09/27/06	--	--	ND<250	--	--	--	--	--	--	4.87	4.91	-155	-139
12/22/06	--	--	ND<250	--	--	--	--	--	--	1.80	2.40	16	12
03/23/07	--	--	ND<250	--	--	--	--	--	--	3.52	3.90	25	22
06/29/07	--	--	ND<250	--	--	--	--	--	--	5.35	5.29	98	92
09/28/07	--	--	ND<250	--	--	--	--	--	--	7.18	7.24	16	22
12/17/07	--	--	ND<250	--	--	--	--	--	--	6.95	5.26	26	24
03/25/08	--	--	ND<250	--	--	--	--	--	--	5.22	5.15	70	77
06/12/08	--	ND<10	ND<250	--	--	--	--	--	--	--	9.40	38	--
MW-9													

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	pH (lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(pH)	(mg/l)	(mg/l)	(mV)	(mV)
MW-9 continued													
01/31/02	--	ND<140	ND<3600	ND<7.1	ND<7.1	ND<7.1	ND<7.1	ND<7.1	--	--	--	--	--
01/14/03	--	ND<400	ND<2000	ND<8.0	ND<8.0	ND<8.0	ND<8.0	ND<8.0	--	--	--	--	--
07/16/03	--	--	ND<25000	--	--	--	--	--	--	--	--	--	--
10/02/03	--	--	ND<5000	--	--	--	--	--	--	29.5	28.4	201	203
01/07/04	--	--	ND<10000	--	--	--	--	--	--	10.45	12.00	9	27
04/02/04	--	--	ND<500	--	--	--	--	--	--	16.37	13.21	12	32
07/29/04	--	--	ND<1000	--	--	--	--	--	--	--	--	--	--
11/24/04	--	--	ND<500	--	--	--	--	--	6.47	3.24	1.71	-68	-67
01/24/05	--	--	ND<1000	--	--	--	--	--	--	26.0	22.5	-45	-45
06/23/05	--	--	ND<10000	--	--	--	--	--	--	1.50	1.44	-136	-144
09/28/05	--	--	ND<50000	--	--	--	--	--	--	2.51	1.67	-94	-119
12/20/05	--	--	ND<250	--	--	--	--	--	--	5.05	4.67	-102	-42
03/10/06	--	--	ND<2500	--	--	--	--	--	--	2.82	2.13	160	161
06/23/06	--	--	ND<6200	--	--	--	--	--	--	--	0.84	-65	--
09/27/06	--	--	ND<6200	--	--	--	--	--	--	0.68	0.75	-61	-43
12/22/06	--	--	ND<250	--	--	--	--	--	--	9.00	4.89	-44	-70
03/23/07	--	--	ND<250	--	--	--	--	--	--	6.85	5.33	-114	-82
06/29/07	--	--	ND<250	--	--	--	--	--	--	6.87	6.25	23	22
09/28/07	--	--	ND<1200	--	--	--	--	--	--	7.17	7.04	30	30
12/17/07	--	--	ND<250	--	--	--	--	--	--	5.05	4.81	-27	-35
03/25/08	--	--	ND<1200	--	--	--	--	--	--	6.55	6.67	-10	-14
06/12/08	--	250	ND<250	--	--	--	--	--	--	--	2.55	86	--
MW-10													
01/31/02	--	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	--
01/14/03	--	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
07/16/03	--	--	ND<500	--	--	--	--	--	--	--	--	--	--

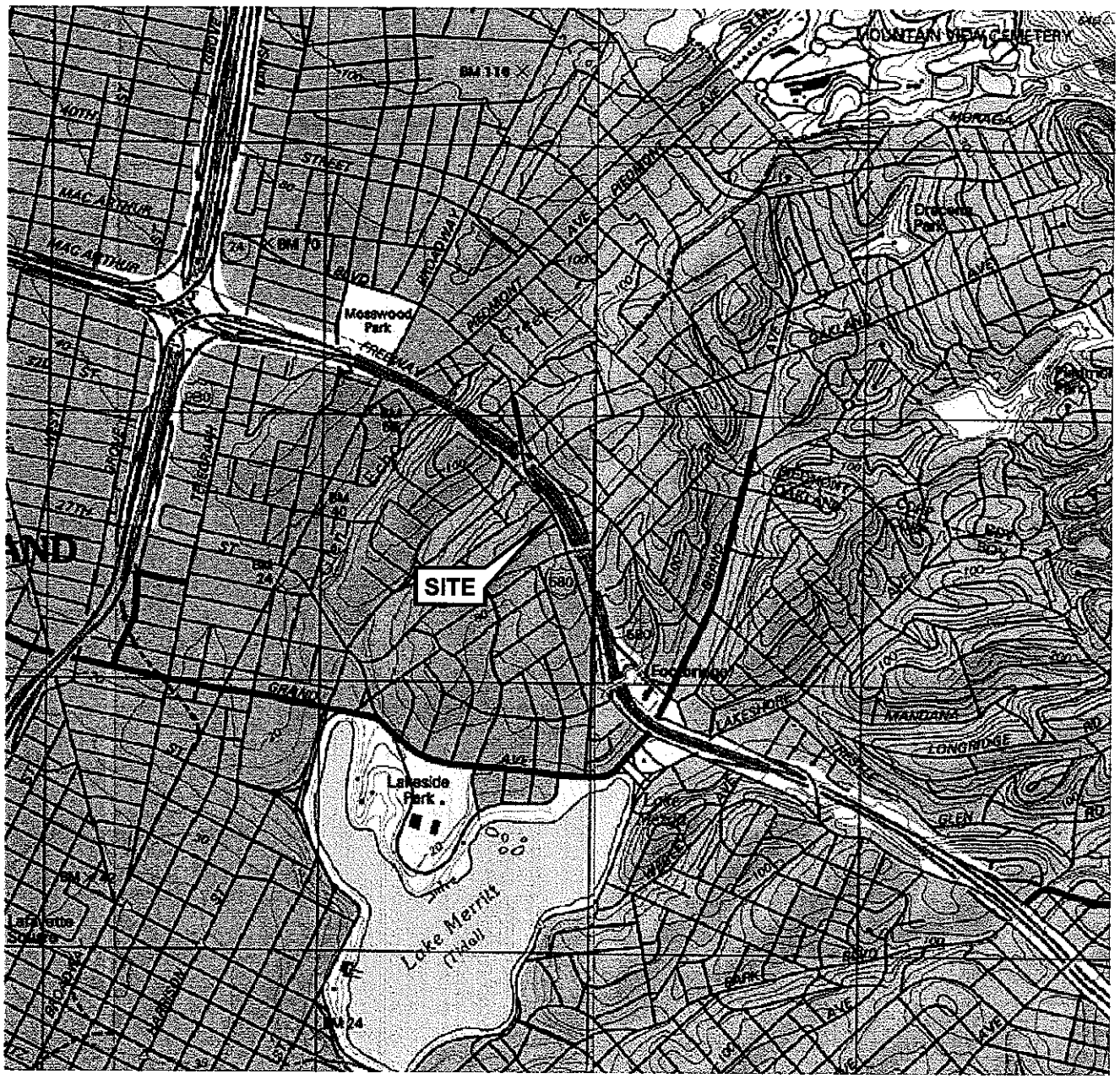
Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	pH (lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(pH)	(mg/l)	(mg/l)	(mV)	(mV)
MW-10 continued													
10/02/03	--	--	ND<500	--	--	--	--	--	--	24.8	25.7	192	213
01/07/04	--	--	ND<500	--	--	--	--	--	--	10.04	11.62	35	59
04/02/04	--	--	ND<50	--	--	--	--	--	--	11.91	12.02	42	45
07/29/04	--	--	ND<50	--	--	--	--	--	--	4.81	4.83	83	102
11/24/04	--	--	ND<50	--	--	--	--	--	6.89	2.59	3.07	-39	-29
01/24/05	--	--	ND<50	--	--	--	--	--	--	27.5	25.5	87	84
06/23/05	--	--	ND<1000	--	--	--	--	--	--	7.83	176	40	44
09/28/05	--	--	ND<1000	--	--	--	--	--	--	6.95	2.37	-66	-64
12/20/05	--	--	ND<250	--	--	--	--	--	--	3.85	3.45	59	58
03/10/06	--	--	ND<250	--	--	--	--	--	--	2.52	4.48	87	83
06/23/06	--	--	ND<250	--	--	--	--	--	--	--	1.49	-68	--
09/27/06	--	--	ND<250	--	--	--	--	--	--	1.79	1.55	-85	-65
12/22/06	--	--	ND<250	--	--	--	--	--	--	3.20	3.00	107	85
03/23/07	--	--	ND<250	--	--	--	--	--	--	5.09	5.01	-60	--
06/29/07	--	--	ND<250	--	--	--	--	--	--	9.12	6.27	165	172
09/28/07	--	--	ND<250	--	--	--	--	--	--	8.34	8.21	124	126
12/17/07	--	--	ND<250	--	--	--	--	--	--	4.97	4.46	-15	-2
03/25/08	--	--	ND<250	--	--	--	--	--	--	4.35	4.40	-10	-12
06/12/08	--	ND<10	ND<250	--	--	--	--	--	--	--	1.42	75	--
MW-11													
01/31/02	--	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	--
01/14/03	--	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	--
07/16/03	--	--	ND<500	--	--	--	--	--	--	--	--	--	--
10/02/03	--	--	ND<500	--	--	--	--	--	--	33.7	23.2	202	255
01/07/04	--	--	ND<500	--	--	--	--	--	--	11.69	13.82	99	103
04/02/04	--	--	ND<50	--	--	--	--	--	--	11.94	14.08	-1	108

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 1871

Date Sampled	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	pH (lab)	Post-purge Dissolved Oxygen	Pre-purge Dissolved Oxygen	Pre-purge ORP	Post-purge ORP
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(pH)	(mg/l)	(mg/l)	(mV)	(mV)
MW-11	**continued**												
07/29/04	--	--	ND<50	--	--	--	--	--	--	--	--	--	--
11/24/04	--	--	ND<50	--	--	--	--	--	6.75	3.85	4.32	82	143
01/24/05	--	--	ND<50	--	--	--	--	--	--	30.01	32.6	79	83
06/23/05	--	--	ND<1000	--	--	--	--	--	--	2.17	2.16	76	82
09/28/05	--	--	ND<1000	--	--	--	--	--	--	4.97	4.59	-4	-1
12/20/05	--	--	ND<250	--	--	--	--	--	--	5.16	4.77	35	070
03/10/06	--	--	ND<250	--	--	--	--	--	--	5.11	9.99	68	97
06/23/06	--	--	ND<250	--	--	--	--	--	--	--	7.74	-26	--
09/27/06	--	--	ND<250	--	--	--	--	--	--	5.72	5.98	32	40
12/22/06	--	--	ND<250	--	--	--	--	--	--	3.81	4.35	46	44
03/23/07	--	--	ND<250	--	--	--	--	--	--	5.47	5.85	38	34
06/29/07	--	--	ND<250	--	--	--	--	--	--	7.87	7.80	242	223
09/28/07	--	--	ND<250	--	--	--	--	--	--	7.24	7.30	280	244
12/17/07	--	--	ND<250	--	--	--	--	--	--	8.71	8.01	47	46
03/25/08	--	--	ND<250	--	--	--	--	--	--	8.41	8.40	45	44
06/12/08	--	ND<10	ND<250	--	--	--	--	--	--	--	3.33	160	--

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 Quadrangle

TRC

PROJECT: 154771

FACILITY:

76 STATION 1871
96 MacARTHUR BOULEVARD
OAKLAND, CALIFORNIA

VICINITY MAP

FIGURE 1

PS=1:1 L:\DQMS VICINITY MAP S\1871vm.dwg Nov 15, 2007 - 11:15am cvuong

LEGEND

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

SP-H ⊕ Ozone Sparge Well

72.00 — Groundwater Elevation Contour

General Direction of Groundwater Flow

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

FORMER WASTE OIL TANK

FORMER PROPERTY BOUNDARY

FORMER STATION BUILDING

UST

UST

98 MACARTHUR BLVD. (FORMERLY 88 MACARTHUR)

CANOPY

DISPENSER ISLANDS

FORMER UNDERGROUND STORAGE TANKS

FORMER DISPENSER ISLAND

CONCRETE ISLAND

CONC. BRIDGE COLUMS (TYP.)

CONC. DRAINAGE DITCH

OVERHEAD FREEWAY STRUCTURE

DIRT & LANDSCAPING

LANDSCAPING

MW-9 66.37

MW-10 67.87

MW-11 63.44

MW-8 72.18

MW-7 71.75

MW-6 70.20

MW-1 72.92

SP-H

SP-G

SP-DS

SP-F

SP-A

SP-E

SP-DD

SP-C

SP-BS

SP-BD

72.00

68.00

64.00

HARRISON STREET

N

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

SCALE (FEET)

0 40

TRC

PROJECT: 154771

FACILITY:
76 STATION 1871
96 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
June 12, 2008

FIGURE 2

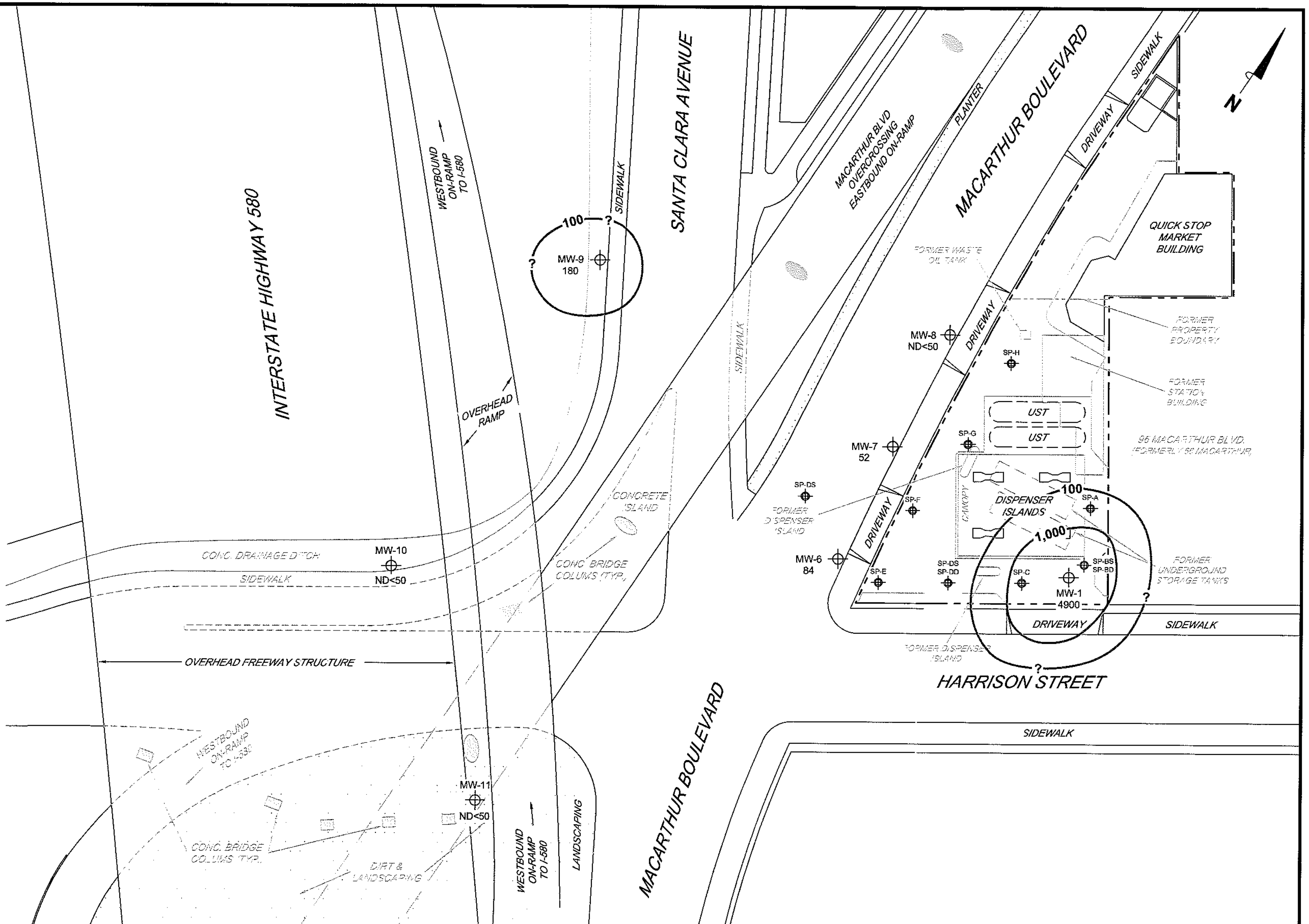
MS=1:40 1871-003 L:\Graphics\QMS NORTH-SOUTH\3x-1000\1871+\1871QMS(NEW).DWG Jul 03, 2008 - 12:18pm bschmidt

LEGEND

MW-11 Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration (µg/l)

SP-H Ozone Sparge Well

1,000 Dissolved-Phase TPH-G (GC/MS) Contour (µg/l)



INTERSTATE HIGHWAY 580
WESTBOUND ON-RAMP TO I-580
SANTA CLARA AVENUE
SIDEWALK
MACARTHUR BLVD OVERCROSSING EASTBOUND ON-RAMP
PLANTER
MACARTHUR BOULEVARD
DRIVEWAY
QUICK STOP MARKET BUILDING
MW-9 180
100
OVERHEAD RAMP
MW-8 ND<50
MW-7 52
MW-6 84
MW-1 4900
MW-10 ND<50
MW-11 ND<50
UST
DISPENSER ISLANDS
CANOPY
1,000
SP-H
SP-G
SP-DS
SP-F
SP-E
SP-DS SP-DD
SP-C
SP-A
SP-BS SP-BD
CONCRETE ISLAND
CONC. DRAINAGE DITCH
CONC. BRIDGE COLUMS (TYP.)
OVERHEAD FREEWAY STRUCTURE
HARRISON STREET
LANDSCAPING
DIRT & LANDSCAPING
96 MACARTHUR BLVD. (FORMERLY 98 MACARTHUR)
FORMER PROPERTY BOUNDARY
FORMER STATION BUILDING
FORMER WASTE OIL TANK
FORMER DISPENSER ISLAND
FORMER UNDERGROUND STORAGE TANKS
N

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.
TPH-G (GC/MS) = total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B.
µg/l = micrograms per liter ND = not detected at limit indicated on official laboratory report
UST = underground storage tank

SCALE (FEET) 0 40

TRC

PROJECT: 154771

FACILITY:
76 STATION 1871
96 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

DISSOLVED-PHASE TPH-G (GC/MS) CONCENTRATION MAP
June 12, 2008

FIGURE 3

L:\Graphics\QMS NORTH-SOUTH\x-1000\1871+\1871QMS(NEW).DWG Jul 03, 2008 - 11:14am bschmidt

MS=1:40 1871-003

LEGEND

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

SP-H ⊕ Ozone Sparge Well

—1.0— Dissolved-Phase Benzene Contour (µg/l)

INTERSTATE HIGHWAY 580

WESTBOUND ON-RAMP TO I-580

OVERHEAD RAMP

SIDEWALK

SANTA CLARA AVENUE

MACARTHUR BLVD OVERCROSSING EASTBOUND ON-RAMP

MACARTHUR BOULEVARD

PLANTER

DRIVEWAY

SIDEWALK

QUICK STOP MARKET BUILDING

FORMER WASTE OIL TANK

FORMER PROPERTY BOUNDARY

FORMER STATION BUILDING

96 MACARTHUR BLVD. (FORMERLY 98 MACARTHUR)

UST

UST

DISPENSER ISLANDS

CANOPY

CONCRETE ISLAND

FORMER DISPENSER ISLAND

MW-9 ND<0.50

MW-8 ND<0.50

MW-7 ND<0.50

MW-6 ND<0.50

MW-10 ND<0.50

MW-11 ND<0.50

MW-1 6.4

SP-H

SP-G

SP-DS

SP-F

SP-A

SP-E

SP-DD

SP-C

SP-BS

SP-BD

1.0

?

?

CONC. DRAINAGE DITCH

SIDEWALK

CONC. BRIDGE COLUMNS (TYP.)

OVERHEAD FREEWAY STRUCTURE

WESTBOUND ON-RAMP TO I-580

CONC. BRIDGE COLUMNS (TYP.)

DIRT & LANDSCAPING

WESTBOUND ON-RAMP TO I-580

LANDSCAPING

MACARTHUR BOULEVARD

SIDEWALK

DRIVEWAY

SIDEWALK

FORMER DISPENSER ISLAND

FORMER UNDERGROUND STORAGE TANKS

HARRISON STREET

N

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

SCALE (FEET)

0 40

TRC

PROJECT: 154771

FACILITY:
76 STATION 1871
96 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
June 12, 2008

FIGURE 4

MS=1:40 1871-003 L:\Graphics\QMS NORTH-SOUTH\x-1000\1871+\1871QMS(NEW).DWG Jul 03, 2008 - 11:16am bschmidt

LEGEND

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

SP-H ⊕ Ozone Sparge Well

100 Dissolved-Phase MTBE Contour (µg/l)

INTERSTATE HIGHWAY 580

WESTBOUND ON-RAMP TO I-580

OVERHEAD RAMP

SIDEWALK

SANTA CLARA AVENUE

MACARTHUR BLVD OVERCROSSING EASTBOUND ON-RAMP

MACARTHUR BOULEVARD

PLANTER

DRIVEWAY

SIDEWALK

QUICK STOP MARKET BUILDING

FORMER WASTE OIL TANK

FORMER PROPERTY BOUNDARY

FORMER STATION BUILDING

UST

UST

36 MACARTHUR BLVD. (FORMERLY 96 MACARTHUR)

10

100

?

MW-9
270

MW-8
14

SP-H

MW-7
9.4

SP-G

SP-DS

FORMER DISPENSER ISLAND

SP-F

DRIVEWAY

CANOPY

DISPENSER ISLANDS

SP-A

10

MW-6
17

SP-E

SP-DS
SP-DD

SP-C

SP-BS
SP-BD

MW-1
16

FORMER UNDERGROUND STORAGE TANKS

DRIVEWAY

SIDEWALK

FORMER DISPENSER ISLAND

HARRISON STREET

CONCRETE ISLAND

CONC. DRAINAGE DITCH

SIDEWALK

MW-10
26

CONC. BRIDGE COLUMNS (TYP.)

OVERHEAD FREEWAY STRUCTURE

WESTBOUND ON-RAMP TO I-580

MW-11
ND<0.50

CONC. BRIDGE COLUMNS (TYP.)

DIRT & LANDSCAPING

WESTBOUND ON-RAMP TO I-580

LANDSCAPING

MACARTHUR BOULEVARD

SIDEWALK

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.

SCALE (FEET)

0 40

TRC

PROJECT: 154771

FACILITY:
76 STATION 1871
96 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

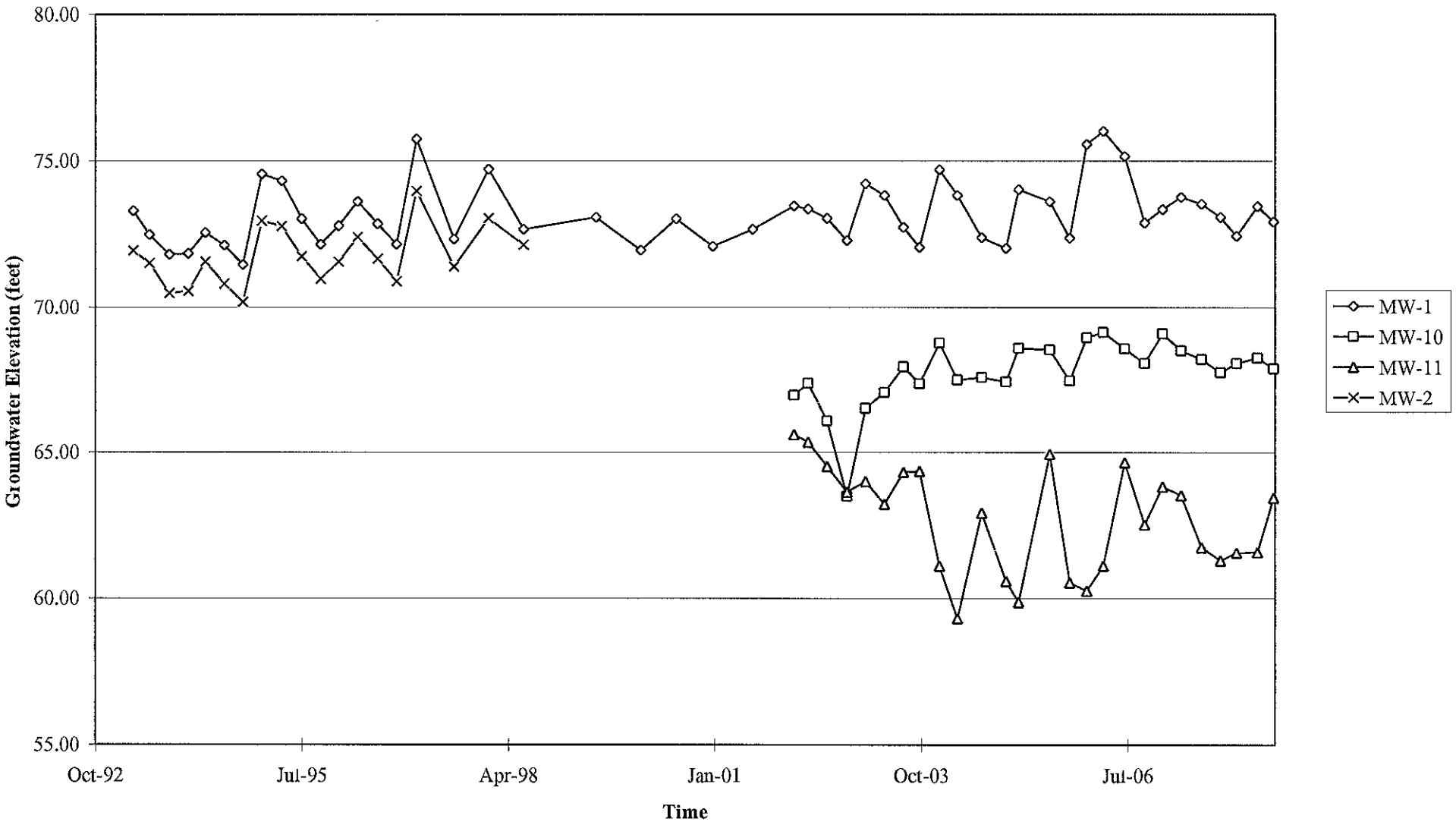
DISSOLVED-PHASE MTBE CONCENTRATION MAP
June 12, 2008

FIGURE 5

MS=1:40 1871-003 L:\Graphics\QMS NORTH-SOUTH\x-1000\1871+\1871QMS(NEW).DWG Jul 03, 2008 - 12:16pm bschmidt

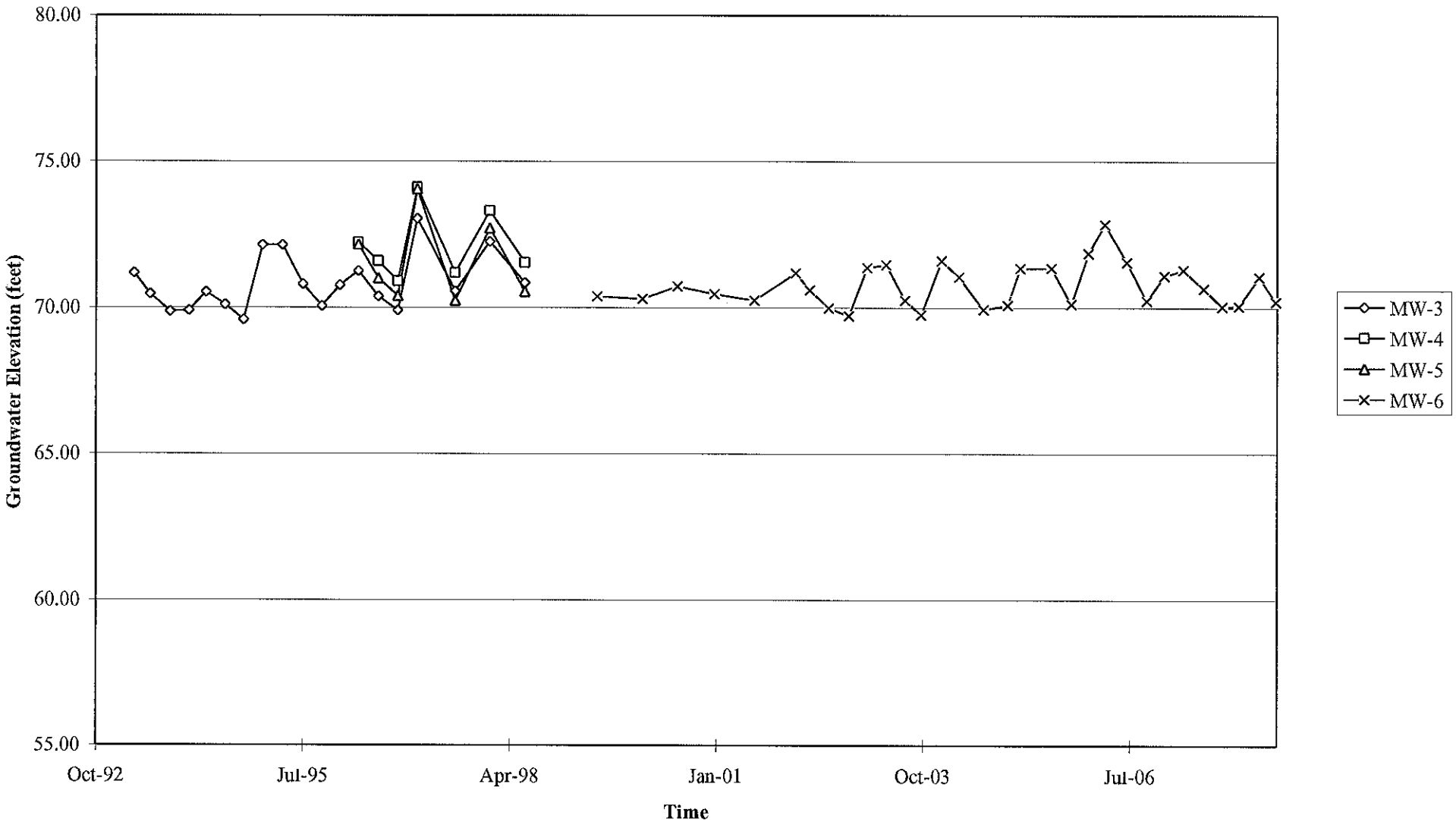
GRAPHS

Groundwater Elevations vs. Time
76 Station 1871



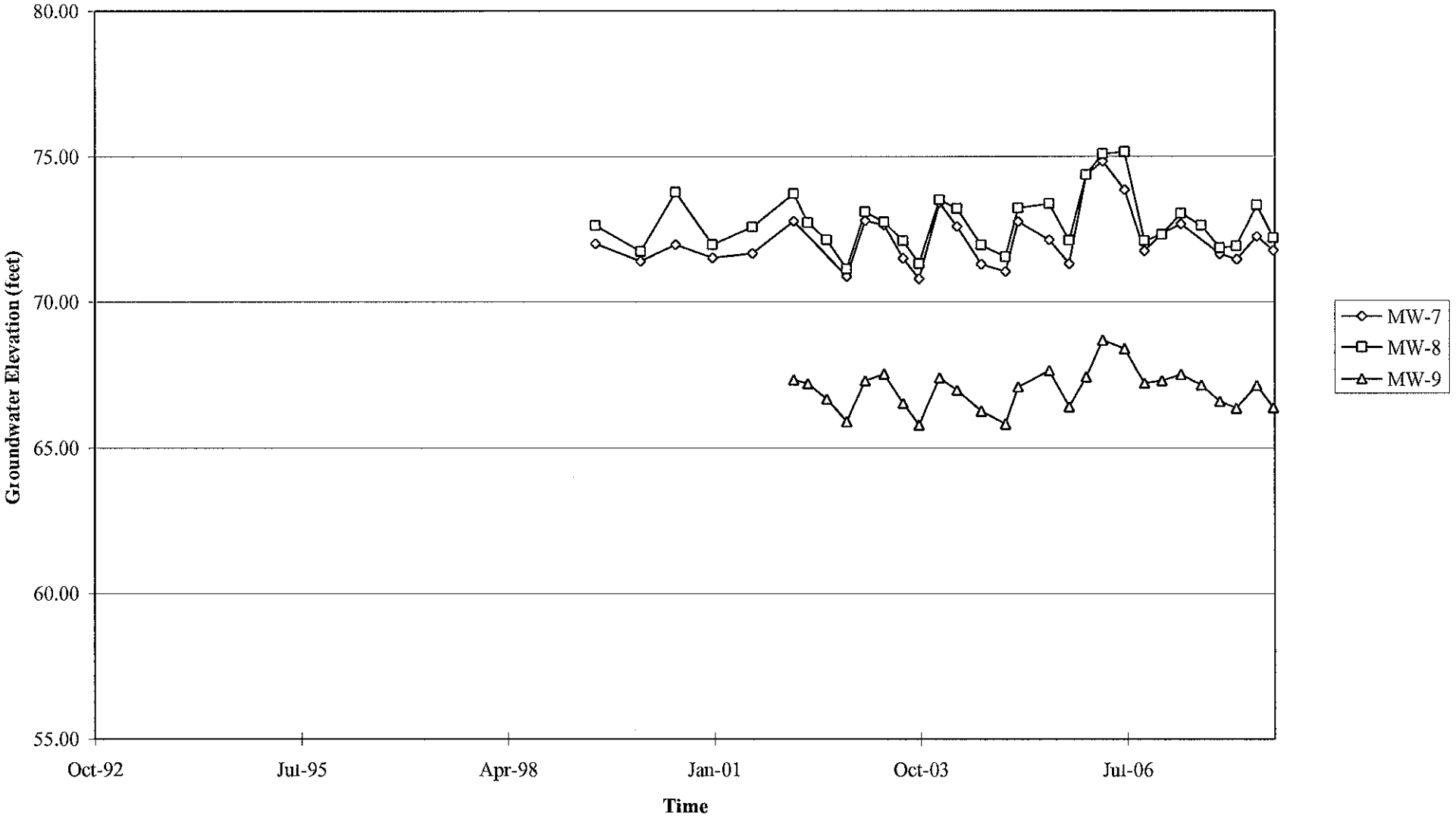
Elevations may have been corrected for apparent changes due to resurvey

Groundwater Elevations vs. Time
76 Station 1871



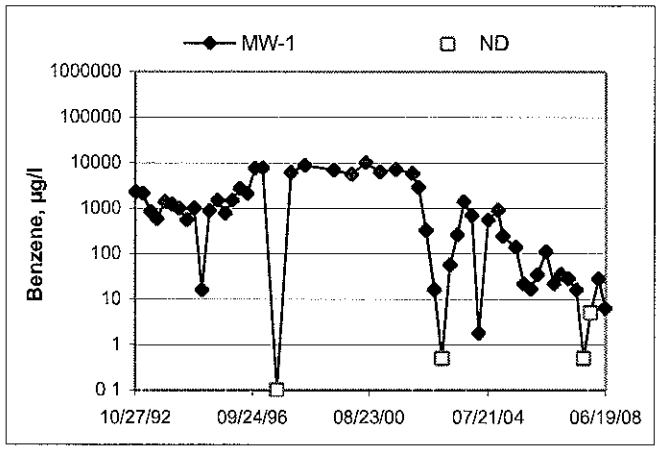
Elevations may have been corrected for apparent changes due to resurvey

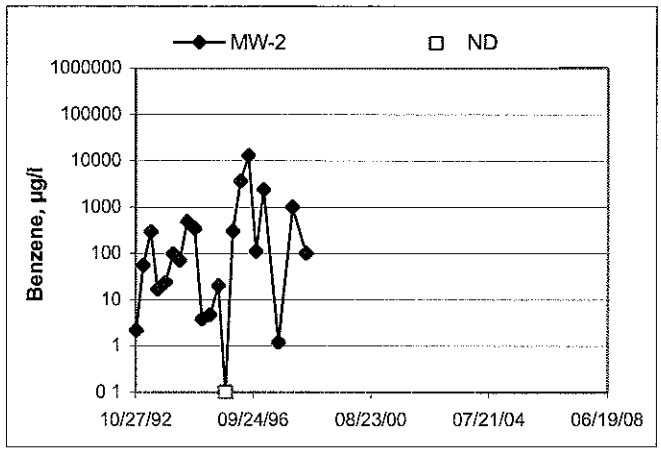
Groundwater Elevations vs. Time
76 Station 1871

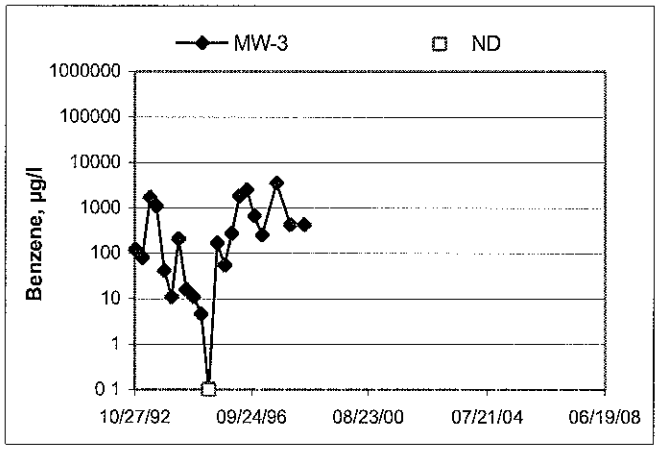


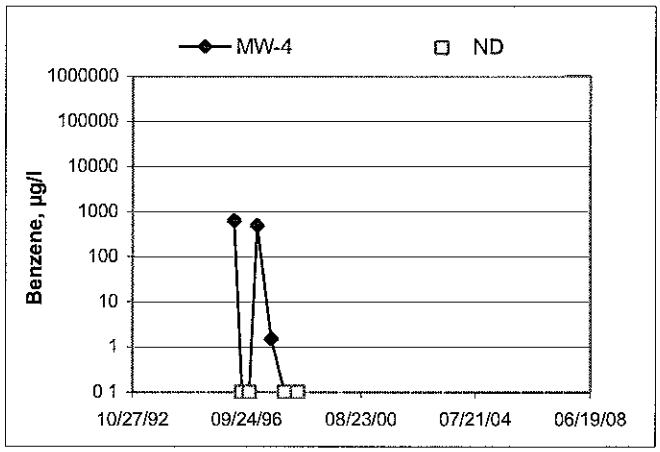
Elevations may have been corrected for apparent changes due to resurvey

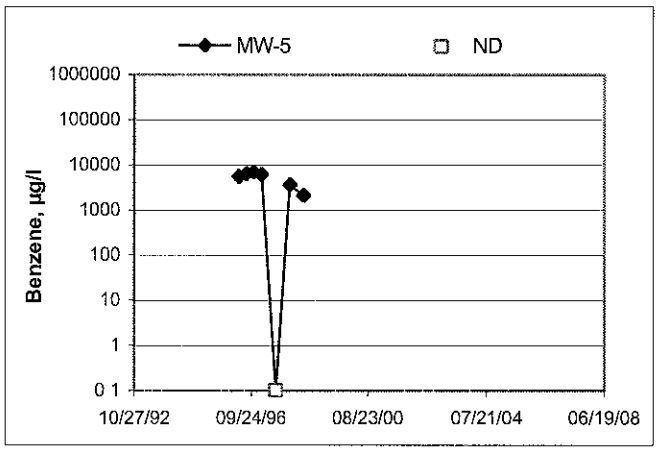
Benzene Concentrations vs Time
76 Station 1871

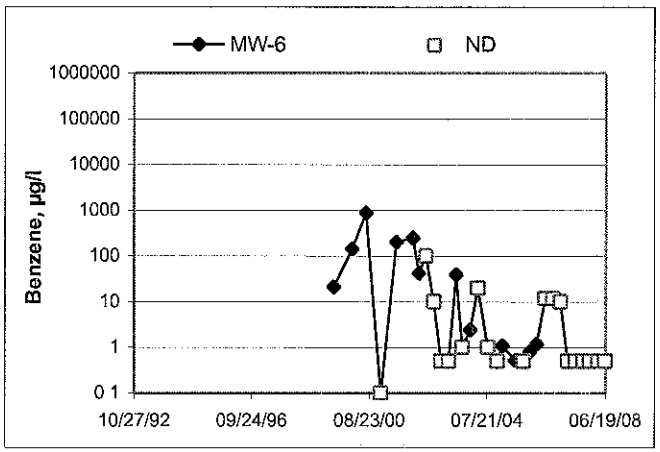


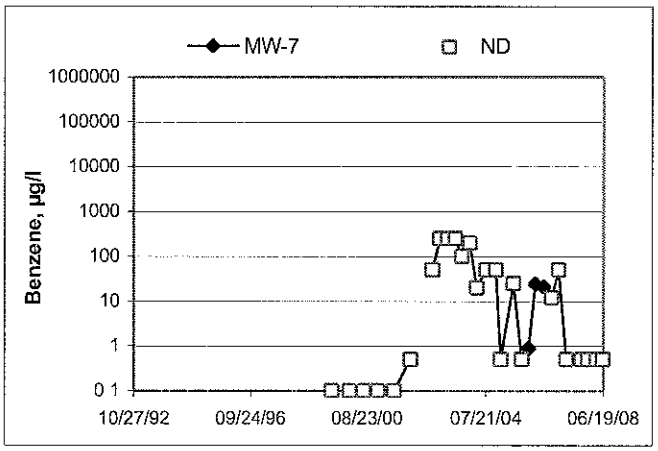


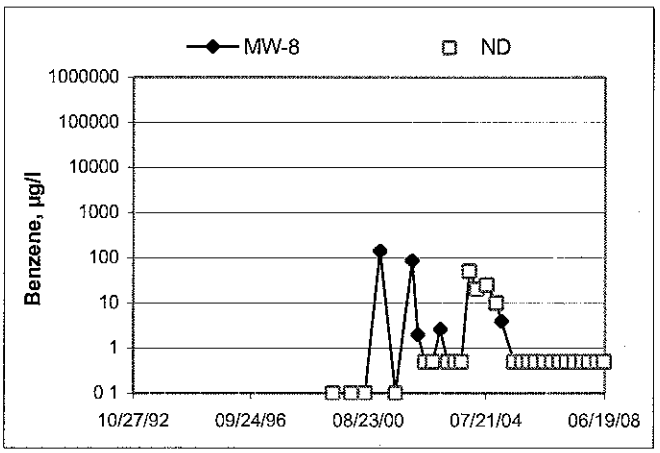




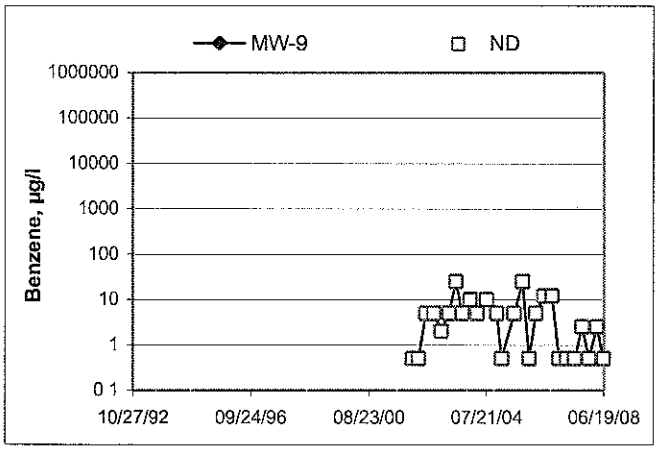


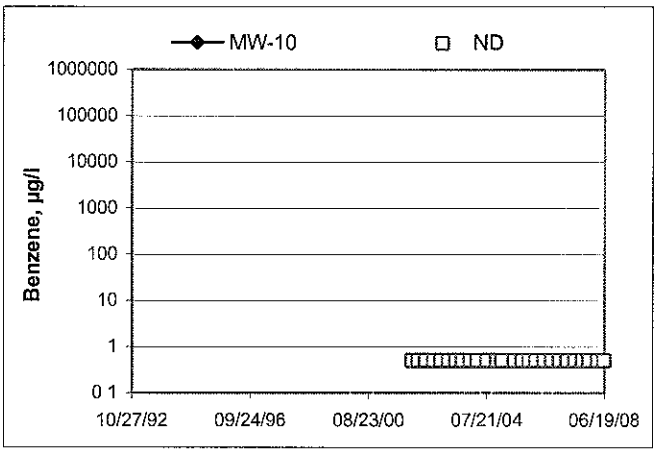


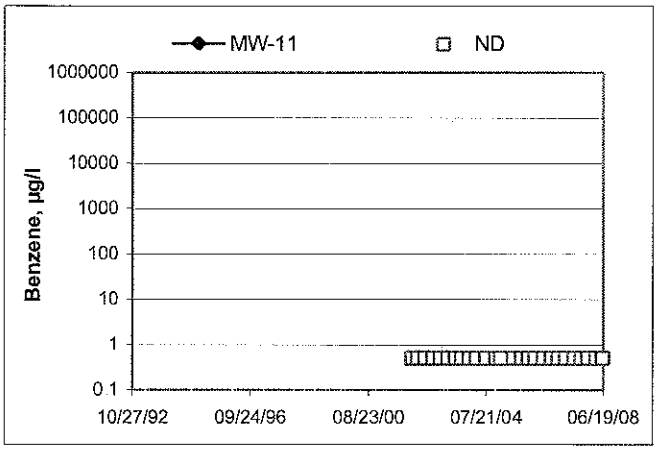




Benzene Concentrations vs Time
76 Station 1871







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 measurements 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, sample time, and the sampler's 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 is specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the 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 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 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: Andrew Vielers Job #/Task #: 154771 / FA20 Date: 06/12/08

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-11	✓	0531	30.00	13.87	—	—	0856	2"
MW-10	✓	0536	19.99	7.11	—	—	0914	2"
MW-7	✓	0545	24.29	8.92	—	—	0936	2"
MW-6	✓	0550	24.74	9.47	—	—	0944	2"
MW-8	✓	0555	24.28	9.53	—	—	0949	2"
MW-9	✓	0600	19.86	15.70	—	—	0904	2"
MW-1	✓	0605	23.90	14.07	—	—	1030	4"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Andrew V.

Site: 1871 Project No.: 154771 Date: 06/12/08

Well No. MW-11 Purge Method: Sub

Depth to Water (feet): 13.87 Depth to Product (feet): —

Total Depth (feet) 30.00 LPH & Water Recovered (gallons): —

Water Column (feet): 16.13 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 17.10 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F , C)	pH	D O (mg/L)	ORP	Turbidity
0649			3	2909	16.9	6.38	3.33	160	
	0654		6	2891	16.7	6.60	5.20	96	
	~~0.1v~~		9						

Static at Time Sampled	Total Gallons Purged	Sample Time
17.82	6	0856

Comments: Well went dry at 6 gallons. Did not recover in 2 hours

Well No. MW-10 Purge Method: Sub

Depth to Water (feet): 7.11 Depth to Product (feet): —

Total Depth (feet) 19.99 LPH & Water Recovered (gallons): —

Water Column (feet): 12.88 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 9.69 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F , C)	pH	D O (mg/L)	ORP	Turbidity
0708			2	869.0	16.9	7.64	1.42	75	
			4	629.1	16.3	7.45	4.85	80	
	0713		6	648.7	16.3	7.36	2.11	82	

Static at Time Sampled	Total Gallons Purged	Sample Time
14.36	6	0914

Comments: Did not recover in 2 hours

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Andrew Vickers

Site: 1871 Project No: 154771 Date: 06/12/08

Well No. MW-7 Purge Method: Sub

Depth to Water (feet): 8.92 Depth to Product (feet): —

Total Depth (feet) 24.29 LPH & Water Recovered (gallons): —

Water Column (feet): 15.37 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 11.99 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F , C)	pH	D.O (mg/L)	ORP	Turbidity
0738			2	626.7	17.6	6.88	3.96	55	
			4	628.2	18.3	6.80	4.84	32	
	0743		6	617.8	18.7	6.77	1.67	26	

Static at Time Sampled	Total Gallons Purged	Sample Time
9.61	6	0936

Comments:

Well No. MW-6 Purge Method: Sub

Depth to Water (feet): 9.47 Depth to Product (feet): —

Total Depth (feet) 24.74 LPH & Water Recovered (gallons): —

Water Column (feet): 15.27 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 12.52 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F , C)	pH	D.O (mg/L)	ORP	Turbidity
0750			2	855.8	18.7	6.80	0.80	30	
			4	853.0	19.1	6.74	1.77	16	
	0755		6	876.2	19.3	6.72	5.38	16	

Static at Time Sampled	Total Gallons Purged	Sample Time
9.62	6	0944

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Andrew Vickers

Site: 1871 Project No.: 154771 Date: 06/12/08

Well No. MW-8 Purge Method: Sub

Depth to Water (feet): 9.53 Depth to Product (feet): —

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

Water Column (feet): 14.75 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 12.48 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F , C)	pH	D O (mg/L)	ORP	Turbidity
AV ~~0718~~ 0804			2	756.6	19.3	7.09	9.40	38	
			4	714.2	19.5	6.93	1.04	49	
	AV ~~0722~~ 0809		6	722.0	19.7	6.86	1.01	40	

Static at Time Sampled	Total Gallons Purged	Sample Time
9.78	6	0949

Comments:

Well No. MW-9 Purge Method: HB

Depth to Water (feet): 15.70 Depth to Product (feet): —

Total Depth (feet) 19.86 LPH & Water Recovered (gallons): —

Water Column (feet): 4.16 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 16.53 1 Well Volume (gallons): .67

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F , C)	pH	D O (mg/L)	ORP	Turbidity
0718			.67	616.5	16.8	7.14	2.55	86	
			1.34	612.1	16.8	7.09	5.33	80	
	0722		2.01	615.6	16.8	7.03	4.03	71	

Static at Time Sampled	Total Gallons Purged	Sample Time
15.77	2.01	0904

Comments: Used disposable bailers

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Andrew Waters

Site: 1871 Project No : 154771 Date: 06/12/08

Well No. MW-1 Purge Method: Sub

Depth to Water (feet): 14.07 Depth to Product (feet): —

Total Depth (feet) 23.90 LPH & Water Recovered (gallons): —

Water Column (feet): 9.83 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 16.04 1 Well Volume (gallons): 7

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F , C)	pH	D.O (mg/L)	ORP	Turbidity
0820			7	412.9	20.1	7.30	4.33	65	
	0829		14	501.1	20.0	6.88	2.66	27	
			21						

Static at Time Sampled	Total Gallons Purged	Sample Time
16.22	16	1030

Comments: well went dry at 16 gallons - 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)	Conduc-tivity (uS/cm)	Temperature (F , C)	pH	D.O (mg/L)	ORP	Turbidity

Static at Time Sampled	Total Gallons Purged	Sample Time

Comments:

TRC

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 06/23/2008

Anju Farfan

TRC
21 Technology Drive
Irvine, CA 92618

RE: 1871
BC Work Order: 0807716

Enclosed are the results of analyses for samples received by the laboratory on 6/12/2008. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

TRC 21 Technology Drive Irvine, CA 92618	Project: 1871 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 06/23/2008 15:32

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0807716-01	**COC Number:**	---	**Receive Date:**	06/12/2008 20:50	Delivery Work Order:
	Project Number:	1871	**Sampling Date:**	06/12/2008 08:56	Global ID: T0600101493
	Sampling Location:	MW-11	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-11	**Sample Matrix:**	Water	Sample QC Type (SACode): CS
	Sampled By:	TRCI			Cooler ID:
0807716-02	**COC Number:**	---	**Receive Date:**	06/12/2008 20:50	Delivery Work Order:
	Project Number:	1871	**Sampling Date:**	06/12/2008 09:14	Global ID: T0600101493
	Sampling Location:	MW-10	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-10	**Sample Matrix:**	Water	Sample QC Type (SACode): CS
	Sampled By:	TRCI			Cooler ID:
0807716-03	**COC Number:**	---	**Receive Date:**	06/12/2008 20:50	Delivery Work Order:
	Project Number:	1871	**Sampling Date:**	06/12/2008 09:36	Global ID: T0600101493
	Sampling Location:	MW-7	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-7	**Sample Matrix:**	Water	Sample QC Type (SACode): CS
	Sampled By:	TRCI			Cooler ID:
0807716-04	**COC Number:**	---	**Receive Date:**	06/12/2008 20:50	Delivery Work Order:
	Project Number:	1871	**Sampling Date:**	06/12/2008 09:44	Global ID: T0600101493
	Sampling Location:	MW-6	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-6	**Sample Matrix:**	Water	Sample QC Type (SACode): CS
	Sampled By:	TRCI			Cooler ID:
0807716-05	**COC Number:**	---	**Receive Date:**	06/12/2008 20:50	Delivery Work Order:
	Project Number:	1871	**Sampling Date:**	06/12/2008 09:49	Global ID: T0600101493
	Sampling Location:	MW-8	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-8	**Sample Matrix:**	Water	Sample QC Type (SACode): CS
	Sampled By:	TRCI			Cooler ID:

TRC 21 Technology Drive Irvine, CA 92618	Project: 1871 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 06/23/2008 15:32

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0807716-06	**COC Number:**	---	**Receive Date:**	06/12/2008 20:50	Delivery Work Order:
	Project Number:	1871	**Sampling Date:**	06/12/2008 09:04	Global ID: T0600101493
	Sampling Location:	MW-9	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-9	**Sample Matrix:**	Water	Sample QC Type (SACode): CS
	Sampled By:	TRCI			Cooler ID:
0807716-07	**COC Number:**	---	**Receive Date:**	06/12/2008 20:50	Delivery Work Order:
	Project Number:	1871	**Sampling Date:**	06/12/2008 10:30	Global ID: T0600101493
	Sampling Location:	MW-1	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-1	**Sample Matrix:**	Water	Sample QC Type (SACode): CS
	Sampled By:	TRCI			Cooler ID:

TRC 21 Technology Drive Irvine, CA 92618	Project: 1871 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 06/23/2008 15:32

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0807716-01 | **Client Sample Name:** 1871, MW-11, MW-11, 6/12/2008 8:56:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 06:07	KEN	MS-V12	1	BRF1184	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 06:07	KEN	MS-V12	1	BRF1184	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 06:07	KEN	MS-V12	1	BRF1184	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 06:07	KEN	MS-V12	1	BRF1184	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/19/08	06/20/08 06:07	KEN	MS-V12	1	BRF1184	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/19/08	06/20/08 06:07	KEN	MS-V12	1	BRF1184	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/19/08	06/20/08 06:07	KEN	MS-V12	1	BRF1184	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	06/19/08	06/20/08 06:07	KEN	MS-V12	1	BRF1184	ND	
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114	(LCL - UCL)	EPA-8260	06/19/08	06/20/08 06:07	KEN	MS-V12	1	BRF1184		
Toluene-d8 (Surrogate)	101	%	88 - 110	(LCL - UCL)	EPA-8260	06/19/08	06/20/08 06:07	KEN	MS-V12	1	BRF1184		
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115	(LCL - UCL)	EPA-8260	06/19/08	06/20/08 06:07	KEN	MS-V12	1	BRF1184		

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Project: 1871
Project Number: [none]
Project Manager: Anju Farfan

Reported: 06/23/2008 15:32

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0807716-02 | **Client Sample Name:** 1871, MW-10, MW-10, 6/12/2008 9:14:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 05:43	KEN	MS-V12	1	BRF1184	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 05:43	KEN	MS-V12	1	BRF1184	ND	
Methyl t-butyl ether	2.6	ug/L	0.50		EPA-8260	06/19/08	06/20/08 05:43	KEN	MS-V12	1	BRF1184	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 05:43	KEN	MS-V12	1	BRF1184	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/19/08	06/20/08 05:43	KEN	MS-V12	1	BRF1184	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/19/08	06/20/08 05:43	KEN	MS-V12	1	BRF1184	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/19/08	06/20/08 05:43	KEN	MS-V12	1	BRF1184	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	06/19/08	06/20/08 05:43	KEN	MS-V12	1	BRF1184	ND	
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 05:43	KEN	MS-V12	1	BRF1184		
Toluene-d8 (Surrogate)	99.7	%	88 - 110 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 05:43	KEN	MS-V12	1	BRF1184		
4-Bromofluorobenzene (Surrogate)	99.5	%	86 - 115 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 05:43	KEN	MS-V12	1	BRF1184		

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Project: 1871
Project Number: [none]
Project Manager: Anju Farfan

Reported: 06/23/2008 15:32

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0807716-03 | **Client Sample Name:** 1871, MW-7, MW-7, 6/12/2008 9:36:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 05:19	KEN	MS-V12	1	BRF1184	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 05:19	KEN	MS-V12	1	BRF1184	ND	
Methyl t-butyl ether	9.4	ug/L	0.50		EPA-8260	06/19/08	06/20/08 05:19	KEN	MS-V12	1	BRF1184	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 05:19	KEN	MS-V12	1	BRF1184	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/19/08	06/20/08 05:19	KEN	MS-V12	1	BRF1184	ND	
t-Butyl alcohol	30	ug/L	10		EPA-8260	06/19/08	06/20/08 05:19	KEN	MS-V12	1	BRF1184	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/19/08	06/20/08 05:19	KEN	MS-V12	1	BRF1184	ND	
Total Purgeable Petroleum Hydrocarbons	52	ug/L	50		EPA-8260	06/19/08	06/20/08 05:19	KEN	MS-V12	1	BRF1184	ND	
1,2-Dichloroethane-d4 (Surrogate)	99.5	%	76 - 114 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 05:19	KEN	MS-V12	1	BRF1184		
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 05:19	KEN	MS-V12	1	BRF1184		
4-Bromofluorobenzene (Surrogate)	97.9	%	86 - 115 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 05:19	KEN	MS-V12	1	BRF1184		

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Project: 1871
Project Number: [none]
Project Manager: Anju Farfan

Reported: 06/23/2008 15:32

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0807716-04 | **Client Sample Name:** 1871, MW-6, MW-6, 6/12/2008 9:44:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 04:55	KEN	MS-V12	1	BRF1184	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 04:55	KEN	MS-V12	1	BRF1184	ND	
Methyl t-butyl ether	17	ug/L	0.50		EPA-8260	06/19/08	06/20/08 04:55	KEN	MS-V12	1	BRF1184	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 04:55	KEN	MS-V12	1	BRF1184	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/19/08	06/20/08 04:55	KEN	MS-V12	1	BRF1184	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/19/08	06/20/08 04:55	KEN	MS-V12	1	BRF1184	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/19/08	06/20/08 04:55	KEN	MS-V12	1	BRF1184	ND	
Total Purgeable Petroleum Hydrocarbons	84	ug/L	50		EPA-8260	06/19/08	06/20/08 04:55	KEN	MS-V12	1	BRF1184	ND	
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 04:55	KEN	MS-V12	1	BRF1184		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 04:55	KEN	MS-V12	1	BRF1184		
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 04:55	KEN	MS-V12	1	BRF1184		

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Project: 1871
Project Number: [none]
Project Manager: Anju Farfan

Reported: 06/23/2008 15:32

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0807716-05 | **Client Sample Name:** 1871, MW-8, MW-8, 6/12/2008 9:49:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 04:31	KEN	MS-V12	1	BRF1184	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 04:31	KEN	MS-V12	1	BRF1184	ND	
Methyl t-butyl ether	14	ug/L	0.50		EPA-8260	06/19/08	06/20/08 04:31	KEN	MS-V12	1	BRF1184	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 04:31	KEN	MS-V12	1	BRF1184	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/19/08	06/20/08 04:31	KEN	MS-V12	1	BRF1184	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/19/08	06/20/08 04:31	KEN	MS-V12	1	BRF1184	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/19/08	06/20/08 04:31	KEN	MS-V12	1	BRF1184	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	06/19/08	06/20/08 04:31	KEN	MS-V12	1	BRF1184	ND	
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 04:31	KEN	MS-V12	1	BRF1184		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 04:31	KEN	MS-V12	1	BRF1184		
4-Bromofluorobenzene (Surrogate)	95.1	%	86 - 115 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 04:31	KEN	MS-V12	1	BRF1184		

TRC 21 Technology Drive Irvine, CA 92618	Project: 1871 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 06/23/2008 15:32

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0807716-06 | **Client Sample Name:** 1871, MW-9, MW-9, 6/12/2008 9:04:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 04:07	KEN	MS-V12	1	BRF1184	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 04:07	KEN	MS-V12	1	BRF1184	ND	
Methyl t-butyl ether	270	ug/L	2.5		EPA-8260	06/19/08	06/20/08 13:13	KEN	MS-V12	5	BRF1184	ND	A01
Toluene	ND	ug/L	0.50		EPA-8260	06/19/08	06/20/08 04:07	KEN	MS-V12	1	BRF1184	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/19/08	06/20/08 04:07	KEN	MS-V12	1	BRF1184	ND	
t-Butyl alcohol	250	ug/L	50		EPA-8260	06/19/08	06/20/08 13:13	KEN	MS-V12	5	BRF1184	ND	A01
Ethanol	ND	ug/L	250		EPA-8260	06/19/08	06/20/08 04:07	KEN	MS-V12	1	BRF1184	ND	
Total Purgeable Petroleum Hydrocarbons	180	ug/L	50		EPA-8260	06/19/08	06/20/08 04:07	KEN	MS-V12	1	BRF1184	ND	A90
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114	(LCL - UCL)	EPA-8260	06/19/08	06/20/08 04:07	KEN	MS-V12	1	BRF1184		
1,2-Dichloroethane-d4 (Surrogate)	98.4	%	76 - 114	(LCL - UCL)	EPA-8260	06/19/08	06/20/08 13:13	KEN	MS-V12	5	BRF1184		
Toluene-d8 (Surrogate)	101	%	88 - 110	(LCL - UCL)	EPA-8260	06/19/08	06/20/08 04:07	KEN	MS-V12	1	BRF1184		
Toluene-d8 (Surrogate)	101	%	88 - 110	(LCL - UCL)	EPA-8260	06/19/08	06/20/08 13:13	KEN	MS-V12	5	BRF1184		
4-Bromofluorobenzene (Surrogate)	95.8	%	86 - 115	(LCL - UCL)	EPA-8260	06/19/08	06/20/08 04:07	KEN	MS-V12	1	BRF1184		
4-Bromofluorobenzene (Surrogate)	97.0	%	86 - 115	(LCL - UCL)	EPA-8260	06/19/08	06/20/08 13:13	KEN	MS-V12	5	BRF1184		

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Project: 1871
Project Number: [none]
Project Manager: Anju Farfan

Reported: 06/23/2008 15:32

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0807716-07 | **Client Sample Name:** 1871, MW-1, MW-1, 6/12/2008 10:30:00AM

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	6.4	ug/L	2.5		EPA-8260	06/19/08	06/20/08 00:56	KEN	MS-V12	5	BRF1184	ND	A01
Ethylbenzene	170	ug/L	2.5		EPA-8260	06/19/08	06/20/08 00:56	KEN	MS-V12	5	BRF1184	ND	A01
Methyl t-butyl ether	16	ug/L	2.5		EPA-8260	06/19/08	06/20/08 00:56	KEN	MS-V12	5	BRF1184	ND	A01
Toluene	ND	ug/L	2.5		EPA-8260	06/19/08	06/20/08 00:56	KEN	MS-V12	5	BRF1184	ND	A01
Total Xylenes	280	ug/L	5.0		EPA-8260	06/19/08	06/20/08 00:56	KEN	MS-V12	5	BRF1184	ND	A01
t-Butyl alcohol	330	ug/L	50		EPA-8260	06/19/08	06/20/08 12:49	KEN	MS-V12	5	BRF1184	ND	A01
Ethanol	ND	ug/L	1200		EPA-8260	06/19/08	06/20/08 00:56	KEN	MS-V12	5	BRF1184	ND	A01
Total Purgeable Petroleum Hydrocarbons	4900	ug/L	250		EPA-8260	06/19/08	06/20/08 00:56	KEN	MS-V12	5	BRF1184	ND	A01
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 00:56	KEN	MS-V12	5	BRF1184		
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 12:49	KEN	MS-V12	5	BRF1184		
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 00:56	KEN	MS-V12	5	BRF1184		
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 12:49	KEN	MS-V12	5	BRF1184		
4-Bromofluorobenzene (Surrogate)	98.8	%	86 - 115 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 12:49	KEN	MS-V12	5	BRF1184		
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)		EPA-8260	06/19/08	06/20/08 00:56	KEN	MS-V12	5	BRF1184		

TRC 21 Technology Drive Irvine, CA 92618	Project: 1871 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 06/23/2008 15:32

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Benzene	BRF1184	Matrix Spike	0807421-31	0	27.080	25.000	ug/L		108		70 - 130	
		Matrix Spike Duplicate	0807421-31	0	26.990	25.000	ug/L	0	108	20	70 - 130	
Toluene	BRF1184	Matrix Spike	0807421-31	0	27.360	25.000	ug/L		109		70 - 130	
		Matrix Spike Duplicate	0807421-31	0	27.450	25.000	ug/L	0.9	110	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BRF1184	Matrix Spike	0807421-31	ND	9.9100	10.000	ug/L		99.1		76 - 114	
		Matrix Spike Duplicate	0807421-31	ND	10.230	10.000	ug/L		102		76 - 114	
Toluene-d8 (Surrogate)	BRF1184	Matrix Spike	0807421-31	ND	10.050	10.000	ug/L		100		88 - 110	
		Matrix Spike Duplicate	0807421-31	ND	10.140	10.000	ug/L		101		88 - 110	
4-Bromofluorobenzene (Surrogate)	BRF1184	Matrix Spike	0807421-31	ND	10.330	10.000	ug/L		103		86 - 115	
		Matrix Spike Duplicate	0807421-31	ND	9.9500	10.000	ug/L		99.5		86 - 115	

TRC 21 Technology Drive Irvine, CA 92618	Project: 1871 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 06/23/2008 15:32

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Benzene	BRF1184	BRF1184-BS1	LCS	26.370	25.000	0.50	ug/L	105		70 - 130		
Toluene	BRF1184	BRF1184-BS1	LCS	26.520	25.000	0.50	ug/L	106		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BRF1184	BRF1184-BS1	LCS	9.8100	10.000		ug/L	98.1		76 - 114		
Toluene-d8 (Surrogate)	BRF1184	BRF1184-BS1	LCS	9.9700	10.000		ug/L	99.7		88 - 110		
4-Bromofluorobenzene (Surrogate)	BRF1184	BRF1184-BS1	LCS	10.280	10.000		ug/L	103		86 - 115		

TRC
21 Technology Drive
Irvine, CA 92618

Project: 1871
Project Number: [none]
Project Manager: Anju Farfan

Reported: 06/23/2008 15:32

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BRF1184	BRF1184-BLK1	ND	ug/L	0.50		
Ethylbenzene	BRF1184	BRF1184-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BRF1184	BRF1184-BLK1	ND	ug/L	0.50		
Toluene	BRF1184	BRF1184-BLK1	ND	ug/L	0.50		
Total Xylenes	BRF1184	BRF1184-BLK1	ND	ug/L	1.0		
t-Butyl alcohol	BRF1184	BRF1184-BLK1	ND	ug/L	10		
Ethanol	BRF1184	BRF1184-BLK1	ND	ug/L	250		
Total Purgeable Petroleum Hydrocarbons	BRF1184	BRF1184-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BRF1184	BRF1184-BLK1	102	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BRF1184	BRF1184-BLK1	100	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BRF1184	BRF1184-BLK1	100	%	86 - 115 (LCL - UCL)		

TRC 21 Technology Drive Irvine, CA 92618	Project: 1871 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 06/23/2008 15:32

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A90	TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.

BC LABORATORIES INC. | SAMPLE RECEIPT FORM | Rev. No. 11 | 04/04/08 | Page ___ Of ___

Submission #: 08-7716 | Project Code: | TB Batch #

SHIPPING INFORMATION

Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER

Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☐ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Ice Chest ID A | C
Temperature: 24 | 25 °C
Thermometer ID: #43

Emissivity 1.0
Container VOA

Date/Time 6/12/08 2045
Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
100ml TOTAL ORGANIC CARBON										
QT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A3	A3	A3	A3	A3	A3	A3			
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT QA/QC										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: _____ Date/Time: 6-12-8 2225

A = Actual / C = Corrected

BC LABORATORIES, INC.

4100 Atlas Court Bakersfield, CA 93308
(661) 327-4911 FAX (661) 327-1918

CHAIN OF CUSTODY

08-7716

Analysis Requested

Bill to: Conoco Phillips/ TRC	**Consultant Firm:** TRC
Address: 96 MacArthur Blvd.	21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan
City: Oakland	**4-digit site#:** 1871
	Workorder # 01120-4509117982
State: CA **Zip:**	**Project #:** 154771
Conoco Phillips Mgr: Bill Bergh	**Sampler Name:** Andrew Vidales

MATRIX
(GW) Ground-water
(S) Soil
(WW) Waste-water
(SL) Sludge

Lab#	Sample Description	Field Point Name	Date & Time Sampled	MATRIX	BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015	8260 full list w/ oxygenates	BTEX/MTBE/OXYS BY 8260B	ETHANOL by 8260B	TPH –G by GC/MS	BTEX/MTBE by 8260B			Turnaround Time Requested
	1	MW-11	06/12/08 0856	GW						X	X	X			STD
	2	MW-10	0914												
	3	MW-7	0936												
	4	MW-6	0944												
	5	MW-8	0949												
	6	MW-9	0904												
	7	MW-1	1030												

CHK BY JWD DISTRIBUTION SUB-OUT

Comments:

GLOBAL ID: T0600101493

Relinquished by: (Signature)	Received by: BCL P.BINS	Date & Time 6/12/08 1530
Relinquished by: (Signature) BCL 6/12/08 1645	Received by:	Date & Time 6.12.08 1648
Relinquished by: (Signature) 6-12-08 2050	Received by:	Date & Time 6-12-8 2050

STATEMENTS

Purge Water Disposal

Non-hazardous groundwater produced during purging and sampling of monitoring wells was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by a licensed carrier, 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 others.

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.