ConocoPhillips
76 Broadway
Sacramento, California 95818

RECEIVED

3:02 pm, Feb 05, 2009

Alameda County
Environmental Health

January 30, 2009

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

Re: ***Quarterly Summary Reports—Second and Third Quarter 2008***
76 Service Station # 0018 RO # 0243
6201 Claremont Ave.
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 27, 2009

Ms. Barbara Jakub
Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, California 94502-6577

DELTA

RE: **Quarterly Summary Report – Second and Third Quarter 2008**
Delta Project No.: C1Q-0018-604
ACEH Case No: RO243

Dear Ms. Jakub:

On behalf of ConocoPhillips (COP), Delta Consultants, Inc. (Delta) is forwarding the quarterly summary report for the following location:

Service Station	**Location**
ConocoPhillips Site No. 0018	6201 Claremont Avenue Oakland, California

Sincerely,
Delta Consultants

D. Bryan

Debbie Bryan
Project Geologist
PG 7745

PROFESSIONAL GEOLOGIST
DEBORAH BRYAN
NO. 7745
STATE OF CALIFORNIA

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

a member of: Inogen Environmental Alliance

312 PIERCY ROAD SAN JOSE, CALIFORNIA 95138 USA
PHONE +1 408.224.4724 / USA TOLL FREE 800.477.7411
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Quarterly Summary Report
Second and Third Quarter – 2008

76 Branded Facility No. 0018
6201 Claremont Avenue
Oakland, Alameda County, CA

PREVIOUS ASSESSMENT ACTIVITIES

March 1997 Kaprealian Engineering Inc. (KEI) collected nine soil and one grab groundwater sample during UST and product line replacement activities. One soil sample collected from the UST excavation contained 2.6 milligrams per kilograms (mg/kg) of total petroleum hydrocarbons as gasoline (TPH-G). Another soil sample collected from beneath a dispenser island contained 1.4 mg/kg TPH-G, 0.012 mg/kg benzene, and 1.4 mg/kg methyl tertiary butyl ether (MTBE). The groundwater sample collected from the UST excavation contained 6,100 micrograms per liter (µg/L) of TPH-G and 54 µg/L benzene.

March 1998 Tosco was issued a Notice of Responsibility by Alameda County Health Care Services (ACHCS).

December 2000 Gettler-Ryan Inc. installed three groundwater monitoring wells to depths of 30 feet below ground surface (bgs). Five soil samples were collected from the borings for the wells. Sample MW-1-25.5, from a depth of 25.5 foot bgs, contained 19 mg/kg of TPH-G and 0.018 mg/kg of benzene. Initial groundwater samples contained low (≤120 micrograms per liter (ug/l)) concentrations of TPH-G, benzene, and MTBE.

November 2000 A quarterly monitoring program, utilizing the three on-site monitoring wells (MW-1 through MW-3), was initiated.

October 2003 Site environmental consulting responsibilities were transferred to TRC.

January 2006 TRC completed a *No Further Action Required Report – Request for Closure*.

April 2006 TRC completed a sensitive receptor survey.

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

SENSITIVE RECEPTORS

A sensitive receptor survey for the site was conducted in April 2006. According to the Department of Water Resources (DWR) records, no water supply wells are located within one-half mile of the site.

REMEDIATION STATUS

Remediation is not currently being conducted at the site.

MONITORING AND SAMPLING

The groundwater monitoring well network, consisting of three on-site monitoring wells, has been monitored and sampled on a quarterly basis since October 2000. During the most recent groundwater sampling event conducted on September 19, 2008, reported depth to groundwater ranged from 21.11 feet (MW-1) to 22.62 feet (MW-2) below top of casing (TOC), with 2.07 feet average decrease in groundwater elevation across the site. During the second quarter 2008 monitoring event groundwater depth ranged from 18.82 feet (MW-1) to 21.13 feet (MW-2) below TOC, with 2.53 feet average decrease in groundwater elevation across the site. Groundwater elevation beneath the site typically fluctuates by approximately 5 feet annually.

The groundwater flow direction during the third quarter 2008 was reported southwest at a gradient of 0.01 feet per feet (ft/ft). This is mainly consistent with a gradient of 0.01 ft/ft southeast during the previous sampling event (June 20, 2008). Reported historical groundwater flow direction has been primarily to the southwest.

During the second and third quarter 2008, groundwater samples were collected from all three on-site wells (MW-1, MW-2, MW-3). Samples were analyzed for TPH-G by GC/MS; benzene, toluene, ethyl-benzene and xylenes (BTEX), MTBE, and ethanol by US Environmental Protection Agency (EPA) Method 8260. In addition, well MW-1 was also analyzed for oxygenates (tertiary butyl alcohol (TBA), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), and di-isopropyl ether (DIPE)), 1,2-dichloroethane (1,2-DCA), and ethylene dibromide (EDB) by EPA Method 8260.

During both the second and third quarter 2008, TPH-G was reported in only one well (MW-1) at concentrations of 100 ug/L and 63 µg/L, respectively. With the exception of first quarter 2005, the TPH-G concentration in well MW-1 has historically been below 1,000 µg/L. TPH-G has never been detected in wells MW-2 and MW-3.

Benzene was not detected in any of the three wells during the second and third quarter 2008 sampling events. Benzene has not been detected in any site well since at least 2005.

During the second and third quarter 2008, MTBE was reported in only one of the three wells sampled (MW-1), with concentrations of 13 ug/l and 12 µg/l, respectively. The MTBE concentration in well MW-1 has been below 20 µg/L for the past ten consecutive sampling events. The maximum historical MTBE concentration detected in MW-1 was 150 ug/l in August 2001. MTBE has never been detected in well MW-2, and has only been detected sporadically in well MW-3. The most recent detection of MTBE in well MW-3 was at a concentration of 3.4 ug/l (September 2006).

CONCLUSIONS AND RECOMMENDATIONS

The third quarter 2008 analytical data indicates that the petroleum hydrocarbon and oxygenate concentrations observed beneath the southern portion of the site (MW-1) during the second quarter 2008 have remained mostly stable into the third quarter 2008. Some fluctuation, similar to historical results, was observed. Concentrations in MW-1 appear to fluctuate seasonally with variation in groundwater elevation. However, based upon historic data, concentrations of TPH-G and MTBE in well MW-1 appear to be gradually declining.

Groundwater monitoring will continue on a quarterly basis. Groundwater analysis will include TPH-G, BTEX compounds, and MTBE by EPA Method 8260B.

THIS QUARTER'S ACTIVITIES (Second and Third Quarter 2008)

- TRC performed the Second and Third Quarter2008 quarterly monitoring and sampling events, and prepared quarterly monitoring reports.
- Delta prepared and submitted a *Site Conceptual Model* Report, dated September 12, 2008 to the ACEH.

NEXT QUARTER'S ACTIVITIES (Fourth Quarter 2008)

- TRC to conduct the Fourth Quarter 2008 groundwater monitoring and sampling event and prepare a quarterly monitoring report.

CONSULTANT: Delta Consultants

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, CA 95818

ATTN: MR. BILL BORGH

SITE: 76 STATION 0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2008

Dear Mr. Borgh:

Please find enclosed our Quarterly Monitoring Report for 76 Station 0018, located at 6201 Claremont Avenue, 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 (4 copies)

Enclosures
20-0400/0018R19 QMS

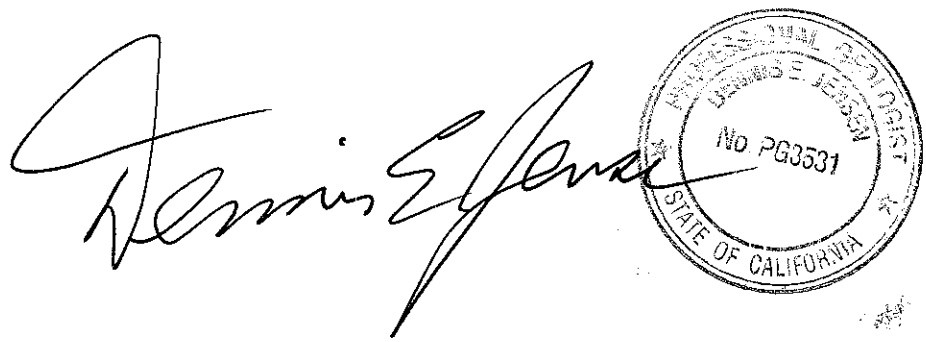
QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2008

76 STATION 0018
6201 Claremont Avenue
Oakland, California

Prepared For:

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

By:



Senior Project Geologist, Irvine Operations

Date: 7/14/04

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 – 06/20/08 Groundwater Sampling Field Notes – 06/20/08
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 0018
6201 Claremont Avenue
Oakland, CA

Project Coordinator: **Bill Borgh**
Telephone: **916-558-7612**
Water Sampling Contractor: ***TRC***
Compiled by: **Christina Carrillo**
Date(s) of Gauging/Sampling Event: **06/20/08**

Sample Points

Groundwater wells: **3** onsite, **0** offsite Points gauged: **3** Points sampled: **3**
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: **18.82 feet** Maximum: **21.13 feet**
Average groundwater elevation (relative to available local datum): **189.47 feet**
Average change in groundwater elevation since previous event: **-2.53 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.01 ft/ft, southeast**
Previous event: **0.01 ft/ft, southwest (03/26/08)**

Selected Laboratory Results

Sample Points with detected **Benzene:** **0** Sample Points above MCL (1.0 µg/l): **n/a**
Maximum reported benzene concentration: **n/a**

Sample Points with **TPH-G by GC/MS** **1** Maximum: **100 µg/l (MW-1)**
Sample Points with **MTBE 8260B** **1** Maximum: **13 µg/l (MW-1)**

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)

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 0018 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 0018

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)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME						

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	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME						

Table 1

CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

June 20, 2008

76 Station 0018

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: 10.0-30.0)**												
6/20/2008	208.15	18.82	0.00	189.33	-1.95	--	100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	13	
MW-2		**(Screen Interval in feet: 10.0-30.0)**												
6/20/2008	210.27	21.13	0.00	189.14	-3.34	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-3		**(Screen Interval in feet: 10.0-30.0)**												
6/20/2008	208.98	19.05	0.00	189.93	-2.31	--	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 0018

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
MW-1							
6/20/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2							
6/20/2008	--	ND<250	--	--	--	--	--
MW-3							
6/20/2008	--	ND<250	--	--	--	--	--

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

August 2000 Through June 2008

76 Station 0018

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: 10.0-30.0)**													
8/24/2000	208.15	18.55	0.00	189.60	--	120	--	0.67	ND	0.86	1.4	54	54	
11/16/2000	208.15	20.30	0.00	187.85	-1.75	169	--	ND	1.20	1.74	0.629	68.6	97.7	
2/9/2001	208.15	20.16	0.00	187.99	0.14	330	--	1.3	ND	1.0	4.6	140	150	
5/11/2001	208.15	17.68	0.00	190.47	2.48	1250	--	ND	ND	ND	ND	145	122	
8/10/2001	208.15	20.38	0.00	187.77	-2.70	580	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	110	150	
11/7/2001	208.15	22.68	0.00	185.47	-2.30	250	--	ND<0.50	1.5	ND<0.50	ND<0.50	120	100	
2/6/2002	208.15	16.20	0.00	191.95	6.48	790	--	ND<2.5	12	8.8	ND<2.5	90	72	
5/8/2002	208.15	17.54	0.00	190.61	-1.34	890	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	78	81	
8/9/2002	208.15	20.21	0.00	187.94	-2.67	--	450	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	100	
11/29/2002	208.15	22.33	0.00	185.82	-2.12	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	72	
2/3/2003	208.15	16.41	0.00	191.74	5.92	--	540	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	40	
5/5/2003	208.15	16.09	0.00	192.06	0.32	--	670	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	57	
9/4/2003	208.15	21.46	0.00	186.69	-5.37	--	--	--	--	--	--	--	--	No analysis; past holding time
11/13/2003	208.15	21.52	0.00	186.63	-0.06	--	97	ND<0.50	5.0	0.82	3.5	--	29	
1/29/2004	208.15	17.51	0.00	190.64	4.01	--	520	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	44	
5/7/2004	208.15	16.74	0.00	191.41	0.77	--	180	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	25	
8/27/2004	208.15	19.40	0.00	188.75	-2.66	--	100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	21	
11/23/2004	208.15	19.82	0.00	188.33	-0.42	--	410	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	45	
2/9/2005	208.15	15.81	0.00	192.34	4.01	--	5700	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	40	
6/16/2005	208.15	15.85	0.00	192.30	-0.04	--	200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	24	
9/27/2005	208.15	19.15	0.00	189.00	-3.30	--	300	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	19	
12/30/2005	208.15	14.62	0.00	193.53	4.53	--	68	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	12	
3/8/2006	208.15	11.69	0.00	196.46	2.93	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	21	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

August 2000 Through June 2008

76 Station 0018

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														
6/8/2006	208.15	14.28	0.00	193.87	-2.59	--	66	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	16	
9/15/2006	208.15	17.49	0.00	190.66	-3.21	--	96	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	6.1	
12/22/2006	208.15	18.68	0.00	189.47	-1.19	--	570	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	18	
3/28/2007	208.15	18.40	0.00	189.75	0.28	--	190	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	18	
6/25/2007	208.15	20.01	0.00	188.14	-1.61	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	4.2	
9/22/2007	208.15	21.23	0.00	186.92	-1.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	14	
12/14/2007	208.15	21.02	0.00	187.13	0.21	--	76	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	16	
3/26/2008	208.15	16.87	0.00	191.28	4.15	--	230	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	18	
6/20/2008	208.15	18.82	0.00	189.33	-1.95	--	100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	13	
MW-2	**(Screen Interval in feet: 10.0-30.0)**													
8/24/2000	210.27	19.69	0.00	190.58	--	ND	--	ND	ND	ND	ND	ND	ND	
11/16/2000	210.27	21.61	0.00	188.66	-1.92	ND	--	ND	ND	ND	ND	ND	ND	
2/9/2001	210.27	21.52	0.00	188.75	0.09	ND	--	ND	ND	ND	ND	ND	ND	
5/11/2001	210.27	18.76	0.00	191.51	2.76	ND	--	ND	ND	ND	ND	ND	ND	
8/10/2001	210.27	21.65	0.00	188.62	-2.89	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
11/7/2001	210.27	24.25	0.00	186.02	-2.60	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0	
2/6/2002	210.27	18.22	0.00	192.05	6.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
5/8/2002	210.27	18.63	0.00	191.64	-0.41	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
8/9/2002	210.27	21.53	0.00	188.74	-2.90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
11/29/2002	210.27	23.73	0.00	186.54	-2.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
2/3/2003	210.27	17.43	0.00	192.84	6.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
5/5/2003	210.27	17.15	0.00	193.12	0.28	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
9/4/2003	210.27	22.75	0.00	187.52	-5.60	--	--	--	--	--	--	--	--	No analysis; past holding time
11/13/2003	210.27	23.02	0.00	187.25	-0.27	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

August 2000 Through June 2008

76 Station 0018

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														
1/29/2004	210.27	18.73	0.00	191.54	4.29	--	ND<50	0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
5/7/2004	210.27	17.79	0.00	192.48	0.94	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
8/27/2004	210.27	19.66	0.00	190.61	-1.87	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/23/2004	210.27	21.20	0.00	189.07	-1.54	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
2/9/2005	210.27	16.72	0.00	193.55	4.48	--	ND<50	0.69	1.5	ND<0.50	1.4	--	ND<0.50	
6/16/2005	210.27	16.73	0.00	193.54	-0.01	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/27/2005	210.27	20.41	0.00	189.86	-3.68	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/30/2005	210.27	14.79	0.00	195.48	5.62	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/8/2006	210.27	13.25	0.00	197.02	1.54	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/8/2006	210.27	15.36	0.00	194.91	-2.11	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/15/2006	210.27	18.61	0.00	191.66	-3.25	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/22/2006	210.27	20.01	0.00	190.26	-1.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/28/2007	210.27	19.60	0.00	190.67	0.41	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
6/25/2007	210.27	21.34	0.00	188.93	-1.74	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
9/22/2007	210.27	22.71	0.00	187.56	-1.37	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/14/2007	210.27	22.52	0.00	187.75	0.19	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/26/2008	210.27	17.79	0.00	192.48	4.73	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/20/2008	210.27	21.13	0.00	189.14	-3.34	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-3	**(Screen Interval in feet: 10.0-30.0)**													
8/24/2000	208.98	18.68	0.00	190.30	--	ND	--	ND	ND	ND	ND	4.7	2.3	
11/16/2000	208.98	20.56	0.00	188.42	-1.88	ND	--	ND	ND	ND	ND	ND	ND	
2/9/2001	208.98	20.45	0.00	188.53	0.11	ND	--	ND	ND	ND	ND	ND	ND	
5/11/2001	208.98	17.75	0.00	191.23	2.70	ND	--	ND	ND	ND	ND	ND	ND	
8/10/2001	208.98	20.70	0.00	188.28	-2.95	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

August 2000 Through June 2008

76 Station 0018

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														
11/7/2001	208.98	23.02	0.00	185.96	-2.32	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	1.5	
2/6/2002	208.98	17.19	0.00	191.79	5.83	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
5/8/2002	208.98	17.59	0.00	191.39	-0.40	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
8/9/2002	208.98	20.48	0.00	188.50	-2.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
11/29/2002	208.98	22.64	0.00	186.34	-2.16	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
2/3/2003	208.98	16.46	0.00	192.52	6.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
5/5/2003	208.98	16.16	0.00	192.82	0.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.6	
9/4/2003	208.98	21.71	0.00	187.27	-5.55	--	--	--	--	--	--	--	--	No analysis; past holding time
11/13/2003	208.98	21.93	0.00	187.05	-0.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
1/29/2004	208.98	17.79	0.00	191.19	4.14	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
5/7/2004	208.98	16.79	0.00	192.19	1.00	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.55	
8/27/2004	208.98	19.70	0.00	189.28	-2.91	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/23/2004	208.98	20.30	0.00	188.68	-0.60	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
2/9/2005	208.98	15.72	0.00	193.26	4.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.6	
6/16/2005	208.98	15.67	0.00	193.31	0.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/30/2005	208.98	19.47	0.00	189.51	-3.80	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	9/27/05 samples broke during shipment.
12/30/2005	208.98	15.84	0.00	193.14	3.63	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/8/2006	208.98	12.06	0.00	196.92	3.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/8/2006	208.98	13.82	0.00	195.16	-1.76	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/15/2006	208.98	17.67	0.00	191.31	-3.85	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	3.4	
12/22/2006	208.98	19.10	0.00	189.88	-1.43	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/28/2007	208.98	18.60	0.00	190.38	0.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
6/25/2007	208.98	20.30	0.00	188.68	-1.70	--	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

August 2000 Through June 2008

76 Station 0018

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														
9/22/2007	208.98	21.61	0.00	187.37	-1.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/14/2007	208.98	21.43	0.00	187.55	0.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/26/2008	208.98	16.74	0.00	192.24	4.69	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/20/2008	208.98	19.05	0.00	189.93	-2.31	--	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 0018

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
MW-1							
8/24/2000	ND	ND	--	--	ND	ND	ND
11/16/2000	ND	ND	--	--	ND	ND	ND
2/9/2001	ND	ND	ND	ND	ND	ND	ND
5/11/2001	ND	ND	ND	ND	ND	ND	ND
8/10/2001	ND<100	ND<1000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
11/7/2001	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
2/6/2002	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
5/8/2002	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
8/9/2002	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
11/29/2002	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
2/3/2003	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
5/5/2003	ND<500	ND<2500	ND<10	ND<10	ND<10	ND<10	ND<10
11/13/2003	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
1/29/2004	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
5/7/2004	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
8/27/2004	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
11/23/2004	7.5	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
2/9/2005	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
6/16/2005	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
9/27/2005	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
12/30/2005	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
3/8/2006	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
6/8/2006	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
9/15/2006	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
12/22/2006	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
3/28/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 0018

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
MW-1 continued							
6/25/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
9/22/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
12/14/2007	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
3/26/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
6/20/2008	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2							
8/24/2000	ND	ND	--	--	ND	ND	ND
11/16/2000	ND	ND	--	--	ND	ND	ND
2/9/2001	ND	ND	ND	ND	ND	ND	ND
5/11/2001	ND	ND	ND	ND	ND	ND	ND
8/10/2001	ND<100	ND<1000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
11/7/2001	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
11/13/2003	--	ND<500	--	--	--	--	--
1/29/2004	--	ND<500	--	--	--	--	--
5/7/2004	--	ND<50	--	--	--	--	--
8/27/2004	--	ND<50	--	--	--	--	--
11/23/2004	--	ND<50	--	--	--	--	--
2/9/2005	--	ND<50	--	--	--	--	--
6/16/2005	--	ND<50	--	--	--	--	--
9/27/2005	--	ND<250	--	--	--	--	--
12/30/2005	--	ND<250	--	--	--	--	--
3/8/2006	--	ND<250	--	--	--	--	--
6/8/2006	--	ND<250	--	--	--	--	--
9/15/2006	--	ND<250	--	--	--	--	--
12/22/2006	--	ND<250	--	--	--	--	--
3/28/2007	--	ND<250	--	--	--	--	--

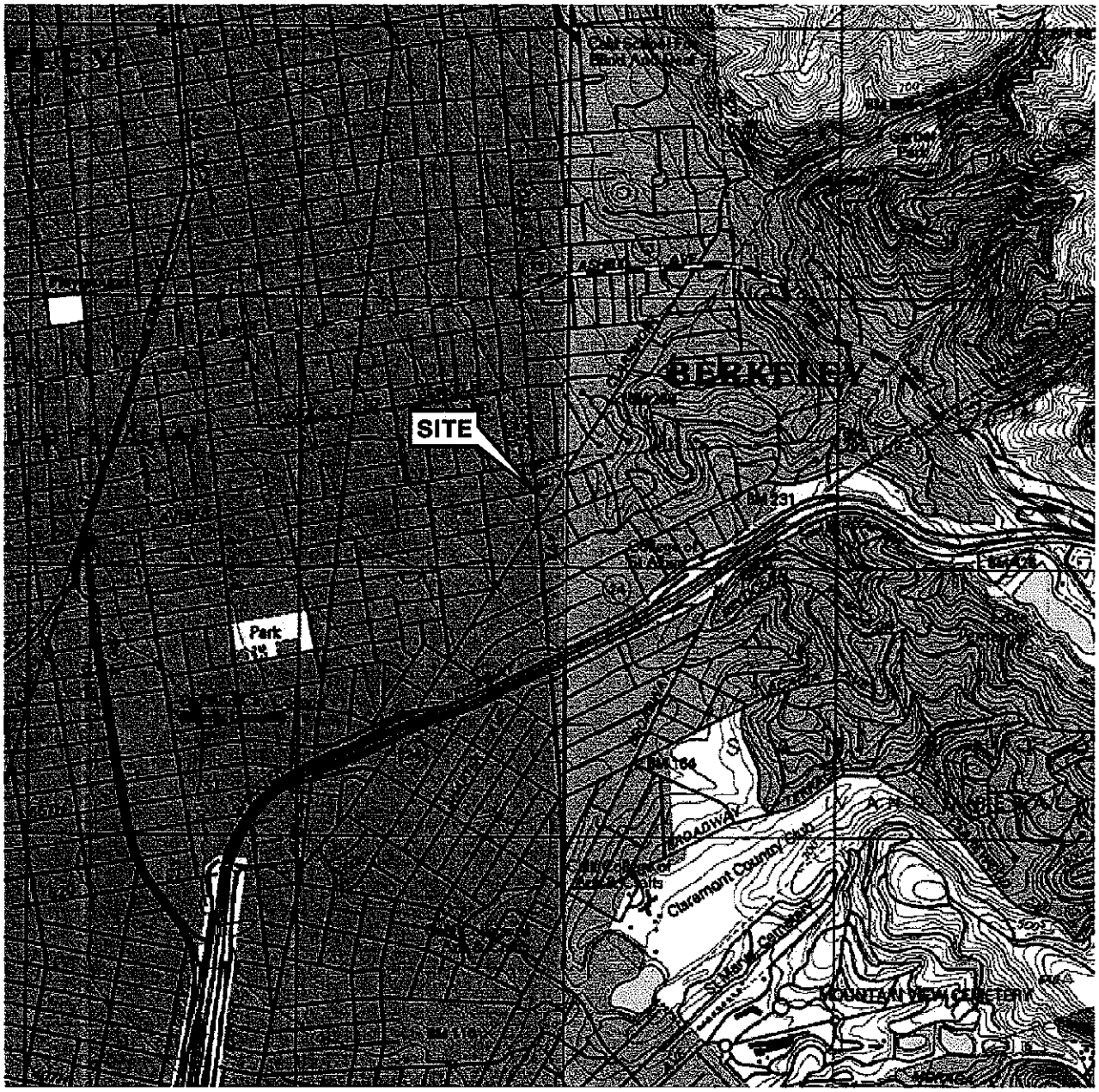
Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 0018

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
MW-2 continued							
6/25/2007	--	ND<250	--	--	--	--	--
9/22/2007	--	ND<250	--	--	--	--	--
12/14/2007	--	ND<250	--	--	--	--	--
3/26/2008	--	ND<250	--	--	--	--	--
6/20/2008	--	ND<250	--	--	--	--	--
MW-3							
8/24/2000	ND	ND	--	--	ND	ND	ND
11/16/2000	ND	ND	--	--	ND	ND	ND
2/9/2001	ND	ND	ND	ND	ND	ND	ND
5/11/2001	ND	ND	ND	ND	ND	ND	ND
8/10/2001	ND<100	ND<1000000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
11/7/2001	ND<20	ND<500000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
8/9/2002	--	--	ND	ND	--	--	--
11/29/2002	--	--	ND	ND	--	--	--
2/3/2003	--	--	ND<2.0	ND<2.0	--	--	--
5/5/2003	--	--	ND<1.0	ND<1.0	--	--	--
11/13/2003	--	ND<500	--	--	--	--	--
1/29/2004	--	ND<500	--	--	--	--	--
5/7/2004	--	ND<50	--	--	--	--	--
8/27/2004	--	ND<50	--	--	--	--	--
11/23/2004	--	ND<50	--	--	--	--	--
2/9/2005	--	ND<50	--	--	--	--	--
6/16/2005	--	ND<50	--	--	--	--	--
9/30/2005	--	ND<250	--	--	--	--	--
12/30/2005	--	ND<250	--	--	--	--	--
3/8/2006	--	ND<250	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 0018

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
MW-3 continued							
6/8/2006	--	ND<250	--	--	--	--	--
9/15/2006	--	ND<250	--	--	--	--	--
12/22/2006	--	ND<250	--	--	--	--	--
3/28/2007	--	ND<250	--	--	--	--	--
6/25/2007	--	ND<250	--	--	--	--	--
9/22/2007	--	ND<250	--	--	--	--	--
12/14/2007	--	ND<250	--	--	--	--	--
3/26/2008	--	ND<250	--	--	--	--	--
6/20/2008	--	ND<250	--	--	--	--	--

FIGURES



N

SOURCE:

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

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

SCALE 1: 24,000

TRC

PROJECT: 154771

FACILITY:

76 STATION 0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

VICINITY MAP

FIGURE 1

PS=1:1 L:\DQMS VICINITY MAPS\0018VM.DWG Nov 09, 2007 - 11:24am cvuong

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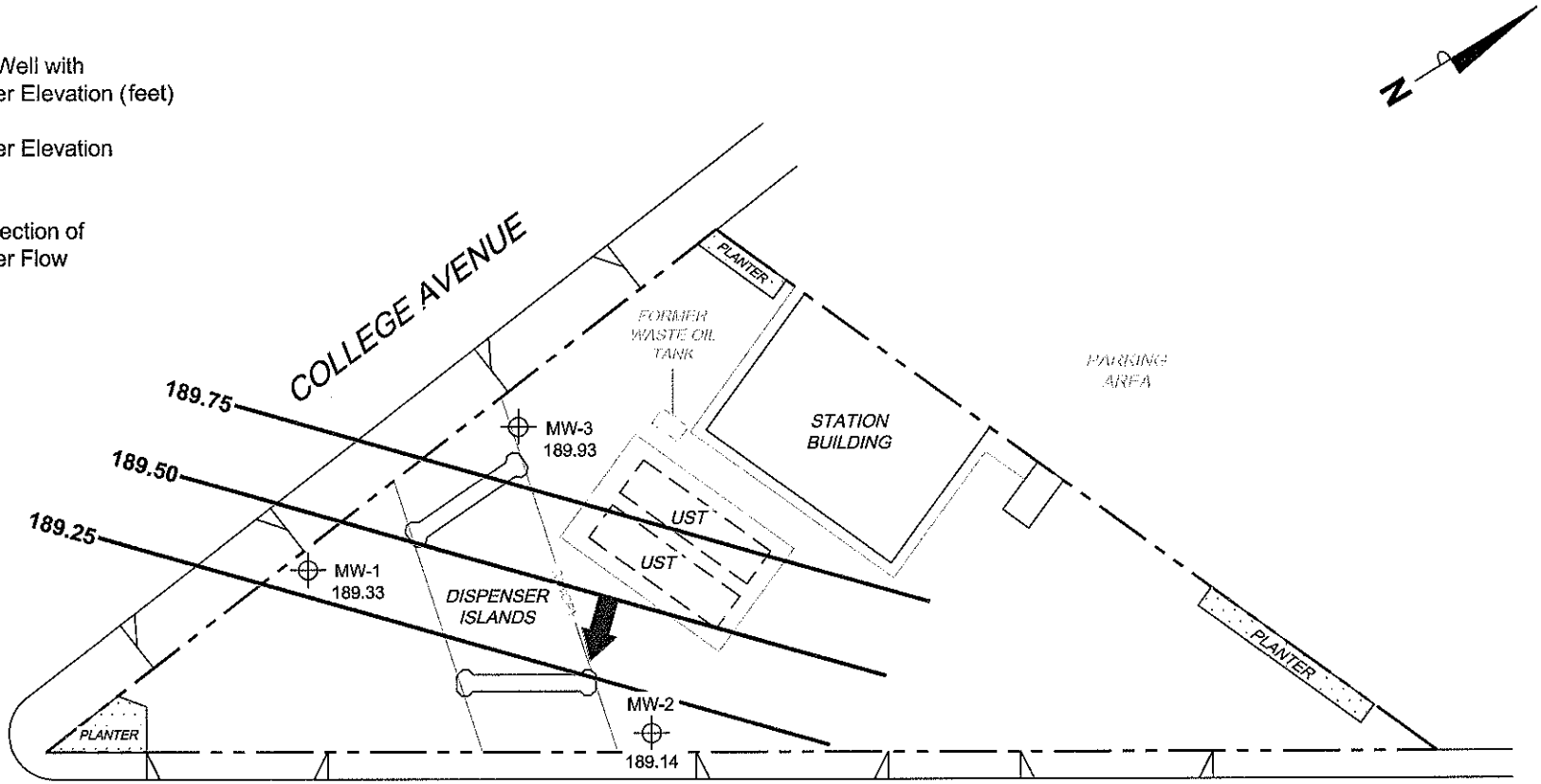
LEGEND

MW-3 ⊕ Monitoring Well with Groundwater Elevation (feet)

189.75 —— Groundwater Elevation Contour

General Direction of Groundwater Flow



SCALE (FEET)

0 40

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.

TRC

PROJECT: 154771

FACILITY:
76 STATION 0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

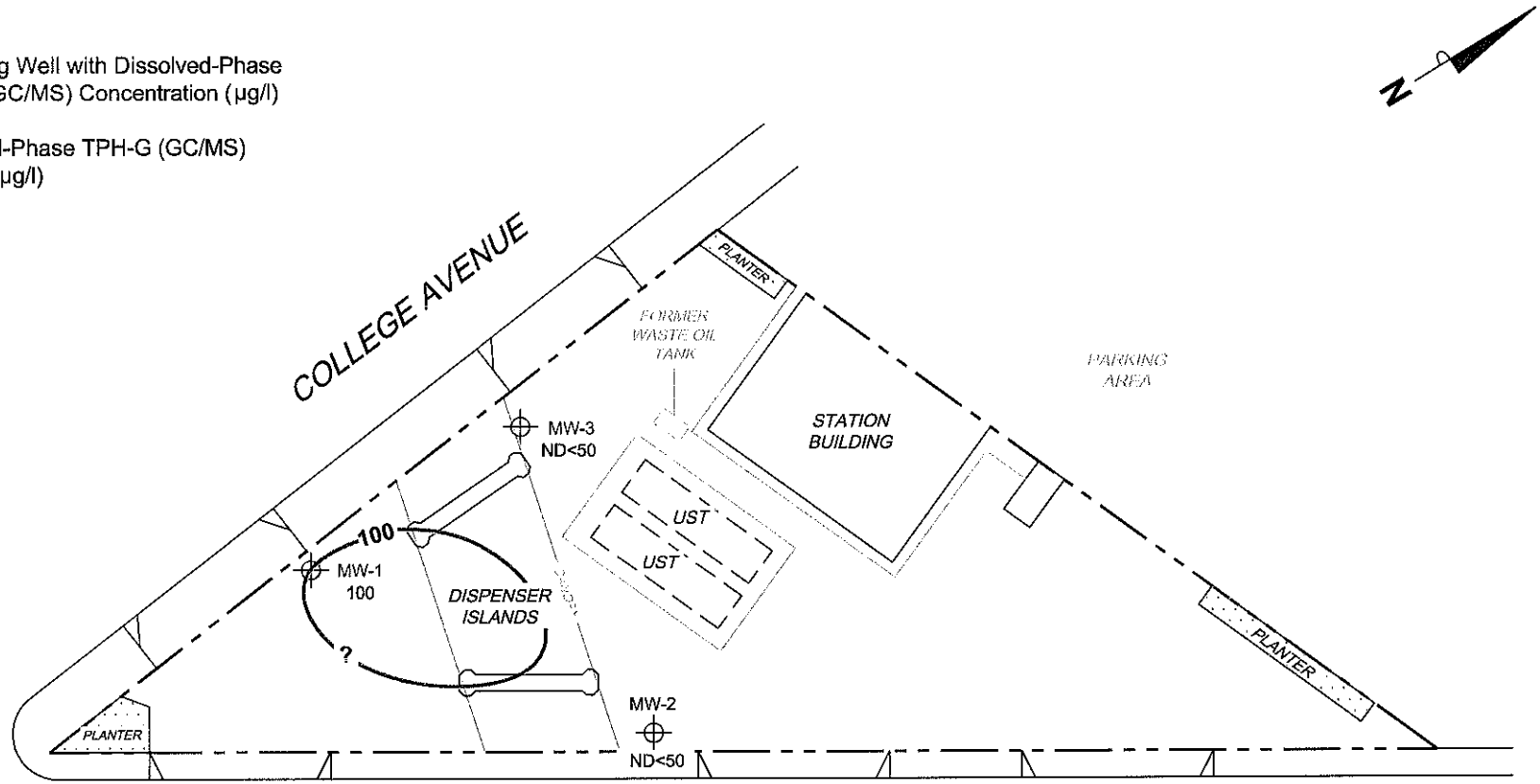
GROUNDWATER ELEVATION CONTOUR MAP
June 20, 2008

FIGURE 2

LEGEND

MW-3 ⊕ Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration (µg/l)

100 Dissolved-Phase TPH-G (GC/MS) Contour (µg/l)



SCALE (FEET)

0 40

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.

TRC

PROJECT: 154771

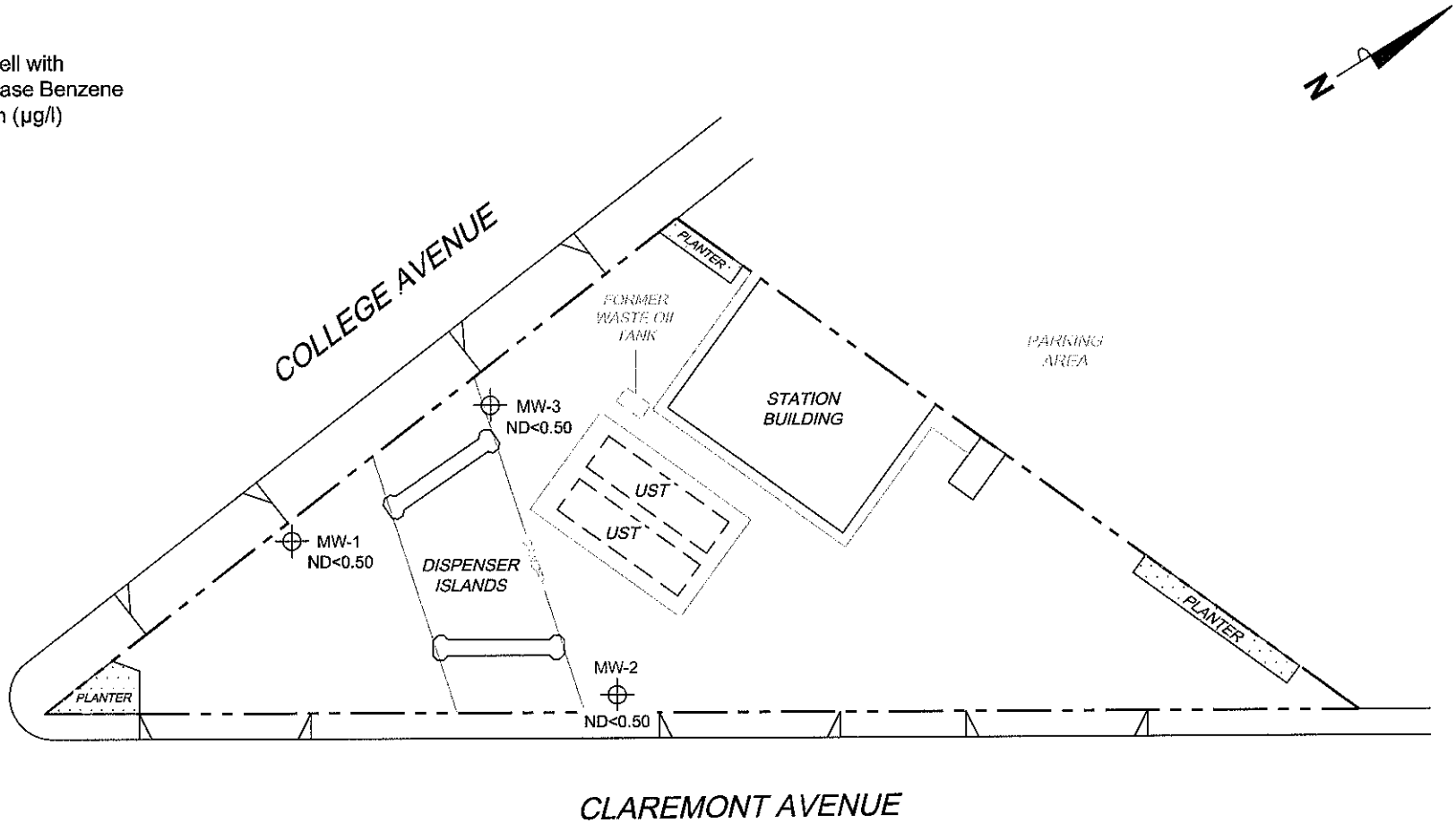
FACILITY:
76 STATION 0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

DISSOLVED-PHASE TPH-G (GC/MS) CONCENTRATION MAP
June 20, 2008

FIGURE 3

LEGEND

MW-3 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)



SCALE (FEET)

0 40

NOTES:

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

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76 STATION 0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

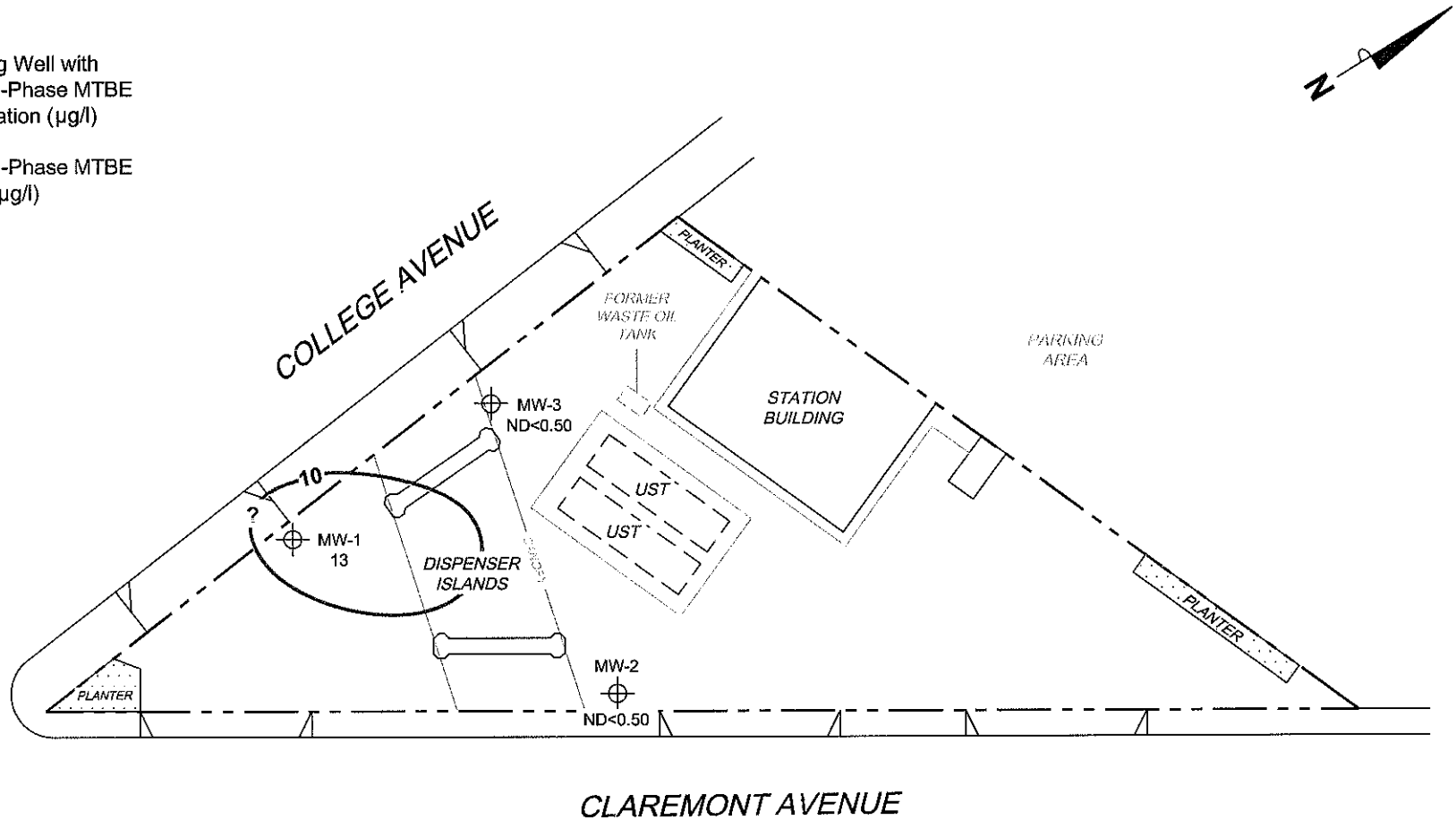
DISSOLVED-PHASE BENZENE CONCENTRATION MAP
June 20, 2008

FIGURE 4

LEGEND

MW-3 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

—10— Dissolved-Phase MTBE Contour (µg/l)



SCALE (FEET)

0 40

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.

TRC

PROJECT: 154771

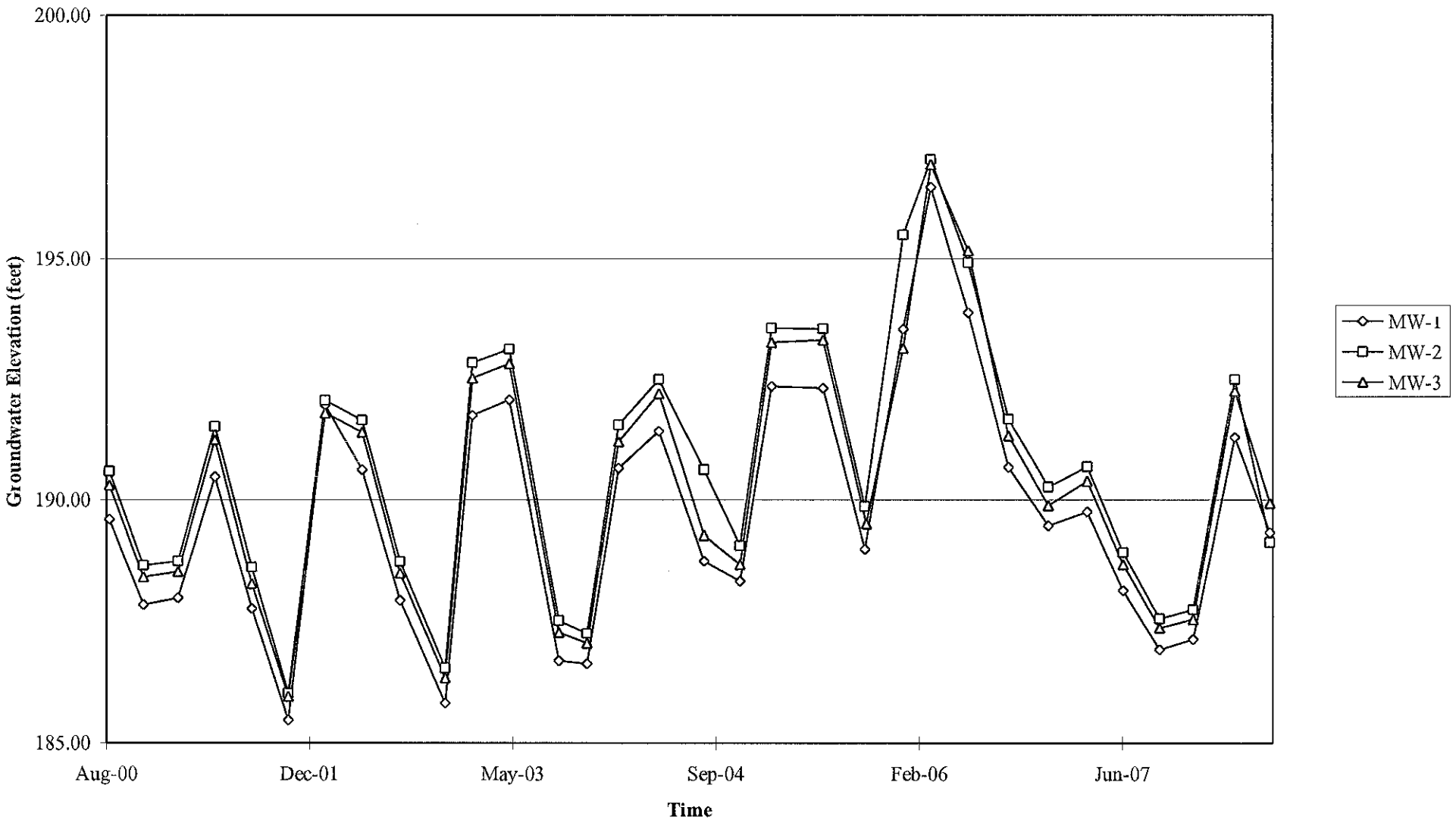
FACILITY:
76 STATION 0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

DISSOLVED-PHASE MTBE CONCENTRATION MAP
June 20, 2008

FIGURE 5

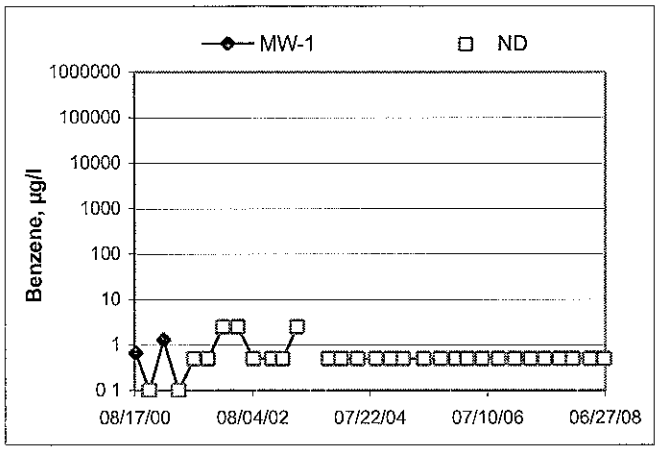
GRAPHS

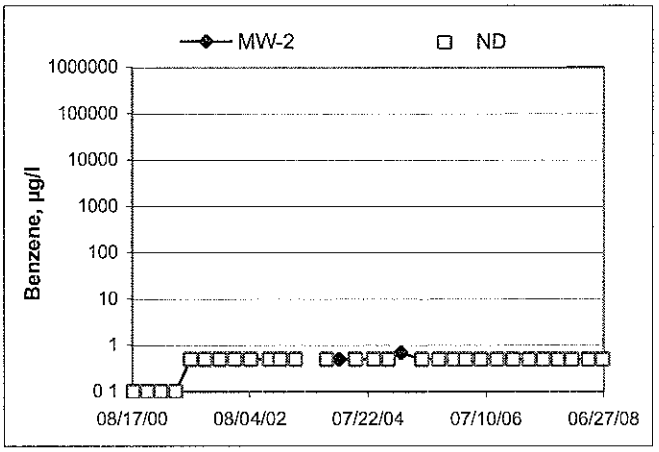
Groundwater Elevations vs. Time
76 Station 0018

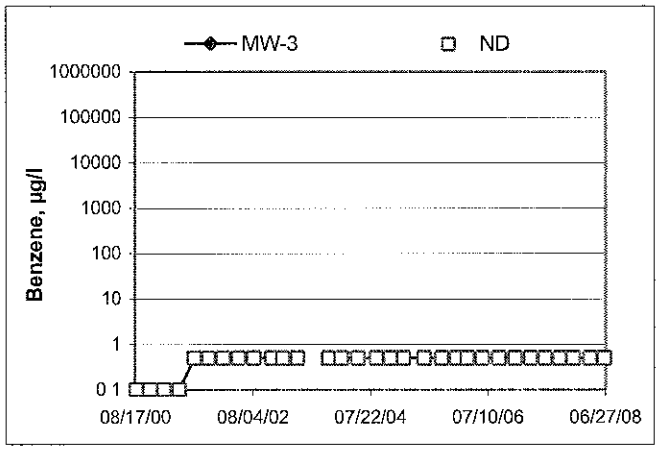


Elevations may have been corrected for apparent changes due to resurvey

Benzene Concentrations vs Time
76 Station 0018







GENERAL FIELD PROCEDURES

Groundwater Monitoring and Sampling Assignments

For each site, IRC 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 IRC'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. IRC 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: Ricky H Job #/Task #: 154771/FA20 Date: 6/20/08

Site # 0018 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-1	✓	0505	29.75	18.82	—	—	0622	2"
mw-2	✓	0508	29.55	21.13	—	—	0614	2"
mw-3	✓	0512	29.92	11.05	—	—	0558	2"

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

MANIFEST DRUM INVENTORY ✓ TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Ricky

Site: 0018 Project No : 154771 Date: 6/20/08

Well No. MW-1 Purge Method: Sub

Depth to Water (feet): 18.80 Depth to Product (feet): —

Total Depth (feet) 29.75 LPH & Water Recovered (gallons): —

Water Column (feet): 10.95 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 20.99 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
0531			2	683.2	20.0	7.40			
			4	688.8	20.0	6.63			
	0536		6	678.8	19.9	6.11			

Static at Time Sampled	Total Gallons Purged	Sample Time
19.03	6	0622

Comments:

Well No. MW-2 Purge Method: H.B.

Depth to Water (feet): 21.13 Depth to Product (feet): —

Total Depth (feet) 29.55 LPH & Water Recovered (gallons): —

Water Column (feet): 8.42 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 22.81 1 Well Volume (gallons): 1

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
0604			1	496.0	17.9	6.17			
			2	499.6	18.1	5.94			
	0610		3	494.4	18.1	5.85			

Static at Time Sampled	Total Gallons Purged	Sample Time
21.13	3	0614

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Ricky H

Site: 0018 Project No : 154771 Date: 6/20/08

Well No. mw-3 Purge Method: Sub

Depth to Water (feet): 19.05 Depth to Product (feet): —

Total Depth (feet) 29.95 LPH & Water Recovered (gallons): —

Water Column (feet): 10 87 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 21.22 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
0544			2	501.3	18.7	5 88			
			4	506.5	18.7	5.82			
	0549		6	514.2	18.7	5.79			

Static at Time Sampled	Total Gallons Purged	Sample Time
20.45	6	0558

Comments:

Well No. _____ Purge Method: _____

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

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

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

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

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conduc-tivity (uS/cm)	Temperature (F , C)	pH	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: 06/24/2008

Anju Farfan

TRC
21 Technology Drive
Irvine, CA 92618

RE: 0018
BC Work Order: 0808077

Enclosed are the results of analyses for samples received by the laboratory on 6/20/2008. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers
Contact Person: Molly Meyers
Client Service Rep

Steven Bennett
Authorized Signature

TRC 21 Technology Drive Irvine, CA 92618	Project: 0018 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 06/24/2008 16:12

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0808077-01	**COC Number:**	---	**Receive Date:**	06/20/2008 20:10	Delivery Work Order:
	Project Number:	0018	**Sampling Date:**	06/20/2008 06:22	Global ID: T0600102231
	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:
0808077-02	**COC Number:**	---	**Receive Date:**	06/20/2008 20:10	Delivery Work Order:
	Project Number:	0018	**Sampling Date:**	06/20/2008 06:14	Global ID: T0600102231
	Sampling Location:	MW-2	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-2	**Sample Matrix:**	Water	Sample QC Type (SACode): CS
	Sampled By:	TRCI			Cooler ID:
0808077-03	**COC Number:**	---	**Receive Date:**	06/20/2008 20:10	Delivery Work Order:
	Project Number:	0018	**Sampling Date:**	06/20/2008 05:58	Global ID: T0600102231
	Sampling Location:	MW-3	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-3	**Sample Matrix:**	Water	Sample QC Type (SACode): CS
	Sampled By:	TRCI			Cooler ID:

TRC
21 Technology Drive
Irvine, CA 92618

Project: 0018
Project Number: [none]
Project Manager: Anju Farfan

Reported: 06/24/2008 16:12

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0808077-01 | **Client Sample Name:** 0018, MW-1, MW-1, 6/20/2008 6:22:00AM

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	06/20/08	06/24/08 03:53	SDU	MS-V10	1	BRF1203	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/20/08	06/24/08 03:53	SDU	MS-V10	1	BRF1203	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/20/08	06/24/08 03:53	SDU	MS-V10	1	BRF1203	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/20/08	06/24/08 03:53	SDU	MS-V10	1	BRF1203	ND	
Methyl t-butyl ether	13	ug/L	0.50		EPA-8260	06/20/08	06/24/08 03:53	SDU	MS-V10	1	BRF1203	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/20/08	06/24/08 03:53	SDU	MS-V10	1	BRF1203	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/20/08	06/24/08 03:53	SDU	MS-V10	1	BRF1203	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	06/20/08	06/24/08 03:53	SDU	MS-V10	1	BRF1203	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/20/08	06/24/08 03:53	SDU	MS-V10	1	BRF1203	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/20/08	06/24/08 03:53	SDU	MS-V10	1	BRF1203	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/20/08	06/24/08 03:53	SDU	MS-V10	1	BRF1203	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/20/08	06/24/08 03:53	SDU	MS-V10	1	BRF1203	ND	
Total Purgeable Petroleum Hydrocarbons	100	ug/L	50		EPA-8260	06/20/08	06/24/08 03:53	SDU	MS-V10	1	BRF1203	ND	
1,2-Dichloroethane-d4 (Surrogate)	108	%	76 - 114 (LCL - UCL)		EPA-8260	06/20/08	06/24/08 03:53	SDU	MS-V10	1	BRF1203		
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)		EPA-8260	06/20/08	06/24/08 03:53	SDU	MS-V10	1	BRF1203		
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)		EPA-8260	06/20/08	06/24/08 03:53	SDU	MS-V10	1	BRF1203		

TRC 21 Technology Drive Irvine, CA 92618	Project: 0018 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 06/24/2008 16:12

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0808077-02 | **Client Sample Name:** 0018, MW-2, MW-2, 6/20/2008 6:14:00AM

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	06/20/08	06/24/08 04:11	SDU	MS-V10	1	BRF1203	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/20/08	06/24/08 04:11	SDU	MS-V10	1	BRF1203	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/20/08	06/24/08 04:11	SDU	MS-V10	1	BRF1203	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/20/08	06/24/08 04:11	SDU	MS-V10	1	BRF1203	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/20/08	06/24/08 04:11	SDU	MS-V10	1	BRF1203	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/20/08	06/24/08 04:11	SDU	MS-V10	1	BRF1203	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	06/20/08	06/24/08 04:11	SDU	MS-V10	1	BRF1203	ND	
1,2-Dichloroethane-d4 (Surrogate)	111	%	76 - 114	(LCL - UCL)	EPA-8260	06/20/08	06/24/08 04:11	SDU	MS-V10	1	BRF1203		
Toluene-d8 (Surrogate)	93.3	%	88 - 110	(LCL - UCL)	EPA-8260	06/20/08	06/24/08 04:11	SDU	MS-V10	1	BRF1203		
4-Bromofluorobenzene (Surrogate)	96.3	%	86 - 115	(LCL - UCL)	EPA-8260	06/20/08	06/24/08 04:11	SDU	MS-V10	1	BRF1203		

TRC 21 Technology Drive Irvine, CA 92618	Project: 0018 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 06/24/2008 16:12

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0808077-03 | **Client Sample Name:** 0018, MW-3, MW-3, 6/20/2008 5:58:00AM

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	06/20/08	06/24/08 04:29	SDU	MS-V10	1	BRF1203	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/20/08	06/24/08 04:29	SDU	MS-V10	1	BRF1203	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/20/08	06/24/08 04:29	SDU	MS-V10	1	BRF1203	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/20/08	06/24/08 04:29	SDU	MS-V10	1	BRF1203	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/20/08	06/24/08 04:29	SDU	MS-V10	1	BRF1203	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/20/08	06/24/08 04:29	SDU	MS-V10	1	BRF1203	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	06/20/08	06/24/08 04:29	SDU	MS-V10	1	BRF1203	ND	
1,2-Dichloroethane-d4 (Surrogate)	111	%	76 - 114	(LCL - UCL)	EPA-8260	06/20/08	06/24/08 04:29	SDU	MS-V10	1	BRF1203		
Toluene-d8 (Surrogate)	97.6	%	88 - 110	(LCL - UCL)	EPA-8260	06/20/08	06/24/08 04:29	SDU	MS-V10	1	BRF1203		
4-Bromofluorobenzene (Surrogate)	93.4	%	86 - 115	(LCL - UCL)	EPA-8260	06/20/08	06/24/08 04:29	SDU	MS-V10	1	BRF1203		

TRC
21 Technology Drive
Irvine, CA 92618

Project: 0018
Project Number: [none]
Project Manager: Anju Farfan

Reported: 06/24/2008 16:12

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	BRF1203	Matrix Spike	0807955-03	0	24.780	25.000	ug/L		99.1		70 - 130	
		Matrix Spike Duplicate	0807955-03	0	27.140	25.000	ug/L	9.5	109	20	70 - 130	
Toluene	BRF1203	Matrix Spike	0807955-03	0	23.260	25.000	ug/L		93.0		70 - 130	
		Matrix Spike Duplicate	0807955-03	0	25.940	25.000	ug/L	11.2	104	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BRF1203	Matrix Spike	0807955-03	ND	10.410	10.000	ug/L		104		76 - 114	
		Matrix Spike Duplicate	0807955-03	ND	10.620	10.000	ug/L		106		76 - 114	
Toluene-d8 (Surrogate)	BRF1203	Matrix Spike	0807955-03	ND	9.9200	10.000	ug/L		99.2		88 - 110	
		Matrix Spike Duplicate	0807955-03	ND	9.8700	10.000	ug/L		98.7		88 - 110	
4-Bromofluorobenzene (Surrogate)	BRF1203	Matrix Spike	0807955-03	ND	9.6300	10.000	ug/L		96.3		86 - 115	
		Matrix Spike Duplicate	0807955-03	ND	9.9500	10.000	ug/L		99.5		86 - 115	

TRC 21 Technology Drive Irvine, CA 92618	Project: 0018 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 06/24/2008 16:12

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	BRF1203	BRF1203-BS1	LCS	26.470	25.000	0.50	ug/L	106		70 - 130		
Toluene	BRF1203	BRF1203-BS1	LCS	27.020	25.000	0.50	ug/L	108		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BRF1203	BRF1203-BS1	LCS	10.280	10.000		ug/L	103		76 - 114		
Toluene-d8 (Surrogate)	BRF1203	BRF1203-BS1	LCS	10.160	10.000		ug/L	102		88 - 110		
4-Bromofluorobenzene (Surrogate)	BRF1203	BRF1203-BS1	LCS	9.8100	10.000		ug/L	98.1		86 - 115		

TRC 21 Technology Drive Irvine, CA 92618	Project: 0018 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 06/24/2008 16:12

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	BRF1203	BRF1203-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BRF1203	BRF1203-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BRF1203	BRF1203-BLK1	ND	ug/L	0.50		
Ethylbenzene	BRF1203	BRF1203-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BRF1203	BRF1203-BLK1	ND	ug/L	0.50		
Toluene	BRF1203	BRF1203-BLK1	ND	ug/L	0.50		
Total Xylenes	BRF1203	BRF1203-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BRF1203	BRF1203-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BRF1203	BRF1203-BLK1	ND	ug/L	10		
Diisopropyl ether	BRF1203	BRF1203-BLK1	ND	ug/L	0.50		
Ethanol	BRF1203	BRF1203-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BRF1203	BRF1203-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BRF1203	BRF1203-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BRF1203	BRF1203-BLK1	103	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BRF1203	BRF1203-BLK1	101	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BRF1203	BRF1203-BLK1	98.7	%	86 - 115 (LCL - UCL)		

TRC 21 Technology Drive Irvine, CA 92618	Project: 0018 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 06/24/2008 16:12

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

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

Submission #08-8077 | 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 Emissivity .97
Temperature: 2.7/3.2 °C Container Qt A
Thermometer ID: 48

Date/Time 6/20/8 2010
Analyst Init ALM

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	A 3	A 3	A 3	( )	( )	( )	( )	( )	( )	( )
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: ALM Date/Time: 6/20/8 2020
A = Actual / C = Corrected

BC LABORATORIES, INC.

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

CHAIN OF CUSTODY

08-8077

Analysis Requested

Bill to: Conoco Phillips/ TRC	**Consultant Firm: TRC**
Address: 6201 Claremont AV	21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan
City: OAKLAND	**4-digit site#:** 0018 **Workorder #** 01062-4509118496
State: CA **Zip:**	**Project #:** 154771
Conoco Phillips Mgr: B. Borgh	**Sampler Name:** Ricky H

MATRIX
(GW) Groundwater
(S) Soil
(WW) Wastewater
(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	EDC/EDB by 8260B		Turnaround Time Requested
	-1	mw-1	6/20/08 0622	GW					X	X	X		X		STD
	-2	mw-2	0614									X			
	-3	mw-3	0558												

CHK BY JW

DISTRIBUTION SUB-OUT

Comments:

GLOBAL ID: T0600102231

Relinquished by: (Signature)	Received by:	Date & Time
		6/20/08 R10
Relinquished by: (Signature) 6/20/8	Received by:	Date & Time 6.20.08 1535
Relinquished by: (Signature) 6-20-08 2010	Received by:	Date & Time 6-20-8 2010

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.

21 Technology Drive
Irvine, CA 92618

949.727.9336 PHONE
949.727 7399 FAX

www.TRCsolutions.com

DATE: October 13, 2008

TO: ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

ATTN: MR. TERRY GRAYSON

SITE: 76 STATION 0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
JULY THROUGH SEPTEMBER 2008

Dear Mr. Grayson:

Please find enclosed our Quarterly Monitoring Report for 76 Station 0018, located at 6201 Claremont Avenue, 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 (4 copies)

Enclosures
20-0400/0018R20 QMS

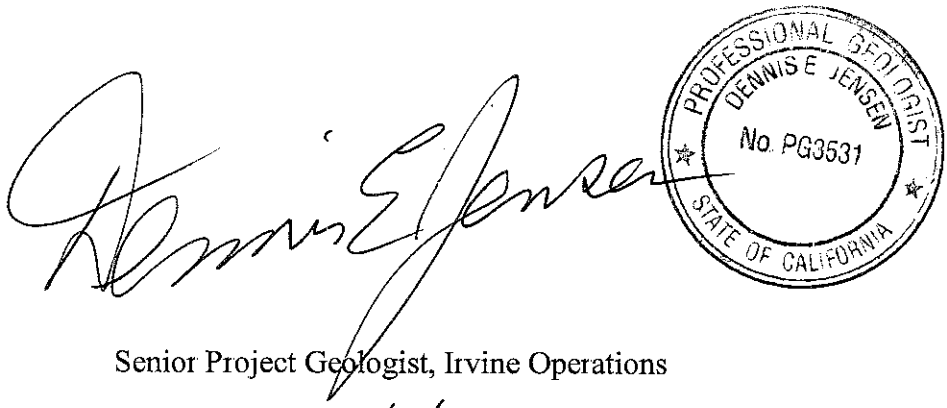
QUARTERLY MONITORING REPORT
JULY THROUGH SEPTEMBER 2008

76 STATION 0018
6201 Claremont Avenue
Oakland, California

Prepared For:

Mr. Terry Grayson
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, California 95818

By:



Senior Project Geologist, Irvine Operations

Date: 10/11/08

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 – 09/19/08 Groundwater Sampling Field Notes – 09/19/08
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities
July 2008 through September 2008
76 Station 0018
6201 Claremont Avenue
Oakland, CA

Project Coordinator: **Terry Grayson**
Telephone: **916-558-7666**
Water Sampling Contractor: ***TRC***
Compiled by: **Christina Carrillo**
Date(s) of Gauging/Sampling Event: **09/19/08**

Sample Points

Groundwater wells: **3** onsite, **0** offsite Points gauged: **3** Points sampled: **3**
Purging method: **Submersible pump**
Purge water disposal: **Veolia/Rodeo Unit 100**
Other Sample Points: **0** Type: --

Liquid Phase Hydrocarbons (LPH)

Sample Points with LPH: **0** Maximum thickness (feet): --
LPH removal frequency: -- Method: --
Treatment or disposal of water/LPH: --

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **21.11 feet** Maximum: **22.62 feet**
Average groundwater elevation (relative to available local datum): **187.39 feet**
Average change in groundwater elevation since previous event: **-2.07 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.01 ft/ft, southwest**
Previous event: **0.01 ft/ft, southeast (06/20/08)**

Selected Laboratory Results

Sample Points with detected **Benzene:** **0** Sample Points above MCL (1.0 µg/l): --
Maximum reported benzene concentration: --

Sample Points with **TPH-G by GC/MS** **1** Maximum: **63 µg/l (MW-1)**
Sample Points with **MTBE 8260B** **1** Maximum: **12 µg/l (MW-1)**

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)

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 0018 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 0018

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)
Table 1a	Well/ Date	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME					

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)
Table 2a	Well/ Date	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME					

Table 1

CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

September 19, 2008

76 Station 0018

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: 10.0-30.0)**											
09/19/08	208.15	21.11	0.00	187.04	-2.29	--	63	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	12	
MW-2			**(Screen Interval in feet: 10.0-30.0)**											
09/19/08	210.27	22.62	0.00	187.65	-1.49	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-3			**(Screen Interval in feet: 10.0-30.0)**											
09/19/08	208.98	21.49	0.00	187.49	-2.44	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

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Table 1 a
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 0018

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-1							
09/19/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2							
09/19/08	--	ND<250	--	--	--	--	--
MW-3							
09/19/08	--	ND<250	--	--	--	--	--

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Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
August 2000 Through September 2008
76 Station 0018

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: 10.0-30.0)**											
08/24/00	208.15	18.55	0.00	189.60	--	120	--	0.67	ND	0.86	1.4	54	54	
11/16/00	208.15	20.30	0.00	187.85	-1.75	169	--	ND	1.20	1.74	0.629	68.6	97.7	
02/09/01	208.15	20.16	0.00	187.99	0.14	330	--	1.3	ND	1.0	4.6	140	150	
05/11/01	208.15	17.68	0.00	190.47	2.48	1250	--	ND	ND	ND	ND	145	122	
08/10/01	208.15	20.38	0.00	187.77	-2.70	580	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	110	150	
11/07/01	208.15	22.68	0.00	185.47	-2.30	250	--	ND<0.50	1.5	ND<0.50	ND<0.50	120	100	
02/06/02	208.15	16.20	0.00	191.95	6.48	790	--	ND<2.5	12	8.8	ND<2.5	90	72	
05/08/02	208.15	17.54	0.00	190.61	-1.34	890	--	ND<2.5	ND<2.5	ND<2.5	ND<2.5	78	81	
08/09/02	208.15	20.21	0.00	187.94	-2.67	--	450	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	100	
11/29/02	208.15	22.33	0.00	185.82	-2.12	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	72	
02/03/03	208.15	16.41	0.00	191.74	5.92	--	540	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	40	
05/05/03	208.15	16.09	0.00	192.06	0.32	--	670	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	57	
09/04/03	208.15	21.46	0.00	186.69	-5.37	--	--	--	--	--	--	--	--	No analysis; past holding time
11/13/03	208.15	21.52	0.00	186.63	-0.06	--	97	ND<0.50	5.0	0.82	3.5	--	29	
01/29/04	208.15	17.51	0.00	190.64	4.01	--	520	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	44	
05/07/04	208.15	16.74	0.00	191.41	0.77	--	180	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	25	
08/27/04	208.15	19.40	0.00	188.75	-2.66	--	100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	21	
11/23/04	208.15	19.82	0.00	188.33	-0.42	--	410	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	45	
02/09/05	208.15	15.81	0.00	192.34	4.01	--	5700	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	40	
06/16/05	208.15	15.85	0.00	192.30	-0.04	--	200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	24	
09/27/05	208.15	19.15	0.00	189.00	-3.30	--	300	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	19	
12/30/05	208.15	14.62	0.00	193.53	4.53	--	68	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	12	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

August 2000 Through September 2008

76 Station 0018

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														
03/08/06	208.15	11.69	0.00	196.46	2.93	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	21	
06/08/06	208.15	14.28	0.00	193.87	-2.59	--	66	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	16	
09/15/06	208.15	17.49	0.00	190.66	-3.21	--	96	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	6.1	
12/22/06	208.15	18.68	0.00	189.47	-1.19	--	570	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	18	
03/28/07	208.15	18.40	0.00	189.75	0.28	--	190	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	18	
06/25/07	208.15	20.01	0.00	188.14	-1.61	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	4.2	
09/22/07	208.15	21.23	0.00	186.92	-1.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	14	
12/14/07	208.15	21.02	0.00	187.13	0.21	--	76	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	16	
03/26/08	208.15	16.87	0.00	191.28	4.15	--	230	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	18	
06/20/08	208.15	18.82	0.00	189.33	-1.95	--	100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	13	
09/19/08	208.15	21.11	0.00	187.04	-2.29	--	63	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	12	
MW-2			**(Screen Interval in feet: 10.0-30.0)**											
08/24/00	210.27	19.69	0.00	190.58	--	ND	--	ND	ND	ND	ND	ND	ND	
11/16/00	210.27	21.61	0.00	188.66	-1.92	ND	--	ND	ND	ND	ND	ND	ND	
02/09/01	210.27	21.52	0.00	188.75	0.09	ND	--	ND	ND	ND	ND	ND	ND	
05/11/01	210.27	18.76	0.00	191.51	2.76	ND	--	ND	ND	ND	ND	ND	ND	
08/10/01	210.27	21.65	0.00	188.62	-2.89	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
11/07/01	210.27	24.25	0.00	186.02	-2.60	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0	
02/06/02	210.27	18.22	0.00	192.05	6.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
05/08/02	210.27	18.63	0.00	191.64	-0.41	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
08/09/02	210.27	21.53	0.00	188.74	-2.90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
11/29/02	210.27	23.73	0.00	186.54	-2.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
02/03/03	210.27	17.43	0.00	192.84	6.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	

TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

August 2000 Through September 2008

76 Station 0018

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														
05/05/03	210.27	17.15	0.00	193.12	0.28	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
09/04/03	210.27	22.75	0.00	187.52	-5.60	--	--	--	--	--	--	--	--	No analysis; past holding time
11/13/03	210.27	23.02	0.00	187.25	-0.27	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
01/29/04	210.27	18.73	0.00	191.54	4.29	--	ND<50	0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
05/07/04	210.27	17.79	0.00	192.48	0.94	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
08/27/04	210.27	19.66	0.00	190.61	-1.87	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/23/04	210.27	21.20	0.00	189.07	-1.54	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
02/09/05	210.27	16.72	0.00	193.55	4.48	--	ND<50	0.69	1.5	ND<0.50	1.4	--	ND<0.50	
06/16/05	210.27	16.73	0.00	193.54	-0.01	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/27/05	210.27	20.41	0.00	189.86	-3.68	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/30/05	210.27	14.79	0.00	195.48	5.62	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/08/06	210.27	13.25	0.00	197.02	1.54	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/08/06	210.27	15.36	0.00	194.91	-2.11	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/15/06	210.27	18.61	0.00	191.66	-3.25	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/22/06	210.27	20.01	0.00	190.26	-1.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
03/28/07	210.27	19.60	0.00	190.67	0.41	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
06/25/07	210.27	21.34	0.00	188.93	-1.74	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
09/22/07	210.27	22.71	0.00	187.56	-1.37	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/14/07	210.27	22.52	0.00	187.75	0.19	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/26/08	210.27	17.79	0.00	192.48	4.73	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/20/08	210.27	21.13	0.00	189.14	-3.34	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/19/08	210.27	22.62	0.00	187.65	-1.49	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

MW-3 **(Screen Interval in feet: 10.0-30.0)**

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

August 2000 Through September 2008

76 Station 0018

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														
08/24/00	208.98	18.68	0.00	190.30	--	ND	--	ND	ND	ND	ND	4.7	2.3	
11/16/00	208.98	20.56	0.00	188.42	-1.88	ND	--	ND	ND	ND	ND	ND	ND	
02/09/01	208.98	20.45	0.00	188.53	0.11	ND	--	ND	ND	ND	ND	ND	ND	
05/11/01	208.98	17.75	0.00	191.23	2.70	ND	--	ND	ND	ND	ND	ND	ND	
08/10/01	208.98	20.70	0.00	188.28	-2.95	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
11/07/01	208.98	23.02	0.00	185.96	-2.32	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	1.5	
02/06/02	208.98	17.19	0.00	191.79	5.83	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
05/08/02	208.98	17.59	0.00	191.39	-0.40	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
08/09/02	208.98	20.48	0.00	188.50	-2.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
11/29/02	208.98	22.64	0.00	186.34	-2.16	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
02/03/03	208.98	16.46	0.00	192.52	6.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
05/05/03	208.98	16.16	0.00	192.82	0.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.6	
09/04/03	208.98	21.71	0.00	187.27	-5.55	--	--	--	--	--	--	--	--	No analysis; past holding time
11/13/03	208.98	21.93	0.00	187.05	-0.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
01/29/04	208.98	17.79	0.00	191.19	4.14	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
05/07/04	208.98	16.79	0.00	192.19	1.00	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.55	
08/27/04	208.98	19.70	0.00	189.28	-2.91	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/23/04	208.98	20.30	0.00	188.68	-0.60	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
02/09/05	208.98	15.72	0.00	193.26	4.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.6	
06/16/05	208.98	15.67	0.00	193.31	0.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/30/05	208.98	19.47	0.00	189.51	-3.80	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	9/27/05 samples broke during shipment.
12/30/05	208.98	15.84	0.00	193.14	3.63	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

August 2000 Through September 2008

76 Station 0018

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														
03/08/06	208.98	12.06	0.00	196.92	3.78	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/08/06	208.98	13.82	0.00	195.16	-1.76	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/15/06	208.98	17.67	0.00	191.31	-3.85	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	3.4	
12/22/06	208.98	19.10	0.00	189.88	-1.43	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
03/28/07	208.98	18.60	0.00	190.38	0.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
06/25/07	208.98	20.30	0.00	188.68	-1.70	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
09/22/07	208.98	21.61	0.00	187.37	-1.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/14/07	208.98	21.43	0.00	187.55	0.18	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
03/26/08	208.98	16.74	0.00	192.24	4.69	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
06/20/08	208.98	19.05	0.00	189.93	-2.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
09/19/08	208.98	21.49	0.00	187.49	-2.44	--	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 0018

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-1							
08/24/00	ND	ND	--	--	ND	ND	ND
11/16/00	ND	ND	--	--	ND	ND	ND
02/09/01	ND	ND	ND	ND	ND	ND	ND
05/11/01	ND	ND	ND	ND	ND	ND	ND
08/10/01	ND<100	ND<1000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
11/07/01	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
02/06/02	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
05/08/02	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
08/09/02	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
11/29/02	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
02/03/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
05/05/03	ND<500	ND<2500	ND<10	ND<10	ND<10	ND<10	ND<10
11/13/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
01/29/04	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
05/07/04	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
08/27/04	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
11/23/04	7.5	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
02/09/05	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
06/16/05	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
09/27/05	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
12/30/05	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
03/08/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
06/08/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
09/15/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
12/22/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 0018

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-1 continued							
03/28/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
06/25/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
09/22/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
12/14/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
03/26/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
06/20/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
09/19/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2							
08/24/00	ND	ND	--	--	ND	ND	ND
11/16/00	ND	ND	--	--	ND	ND	ND
02/09/01	ND	ND	ND	ND	ND	ND	ND
05/11/01	ND	ND	ND	ND	ND	ND	ND
08/10/01	ND<100	ND<1000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
11/07/01	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
11/13/03	--	ND<500	--	--	--	--	--
01/29/04	--	ND<500	--	--	--	--	--
05/07/04	--	ND<50	--	--	--	--	--
08/27/04	--	ND<50	--	--	--	--	--
11/23/04	--	ND<50	--	--	--	--	--
02/09/05	--	ND<50	--	--	--	--	--
06/16/05	--	ND<50	--	--	--	--	--
09/27/05	--	ND<250	--	--	--	--	--
12/30/05	--	ND<250	--	--	--	--	--
03/08/06	--	ND<250	--	--	--	--	--
06/08/06	--	ND<250	--	--	--	--	--

TRC

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 0018

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-2 continued							
09/15/06	--	ND<250	--	--	--	--	--
12/22/06	--	ND<250	--	--	--	--	--
03/28/07	--	ND<250	--	--	--	--	--
06/25/07	--	ND<250	--	--	--	--	--
09/22/07	--	ND<250	--	--	--	--	--
12/14/07	--	ND<250	--	--	--	--	--
03/26/08	--	ND<250	--	--	--	--	--
06/20/08	--	ND<250	--	--	--	--	--
09/19/08	--	ND<250	--	--	--	--	--
MW-3							
08/24/00	ND	ND	--	--	ND	ND	ND
11/16/00	ND	ND	--	--	ND	ND	ND
02/09/01	ND	ND	ND	ND	ND	ND	ND
05/11/01	ND	ND	ND	ND	ND	ND	ND
08/10/01	ND<100	ND<1000000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
11/07/01	ND<20	ND<500000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
08/09/02	--	--	ND	ND	--	--	--
11/29/02	--	--	ND	ND	--	--	--
02/03/03	--	--	ND<2.0	ND<2.0	--	--	--
05/05/03	--	--	ND<1.0	ND<1.0	--	--	--
11/13/03	--	ND<500	--	--	--	--	--
01/29/04	--	ND<500	--	--	--	--	--
05/07/04	--	ND<50	--	--	--	--	--
08/27/04	--	ND<50	--	--	--	--	--
11/23/04	--	ND<50	--	--	--	--	--

TRC

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 0018

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
MW-3 continued							
02/09/05	--	ND<50	--	--	--	--	--
06/16/05	--	ND<50	--	--	--	--	--
09/30/05	--	ND<250	--	--	--	--	--
12/30/05	--	ND<250	--	--	--	--	--
03/08/06	--	ND<250	--	--	--	--	--
06/08/06	--	ND<250	--	--	--	--	--
09/15/06	--	ND<250	--	--	--	--	--
12/22/06	--	ND<250	--	--	--	--	--
03/28/07	--	ND<250	--	--	--	--	--
06/25/07	--	ND<250	--	--	--	--	--
09/22/07	--	ND<250	--	--	--	--	--
12/14/07	--	ND<250	--	--	--	--	--
03/26/08	--	ND<250	--	--	--	--	--
06/20/08	--	ND<250	--	--	--	--	--
09/19/08	--	ND<250	--	--	--	--	--

FIGURES

N

SOURCE:

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

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

SCALE 1:24,000

TRC

PROJECT: 154771

FACILITY:

76 STATION 0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

VICINITY MAP

FIGURE 1

PS=1:1 L:\QMS VICINITY MAPS\0018VM.DWG Oct 06, 2008 - 10:53am bschmidt

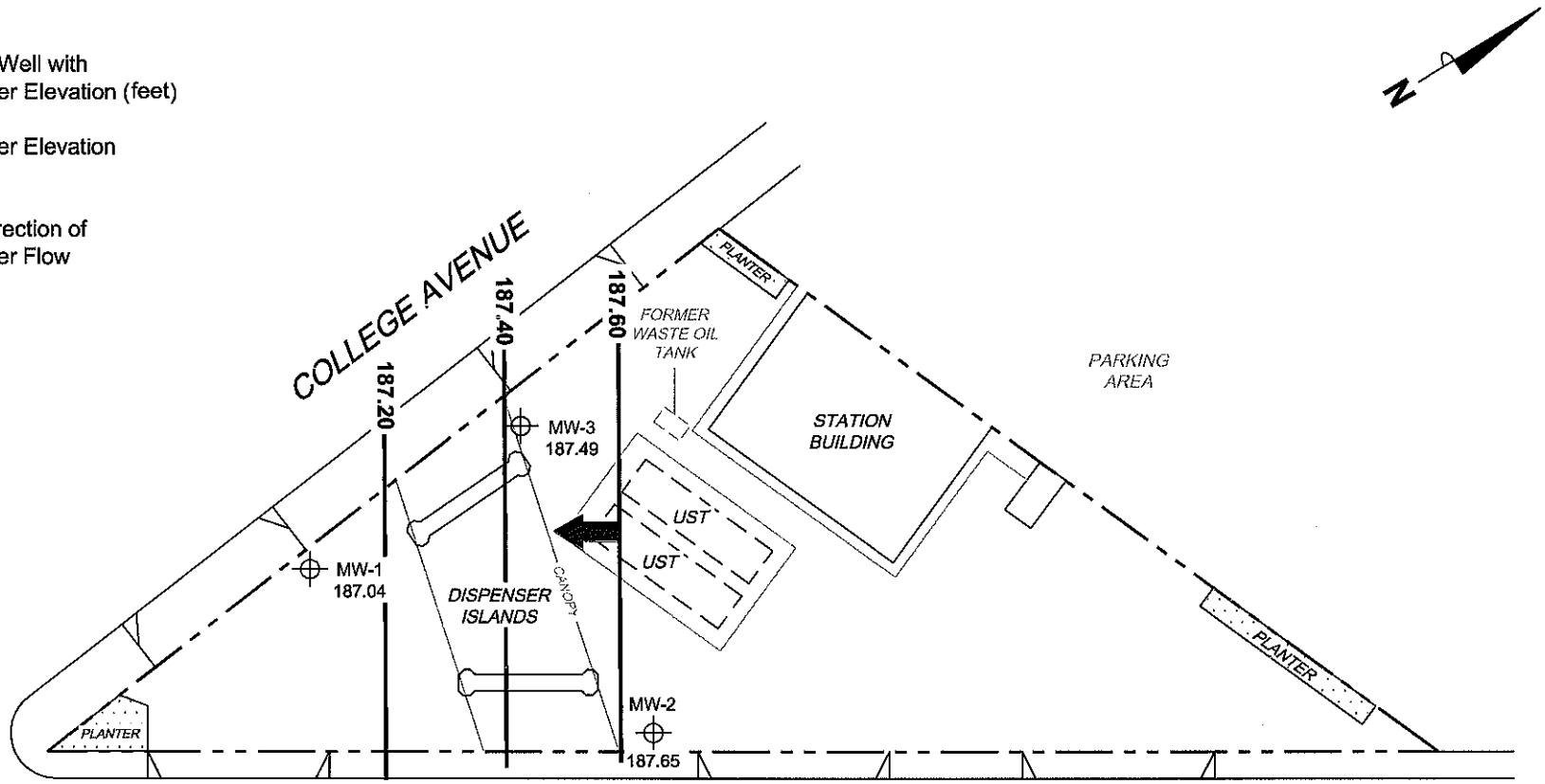
MS=1:40 0018-003 L:\Graphics\QMS NORTH-SOUTH\x-0000\0018+\0018-QMS-(NEW).DWG Oct 09, 2008 - 4:52pm bschmidt

LEGEND

MW-3 ⊕ Monitoring Well with Groundwater Elevation (feet)

187.60 — Groundwater Elevation Contour

➡ General Direction of Groundwater Flow



SCALE (FEET)

0 40

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.

TRC

PROJECT: 154771

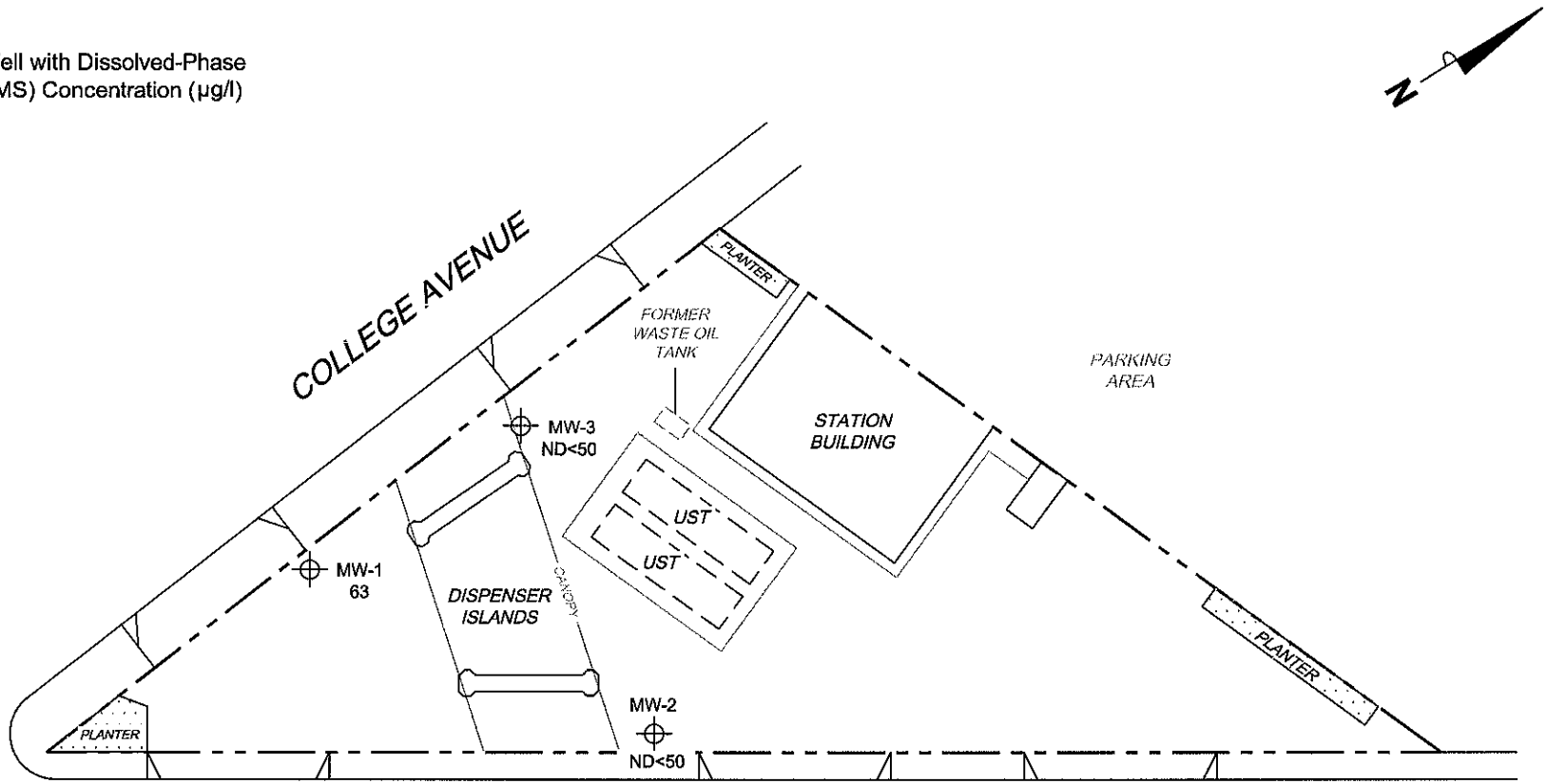
FACILITY:
76 STATION 0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP
September 19, 2008

FIGURE 2

LEGEND

MW-3 ⊕ Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration (µg/l)



SCALE (FEET)

0 40

NOTES:

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.

TRC

PROJECT: 154771

FACILITY:
76 STATION 0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

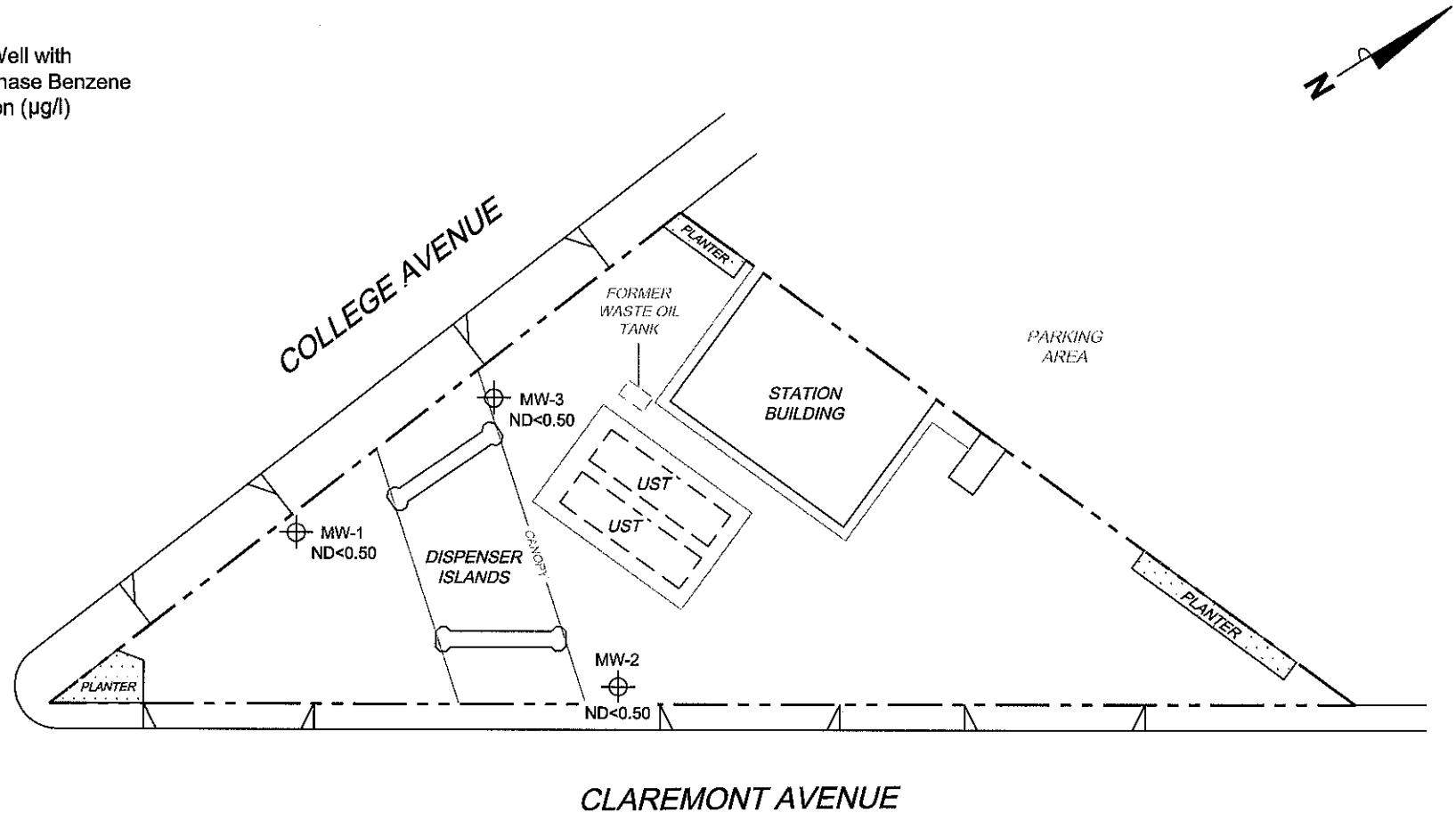
DISSOLVED-PHASE TPH-G (GC/MS) CONCENTRATION MAP
September 19, 2008

FIGURE 3

MS=1:40 0018-003 L:\Graphics\QMS NORTH-SOUTH\x-0000\0018+\0018-QMS-(NEW).DWG Oct 09, 2008 - 4:47pm bschmidt

LEGEND

MW-3 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)



SCALE (FEET)

0 40

NOTES:

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

TRC

PROJECT: 154771

FACILITY:
76 STATION 0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
September 19, 2008

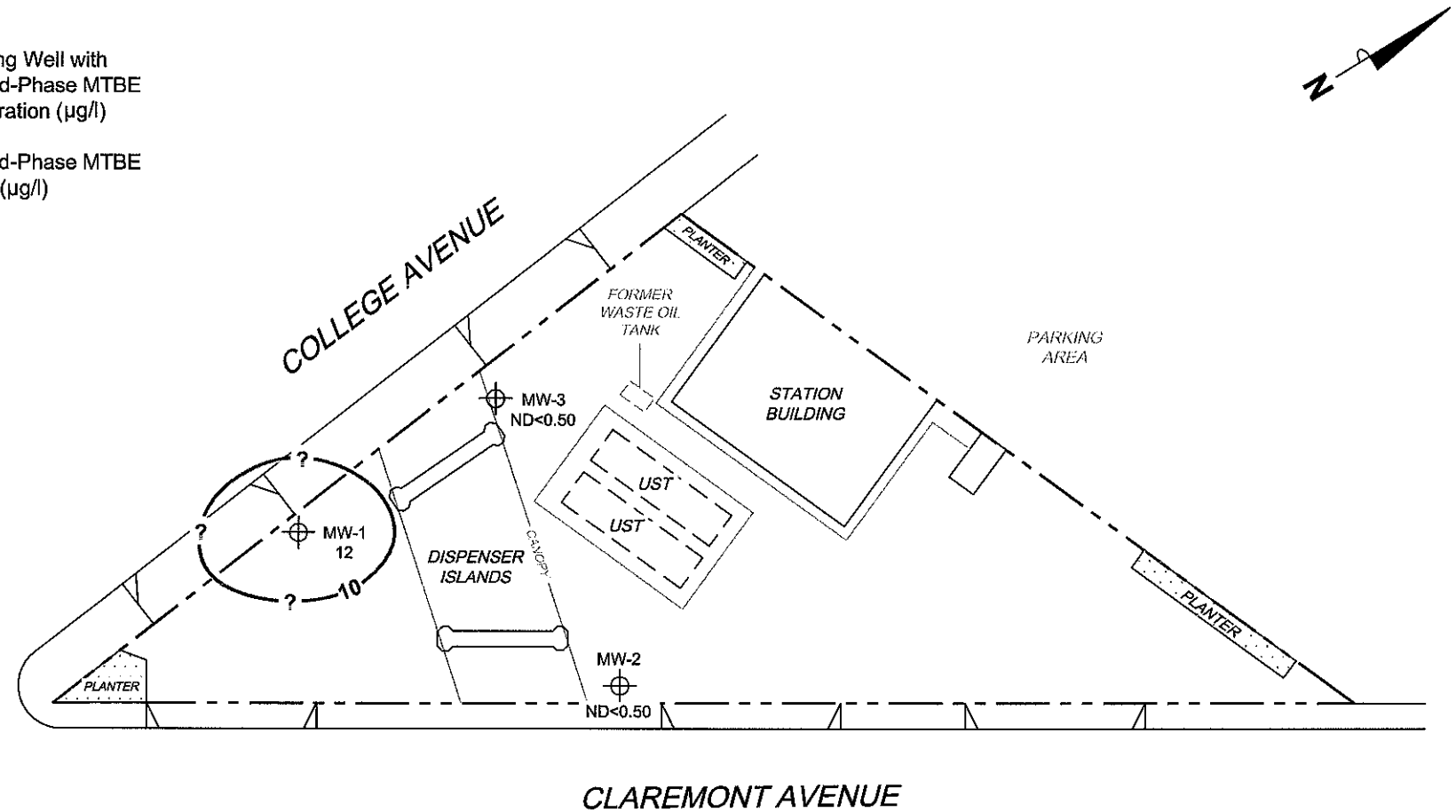
FIGURE 4

MS=1:40 0018-003 L:\Graphics\QMS NORTH-SOUTH\x-0000\0018+\0018-QMS-(NEW).DWG Oct 09, 2008 - 4:49pm bschmidt

LEGEND

MW-3 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

10 Dissolved-Phase MTBE Contour (µg/l)



SCALE (FEET)

0 40

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.

TRC

PROJECT: 154771

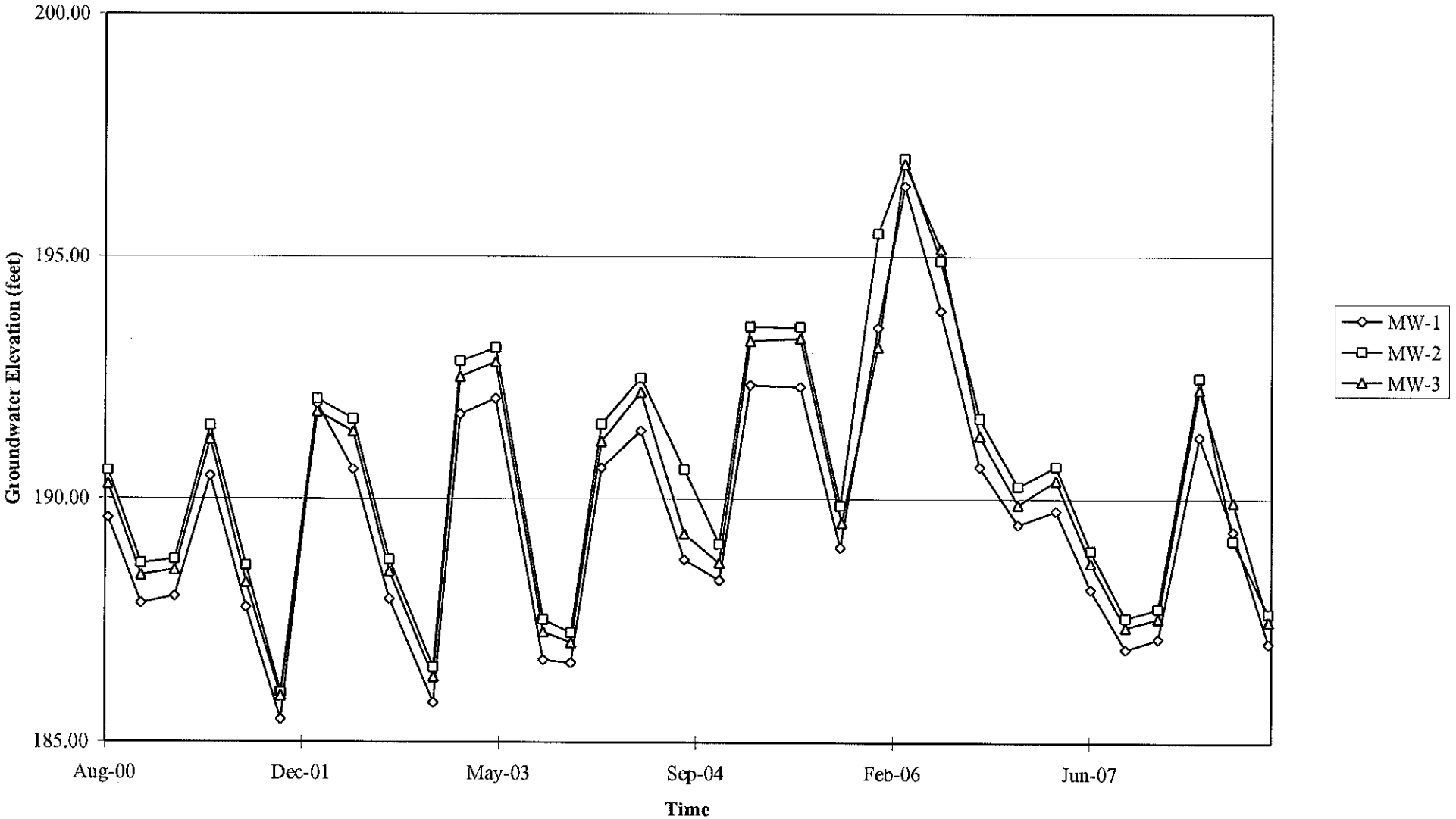
FACILITY:
76 STATION 0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

DISSOLVED-PHASE MTBE CONCENTRATION MAP
September 19, 2008

FIGURE 5

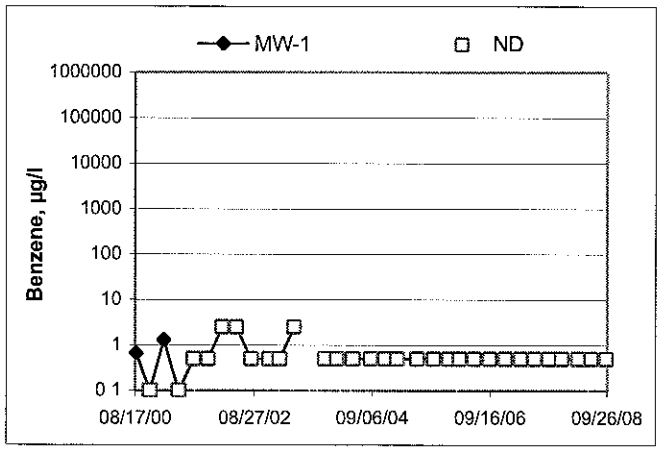
GRAPHS

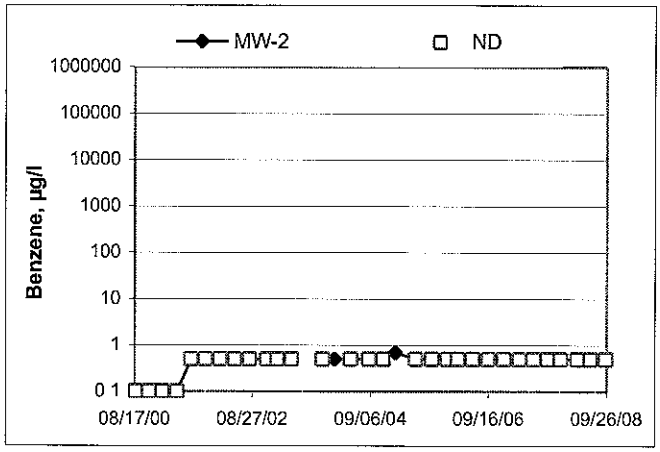
Groundwater Elevations vs. Time
76 Station 0018

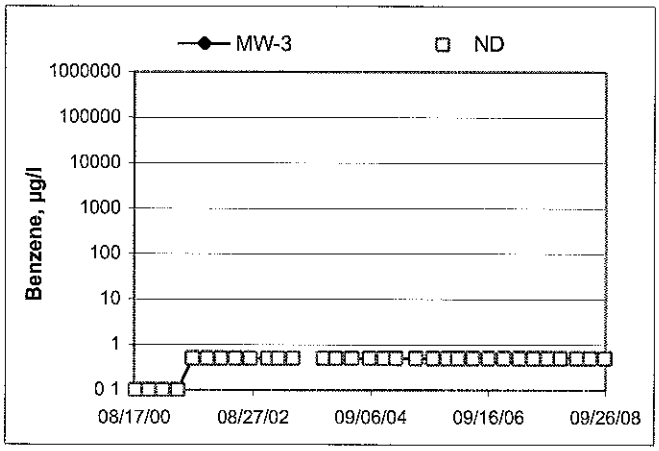


Elevations may have been corrected for apparent changes due to resurvey

Benzene Concentrations vs Time
76 Station 0018







GENERAL FIELD PROCEDURES

Groundwater Monitoring and Sampling Assignments

For each site, IRC 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 IRC'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. IRC 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: Ricky H. Job #/Task #: 154771/PA20 Date: 9/19/08

Site # 0018 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-1	X	0510	29.73	21.11	—	—	0633	2"
mw-3	X	0516	30.18	21.49	—	—	0640	2"
mw-2	X	0520	29.54	22.62	—	—	0622	2"

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

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Ricky H.

Site: 0018 Project No.: 154771 Date: 9/19/08

Well No. MW-1 Purge Method: SWB

Depth to Water (feet): 21.11 Depth to Product (feet): —

Total Depth (feet) 29.73 LPH & Water Recovered (gallons): —

Water Column (feet): 8.62 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 22.83 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	DO (mg/L)	ORP	Turbidity
0542			2	609.3	14.00	7.32			
			4	679.5	15.1	6.79			
	0548		6	665.1	17.1	6.49			

Static at Time Sampled	Total Gallons Purged	Sample Time
21.25	6	0633

Comments:

Well No. MW-3 Purge Method: SWB

Depth to Water (feet): 21.49 Depth to Product (feet): —

Total Depth (feet) 30.18 LPH & Water Recovered (gallons): —

Water Column (feet): 8.69 Casing Diameter (Inches): 2" —

80% Recharge Depth(feet): 23.23 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	DO (mg/L)	ORP	Turbidity
0555			2	551.9	16.7	6.23			
			4	499.8	17.3	6.16			
	~~0600~~		6	497.1	~~15~~ 17.5	~~6.12~~			
	0601					6.12			

Static at Time Sampled	Total Gallons Purged	Sample Time
21.53	6	0640

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Ricky H.

Site: 0018 Project No.: 154771 Date: 9/19/05

Well No. MW-2 Purge Method: Sub

Depth to Water (feet): 22.62 Depth to Product (feet): —

Total Depth (feet) 29.54 LPH & Water Recovered (gallons): —

Water Column (feet): 6.92 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 24.00 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
0608			2	~~4.9~~ 496.7	16.2	6.03			
			4	494.7	17.0	5.99			
	0614		6	493.7	17.3	5.97			

Static at Time Sampled	Total Gallons Purged	Sample Time
22.69	6	0622

Comments:

Well No. Purge Method:

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

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

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

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

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (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: 09/30/2008

Anju Farfan

TRC
21 Technology Drive
Irvine, CA 92618

RE: 0018
BC Work Order: 0812495

Enclosed are the results of analyses for samples received by the laboratory on 9/19/2008. 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: 0018 Project Number: Inonel Project Manager: Anju Fartan	**Reported:** 09/30/2008 12:29

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0812495-01	**COC Number:**	---	**Receive Date:**	09/19/2008 19:15	Delivery Work Order:
	Project Number:	0018	**Sampling Date:**	09/19/2008 06:33	Global ID: T0600102231
	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:
0812495-02	**COC Number:**	---	**Receive Date:**	09/19/2008 19:15	Delivery Work Order:
	Project Number:	0018	**Sampling Date:**	09/19/2008 06:40	Global ID: T0600102231
	Sampling Location:	MW-3	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-3	**Sample Matrix:**	Water	Sample QC Type (SACode): CS
	Sampled By:	TRCI			Cooler ID:
0812495-03	**COC Number:**	---	**Receive Date:**	09/19/2008 19:15	Delivery Work Order:
	Project Number:	0018	**Sampling Date:**	09/19/2008 06:22	Global ID: T0600102231
	Sampling Location:	MW-2	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-2	**Sample Matrix:**	Water	Sample QC Type (SACode): CS
	Sampled By:	TRCI			Cooler ID:

TRC
21 Technology Drive
Irvine, CA 92618

Project: 0018
Project Number: [none]
Project Manager: Anju Farfan

Reported: 09/30/2008 12:29

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0812495-01 | **Client Sample Name:** 0018, MW-1, MW-1, 9/19/2008 6:33:00AM

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	09/29/08	09/30/08 04:35	KEA	MS-V12	1	BRI1696		
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	09/29/08	09/30/08 04:35	KEA	MS-V12	1	BRI1696		
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	09/29/08	09/30/08 04:35	KEA	MS-V12	1	BRI1696		
Ethylbenzene	ND	ug/L	0.50		EPA-8260	09/29/08	09/30/08 04:35	KEA	MS-V12	1	BRI1696		
Methyl t-butyl ether	12	ug/L	0.50		EPA-8260	09/29/08	09/30/08 04:35	KEA	MS-V12	1	BRI1696		
Toluene	ND	ug/L	0.50		EPA-8260	09/29/08	09/30/08 04:35	KEA	MS-V12	1	BRI1696		
Total Xylenes	ND	ug/L	1.0		EPA-8260	09/29/08	09/30/08 04:35	KEA	MS-V12	1	BRI1696		
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	09/29/08	09/30/08 04:35	KEA	MS-V12	1	BRI1696		
t-Butyl alcohol	ND	ug/L	10		EPA-8260	09/29/08	09/30/08 04:35	KEA	MS-V12	1	BRI1696		
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	09/29/08	09/30/08 04:35	KEA	MS-V12	1	BRI1696		
Ethanol	ND	ug/L	250		EPA-8260	09/29/08	09/30/08 04:35	KEA	MS-V12	1	BRI1696		
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	09/29/08	09/30/08 04:35	KEA	MS-V12	1	BRI1696		
Total Purgeable Petroleum Hydrocarbons	63	ug/L	50		EPA-8260	09/29/08	09/30/08 04:35	KEA	MS-V12	1	BRI1696		
1,2-Dichloroethane-d4 (Surrogate)	99.8	%	76 - 114 (LCL - UCL)		EPA-8260	09/29/08	09/30/08 04:35	KEA	MS-V12	1	BRI1696		
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)		EPA-8260	09/29/08	09/30/08 04:35	KEA	MS-V12	1	BRI1696		
4-Bromofluorobenzene (Surrogate)	97.7	%	86 - 115 (LCL - UCL)		EPA-8260	09/29/08	09/30/08 04:35	KEA	MS-V12	1	BRI1696		

TRC
21 Technology Drive
Irvine, CA 92618

Project: 0018
Project Number: [none]
Project Manager: Anju Farfan

Reported: 09/30/2008 12:29

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0812495-02 | **Client Sample Name:** 0018, MW-3, MW-3, 9/19/2008 6:40:00AM

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	09/29/08	09/30/08 04:10	KEA	MS-V12	1	BRI1696	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	09/29/08	09/30/08 04:10	KEA	MS-V12	1	BRI1696	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	09/29/08	09/30/08 04:10	KEA	MS-V12	1	BRI1696	ND	
Toluene	ND	ug/L	0.50		EPA-8260	09/29/08	09/30/08 04:10	KEA	MS-V12	1	BRI1696	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	09/29/08	09/30/08 04:10	KEA	MS-V12	1	BRI1696	ND	
Ethanol	ND	ug/L	250		EPA-8260	09/29/08	09/30/08 04:10	KEA	MS-V12	1	BRI1696	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	09/29/08	09/30/08 04:10	KEA	MS-V12	1	BRI1696	ND	
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)		EPA-8260	09/29/08	09/30/08 04:10	KEA	MS-V12	1	BRI1696		
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)		EPA-8260	09/29/08	09/30/08 04:10	KEA	MS-V12	1	BRI1696		
4-Bromofluorobenzene (Surrogate)	94.6	%	86 - 115 (LCL - UCL)		EPA-8260	09/29/08	09/30/08 04:10	KEA	MS-V12	1	BRI1696		

TRC	Project: 0018	**Reported:** 09/30/2008 12:29
21 Technology Drive	Project Number: Inonel	
Irvine, CA 92618	Project Manager: Anju Farfan	

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0812495-03 | **Client Sample Name:** 0018, MW-2, MW-2, 9/19/2008 6:22:00AM

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	09/29/08	09/30/08 03:46	KEA	MS-V12	1	BRI1696	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	09/29/08	09/30/08 03:46	KEA	MS-V12	1	BRI1696	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	09/29/08	09/30/08 03:46	KEA	MS-V12	1	BRI1696	ND	
Toluene	ND	ug/L	0.50		EPA-8260	09/29/08	09/30/08 03:46	KEA	MS-V12	1	BRI1696	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	09/29/08	09/30/08 03:46	KEA	MS-V12	1	BRI1696	ND	
Ethanol	ND	ug/L	250		EPA-8260	09/29/08	09/30/08 03:46	KEA	MS-V12	1	BRI1696	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	09/29/08	09/30/08 03:46	KEA	MS-V12	1	BRI1696	ND	
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)		EPA-8260	09/29/08	09/30/08 03:46	KEA	MS-V12	1	BRI1696		
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)		EPA-8260	09/29/08	09/30/08 03:46	KEA	MS-V12	1	BRI1696		
4-Bromofluorobenzene (Surrogate)	98.8	%	86 - 115 (LCL - UCL)		EPA-8260	09/29/08	09/30/08 03:46	KEA	MS-V12	1	BRI1696		

TRC 21 Technology Drive Irvine, CA 92618	Project: 0018 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 09/30/2008 12:29

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	BRI1696	Matrix Spike	0812510-14	0	20.750	25.000	ug/L		83.0		70 - 130	
		Matrix Spike Duplicate	0812510-14	0	23.200	25.000	ug/L	11.1	92.8	20	70 - 130	
Toluene	BRI1696	Matrix Spike	0812510-14	0	24.100	25.000	ug/L		96.4		70 - 130	
		Matrix Spike Duplicate	0812510-14	0	25.900	25.000	ug/L	7.6	104	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BRI1696	Matrix Spike	0812510-14	ND	9.8300	10.000	ug/L		98.3		76 - 114	
		Matrix Spike Duplicate	0812510-14	ND	10.100	10.000	ug/L		101		76 - 114	
Toluene-d8 (Surrogate)	BRI1696	Matrix Spike	0812510-14	ND	10.150	10.000	ug/L		102		88 - 110	
		Matrix Spike Duplicate	0812510-14	ND	9.9800	10.000	ug/L		99.8		88 - 110	
4-Bromofluorobenzene (Surrogate)	BRI1696	Matrix Spike	0812510-14	ND	9.7900	10.000	ug/L		97.9		86 - 115	
		Matrix Spike Duplicate	0812510-14	ND	9.7500	10.000	ug/L		97.5		86 - 115	

TRC	Project: 0018	**Reported:** 09/30/2008 12:29
21 Technology Drive	Project Number: [none]	
Irvine, CA 92618	Project Manager: Anju Farfan	

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	BRI1696	BRI1696-BS1	LCS	26.580	25.000	0.50	ug/L	106		70 - 130		
Toluene	BRI1696	BRI1696-BS1	LCS	30.810	25.000	0.50	ug/L	123		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BRI1696	BRI1696-BS1	LCS	9.7500	10.000		ug/L	97.5		76 - 114		
Toluene-d8 (Surrogate)	BRI1696	BRI1696-BS1	LCS	10.150	10.000		ug/L	102		88 - 110		
4-Bromofluorobenzene (Surrogate)	BRI1696	BRI1696-BS1	LCS	9.8200	10.000		ug/L	98.2		86 - 115		

TRC	Project: 0018	**Reported:** 09/30/2008 12:29
21 Technology Drive	Project Number: Inonel	
Irvine, CA 92618	Project Manager: Anju Farfan	

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	BRI1696	BRI1696-BLK1	ND	ug/L	0.50		
Ethylbenzene	BRI1696	BRI1696-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BRI1696	BRI1696-BLK1	ND	ug/L	0.50		
Toluene	BRI1696	BRI1696-BLK1	ND	ug/L	0.50		
Total Xylenes	BRI1696	BRI1696-BLK1	ND	ug/L	1.0		
Ethanol	BRI1696	BRI1696-BLK1	ND	ug/L	250		
Total Purgeable Petroleum Hydrocarbons	BRI1696	BRI1696-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BRI1696	BRI1696-BLK1	106	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BRI1696	BRI1696-BLK1	100	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BRI1696	BRI1696-BLK1	98.8	%	86 - 115 (LCL - UCL)		

TRC	Project: 0018	**Reported:** 09/30/2008 12:29
21 Technology Drive	Project Number: [none]	
Irvine, CA 92618	Project Manager: Anju Farfan	

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

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No. 12 06/24/08 Page 1 Of 1

Submission # 8812495

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

Emissivity: 0.97 Container: VOA Thermometer ID: 48

Temperature: A 1.4 °C / C 0.5 °C

Date/Time 9/19/08 1915

Analyst Init JDW

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										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	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 AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By: _____ Date/Time: 1110 9/22

A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

BC LABORATORIES, INC.

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

CHAIN OF CUSTODY

Bill to: Conoco Phillips/ TRC
Address: 6201 Claremont AVE
City: Oakland
State: CA **Zip:**
Conoco Phillips Mgr: Jerry Gr

Consultant Firm: TRC
21 Technology Drive
Irvine, CA 92618-2302
Attn: Anju Farfan

4-digit site#: 0018
Workorder # 01062-9509118496
Project #: 154771
Sampler Name: Ricky H.

MATRIX (GW) Groundwater (S) Soil (WW) Wastewater (SL) Sludge

Analysis Requested

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	EDB/EDC by 8260B	BTEX/MTBE by 8260B		Turnaround Time Requested
-1		mw-1	9/19/08 0633	GW					X	X	X	X			STD
-2		mw-3	0640										X		
-3		mw-2	0622										X		

CHK BY DISTRIBUTION SUB-OUT

Comments:

GLOBAL ID: T0600102231

Relinquished by: (Signature)	Received by:	Date & Time
	Ricky Nicholas	9/19/08 1330
Relinquished by: (Signature) Ricky Nicholas 9/19/08	R Lloyd	9-19-08 1600
Relinquished by: (Signature) R Lloyd 9-19-08 1915	Received by:	Date & Time 9-19-08 1915

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.