ConocoPhillips
76 Broadway
Sacramento, California 95818

October 30, 2006

Mr. Don Hwang
Alameda County Health Agency
1131 Harbor Bay Parkway
Alameda, California 94502

Re: **Report Transmittal**
Quarterly Report
Third Quarter – 2006 and Request for Closure Status
76 Service Station #0018
6201 Claremont Avenue
Oakland, CA

Dear Mr. Hwang:

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 contact

Shelby S. Lathrop (Contractor)
ConocoPhillips
Risk Management & Remediation
76 Broadway
Sacramento, CA 95818
Phone: 916-558-7609
Fax: 916-558-7639

Sincerely,

Thomas Kosel
Risk Management & Remediation

Attachment

TRC

Customer-Focused Solutions

October 30, 2006 TRC Project No. 42016510

Mr. Don Hwang
Hazardous Materials Specialist
Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, California 94502-6577

RE: Quarterly Status Report – Third Quarter 2006 and Request for Closure Status
76 Service Station #0018, 6201 Claremont Avenue, Oakland, California
Alameda County

Dear Mr. Hwang:

On behalf of ConocoPhillips Company (ConocoPhillips), TRC is submitting the Third Quarter 2006 Status Report and Request for Closure Status for the subject site.

PREVIOUS ASSESSMENTS

The subject site is an active service station located on the northern corner of the intersection of Claremont and College Avenues in Oakland, California. The nearest surface water is Harwood (Claremont) Creek, located approximately 0.25 miles northeast of the site.

March 1997: Kaprealian Engineering Inc. (KEI) collected soil and grab groundwater samples during underground storage tank (UST) and product line replacement activities. A groundwater sample collected from the former gasoline UST excavation contained 6,100 parts per billion (ppb) total petroleum hydrocarbons as gasoline and 54 ppb benzene.

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

December 2000: Gettler-Ryan Inc. installed three groundwater-monitoring wells to depths of 30 to 30.5 feet below ground surface (bgs). Groundwater samples contained low concentrations of total petroleum hydrocarbons as gasoline (TPH-g), benzene, and methyl tertiary butyl ether (MTBE).

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

SENSITIVE RECEPTORS

April 24, 2006: TRC completed a sensitive receptor survey for the site. According to the Department of Water Resources (DWR) records, no water supply wells are located within a one-half mile radius of the site.

MONITORING AND SAMPLING

Three onsite wells are currently monitored quarterly. All three wells were gauged and sampled this quarter. The groundwater gradient flow direction is toward the south at a calculated hydraulic gradient of 0.01 feet per foot.

CHARACTERIZATION STATUS

Total petroleum hydrocarbons as gasoline (TPH-g) were detected in one of the three site wells with a concentration of 96 micrograms per liter (µg/l) in well MW-1.

Benzene was not detected above laboratory reporting limits in the three wells sampled.

MTBE was detected in wells MW-1 and MW-3 at concentrations of 6.1µg/l and 3.4µg/l, respectively.

REMEDIATION STATUS

Remediation is not currently being conducted at the site.

RECENT CORRESPONDENCE

No correspondence this quarter.

CURRENT QUARTER ACTIVITIES

September 15, 2006: TRC performed groundwater monitoring and sampling. Wastewater generated from well purging and equipment cleaning was stored at TRC's groundwater monitoring facility in Concord, California, and transported by Onyx to the ConocoPhillips Refinery in Rodeo, California, for treatment and disposal.

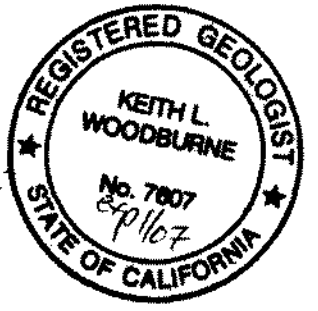
CONCLUSIONS AND RECOMMENDATIONS

Based on the low residual TPPH and MTBE concentrations in groundwater in MW-1 and on the non-detect concentrations reported in site wells MW-2 and MW-3 over the past several years, and on the absence of any water supply wells within a one-half mile radius of the Site, TRC recommends no further action in January 2006 and requests that the site be referred for closure.

TRC recommends discontinuing groundwater monitoring and sampling pending review of the no further action and site closure request by ACHCS. Additionally, TRC also requests an update on the January 2006 recommendation for no further action and closure review.

If you have any questions regarding this report, please call me at (925) 688-2488.

Sincerely,
TRC

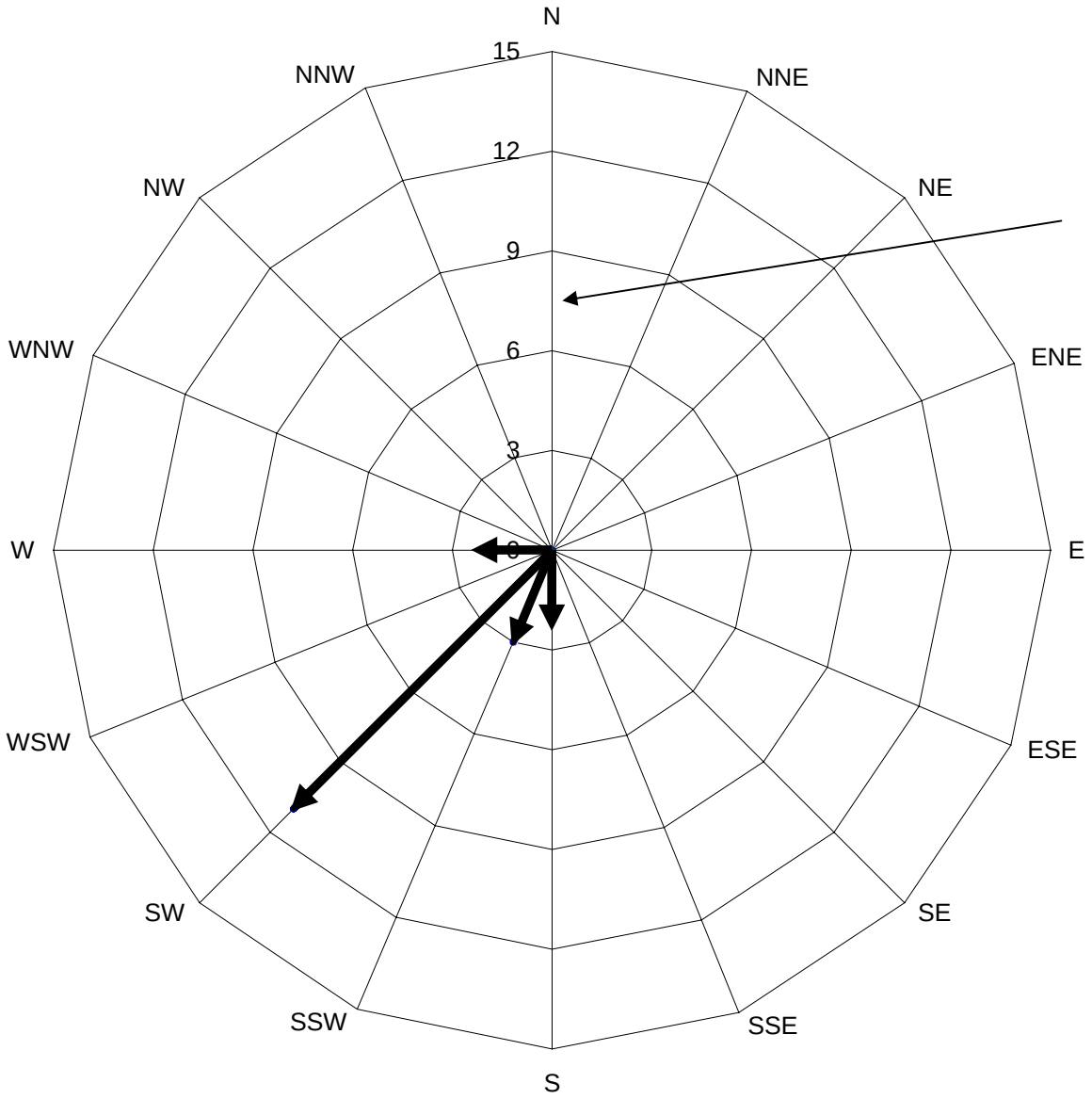


Keith Woodburne, P.G.
Senior Project Manager

Attachment:
Quarterly Monitoring Report, July through September 2006 (TRC, October 13, 2006)
Historical Groundwater Flow Directions – October 2000 through September 2006

cc: Shelby Lathrop, ConocoPhillips (electronic upload only)

Historical Groundwater Flow Directions
for Tosco (76) Service Station No. 0018
October 2000 through September 2006



Number of monitoring events in which groundwater was reported to flow in a particular direction.

TRC

TRC

October 13, 2006

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

ATTN: MS. SHELBY LATHROP

SITE: 76 STATION 0018
6201 CLAREMONT AVENUE
OAKLAND, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
JULY THROUGH SEPTEMBER 2006

Dear Ms. Lathrop:

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) 753-0101.

Sincerely,

TRC

Anju Farfan
QMS Operations Manager

CC: Mr. Keith Woodburne, TRC (4 copies)

Enclosures
20-0400/0018R12.QMS

21 Technology Drive • Irvine, California 92618
Main: 949-727-9336 • Fax: 949-727-7399
www.trcsolutions.com

TRC

QUARTERLY MONITORING REPORT
JULY THROUGH SEPTEMBER 2006

76 STATION 0018
6201 Claremont Avenue
Oakland, California

Prepared For:

Ms. Shelby Lathrop
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, California 95818

By:

Senior Project Geologist, Irvine Operations
October 13, 2006

21 Technology Drive • Irvine, California 92618
Main: 949-727-9336 • Fax: 949-727-7399
www.trcsolutions.com

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 – 09/15/06 Groundwater Sampling Field Notes – 09/15/06
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities
July 2006 through September 2006
76 Station 0018
6201 Claremont Boulevard
Oakland, CA

Project Coordinator: **Shelby Lathrop**
Telephone: **916-558-7609**
Water Sampling Contractor: ***TRC***
Compiled by: **Christina Carrillo**
Date(s) of Gauging/Sampling Event: **09/15/06**

Sample Points

Groundwater wells: **3** onsite, **0** offsite Wells gauged: **3** Wells sampled: **3**
Purging method: **Diaphragm pump**
Purge water disposal: **Onyx/Rodeo Unit 100**
Other Sample Points: **0** Type: **n/a**

Liquid Phase Hydrocarbons (LPH)

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

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **17.49 feet** Maximum: **18.61 feet**
Average groundwater elevation (relative to available local datum): **191.21 feet**
Average change in groundwater elevation since previous event: **-3.44 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.01 ft/ft, south**
Previous event: **0.02 ft/ft, south (06/08/06)**

Selected Laboratory Results

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

Wells with **TPH-G by GC/MS** **1** Maximum: **96 µg/l (MW-1)**
Wells with **MTBE** **2** Maximum: **6.1 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
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

September 15, 2006

76 Station 0018

Date Sampled	TOC Elevation	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
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
MW-1		**(Screen Interval in feet: 10.0-30.0)**												
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	
MW-2		**(Screen Interval in feet: 10.0-30.0)**												
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	
MW-3		**(Screen Interval in feet: 10.0-30.0)**												
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	

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							
09/15/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2							
09/15/06	--	ND<250	--	--	--	--	--
MW-3							
09/15/06	--	ND<250	--	--	--	--	--

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

August 2000 Through September 2006

76 Station 0018

Date Sampled	TOC Elevation	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
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
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	
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	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

August 2000 Through September 2006

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														
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	
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	
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	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

August 2000 Through September 2006

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

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

August 2000 Through September 2006

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														
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	
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	

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							
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
MW-2							
08/24/00	ND	ND	--	--	ND	ND	ND

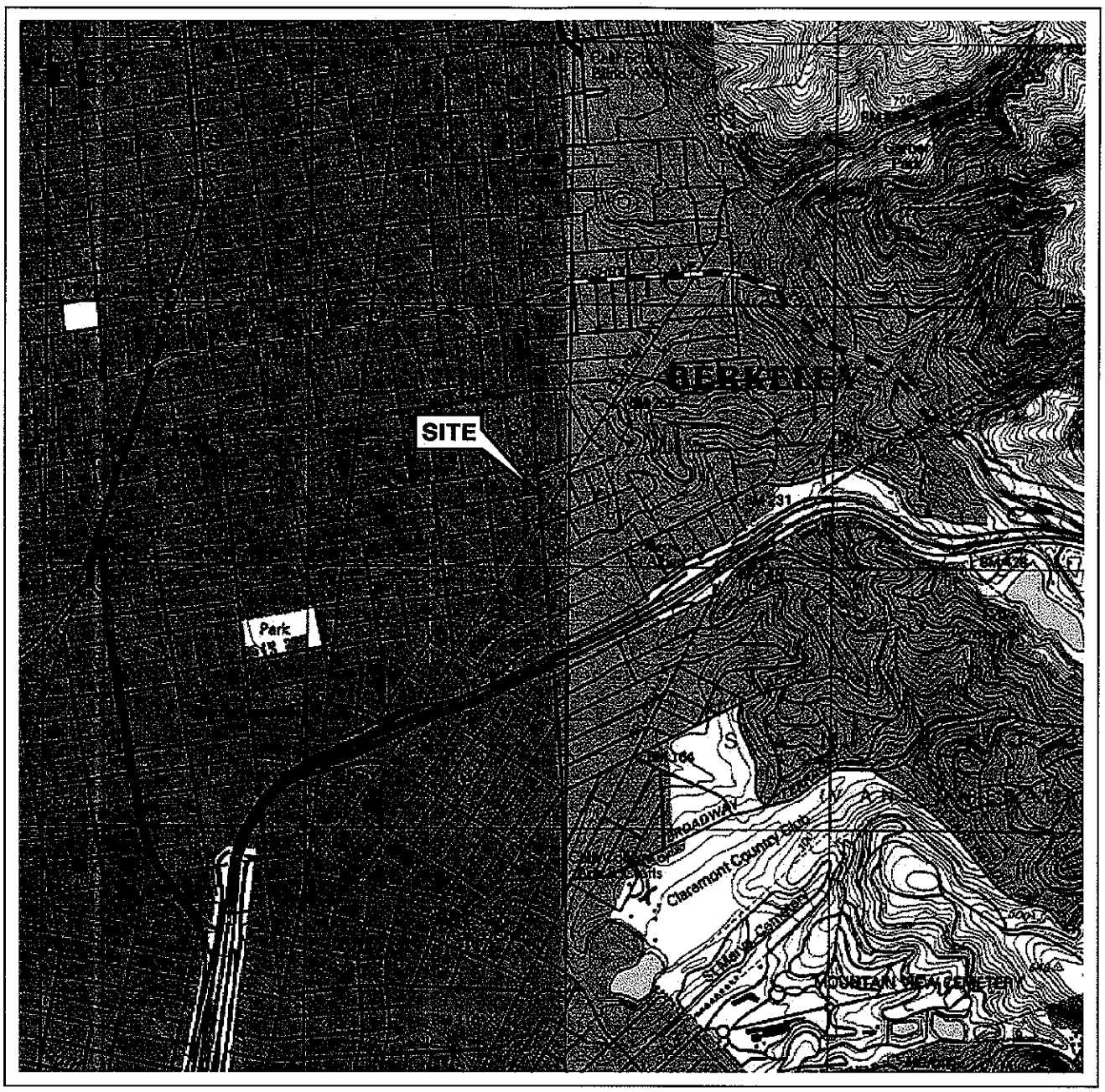
Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 0018

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							
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	--	--	--	--	--
09/15/06	--	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	--	--	--

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							
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	--	--	--	--	--
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	--	--	--	--	--

FIGURES



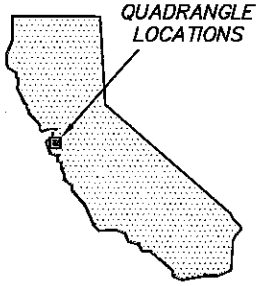
0 1/4 1/2 3/4 1 MILE

SCALE 1:24,000

N

SOURCE:

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



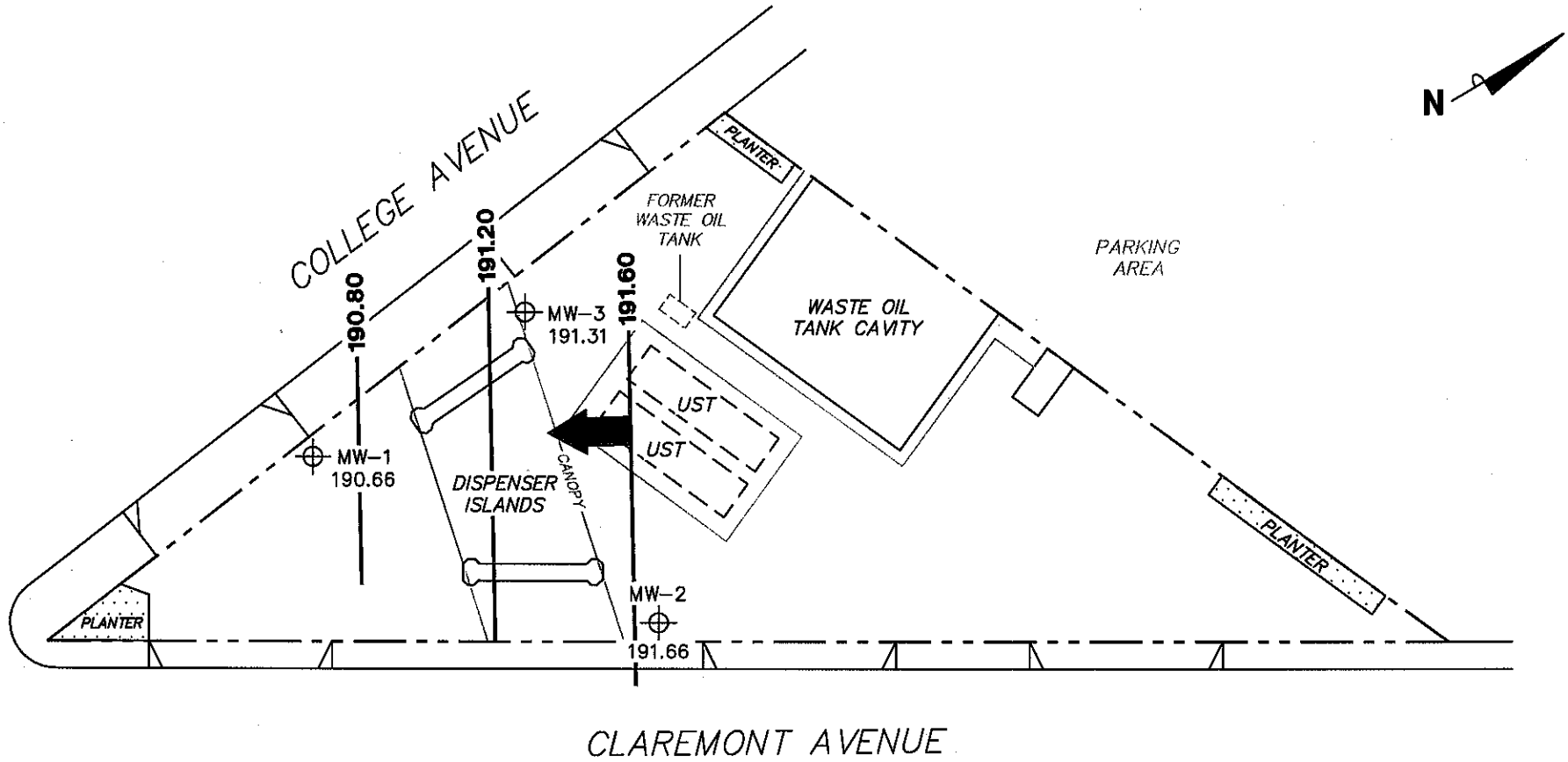
VICINITY MAP

76 Station 0018
6201 Claremont Avenue
Oakland, California

FIGURE 1

TRC

PS = 1:1 L:\VICINITY MAPS\0018VM.DWG Jun 30, 2006 - 9:49am lwinters



LEGEND

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

191.60 —— Groundwater Elevation Contour

➡ General Direction of Groundwater Flow

NOTES:

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

SCALE (FEET)

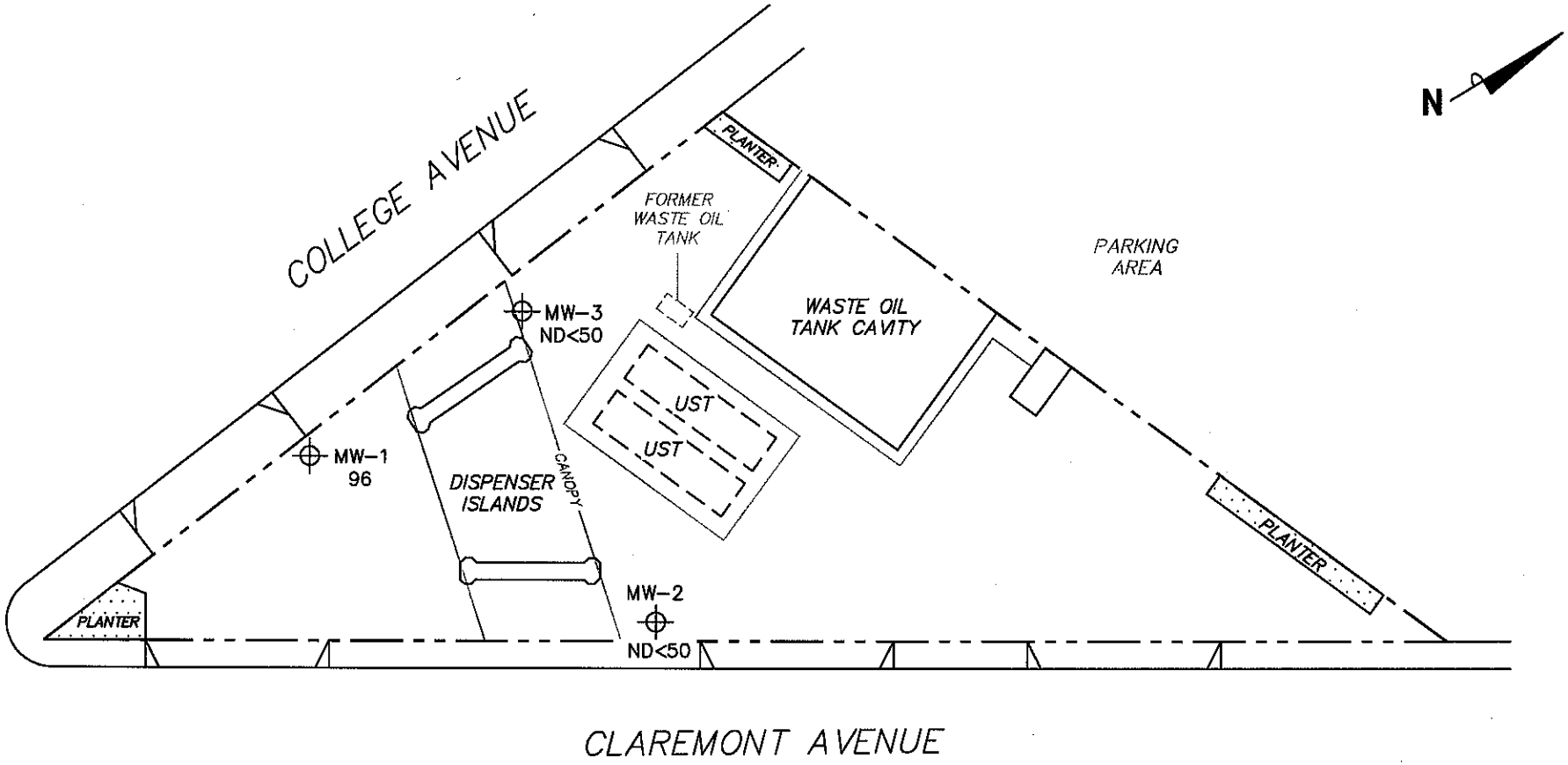
0 40

GROUNDWATER ELEVATION CONTOUR MAP
September 15, 2006

76 Station 0018
6201 Claremont Avenue
Oakland, California

FIGURE 2

TRC



LEGEND

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

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.

SCALE (FEET)

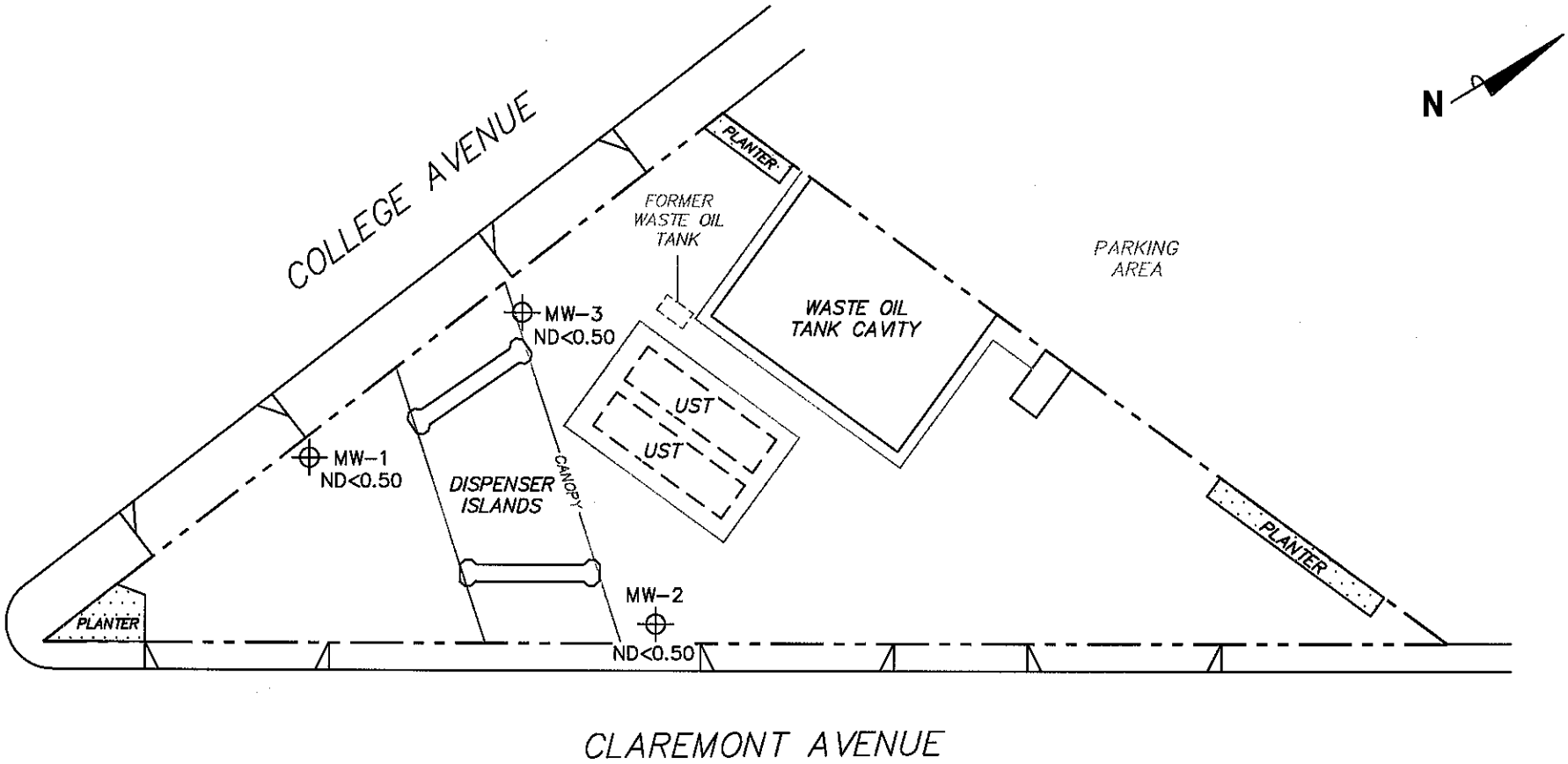
0 40

TRC

DISSOLVED-PHASE TPH-G (GC/MS) CONCENTRATIONS MAP September 15, 2006

76 Station 0018
6201 Claremont Avenue
Oakland, California

FIGURE 3



LEGEND

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

NOTES:

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

SCALE (FEET)

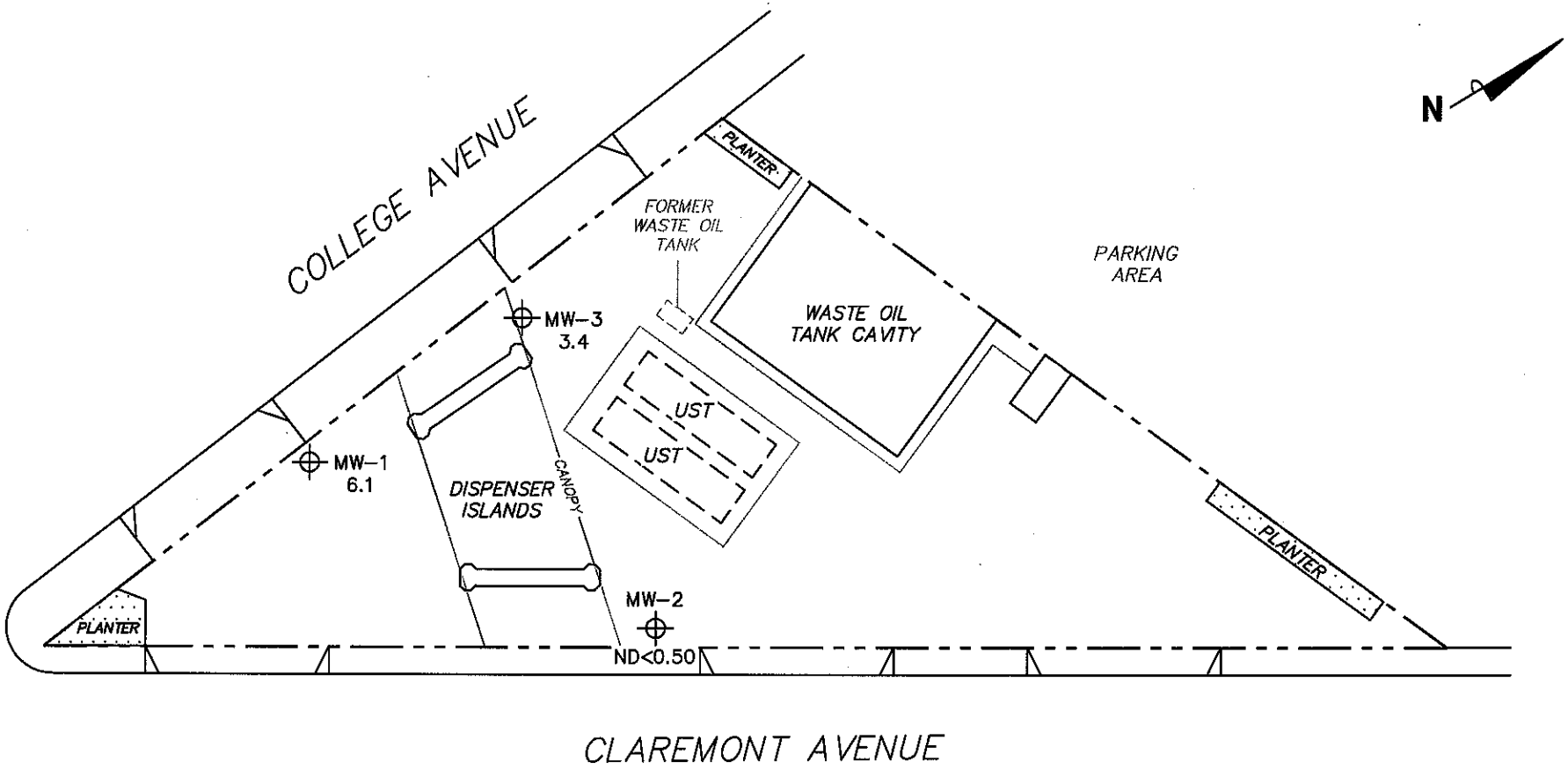
0 40

TRC

DISSOLVED-PHASE BENZENE CONCENTRATIONS MAP
September 15, 2006

76 Station 0018
6201 Claremont Avenue
Oakland, California

FIGURE 4



LEGEND

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

NOTES:

MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Results obtained using EPA Method 8260B.

SCALE (FEET)

0 40

TRC

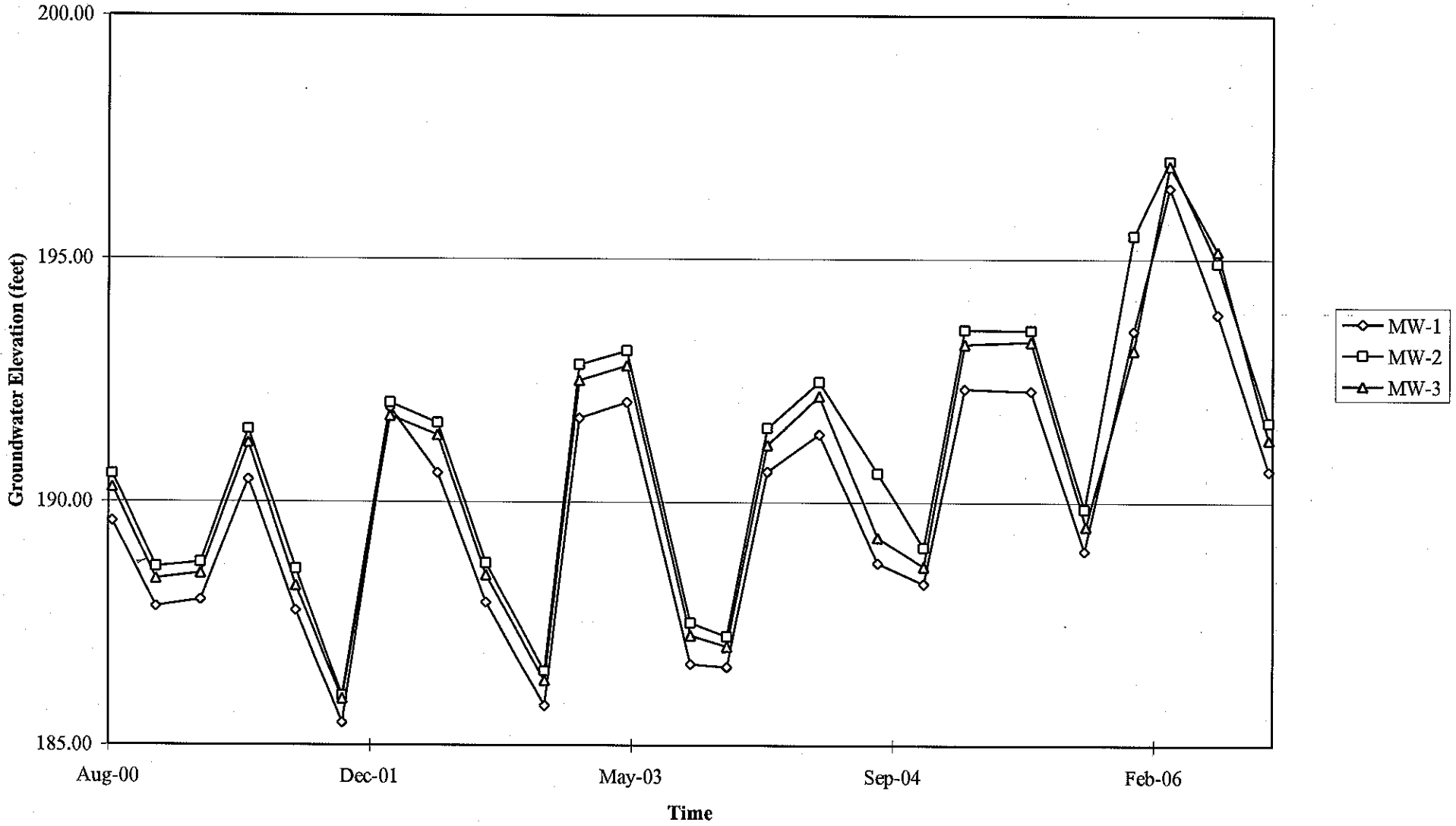
DISSOLVED-PHASE MTBE CONCENTRATIONS MAP
September 15, 2006

76 Station 0018
6201 Claremont Avenue
Oakland, California

FIGURE 5

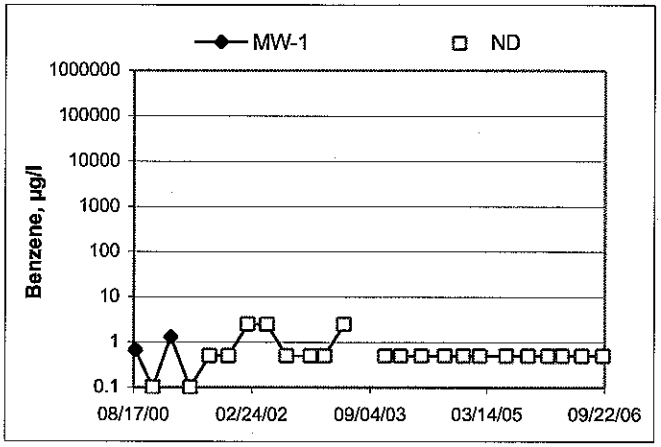
GRAPHS

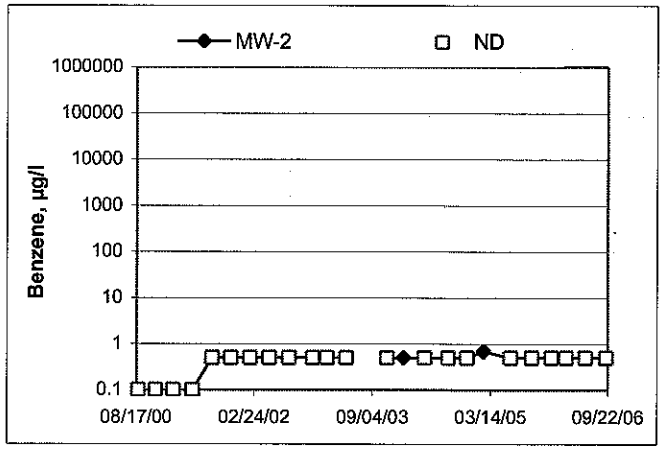
Groundwater Elevations vs. Time
76 Station 0018

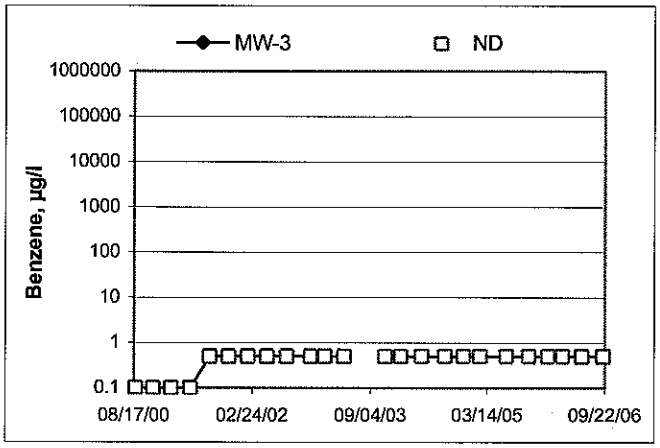


Elevations may have been corrected for apparent changes due to resurvey

Benzene Concentrations vs Time
76 Station 0018







GENERAL FIELD PROCEDURES

Groundwater Monitoring and Sampling Assignments

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

Fluid Level Measurements

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

Purging and Groundwater Parameter Measurement

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

Groundwater Sample Collection

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable, ½-inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designatio n, 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 specifi ed by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

Sequence of Gauging, Purging and Sampling

The sequence in which monitoring activities are conducted are specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has 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 to a particular wells, decontaminated prior to each use, or discarded after a singl e 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: Chris Job #/Task #: 406000.1/FA20 Date: 9-15-06

Site # 0018 Project Manager Kieth Woodburne Page 1 of 1

Well #	Time Gauged	TOC	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
mw-3	0528	X	30.17	17.67	—	—	0614	2"
mw-2	0533	X	29.52	18.61	—	—	0633	2"
mw-1	0539	X	29.97	17.49	—	—	0654	2"

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

GROUNDWATER SAMPLING FIELD NOTES

Technician: Chris

Site: 0018 Project No.: 41060001 Date: 9-15-06

Well No. MW-3 Purge Method: DIA

Depth to Water (feet): 17.67 Depth to Product (feet): 0

Total Depth (feet) 30.17 LPH & Water Recovered (gallons): 0

Water Column (feet): 12.50 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 20.17 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.	ORP	Turbidity
0606			2	513	11.8	7.19			
			4	600	14.1	6.72			
	0610		6	587	15.4	6.50			

Static at Time Sampled	Total Gallons Purged	Sample Time
18.94	6	0614

Comments:

Well No. MW-2 Purge Method: DIA

Depth to Water (feet): 18.61 Depth to Product (feet): 0

Total Depth (feet) 29.52 LPH & Water Recovered (gallons): 0

Water Column (feet): 10.91 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 20.79 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.	ORP	Turbidity
0622			2	505	13.9	6.43			
			4	488	15.4	6.37			
	0630		6	486	16.0	6.39			

Static at Time Sampled	Total Gallons Purged	Sample Time
18.66	6	0633

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Chris

Site: 0018 Project No.: 41060001 Date: 9-15-06

Well No. mw-1 Purge Method: DIA

Depth to Water (feet): 17.49 Depth to Product (feet): 0

Total Depth (feet) 29.97 LPH & Water Recovered (gallons): 0

Water Column (feet): 12.48 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 19.98 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.	ORP	Turbidity
0645			2	724	13.8	6.47			
			4	765	15.1	6.50			
	0648		6	711	15.8	6.51			

Static at Time Sampled	Total Gallons Purged	Sample Time
19.81	6	0654

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.	ORP	Turbidity

Static at Time Sampled	Total Gallons Purged	Sample Time

Comments:

TRC

BC LABORATORIES, INC.

Date of Report: 09/29/2006

Anju Farfan

TRC Alton Geoscience
21 Technology Drive
Irvine, CA 92618-2302
RE: 0018
BC Lab Number: 0609644

Enclosed are the results of analyses for samples received by the laboratory on 09/18/06 20:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyer for
Contact Person: Vanessa Hooker
Client Service Rep

Authorized Signature

BC LABORATORIES, INC.

TRC Alton Geoscience	Project: 0018	
21 Technology Drive	Project Number: [none]	
Irvine CA, 92618-2302	Project Manager: Anju Farfan	**Reported:** 09/29/06 16:45

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0609644-01	**COC Number:**	---	**Receive Date:**	09/18/06 20:35	Delivery Work Order:
	Project Number:	0018	**Sampling Date:**	09/15/06 06:54	Global ID: T0600102231
	Sampling Location:	MW-1	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-1	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	Chris M. of TRCI			Cooler ID:
0609644-02	**COC Number:**	---	**Receive Date:**	09/18/06 20:35	Delivery Work Order:
	Project Number:	0018	**Sampling Date:**	09/15/06 06:33	Global ID: T0600102231
	Sampling Location:	MW-2	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-2	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	Chris M. of TRCI			Cooler ID:
0609644-03	**COC Number:**	---	**Receive Date:**	09/18/06 20:35	Delivery Work Order:
	Project Number:	0018	**Sampling Date:**	09/15/06 06:14	Global ID: T0600102231
	Sampling Location:	MW-3	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-3	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	Chris M. of TRCI			Cooler ID:

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

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

Reported: 09/29/06 16:45

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0609644-01 | **Client Sample Name:** 0018, MW-1, MW-1, 9/15/2006 6:54:00AM, Chris M.

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	09/28/06	09/28/06 16:27	DKC	MS-V12	1	BPI1389	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	09/28/06	09/28/06 16:27	DKC	MS-V12	1	BPI1389	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	09/28/06	09/28/06 16:27	DKC	MS-V12	1	BPI1389	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	09/28/06	09/28/06 16:27	DKC	MS-V12	1	BPI1389	ND	
Methyl t-butyl ether	6.1	ug/L	0.50		EPA-8260	09/28/06	09/28/06 16:27	DKC	MS-V12	1	BPI1389	ND	
Toluene	ND	ug/L	0.50		EPA-8260	09/28/06	09/28/06 16:27	DKC	MS-V12	1	BPI1389	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	09/28/06	09/28/06 16:27	DKC	MS-V12	1	BPI1389	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	09/28/06	09/28/06 16:27	DKC	MS-V12	1	BPI1389	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	09/28/06	09/28/06 16:27	DKC	MS-V12	1	BPI1389	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	09/28/06	09/28/06 16:27	DKC	MS-V12	1	BPI1389	ND	
Ethanol	ND	ug/L	250		EPA-8260	09/28/06	09/28/06 16:27	DKC	MS-V12	1	BPI1389	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	09/28/06	09/28/06 16:27	DKC	MS-V12	1	BPI1389	ND	
Total Purgeable Petroleum Hydrocarbons	96	ug/L	50		EPA-8260	09/28/06	09/28/06 16:27	DKC	MS-V12	1	BPI1389	ND	
1,2-Dichloroethane-d4 (Surrogate)	99.0	%	76 - 114 (LCL - UCL)		EPA-8260	09/28/06	09/28/06 16:27	DKC	MS-V12	1	BPI1389		
Toluene-d8 (Surrogate)	98.3	%	88 - 110 (LCL - UCL)		EPA-8260	09/28/06	09/28/06 16:27	DKC	MS-V12	1	BPI1389		
4-Bromofluorobenzene (Surrogate)	103	%	86 - 115 (LCL - UCL)		EPA-8260	09/28/06	09/28/06 16:27	DKC	MS-V12	1	BPI1389		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

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

Reported: 09/29/06 16:45

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0609644-02 | **Client Sample Name:** 0018, MW-2, MW-2, 9/15/2006 6:33:00AM, Chris M.

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	09/27/06	09/27/06 23:19	SDU	MS-V10	1	BPI1334	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	09/27/06	09/27/06 23:19	SDU	MS-V10	1	BPI1334	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	09/27/06	09/27/06 23:19	SDU	MS-V10	1	BPI1334	ND	
Toluene	ND	ug/L	0.50		EPA-8260	09/27/06	09/27/06 23:19	SDU	MS-V10	1	BPI1334	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	09/27/06	09/27/06 23:19	SDU	MS-V10	1	BPI1334	ND	
Ethanol	ND	ug/L	250		EPA-8260	09/27/06	09/27/06 23:19	SDU	MS-V10	1	BPI1334	ND	V11
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	09/27/06	09/27/06 23:19	SDU	MS-V10	1	BPI1334	ND	
1,2-Dichloroethane-d4 (Surrogate)	108	%	76 - 114	(LCL - UCL)	EPA-8260	09/27/06	09/27/06 23:19	SDU	MS-V10	1	BPI1334		
Toluene-d8 (Surrogate)	99.9	%	88 - 110	(LCL - UCL)	EPA-8260	09/27/06	09/27/06 23:19	SDU	MS-V10	1	BPI1334		
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115	(LCL - UCL)	EPA-8260	09/27/06	09/27/06 23:19	SDU	MS-V10	1	BPI1334		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

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

Reported: 09/29/06 16:45

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0609644-03 | **Client Sample Name:** 0018, MW-3, MW-3, 9/15/2006 6:14:00AM, Chris M.

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	09/27/06	09/27/06 23:44	SDU	MS-V10	1	BPI1334	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	09/27/06	09/27/06 23:44	SDU	MS-V10	1	BPI1334	ND	
Methyl t-butyl ether	3.4	ug/L	0.50		EPA-8260	09/27/06	09/27/06 23:44	SDU	MS-V10	1	BPI1334	ND	
Toluene	ND	ug/L	0.50		EPA-8260	09/27/06	09/27/06 23:44	SDU	MS-V10	1	BPI1334	ND	
Total Xylenes	ND	ug/L	0.50		EPA-8260	09/27/06	09/27/06 23:44	SDU	MS-V10	1	BPI1334	ND	
Ethanol	ND	ug/L	250		EPA-8260	09/27/06	09/27/06 23:44	SDU	MS-V10	1	BPI1334	ND	V11
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	09/27/06	09/27/06 23:44	SDU	MS-V10	1	BPI1334	ND	
1,2-Dichloroethane-d4 (Surrogate)	109	%	76 - 114	(LCL - UCL)	EPA-8260	09/27/06	09/27/06 23:44	SDU	MS-V10	1	BPI1334		
Toluene-d8 (Surrogate)	99.9	%	88 - 110	(LCL - UCL)	EPA-8260	09/27/06	09/27/06 23:44	SDU	MS-V10	1	BPI1334		
4-Bromofluorobenzene (Surrogate)	97.9	%	86 - 115	(LCL - UCL)	EPA-8260	09/27/06	09/27/06 23:44	SDU	MS-V10	1	BPI1334		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

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

Reported: 09/29/06 16:45

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	BPI1334	Matrix Spike	0609600-01	0.22000	28.020	25.000	ug/L		111		70 - 130	
		Matrix Spike Duplicate	0609600-01	0.22000	27.050	25.000	ug/L	3.55	107	20	70 - 130	
Toluene	BPI1334	Matrix Spike	0609600-01	ND	25.460	25.000	ug/L		102		70 - 130	
		Matrix Spike Duplicate	0609600-01	ND	24.160	25.000	ug/L	5.24	96.6	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BPI1334	Matrix Spike	0609600-01	ND	10.890	10.000	ug/L		109		76 - 114	
		Matrix Spike Duplicate	0609600-01	ND	10.900	10.000	ug/L		109		76 - 114	
Toluene-d8 (Surrogate)	BPI1334	Matrix Spike	0609600-01	ND	10.070	10.000	ug/L		101		88 - 110	
		Matrix Spike Duplicate	0609600-01	ND	10.170	10.000	ug/L		102		88 - 110	
4-Bromofluorobenzene (Surrogate)	BPI1334	Matrix Spike	0609600-01	ND	10.000	10.000	ug/L		100		86 - 115	
		Matrix Spike Duplicate	0609600-01	ND	9.7700	10.000	ug/L		97.7		86 - 115	
Benzene	BPI1389	Matrix Spike	0609635-01	ND	25.720	25.000	ug/L		103		70 - 130	
		Matrix Spike Duplicate	0609635-01	ND	26.080	25.000	ug/L	1.39	104	20	70 - 130	
Toluene	BPI1389	Matrix Spike	0609635-01	ND	24.680	25.000	ug/L		98.7		70 - 130	
		Matrix Spike Duplicate	0609635-01	ND	25.250	25.000	ug/L	2.28	101	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BPI1389	Matrix Spike	0609635-01	ND	9.7800	10.000	ug/L		97.8		76 - 114	
		Matrix Spike Duplicate	0609635-01	ND	9.9500	10.000	ug/L		99.5		76 - 114	
Toluene-d8 (Surrogate)	BPI1389	Matrix Spike	0609635-01	ND	9.9200	10.000	ug/L		99.2		88 - 110	
		Matrix Spike Duplicate	0609635-01	ND	10.050	10.000	ug/L		100		88 - 110	
4-Bromofluorobenzene (Surrogate)	BPI1389	Matrix Spike	0609635-01	ND	10.160	10.000	ug/L		102		86 - 115	
		Matrix Spike Duplicate	0609635-01	ND	9.7700	10.000	ug/L		97.7		86 - 115	

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

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

Reported: 09/29/06 16:45

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	BPI1334	BPI1334-BS1	LCS	27.590	25.000	0.50	ug/L	110		70 - 130		
Toluene	BPI1334	BPI1334-BS1	LCS	25.110	25.000	0.50	ug/L	100		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BPI1334	BPI1334-BS1	LCS	10.770	10.000		ug/L	108		76 - 114		
Toluene-d8 (Surrogate)	BPI1334	BPI1334-BS1	LCS	10.080	10.000		ug/L	101		88 - 110		
4-Bromofluorobenzene (Surrogate)	BPI1334	BPI1334-BS1	LCS	10.140	10.000		ug/L	101		86 - 115		
Benzene	BPI1389	BPI1389-BS1	LCS	25.470	25.000	0.50	ug/L	102		70 - 130		
Toluene	BPI1389	BPI1389-BS1	LCS	24.830	25.000	0.50	ug/L	99.3		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BPI1389	BPI1389-BS1	LCS	9.6800	10.000		ug/L	96.8		76 - 114		
Toluene-d8 (Surrogate)	BPI1389	BPI1389-BS1	LCS	9.9600	10.000		ug/L	99.6		88 - 110		
4-Bromofluorobenzene (Surrogate)	BPI1389	BPI1389-BS1	LCS	9.8200	10.000		ug/L	98.2		86 - 115		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

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

Reported: 09/29/06 16:45

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	BPI1334	BPI1334-BLK1	ND	ug/L	0.50	0.14	
Ethylbenzene	BPI1334	BPI1334-BLK1	ND	ug/L	0.50	0.094	
Methyl t-butyl ether	BPI1334	BPI1334-BLK1	ND	ug/L	0.50	0.13	
Toluene	BPI1334	BPI1334-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BPI1334	BPI1334-BLK1	ND	ug/L	0.50	0.31	
Ethanol	BPI1334	BPI1334-BLK1	ND	ug/L	250	85	
Total Purgeable Petroleum Hydrocarbons	BPI1334	BPI1334-BLK1	ND	ug/L	50	16	
1,2-Dichloroethane-d4 (Surrogate)	BPI1334	BPI1334-BLK1	104	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BPI1334	BPI1334-BLK1	98.0	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BPI1334	BPI1334-BLK1	102	%	86 - 115 (LCL - UCL)		
Benzene	BPI1389	BPI1389-BLK1	ND	ug/L	0.50	0.14	
1,2-Dibromoethane	BPI1389	BPI1389-BLK1	ND	ug/L	0.50	0.22	
1,2-Dichloroethane	BPI1389	BPI1389-BLK1	ND	ug/L	0.50	0.15	
Ethylbenzene	BPI1389	BPI1389-BLK1	ND	ug/L	0.50	0.094	
Methyl t-butyl ether	BPI1389	BPI1389-BLK1	ND	ug/L	0.50	0.13	
Toluene	BPI1389	BPI1389-BLK1	ND	ug/L	0.50	0.12	
Total Xylenes	BPI1389	BPI1389-BLK1	ND	ug/L	0.50	0.31	
t-Amyl Methyl ether	BPI1389	BPI1389-BLK1	ND	ug/L	0.50	0.34	
t-Butyl alcohol	BPI1389	BPI1389-BLK1	ND	ug/L	10	9.3	
Diisopropyl ether	BPI1389	BPI1389-BLK1	ND	ug/L	0.50	0.34	
Ethanol	BPI1389	BPI1389-BLK1	ND	ug/L	250	85	
Ethyl t-butyl ether	BPI1389	BPI1389-BLK1	ND	ug/L	0.50	0.32	
Total Purgeable Petroleum Hydrocarbons	BPI1389	BPI1389-BLK1	ND	ug/L	50	16	
1,2-Dichloroethane-d4 (Surrogate)	BPI1389	BPI1389-BLK1	101	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BPI1389	BPI1389-BLK1	98.8	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BPI1389	BPI1389-BLK1	95.3	%	86 - 115 (LCL - UCL)		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

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

Reported: 09/29/06 16:45

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

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

Reported: 09/29/06 16:45

Notes and Definitions

V11	The Continuing Calibration Verification (CCV) recovery is not within established control limits.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No. 10 01/21/04 Page 1 Of 1

Submission #: 06-09644 | 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: S/W
Temperature: 3.9 °C
Thermometer ID: 98
Emissivity: 0.98
Container: QT

Date/Time: 9/18/6
Analyst Init: AMR

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	A3	A3	A3	"	"	"	"	"	"	"
40ml VOA VIAL										
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: AMR Date/Time: 9/19/6 0030

BC LABORATORIES, INC. 4100 Atlas Court □ Bakersfield, CA 93308 (661) 327-4911 □ FAX (661) 327-1918

CHAIN OF CUSTODY

#06-09644

Analysis Requested

Circle one: Phillips 66 / Unocal

Consultant Firm: TRC

Address:.6201 Claremont Blvd.

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

City: Oakland

4-digit site#: 0018

Work Order# 1062TRC502

State: CA | Zip:

Project #: 41060001/FA20

COP Manager: Shelby Lathrop

Sampler Name: Chris

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

Lab#	Sample Description	Field Point Name	Date & Time Sampled	MATRIX	BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015	8260 full list w/ MTBE & oxygenates	BTEX/MTBE BY 8260B	ETHANOL by 8260B	TPH-g by GC/MS	EDB/EDC by 8260B	OXYs by 8260B		Turnaround Time Requested
		MW-1 -1	09-15-06 0654	GW					X	X	X	X	X		STD
		MW-2 -2	↓ 0633	GW					X	X	X				STD
		MW-3 -3	↓ 0614	GW					X	X	X				STD

CHK BY: OTO DISTRIBUTION: [illegible] SUB-OUT □

Comments:

Global ID: T0600102231

Relinquished by:	Received by:	Date & Time:
Chris [signature]	Refrigerator	09-15-06 / 1230
Relinquished by (Signature): [signature]	Received by: Ross Dickey	9/15/06 1440
Relinquished by (Signature): Ross Dickey	Received by: [signature]	9/18/06 1755
Rel: [signature] 9/18/06 2035	[signature]	9/18/06 2035

(A) = ANALYSIS (C) = CONTAINER (P) = PRESERVATIVE

STATEMENTS

Purge Water Disposal

Non-hazardous groundwater produced during purging and sampling of monitoring was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc., to the ConocoPhillips Refinery at Rodeo, California. Disposal at the Rodeo facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures – Water Quality and Compliance", as revised on February 7, 2003. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file at TRC's Concord Office. Purge water containing a significant amount of liquid-phase hydrocarbons was accumulated separately in drums for transportation and disposal by Filter Recycling, Inc.

Limitations

The fluid level monitoring and groundwater sampling activities summarized in this report have been performed under the responsible charge of a California Registered Geologist or Registered Civil Engineer and have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.