ConocoPhillips
76 Broadway
Sacramento, California 95818

October 29, 2009

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

Re: ***Semi Annual Summary Report--Second Quarter through Third Quarter 2009***
76 Service Station # 3538 RO # 0251
411 W. MacArthur Blvd.
Oakland, CA

Dear Ms. Jakub:

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

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

Sincerely,

Terry L. Grayson
Site Manager
Risk Management & Remediation

October 28, 2009

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

Re: Semi-Annual Summary Report – Second Quarter through Third Quarter 2009
Delta Project No. C1Q3538091
Alameda County LOP Case No. R0251

DELTA

Dear Ms. Jakub,

On behalf of ConocoPhillips Company (ConocoPhillips), Delta Consultants (Delta) is submitting the subject report and forwarding a copy of TRC's *Semi-Annual Monitoring Report April through September 2009,* dated October 9, 2009 for the following location:

Service Station	**Location**
ConocoPhillips Site No. 3538	411 W. MacArthur Blvd. Oakland, California

Please contact the undersigned at (408) 826-1863 if you have any questions.

Sincerely,
Delta Consultants

Evan Chantikian
Staff Geologist

PROFESSIONAL GEOLOGIST
LIA HOLDEN
No. 8584
Exp. 7/11
STATE OF CALIFORNIA

Lia Holden, PG #8584
Geologist—Project Manager

Enclosure

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
Fax +1 408.225.8506 www.deltaenv.com

SITE DESCRIPTION

The subject site is a former Tosco (76) service station located on the southwest corner of Mac Arthur Boulevard and Webster Street in Oakland, California. The site is currently a used car sales lot and is entirely fenced. All petroleum storage and dispensing equipment were removed in September of 1998, during station demolition activities. Six groundwater-monitoring wells are present, four on-site wells and two off-site wells.

SITE BACKGROUND AND ACTIVITY

July 1989 One 10,000-gallon and one 12,000-gallon gasoline underground storage tanks (USTs) were removed and replaced with two new 12,000-gallon USTs. One 550-gallon waste oil UST and the associated piping for all three tanks were also removed. No holes or cracks were observed in the gasoline USTs; however, holes were observed in the waste oil UST. Groundwater was encountered in the former UST pit at a depth of approximately 10.5 feet below ground surface (bgs), which prohibited the collection of soil samples below the former fuel USTs. Confirmation soil samples from the sidewalls contained moderate maximum concentrations of total petroleum hydrocarbons as gasoline (TPH-G), and low maximum concentrations of benzene. These sample areas were subsequently over-excavated. Soil samples from the base of the waste oil UST pit did not contain detections of TPH-G or benzene, toluene, ethylbenzene, and xylenes (BTEX compounds). (Kaprealian Engineering, INC., 1989)

September 1989 Kaprealian Engineering, INC. (KEI) installed four groundwater monitoring wells at the site to depths of approximately 30 feet bgs.

November 1992 Two additional groundwater monitoring wells were installed off-site to a depth of 30 feet bgs. (KEI, 1993)

September 1998 Two 12,000-gallon gasoline USTs and associated product piping and dispensers were removed from the site during station demolition activities. No holes or cracks were observed in the tanks. Confirmation soil samples contained low maximum concentrations of TPH-G and benzene. Methyl butyl ether (MTBE) was not detected.

October 2003 Site environmental consulting responsibilities were transferred to TRC.

March 2006 TRC conducted additional soil and groundwater assessment at the Site. The investigation involved the advancement of three onsite soil borings (SB-3, SB-4, and SB-5) and two offsite soil borings (SB-1 and SB-2) to sufficient depth to obtain representative groundwater samples (approximately 16 feet bgs).

October 2007 Site environmental consulting responsibilities were transferred to Delta.

SENSITIVE RECEPTORS

A sensitive receptor survey has been conducted for the site. According to the California Department of Water Resources (DWR) records, no water supply wells have been located

within 2,000 feet of the site. The nearest well identified was a private water well located approximately 2,500 feet east-southeast of the site.

GROUNDWATER MONITORING AND SAMPLING

Currently, the two onsite monitoring wells MW-2 and MW-3 are monitored semi-annually during the first and third quarters and the remaining four wells are monitored annually during the third quarter. During the third quarter of 2009, the groundwater flow direction beneath the site was reported south at a gradient of 0.01 feet per feet (ft/ft). This is consistent with the previous calculated gradient of 0.01 ft/ft south during the first quarter 2009 sampling event.

Dissolved groundwater concentrations are reported as follows.

TPH-G: Not reported above the laboratory reporting limit in any of the site groundwater monitoring wells (MW-1 through MW-6). In the third quarter 2008, TPH-G was detected at a concentration of 56 µg/l in on-site well MW-3. With the exception of the third quarter 2008 detection min MW-3, TPH-G has not been detected in well MW-3, or any site well, since the first quarter 2007.

Benzene: Was detected in well MW-2 at a concentration of 2.7 µg/l. During the previous sampling event, in the first quarter of 2009, benzene was detected in well MW-2 at a concentration of 3.5 µg/l. Benzene was not detected above the laboratory reporting limit in any other site wells this quarter.

MTBE MTBE was detected by EPA Method 8021B in wells MW-2 and MW-3 at concentrations of 1.1 µg/l and 30 µg/l, respectively, in the current quarter. Historically, MTBE has been detected fairly consistently in on-site wells MW-2 and MW-3. MTBE was detected in well MW-6 during the third quarter 2008, but has only been detected in MW-6 three times since 1996.

REMEDIATION STATUS

October 1998 A total of 516.44 tons (approximately 380 cubic yards) of soil generated during station demolition was transported from the site to Forward Landfill in Manteca, California for disposal.

Active soil and groundwater remediation is not currently being conducted at the site.

CONCLUSIONS AND RECOMMENDATIONS

Analyte concentrations in the Site's monitoring wells continue to decline. In Delta's Site Conceptual Model dated November 21, 2008, Delta proposed collecting a grab-groundwater sample no more than 30 feet south of the site to assess the southern extent of the hydrocarbon and fuel oxygenate plume.

Delta did not receive agency response to the SCM or the recommendations proposed within the November 21, 2008 SCM. Delta then submitted a *Work Plan for Additional*

Assessment dated June 3, 2009 detailing the scope initially proposed in the November 2008 SCM. To date, Delta has not received a response from the agency regarding the November 2008 SCM or the June 2009 work plan; however, Delta and ConocoPhillips have been moving forward with private property access procurement, in preparation of agency approval.

Although several letters have been issued to the property owner, no response has been received. Upon approval of the work plan, Delta will request agency assistance in procuring access to the private property south of the site.

RECENT CORRESPONDENCE

No correspondence was sent or received during the current quarter.

SECOND AND THIRD QUARTER 2009 ACTIVITIES

- Monitoring and sampling of the groundwater monitoring well network was conducted by TRC on September 17, 2009.

FOURTH AND FIRST QUARTER PLANNED ACTIVITIES

- TRC prepared the *Semi-Annual Monitoring Report, April through September 2009, dated October 9, 2009.*

- Delta prepared and submitted the *Semi-Annual Status Report, Third Quarter – 2009.*

- **As it has been greater than 60 days since submittal of the proposed investigation (June 3, 2009). Upon access procurement, Delta will conduct field activities as proposed in Delta's *Work Plan for Additional Assessment*.**

REMARKS

The descriptions, conclusions, and recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. For any reports cited that were not generated by Delta, the data from those reports is used "as is" and is assumed to be accurate. Delta does not guarantee the accuracy of this data for the referenced work performed nor the inferences or conclusions stated in these reports. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were conducted. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

CONSULTANT: Delta Consultants

REFERENCES CITED

Kaprealian Engineering, Inc., *Preliminary Ground Water Investigation*, *Unocal Service Station 3538, 411 MacArthur Blvd,, Oakland, California*, October, 23, 1989.

Kaprealian Engineering, Inc., *Continuing Ground Water Investigation*, *Unocal Service Station 3538, 411 MacArthur Blvd,, Oakland, California*, January 18, 1993.

Gettler-Ryan Inc., *Well Installation Report, Tosco (76) Service Station No. 0018, 6201 Claremont Avenue, Oakland, California*, December 18, 2000.

Gettler-Ryan Inc., *Request for Closure*, *76 Station 3538, 411 MacArthur Blvd, Oakland, California*, October 30, 2002.

EPA, List of Drinking Water Contaminants & MCLs, U.S. Environmental Protection Agency, Washington, DC, Retrieved October 14, 2003 from http://www.epa.gov/safewater/mcl.html#mcls.

TRC, *Soil and Groundwater Investigation Report, 76 Station 3538, 411 MacArthur Blvd, Oakland, California*, April 28, 2006.

Office of Environment Health Hazard Assessment, http://oehha.ca.gov/water/phg/allphgs.html, January 2, 2009

TRC, *Semi-Annual Monitoring Report, April through September 2009, Former 76 Station 3538, 411 West MacArthur Blvd, Oakland, CA*, October 9, 2009.

21 Technology Drive
Irvine, CA 92618

949.788.9990 PHONE
949.788.9995 FAX

www.TRCsolutions.com

DATE: October 9, 2009

TO: ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

ATTN: MR. TERRY GRAYSON

SITE: FORMER 76 STATION 3538
411 WEST MACARTHUR BLVD.
OAKLAND, CALIFORNIA

RE: SEMI-ANNUAL MONITORING REPORT
APRIL THROUGH SEPTEMBER 2009

Dear Mr. Grayson:

Please find enclosed our Semi-Annual Monitoring Report for Former 76 Station 3538, located at 411 West MacArthur Blvd, 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. Lia Holden, Delta Consultants (2 copies)

Enclosures
20-0400/3538R12.QMS

SEMI-ANNUAL MONITORING REPORT
APRIL THROUGH SEPTEMBER 2009

FORMER 76 STATION 3538
411 West MacArthur Blvd.
Oakland, California

Prepared For:

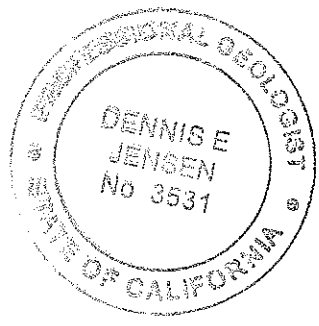
Mr. Terry Grayson
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, California 95818

By:

Dennis E Jensen

Senior Project Geologist, Irvine Operations

Date: 10/9/09



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 2: Historic Fluid Levels and Selected Analytical Results Table 2a: Additional Historic Analytical Results Table 2b: Additional Historic Analytical Results Table 2c: Additional Historic Analytical Results Table 2d: Additional Historic Analytical Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPH-G by 8015M 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 – 09/17/09 Groundwater Sampling Field Notes – 09/17/09
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Disposal Documents	Disposal/Treatment Manifests – Current (Pending)
Statements	Limitations

Summary of Gauging and Sampling Activities
April 2009 through September 2009
Former 76 Station 3538
411 West MacArthur Blvd.
Oakland, CA

Project Coordinator: **Terry Grayson**
Telephone: **916-558-7666**
Water Sampling Contractor: ***TRC***
Compiled by: **Christina Carrillo**
Date(s) of Gauging/Sampling Event: **09/17/09**

Sample Points

Groundwater wells: **4** onsite, **2** offsite Points gauged: **6** Points sampled: **6**
Purging method: **Bailer/submersible pump**
Purge water disposal: **Crosby and Overton treatment facility**
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: **15.31 feet** Maximum: **18.18 feet**
Average groundwater elevation (relative to available local datum): **54.02 feet**
Average change in groundwater elevation since previous event: **-0.56 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.01 ft/ft, south**
Previous event: **0.01 ft/ft, south (03/27/09)**

Selected Laboratory Results

Sample Points with detected **Benzene:** **1** Sample Points above MCL (1.0 µg/l): **1**
Maximum reported benzene concentration: **2.7 µg/l (MW-2)**

Sample Points with **TPH-G** **0**
Sample Points with **MTBE 8021B** **2** Maximum: **30 µg/l (MW-3)**

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)
D	=	duplicate
P	=	no-purge sample

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.

REFERENCE

TRC began groundwater monitoring and sampling for Former 76 Station 3538 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

Contents of Tables 1 and 2
Site: Former 76 Station 3538

Current Event

Table 1	Well/ Date	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G 8015	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	

Historic Data

Table 2	Well/ Date	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G 8015	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	
Table 2a	Well/ Date	TPH-D	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME	Total Oil and Grease	Bromo-dichloro-methane	Bromo-form	Bromo-methane
Table 2b	Well/ Date	Carbon Tetra-chloride	Chloro-benzene	Chloro-ethane	Chloroform	Chloro-methane	Dibromo-chloro-methane	1,2-Dichloro-benzene	1,3-Dichloro-benzene	1,4-Dichloro-benzene	Dichloro-difluoro-methane	1,1-DCA	1,1-DCE
Table 2c	Well/ Date	cis-1,2-DCE	trans-1,2-DCE	1,2-Dichloro-propane	cis-1,3-Dichloro-propene	trans-1,3-Dichloro-propene	Methylene chloride	1,1,2,2-Tetrachloro-ethane	Tetrachloro-ethene (PCE)	Trichloro-trifluoro-ethane	1,1,1-Trichloro-ethane	1,1,2-Trichloro-ethane	Trichloro-ethene (TCE)
Table 2d	Well/ Date	Trichloro-fluoro-methane	Vinyl chloride										

Table 1

CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

September 17, 2009

Former 76 Station 3538

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (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													
09/17/09	72.12	18.18	0.00	53.94	-1.43	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
MW-2													
09/17/09	71.34	18.01	0.00	53.33	-0.58	ND<50	2.7	ND<0.30	ND<0.30	ND<0.60	1.1	--	
MW-3													
09/17/09	71.40	17.88	0.00	53.52	-0.54	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	30	--	
MW-4													
09/17/09	71.54	17.86	0.00	53.68	-0.69	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
MW-5													
09/17/09	71.16	17.60	0.00	53.56	-0.46	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
MW-6													
09/17/09	71.37	15.31	0.00	56.06	0.35	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

September 1989 Through September 2009

Former 76 Station 3538

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (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													
09/15/89	--	--	--	--	--	ND	ND	0.61	ND	ND	--	--	
01/23/90	--	--	--	--	--	ND	1.5	2.3	ND	4.3	--	--	
04/19/90	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
07/17/90	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
10/16/90	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
01/15/91	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
04/12/91	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
07/15/91	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
07/14/92	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
04/13/93	72.43	17.70	0.00	54.73	--	--	--	--	--	--	--	--	Sampled Q3 only
07/14/93	72.43	18.49	0.00	53.94	-0.79	ND	2.2	2.1	1.1	6.2	--	--	
10/14/93	72.10	18.32	0.00	53.78	-0.16	--	--	--	--	--	--	--	Sampled Q3 only
01/12/94	72.10	18.18	0.00	53.92	0.14	--	--	--	--	--	--	--	Sampled Q3 only
04/11/94	72.10	17.80	0.00	54.30	0.38	--	--	--	--	--	--	--	Sampled Q3 only
07/07/94	72.10	18.28	0.00	53.82	-0.48	ND	ND	ND	ND	ND	--	--	
10/05/94	72.10	18.55	0.00	53.55	-0.27	--	--	--	--	--	--	--	Sampled Q3 only
01/09/95	72.10	17.90	0.00	54.20	0.65	--	--	--	--	--	--	--	Sampled Q3 only
04/17/95	72.10	17.22	0.00	54.88	0.68	--	--	--	--	--	--	--	Sampled Q3 only
07/19/95	72.10	18.03	0.00	54.07	-0.81	ND	ND	ND	ND	ND	--	--	
10/26/95	72.10	18.67	0.00	53.43	-0.64	--	--	--	--	--	--	--	Sampled Q3 only
01/16/96	72.10	17.20	0.00	54.90	1.47	--	--	--	--	--	--	--	Sampled Q3 only
04/15/96	72.10	17.40	0.00	54.70	-0.20	--	--	--	--	--	--	--	Sampled Q3 only

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
September 1989 Through September 2009
Former 76 Station 3538

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1 continued													
07/11/96	72.10	18.03	0.00	54.07	-0.63	ND	ND	ND	ND	ND	ND	--	
01/17/97	72.10	16.54	0.00	55.56	1.49	--	--	--	--	--	--	--	Sampled Q3 only
07/21/97	72.10	18.16	0.00	53.94	-1.62	ND	ND	ND	ND	ND	ND	--	
01/14/98	72.10	16.05	0.00	56.05	2.11	--	--	--	--	--	--	--	Sampled Q3 only
07/06/98	72.10	16.46	0.00	55.64	-0.41	ND	ND	ND	ND	ND	ND	--	
01/13/99	72.10	17.37	0.00	54.73	-0.91	--	--	--	--	--	--	--	Sampled Q3 only
08/31/99	72.12	17.00	0.00	55.12	0.39	ND	ND	ND	ND	ND	ND	--	
01/21/00	72.12	17.04	0.00	55.08	-0.04	--	--	--	--	--	--	--	Sampled Q3 only
07/10/00	72.12	18.10	0.00	54.02	-1.06	ND	ND	ND	ND	ND	ND	--	
01/04/01	72.12	17.95	0.00	54.17	0.15	--	--	--	--	--	--	--	Sampled Q3 only
07/16/01	72.12	18.03	0.00	54.09	-0.08	ND	ND	ND	ND	ND	ND	--	
01/28/02	72.12	17.31	0.00	54.81	0.72	--	--	--	--	--	--	--	Sampled Q3 only
07/12/02	72.12	18.15	0.00	53.97	-0.84	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
01/14/03	72.12	17.66	0.00	54.46	0.49	--	--	--	--	--	--	--	Sampled Q3 only
07/10/03	72.12	17.86	0.00	54.26	-0.20	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
02/04/04	72.12	17.43	0.00	54.69	0.43	--	--	--	--	--	--	--	Sampled Q3 only
07/29/04	72.12	18.12	0.00	54.00	-0.69	ND<50	ND<0.3	0.38	ND<0.3	ND<0.6	ND<1	ND<0.5	
03/02/05	72.12	16.15	0.00	55.97	1.97	--	--	--	--	--	--	--	Sampled Q3 only
09/30/05	72.12	18.04	0.00	54.08	-1.89	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	ND<0.50	
03/23/06	72.12	--	--	--	--	--	--	--	--	--	--	--	Inaccessible due to gate; Sampled Q3 only
09/26/06	72.12	17.90	0.00	54.22	--	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	ND<0.50	
03/15/07	72.12	17.22	0.00	54.90	0.68	--	--	--	--	--	--	--	Sampled Q3 only

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
September 1989 Through September 2009
Former 76 Station 3538

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (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													
09/27/07	72.12	18.49	0.00	53.63	-1.27	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	ND<0.50	
03/27/08	72.12	17.57	0.00	54.55	0.92	--	--	--	--	--	--	--	Sampled Q3 only
09/17/08	72.12	18.20	0.00	53.92	-0.63	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	ND<0.50	
03/27/09	72.12	16.75	0.00	55.37	1.45	--	--	--	--	--	--	--	Sampled Q3 only
09/17/09	72.12	18.18	0.00	53.94	-1.43	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
MW-2													
09/15/89	--	--	--	--	--	290	ND	12	ND	ND	--	--	
01/23/90	--	--	--	--	--	400	73	36	10	40	--	--	
04/19/90	--	--	--	--	--	3900	550	5.1	91	390	--	--	
07/17/90	--	--	--	--	--	490	76	0.59	11	46	--	--	
10/16/90	--	--	--	--	--	1400	430	2.0	48	240	--	--	
01/15/91	--	--	--	--	--	680	170	0.7	19	81	--	--	
04/12/91	--	--	--	--	--	2200	160	4.3	23	62	--	--	
07/15/91	--	--	--	--	--	2200	770	12	72	370	--	--	
10/15/91	--	--	--	--	--	140	44	0.56	1.5	12	--	--	
01/15/92	--	--	--	--	--	220	37	0.52	1.1	7	--	--	
04/14/92	--	--	--	--	--	150	6.2	ND	ND	1.4	--	--	
07/14/92	--	--	--	--	--	130	3.7	ND	ND	ND	--	--	
10/12/92	--	--	--	--	--	370	3.4	0.56	ND	11	--	--	
01/08/93	--	--	--	--	--	510	ND	ND	ND	ND	--	--	
04/13/93	71.63	17.86	0.00	53.77	--	410	42	7.7	6.4	28	200	--	
07/14/93	71.63	18.38	0.00	53.25	-0.52	110	6.5	ND	ND	1.1	250	--	
10/14/93	71.38	18.20	0.00	53.18	-0.07	230	5.3	ND	ND	2.1	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
September 1989 Through September 2009
Former 76 Station 3538

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (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													
01/12/94	71.38	18.08	0.00	53.30	0.12	300	7.8	3.8	1.8	10	--	--	
04/09/94	71.38	17.97	0.00	53.41	0.11	120	10	0.88	1.1	4.9	--	--	
04/11/94	71.38	17.88	0.00	53.50	0.09	--	--	--	--	--	--	--	
07/07/94	71.38	17.81	0.00	53.57	0.07	110	4.4	ND	ND	ND	--	--	
10/05/94	71.38	18.33	0.00	53.05	-0.52	720	20	ND	ND	3.1	--	--	
01/09/95	71.38	17.40	0.00	53.98	0.93	ND	ND	ND	ND	ND	--	--	
04/17/95	71.38	17.50	0.00	53.88	-0.10	93	5.6	0.62	1.7	5.5	--	--	
07/19/95	71.38	18.01	0.00	53.37	-0.51	77	32	0.58	1.7	4.1	--	--	
10/26/95	71.38	18.21	0.00	53.17	-0.20	54	13	ND	ND	0.72	220	--	
01/16/96	71.38	16.58	0.00	54.80	1.63	120	23	ND	ND	0.99	--	--	
04/15/96	71.38	17.61	0.00	53.77	-1.03	340	21	ND	2.2	3.7	45	--	
07/11/96	71.38	17.98	0.00	53.40	-0.37	540	34	ND	4.3	12	150	--	
01/17/97	71.38	17.08	0.00	54.30	0.90	320	63	2.4	9.4	26	260	--	
07/21/97	71.38	18.06	0.00	53.32	-0.98	160	13	ND	1.3	1.6	180	--	
01/14/98	71.38	16.52	0.00	54.86	1.54	66	6.3	ND	ND	0.98	100	--	
07/06/98	71.38	16.87	0.00	54.51	-0.35	ND	2.3	ND	ND	ND	11	--	
01/13/99	71.38	17.88	0.00	53.50	-1.01	53	24	ND	0.52	0.98	120	--	
08/31/99	71.34	18.45	0.00	52.89	-0.61	86	14	ND	0.63	ND	21	--	
01/21/00	71.34	17.73	0.00	53.61	0.72	ND	1.94	ND	ND	ND	10.1	--	
07/10/00	71.34	18.14	0.00	53.20	-0.41	ND	ND	ND	ND	ND	46.6	--	
01/04/01	71.34	18.02	0.00	53.32	0.12	ND	0.925	ND	ND	ND	ND	--	
07/16/01	71.34	18.02	0.00	53.32	0.00	ND	ND	ND	ND	ND	ND	--	
01/28/02	71.34	17.57	0.00	53.77	0.45	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
September 1989 Through September 2009
Former 76 Station 3538

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-2 continued													
07/12/02	71.34	18.05	0.00	53.29	-0.48	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
01/14/03	71.34	17.44	0.00	53.90	0.61	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
07/10/03	71.34	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
02/04/04	71.34	17.22	0.00	54.12	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	--	
07/29/04	71.34	--	--	--	--	--	--	--	--	--	--	--	Sampled Q3 only
03/02/05	71.34	16.63	0.00	54.71	--	99	26	ND<0.50	3.5	2.8	ND<5.0	--	
09/30/05	71.34	17.94	0.00	53.40	-1.31	ND<50	1.2	ND<0.30	ND<0.30	ND<0.60	1.6	--	
03/23/06	71.34	16.74	0.00	54.60	1.20	ND<50	3.6	ND<0.30	0.35	ND<0.60	2.5	--	
09/26/06	71.34	17.91	0.00	53.43	-1.17	ND<50	1.2	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
03/15/07	71.34	17.45	0.00	53.89	0.46	110	6.5	ND<0.30	0.70	ND<0.60	1.7	--	
09/27/07	71.34	18.23	0.00	53.11	-0.78	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
03/27/08	71.34	17.77	0.00	53.57	0.46	ND<50	1.8	ND<0.30	ND<0.30	ND<0.60	1.3	--	
09/17/08	71.34	18.06	0.00	53.28	-0.29	ND<50	1.6	ND<0.30	ND<0.30	ND<0.60	3.1	--	
03/27/09	71.34	17.43	0.00	53.91	0.63	ND<50	3.5	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
09/17/09	71.34	18.01	0.00	53.33	-0.58	ND<50	2.7	ND<0.30	ND<0.30	ND<0.60	1.1	--	
MW-3													
09/15/89	--	--	--	--	--	32	ND	ND	ND	ND	--	--	
01/23/90	--	--	--	--	--	450	110	1.2	4.4	11	--	--	
04/19/90	--	--	--	--	--	3100	600	27	54	220	--	--	
07/17/90	--	--	--	--	--	4000	270	48	130	250	--	--	
10/16/90	--	--	--	--	--	740	210	1.4	2.5	82	--	--	
01/15/91	--	--	--	--	--	3200	460	1.5	120	270	--	--	
04/12/91	--	--	--	--	--	880	170	1.1	34	110	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
September 1989 Through September 2009
Former 76 Station 3538

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (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													
07/15/91	--	--	--	--	--	9200	1300	230	490	1900	--	--	
10/15/91	--	--	--	--	--	3100	390	34	150	390	--	--	
01/15/92	--	--	--	--	--	3000	590	14	310	750	--	--	
04/14/92	--	--	--	--	--	14000	660	48	560	2000	--	--	
07/14/92	--	--	--	--	--	21000	890	200	1200	4300	--	--	
10/12/92	--	--	--	--	--	3200	160	10	230	540	--	--	
01/08/93	--	--	--	--	--	1100	48	0.99	0.9	93	--	--	
04/13/93	72.06	17.96	0.00	54.10	--	12000	290	38	760	2300	1400	--	
07/14/93	72.06	18.54	0.00	53.52	-0.58	6300	190	ND	430	1000	860	--	
10/14/93	71.86	18.45	0.00	53.41	-0.11	2500	52	ND	110	250	--	--	
01/12/94	71.86	18.34	0.00	53.52	0.11	3800	78	ND	180	390	--	--	
04/09/94	71.86	18.19	0.00	53.67	0.15	1800	22	ND	140	280	--	--	
04/11/94	71.86	18.12	0.00	53.74	0.07	--	--	--	--	--	--	--	
07/07/94	71.86	18.21	0.00	53.65	-0.09	110	4.5	ND	ND	ND	--	--	
10/05/94	71.86	18.58	0.00	53.28	-0.37	ND	ND	ND	ND	ND	--	--	
01/09/95	71.86	17.69	0.00	54.17	0.89	ND	0.68	ND	ND	ND	--	--	
04/17/95	71.86	17.68	0.00	54.18	0.01	3700	80	10	270	510	--	--	
07/19/95	71.86	18.20	0.00	53.66	-0.52	15000	330	27	990	2400	--	--	
10/26/95	71.86	18.32	0.00	53.54	-0.12	14000	420	180	750	1600	4800	--	
01/16/96	71.86	17.95	0.00	53.91	0.37	920	38	ND	30	57	--	--	
04/15/96	71.86	17.78	0.00	54.08	0.17	9700	240	ND	570	860	3200	--	
07/11/96	71.86	18.19	0.00	53.67	-0.41	13000	69	5.5	430	900	740	--	
01/17/97	71.86	17.23	0.00	54.63	0.96	4400	25	ND	270	580	1600	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
September 1989 Through September 2009
Former 76 Station 3538

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (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													
07/21/97	71.86	18.29	0.00	53.57	-1.06	9000	36	ND	450	800	950	--	
01/14/98	71.86	16.71	0.00	55.15	1.58	7100	40	ND	380	360	930	--	
07/06/98	71.86	17.03	0.00	54.83	-0.32	6800	39	ND	320	360	370	--	
01/13/99	71.86	18.00	0.00	53.86	-0.97	1800	9.4	ND	58	36	180	--	
08/31/99	71.40	--	0.00	--	--	--	--	--	--	--	--	--	Well obstructed at 0.5 feet.
01/21/00	71.40	17.58	0.00	53.82	--	ND	ND	ND	ND	ND	21.4	--	
07/10/00	71.40	18.05	0.00	53.35	-0.47	ND	ND	ND	ND	ND	162	--	
08/25/00	71.40	17.82	0.00	53.58	0.23	--	--	--	--	--	--	180	
01/04/01	71.40	18.16	0.00	53.24	-0.34	ND	ND	ND	ND	ND	193	--	
07/16/01	71.40	17.98	0.00	53.42	0.18	ND	ND	ND	ND	ND	660	--	
01/28/02	71.40	17.84	0.00	53.56	0.14	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	34	--	
07/12/02	71.40	17.87	0.00	53.53	-0.03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	11	19	
01/14/03	71.40	17.28	0.00	54.12	0.59	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	12	--	
07/10/03	71.40	17.64	0.00	53.76	-0.36	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	23	--	
02/04/04	71.40	17.05	0.00	54.35	0.59	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	26	--	
07/29/04	71.40	17.82	0.00	53.58	-0.77	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<1	--	
03/02/05	71.40	16.47	0.00	54.93	1.35	93	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140	--	
09/30/05	71.40	17.79	0.00	53.61	-1.32	65	ND<0.30	ND<0.30	ND<0.30	ND<0.60	61	--	
03/23/06	71.40	16.61	0.00	54.79	1.18	54	ND<0.30	0.41	ND<0.30	0.98	63	--	
09/26/06	71.40	17.77	0.00	53.63	-1.16	51	ND<0.30	ND<0.30	ND<0.30	ND<0.60	41	--	
03/15/07	71.40	17.27	0.00	54.13	0.50	140	ND<0.30	ND<0.30	ND<0.30	ND<0.60	110	--	
09/27/07	71.40	18.48	0.00	52.92	-1.21	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	20	--	
03/27/08	71.40	17.67	0.00	53.73	0.81	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	19	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
September 1989 Through September 2009
Former 76 Station 3538

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (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													
09/17/08	71.40	17.91	0.00	53.49	-0.24	56	ND<0.30	ND<0.30	ND<0.30	ND<0.60	43	--	
03/27/09	71.40	17.34	0.00	54.06	0.57	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	15	--	
09/17/09	71.40	17.88	0.00	53.52	-0.54	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	30	--	
MW-4													
09/15/89	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
01/23/90	--	--	--	--	--	ND	ND	0.4	ND	ND	--	--	
04/19/90	--	--	--	--	--	ND	ND	0.48	ND	ND	--	--	
07/17/90	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
10/16/90	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
01/15/91	--	--	--	--	--	ND	ND	ND	--	ND	--	--	
04/12/91	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
07/15/91	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
07/14/92	--	--	--	--	--	ND	1.3	2.5	ND	1.0	--	--	
04/13/93	71.98	17.67	0.00	54.31	--	--	--	--	--	--	--	--	Sampled Q3 only
07/14/93	71.98	18.31	0.00	53.67	-0.64	ND	ND	ND	ND	ND	--	--	
10/14/93	71.64	18.08	0.00	53.56	-0.11	--	--	--	--	--	--	--	Sampled Q3 only
01/12/94	71.64	17.97	0.00	53.67	0.11	--	--	--	--	--	--	--	Sampled Q3 only
04/11/94	71.64	17.70	0.00	53.94	0.27	--	--	--	--	--	--	--	Sampled Q3 only
07/07/94	71.64	17.80	0.00	53.84	-0.10	ND	ND	ND	ND	ND	--	--	
10/05/94	71.64	18.28	0.00	53.36	-0.48	--	--	--	--	--	--	--	Sampled Q3 only
01/09/95	71.64	17.38	0.00	54.26	0.90	--	--	--	--	--	--	--	Sampled Q3 only
04/17/95	71.64	17.21	0.00	54.43	0.17	--	--	--	--	--	--	--	Sampled Q3 only
07/19/95	71.64	17.82	0.00	53.82	-0.61	ND	ND	ND	ND	ND	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
September 1989 Through September 2009
Former 76 Station 3538

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4 continued													
10/26/95	71.64	18.17	0.00	53.47	-0.35	--	--	--	--	--	--	--	Sampled Q3 only
01/16/96	71.64	16.45	0.00	55.19	1.72	--	--	--	--	--	--	--	Sampled Q3 only
04/15/96	71.64	17.35	0.00	54.29	-0.90	--	--	--	--	--	--	--	Sampled Q3 only
07/11/96	71.64	17.81	0.00	53.83	-0.46	ND	ND	ND	ND	ND	ND	--	
01/17/97	71.64	16.73	0.00	54.91	1.08	--	--	--	--	--	--	--	Sampled Q3 only
07/21/97	71.64	17.91	0.00	53.73	-1.18	ND	ND	ND	ND	ND	ND	--	
01/14/98	71.64	16.18	0.00	55.46	1.73	--	--	--	--	--	--	--	Sampled Q3 only
07/06/98	71.64	16.49	0.00	55.15	-0.31	ND	ND	ND	ND	ND	ND	--	
01/13/99	71.64	17.29	0.00	54.35	-0.80	--	--	--	--	--	--	--	Sampled Q3 only
08/31/99	71.54	--	0.00	--	--	--	--	--	--	--	--	--	Well obstructed at 10.4 feet.
01/21/00	71.54	17.51	0.00	54.03	--	--	--	--	--	--	--	--	Sampled Q3 only
07/10/00	71.54	17.93	0.00	53.61	-0.42	ND	ND	ND	ND	ND	ND	--	
01/04/01	71.54	18.10	0.00	53.44	-0.17	--	--	--	--	--	--	--	Sampled Q3 only
07/16/01	71.54	17.76	0.00	53.78	0.34	ND	ND	ND	ND	ND	ND	--	
01/28/02	71.54	17.20	0.00	54.34	0.56	--	--	--	--	--	--	--	Sampled Q3 only
07/12/02	71.54	17.81	0.00	53.73	-0.61	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
01/14/03	71.54	17.30	0.00	54.24	0.51	--	--	--	--	--	--	--	Sampled Q3 only
07/10/03	71.54	17.58	0.00	53.96	-0.28	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
02/04/04	71.54	17.07	0.00	54.47	0.51	--	--	--	--	--	--	--	Sampled Q3 only
07/29/04	71.54	17.81	0.00	53.73	-0.74	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.6	ND<1	--	
03/02/05	71.54	16.25	0.00	55.29	1.56	--	--	--	--	--	--	--	Sampled Q3 only
09/30/05	71.54	17.74	0.00	53.80	-1.49	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
September 1989 Through September 2009
Former 76 Station 3538

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4 continued													
03/23/06	71.54	--	--	--	--	--	--	--	--	--	--	--	Inaccessible due to gate; Sampled Q3 only
09/26/06	71.54	17.71	0.00	53.83	--	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
03/15/07	71.54	17.56	0.00	53.98	0.15	--	--	--	--	--	--	--	Sampled Q3 only
09/27/07	71.54	18.16	0.00	53.38	-0.60	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
03/27/08	71.54	17.58	0.00	53.96	0.58	--	--	--	--	--	--	--	Sampled Q3 only
09/17/08	71.54	17.87	0.00	53.67	-0.29	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
03/27/09	71.54	17.17	0.00	54.37	0.70	--	--	--	--	--	--	--	Sampled Q3 only
09/17/09	71.54	17.86	0.00	53.68	-0.69	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
MW-5													
11/30/92	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
01/08/93	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
04/13/93	71.51	17.49	0.00	54.02	--	ND	ND	ND	ND	ND	--	--	
07/14/93	71.51	18.02	0.00	53.49	-0.53	ND	ND	0.57	ND	ND	--	--	
10/14/93	71.23	17.82	0.00	53.41	-0.08	ND	ND	ND	ND	ND	--	--	
01/12/94	71.23	17.74	0.00	53.49	0.08	ND	ND	0.84	ND	1.6	--	--	
04/11/94	71.23	17.56	0.00	53.67	0.18	--	--	--	--	--	--	--	Sampled Q3 only
07/07/94	71.23	17.50	0.00	53.73	0.06	ND	ND	ND	ND	ND	--	--	
10/05/94	71.23	17.98	0.00	53.25	-0.48	--	--	--	--	--	--	--	Sampled Q3 only
01/09/95	71.23	17.13	0.00	54.10	0.85	--	--	--	--	--	--	--	Sampled Q3 only
04/17/95	71.23	17.05	0.00	54.18	0.08	--	--	--	--	--	--	--	Sampled Q3 only
07/19/95	71.23	17.59	0.00	53.64	-0.54	ND	ND	ND	ND	ND	--	--	
10/26/95	71.23	18.10	0.00	53.13	-0.51	--	--	--	--	--	--	--	Sampled Q3 only

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
September 1989 Through September 2009
Former 76 Station 3538

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-5 continued													
01/16/96	71.23	17.11	0.00	54.12	0.99	--	--	--	--	--	--	--	Sampled Q3 only
04/15/96	71.23	17.22	0.00	54.01	-0.11	--	--	--	--	--	--	--	Sampled Q3 only
07/11/96	71.23	17.59	0.00	53.64	-0.37	ND	ND	ND	ND	ND	ND	--	
01/17/97	71.23	16.75	0.00	54.48	0.84	--	--	--	--	--	--	--	Sampled Q3 only
07/21/97	71.23	17.59	0.00	53.64	-0.84	ND	ND	ND	ND	ND	ND	--	
01/14/98	71.23	16.16	0.00	55.07	1.43	--	--	--	--	--	--	--	Sampled Q3 only
07/06/98	71.23	16.52	0.00	54.71	-0.36	ND	ND	ND	ND	ND	ND	--	
01/13/99	71.23	17.62	0.00	53.61	-1.10	--	--	--	--	--	--	--	Sampled Q3 only
08/31/99	71.16	17.76	0.00	53.40	-0.21	ND	ND	ND	ND	ND	ND	--	
01/21/00	71.16	16.83	0.00	54.33	0.93	--	--	--	--	--	--	--	Sampled Q3 only
07/10/00	71.16	17.46	0.00	53.70	-0.63	ND	ND	ND	ND	ND	ND	--	
01/04/01	71.16	17.51	0.00	53.65	-0.05	--	--	--	--	--	--	--	Sampled Q3 only
07/16/01	71.16	17.32	0.00	53.84	0.19	ND	ND	ND	ND	ND	ND	--	
01/28/02	71.16	17.12	0.00	54.04	0.20	--	--	--	--	--	--	--	Sampled Q3 only
07/12/02	71.16	17.12	0.00	54.04	0.00	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
01/14/03	71.16	16.67	0.00	54.49	0.45	--	--	--	--	--	--	--	Sampled Q3 only
07/10/03	71.16	17.39	0.00	53.77	-0.72	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
02/04/04	71.16	16.23	0.00	54.93	1.16	--	--	--	--	--	--	--	Sampled Q3 only
07/29/04	71.16	16.02	0.00	55.14	0.21	ND<50	ND<0.3	0.64	ND<0.3	0.79	ND<1	--	
03/02/05	71.16	16.43	0.00	54.73	-0.41	--	--	--	--	--	--	--	Sampled Q3 only
09/30/05	71.16	17.41	0.00	53.75	-0.98	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
03/23/06	71.16	16.37	0.00	54.79	1.04	--	--	--	--	--	--	--	Sampled Q3 only
09/26/06	71.16	15.54	0.00	55.62	0.83	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
September 1989 Through September 2009
Former 76 Station 3538

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-5 continued													
03/15/07	71.16	17.20	0.00	53.96	-1.66	--	--	--	--	--	--	--	Sampled Q3 only
09/27/07	71.16	18.01	0.00	53.15	-0.81	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
03/27/08	71.16	17.57	0.00	53.59	0.44	--	--	--	--	--	--	--	Sampled Q3 only
09/17/08	71.16	17.68	0.00	53.48	-0.11	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
03/27/09	71.16	17.14	0.00	54.02	0.54	--	--	--	--	--	--	--	Sampled Q3 only
09/17/09	71.16	17.60	0.00	53.56	-0.46	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
MW-6													
11/30/92	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
01/08/93	--	--	--	--	--	ND	ND	ND	ND	ND	--	--	
04/13/93	71.79	11.94	0.00	59.85	--	ND	ND	ND	ND	ND	--	--	
07/14/93	71.79	17.20	0.00	54.59	-5.26	ND	0.99	2.4	ND	1.9	--	--	
10/14/93	71.44	17.21	0.00	54.23	-0.36	ND	ND	0.64	ND	ND	--	--	
01/12/94	71.44	17.44	0.00	54.00	-0.23	ND	ND	1.2	ND	2.9	--	--	
04/11/94	71.44	13.66	0.00	57.78	3.78	--	--	--	--	--	--	--	Sampled Q3 only
07/07/94	71.44	14.05	0.00	57.39	-0.39	ND	ND	ND	ND	ND	--	--	
10/05/94	71.44	14.16	0.00	57.28	-0.11	--	--	--	--	--	--	--	Sampled Q3 only
01/09/95	71.44	13.73	0.00	57.71	0.43	--	--	--	--	--	--	--	Sampled Q3 only
04/17/95	71.44	11.30	0.00	60.14	2.43	--	--	--	--	--	--	--	Sampled Q3 only
07/19/95	71.44	12.32	0.00	59.12	-1.02	ND	ND	ND	ND	ND	--	--	
10/26/95	71.44	17.88	0.00	53.56	-5.56	--	--	--	--	--	--	--	Sampled Q3 only
01/16/96	71.44	16.38	0.00	55.06	1.50	--	--	--	--	--	--	--	Sampled Q3 only
04/15/96	71.44	14.00	0.00	57.44	2.38	--	--	--	--	--	--	--	Sampled Q3 only
07/11/96	71.44	13.58	0.00	57.86	0.42	ND	ND	ND	ND	ND	ND	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
September 1989 Through September 2009
Former 76 Station 3538

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-6 continued													
01/17/97	71.44	15.42	0.00	56.02	-1.84	--	--	--	--	--	--	--	Sampled Q3 only
07/21/97	71.44	13.78	0.00	57.66	1.64	ND	ND	ND	ND	ND	ND	--	
01/14/98	71.44	13.65	0.00	57.79	0.13	--	--	--	--	--	--	--	Sampled Q3 only
07/06/98	71.44	13.90	0.00	57.54	-0.25	ND	ND	ND	ND	ND	ND	--	
01/13/99	71.44	14.93	0.00	56.51	-1.03	--	--	--	--	--	--	--	Sampled Q3 only
08/31/99	71.37	15.81	0.00	55.56	-0.95	ND	ND	ND	ND	ND	ND	--	
01/21/00	71.37	16.13	0.00	55.24	-0.32	--	--	--	--	--	--	--	Sampled Q3 only
07/10/00	71.37	16.95	0.00	54.42	-0.82	ND	ND	ND	ND	ND	ND	--	
01/04/01	71.37	17.09	0.00	54.28	-0.14	--	--	--	--	--	--	--	Sampled Q3 only
07/16/01	71.37	16.83	0.00	54.54	0.26	ND	ND	ND	ND	ND	ND	--	
01/28/02	71.37	14.58	0.00	56.79	2.25	--	--	--	--	--	--	--	Sampled Q3 only
07/12/02	71.37	16.76	0.00	54.61	-2.18	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
01/14/03	71.37	16.25	0.00	55.12	0.51	--	--	--	--	--	--	--	Sampled Q3 only
07/10/03	71.37	12.97	0.00	58.40	3.28	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.0	--	
02/04/04	71.37	16.20	0.00	55.17	-3.23	--	--	--	--	--	--	--	Sampled Q3 only
07/29/04	71.37	14.98	0.00	56.39	1.22	ND<50	ND<0.3	ND<0.3	ND<0.3	ND<0.6	1.3	--	
03/02/05	71.37	14.51	0.00	56.86	0.47	--	--	--	--	--	--	--	Sampled Q3 only
09/30/05	71.37	14.45	0.00	56.92	0.06	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	1.7	--	
03/23/06	71.37	16.55	0.00	54.82	-2.10	--	--	--	--	--	--	--	Sampled Q3 only
09/26/06	71.37	17.58	0.00	53.79	-1.03	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
03/15/07	71.37	13.72	0.00	57.65	3.86	--	--	--	--	--	--	--	Sampled Q3 only
09/27/07	71.37	14.18	0.00	57.19	-0.46	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	
03/27/08	71.37	14.83	0.00	56.54	-0.65	--	--	--	--	--	--	--	Sampled Q3 only

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
September 1989 Through September 2009
Former 76 Station 3538

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-6 continued													
09/17/08	71.37	14.70	0.00	56.67	0.13	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	2.8	--	
03/27/09	71.37	15.66	0.00	55.71	-0.96	--	--	--	--	--	--	--	Sampled Q3 only
09/17/09	71.37	15.31	0.00	56.06	0.35	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.60	ND<1.0	--	

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 3538

Date Sampled	TPH-D (µg/l)	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)	Total Oil and Grease (mg/l)	Bromo-dichloro-methane (µg/l)	Bromo-form (µg/l)	Bromo-methane (µg/l)
MW-1												
09/15/89	ND	--	--	--	--	--	--	--	ND	--	--	--
01/23/90	ND	--	--	--	--	--	--	--	1.5	--	--	--
04/19/90	ND	--	--	--	--	--	--	--	ND	--	--	--
07/17/90	ND	--	--	--	--	--	--	--	ND	--	--	--
10/16/90	ND	--	--	--	--	--	--	--	ND	--	--	--
01/15/91	ND	--	--	--	--	--	--	--	ND	--	--	--
04/12/91	ND	--	--	--	--	--	--	--	ND	--	--	--
07/15/91	ND	--	--	--	--	--	--	--	ND	--	--	--
07/16/01	--	--	--	--	--	--	--	--	--	1.7	--	--
07/29/04	--	--	--	--	ND<0.5	--	--	--	--	ND<0.5	ND<0.5	ND<1
09/30/05	--	--	--	--	ND<0.50	--	--	--	--	ND<0.50	ND<0.50	ND<1.0
09/26/06	--	--	--	--	ND<0.50	--	--	--	--	ND<0.50	ND<0.50	ND<1.0
09/27/07	--	--	--	--	ND<0.50	--	--	--	--	ND<0.50	ND<0.50	ND<1.0
09/17/08	--	--	--	--	ND<0.50	--	--	--	--	ND<0.50	ND<0.50	ND<1.0
MW-3												
08/25/00	--	ND	--	ND	ND	ND	ND	ND	--	--	--	--
07/12/02	--	ND<20	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 3538

Date Sampled	Carbon Tetra-chloride (µg/l)	Chloro-benzene (µg/l)	Chloro-ethane (µg/l)	Chloroform (µg/l)	Chloro-methane (µg/l)	Dibromo-chloro-methane (µg/l)	1,2-Dichloro-benzene (µg/l)	1,3-Dichloro-benzene (µg/l)	1,4-Dichloro-benzene (µg/l)	Dichloro-difluoro-methane (µg/l)	1,1-DCA (µg/l)	1,1-DCE (µg/l)
MW-1												
07/11/96	--	--	--	0.96	--	--	--	--	--	--	--	--
07/21/97	--	--	--	1.0	--	--	--	--	--	--	--	--
07/16/01	--	--	--	45	--	--	--	--	--	--	--	--
07/12/02	--	--	--	--	--	--	--	--	--	--	--	1.8
07/10/03	--	--	--	--	--	--	--	--	--	--	--	0.89
07/29/04	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2
09/30/05	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.52
09/26/06	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.60
09/27/07	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
09/17/08	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

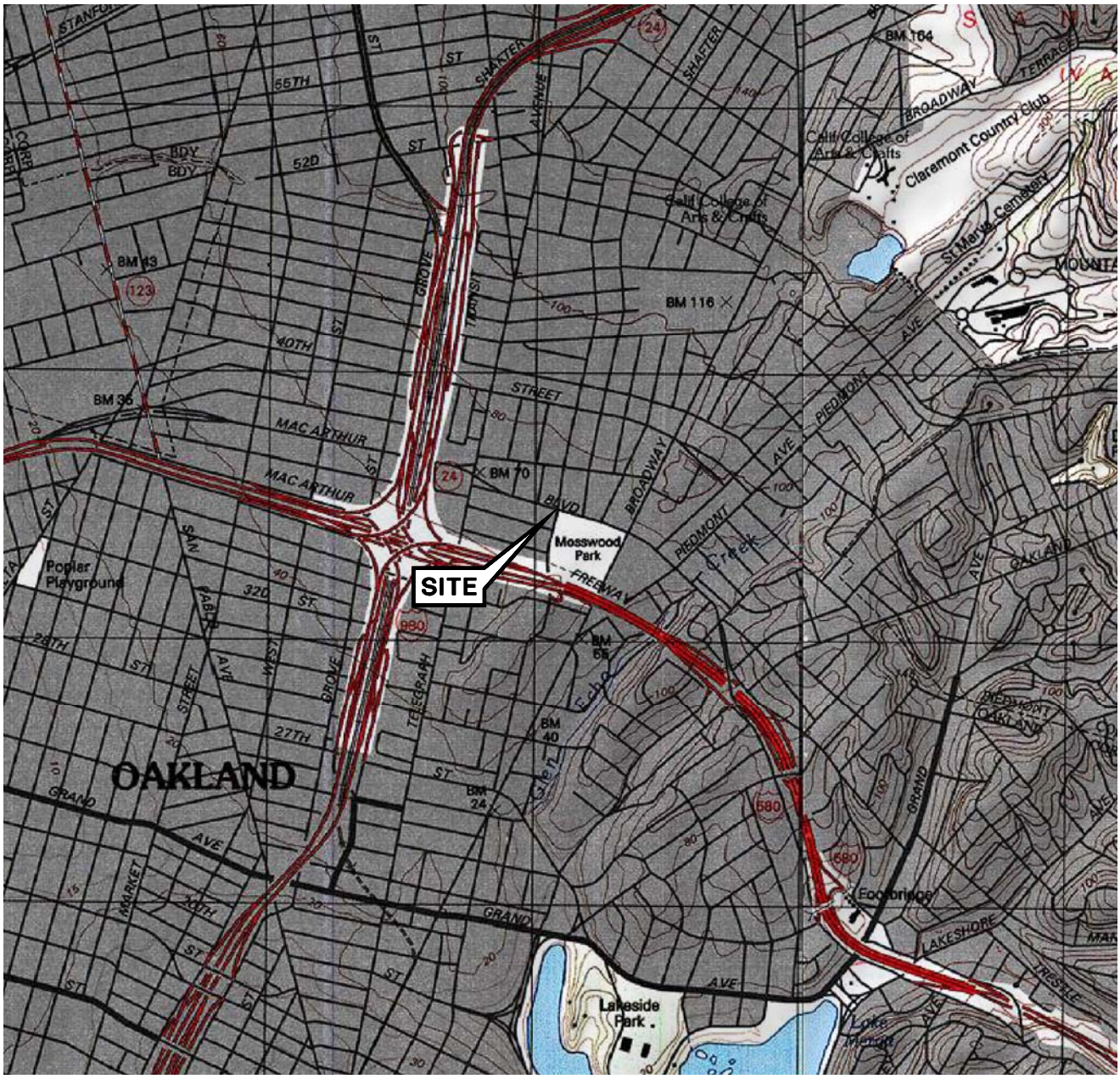
Table 2 c
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 3538

Date Sampled	cis-1,2-DCE (µg/l)	trans-1,2-DCE (µg/l)	1,2-Dichloro-propane (µg/l)	cis-1,3-Dichloro-propene (µg/l)	trans-1,3-Dichloro-propene (µg/l)	Methylene chloride (µg/l)	1,1,2,2-Tetrachloro-ethane (µg/l)	Tetrachloro-ethene (PCE) (µg/l)	Trichloro-trifluoro-ethane (µg/l)	1,1,1-Trichloro-ethane (µg/l)	1,1,2-Trichloro-ethane (µg/l)	Trichloro-ethene (TCE) (µg/l)
MW-1												
09/15/89	--	--	--	--	--	--	--	2.7	--	--	--	--
01/23/90	--	--	--	--	--	--	--	2.1	--	--	--	--
04/19/90	--	--	--	--	--	--	--	2.2	--	--	--	--
07/17/90	--	--	--	--	--	--	--	1.7	--	--	--	--
10/16/90	--	--	--	--	--	--	--	2.0	--	--	--	--
01/15/91	--	--	--	--	--	--	--	2.1	--	--	--	--
04/12/91	--	--	--	--	--	--	--	2.0	--	--	--	--
07/15/91	--	--	--	--	--	--	--	1.8	--	--	--	--
07/14/92	--	--	--	--	--	--	--	1.4	--	--	--	--
07/14/93	--	--	--	--	--	--	--	0.95	--	--	--	--
07/07/94	--	--	--	--	--	--	--	0.83	--	--	--	--
07/19/95	--	--	--	--	--	--	--	0.52	--	--	--	--
07/11/96	--	--	--	--	--	--	--	0.73	--	--	--	--
07/21/97	--	--	--	--	--	--	--	0.70	--	--	--	--
08/31/99	--	--	--	--	--	--	--	ND	--	--	--	--
07/16/01	--	--	--	--	--	--	--	ND	--	--	--	--
07/12/02	--	--	--	--	--	--	--	ND<0.60	--	--	--	--
07/10/03	--	--	--	--	--	--	--	ND<0.50	--	--	--	--
07/29/04	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1	ND<0.5	ND<0.5	13	ND<0.5	ND<0.5	ND<0.5
09/30/05	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	9.1	ND<0.50	ND<0.50	ND<0.50
09/26/06	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	7.0	ND<0.50	ND<0.50	ND<0.50
09/27/07	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	4.3	ND<0.50	ND<0.50	ND<0.50
09/17/08	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	5.4	ND<0.50	ND<0.50	ND<0.50

Table 2 d
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 3538

Date Sampled	Trichloro-fluoro-methane (µg/l)	Vinyl chloride (µg/l)
MW-1		
07/29/04	ND<0.5	ND<0.5
09/30/05	ND<0.50	ND<0.50
09/26/06	ND<0.50	ND<0.50
09/27/07	ND<0.50	ND<0.50
09/17/08	ND<0.50	ND<0.50

FIGURES



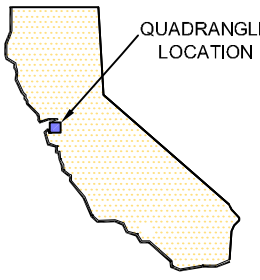
N

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

FACILITY:

FORMER 76 STATION 3538
411 WEST MacARTHUR BOULEVARD
OAKLAND, CALIFORNIA

VICINITY MAP

FIGURE 1

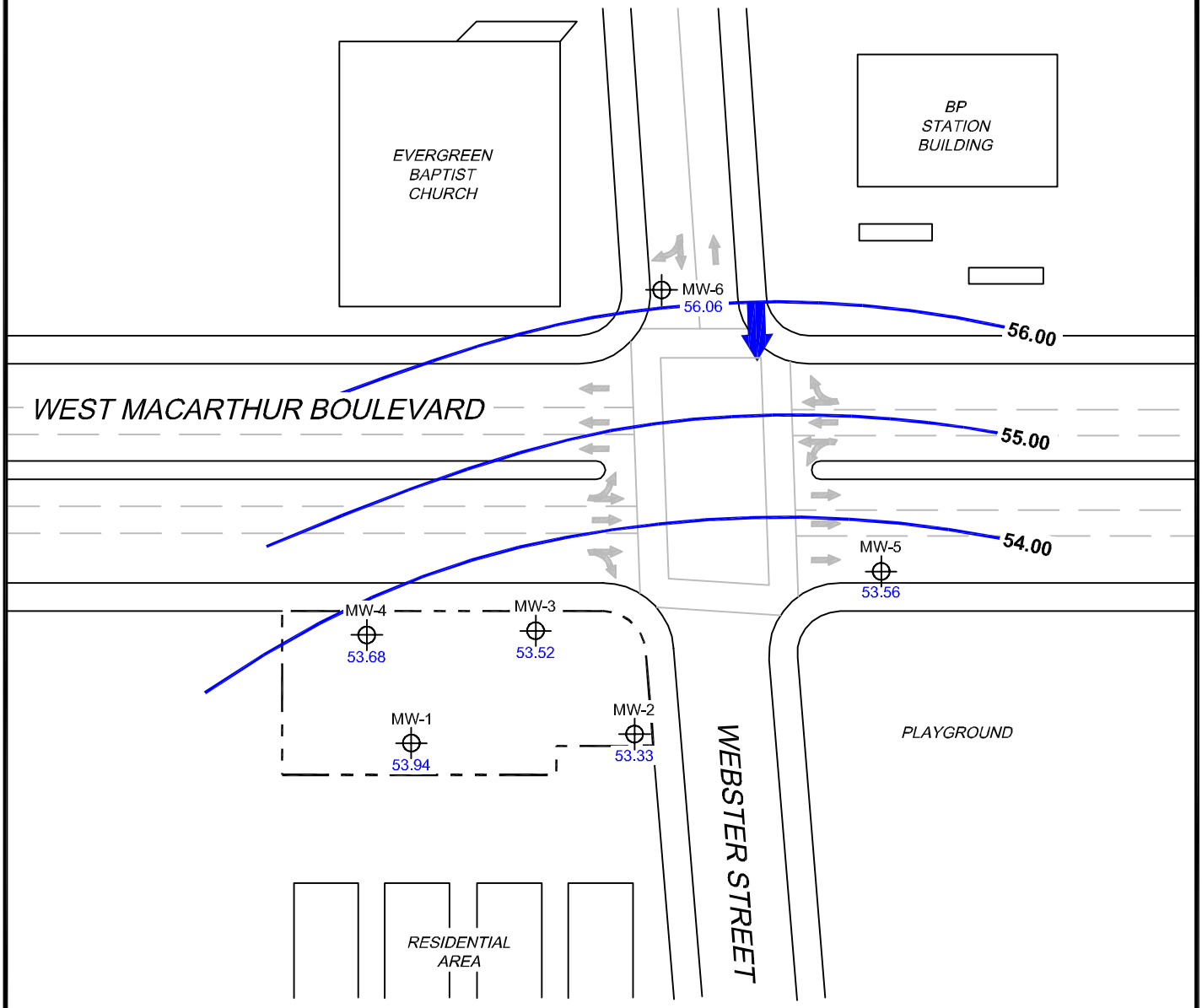
PS=1:1 L:\QMS VICINITY MAPS\3538vm.dwg Aug 12, 2009 - 9:07am aakers

LEGEND

MW-6 ⊕ Monitoring Well with Groundwater Elevation (feet)

56.00 — Groundwater Elevation Contour

General Direction of Groundwater Flow



NOTES:

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

SCALE (FEET)

0 60

TRC

PROJECT: 165521

FACILITY:
FORMER 76 STATION 3538
411 WEST MACARTHUR BLVD.
OAKLAND, CALIFORNIA

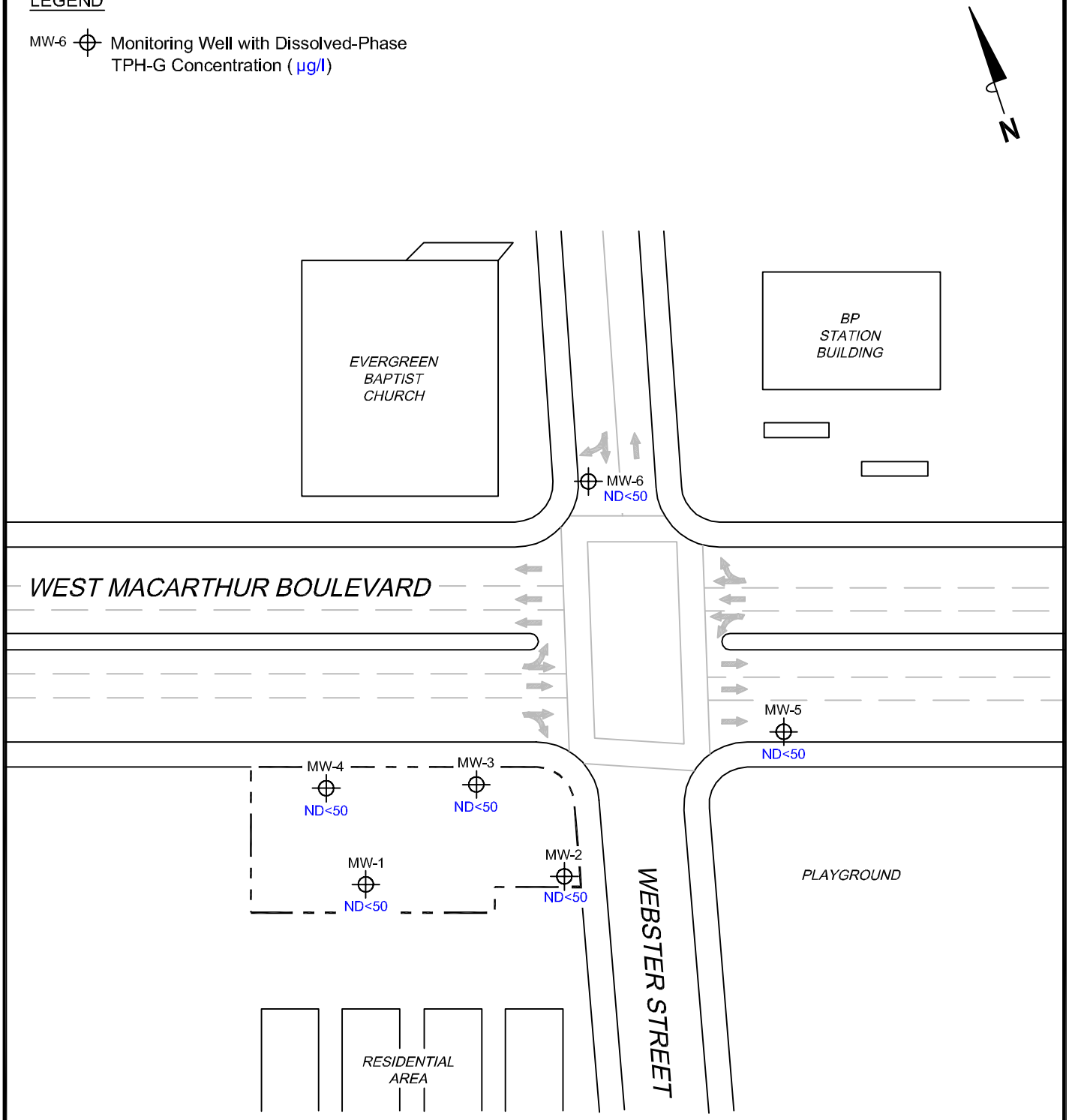
GROUNDWATER ELEVATION CONTOUR MAP
September 17, 2009

FIGURE 2

MS=1:1 3538-003 L:\Graphics_QMS NORTH-SOUTH_x-3000\3538+_3538-QMS-(NEW).dwg Oct 09, 2009 - 12:15pm aakers

LEGEND

MW-6 ⊕ Monitoring Well with Dissolved-Phase TPH-G Concentration (µg/l)



NOTES:

TPH-G = total petroleum hydrocarbons as gasoline. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.

SCALE (FEET)

0 60

TRC

PROJECT: 165521

FACILITY:
FORMER 76 STATION 3538
411 WEST MACARTHUR BLVD.
OAKLAND, CALIFORNIA

DISSOLVED-PHASE TPH-G by 8015M CONCENTRATION MAP
September 17, 2009

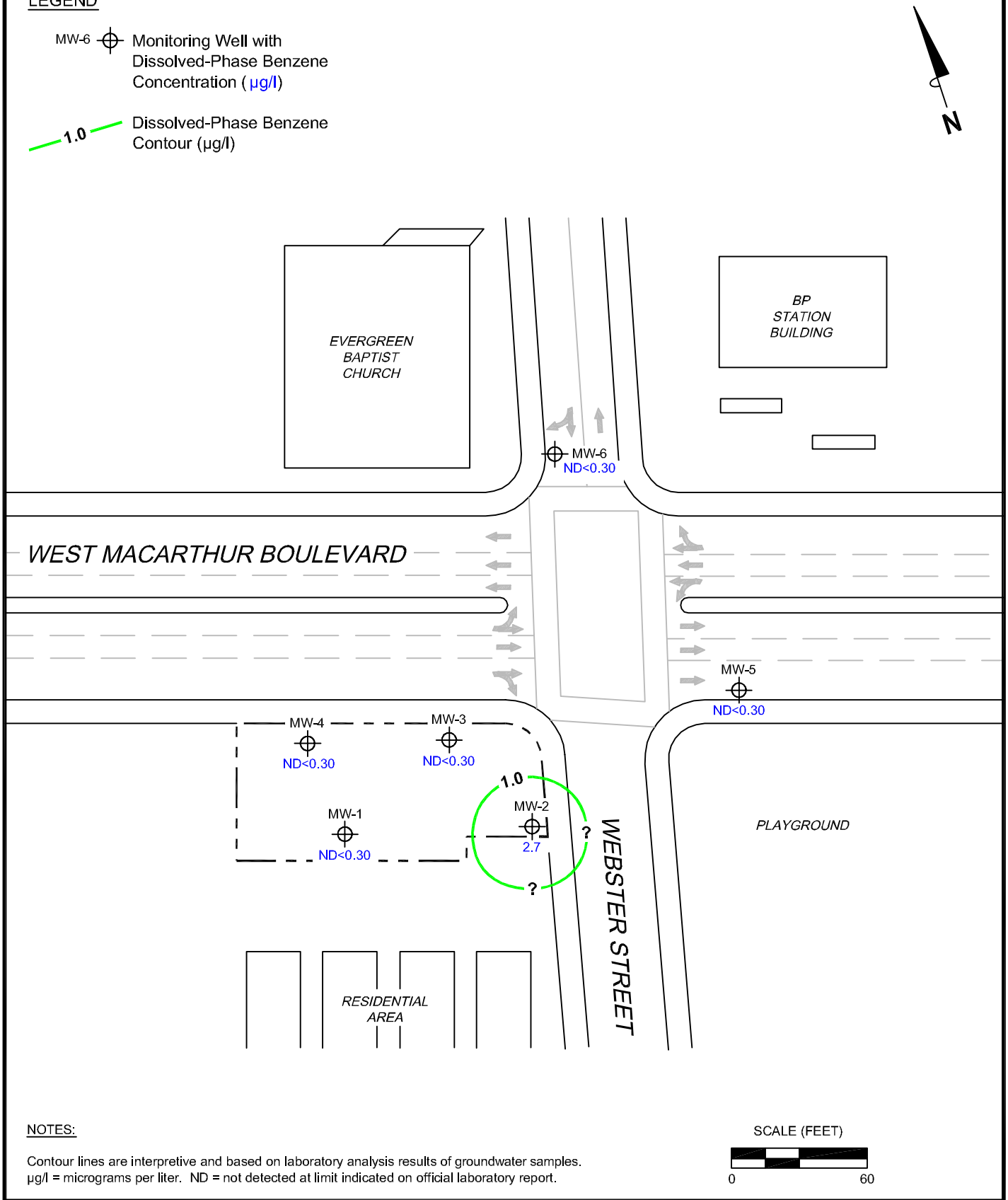
FIGURE 3

MS=1:1 3538-003 L:\Graphics_QMS NORTH-SOUTH_x-3000\3538+_3538-QMS-(NEW).dwg Oct 09, 2009 - 12:15pm aakers

LEGEND

MW-6 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

1.0 Dissolved-Phase Benzene Contour (µg/l)



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples.
µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.

SCALE (FEET)

0 60

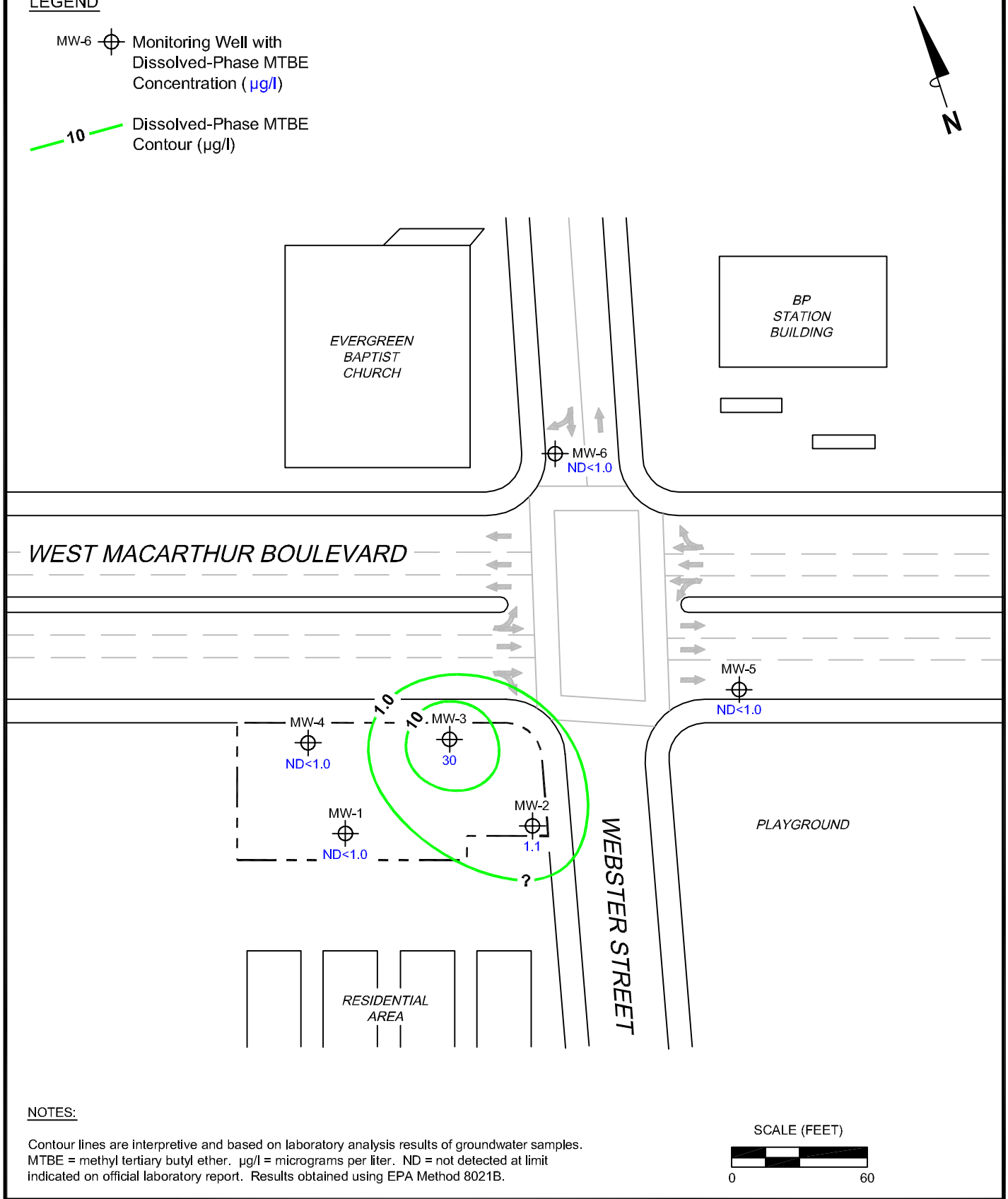
TRC	PROJECT: 165521 FACILITY: FORMER 76 STATION 3538 411 WEST MACARTHUR BLVD. OAKLAND, CALIFORNIA	**DISSOLVED-PHASE BENZENE CONCENTRATION MAP** **September 17, 2009** **FIGURE 4**

MS=1:1 3538-003 L:\Graphics_QMS NORTH-SOUTH_x-3000\3538+_3538-QMS-(NEW).dwg Oct 09, 2009 - 12:16pm aakers

LEGEND

MW-6 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

10 Dissolved-Phase MTBE Contour (µg/l)



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. Results obtained using EPA Method 8021B.

SCALE (FEET)

0 60

TRC

PROJECT: 165521

FACILITY:
FORMER 76 STATION 3538
411 WEST MACARTHUR BLVD.
OAKLAND, CALIFORNIA

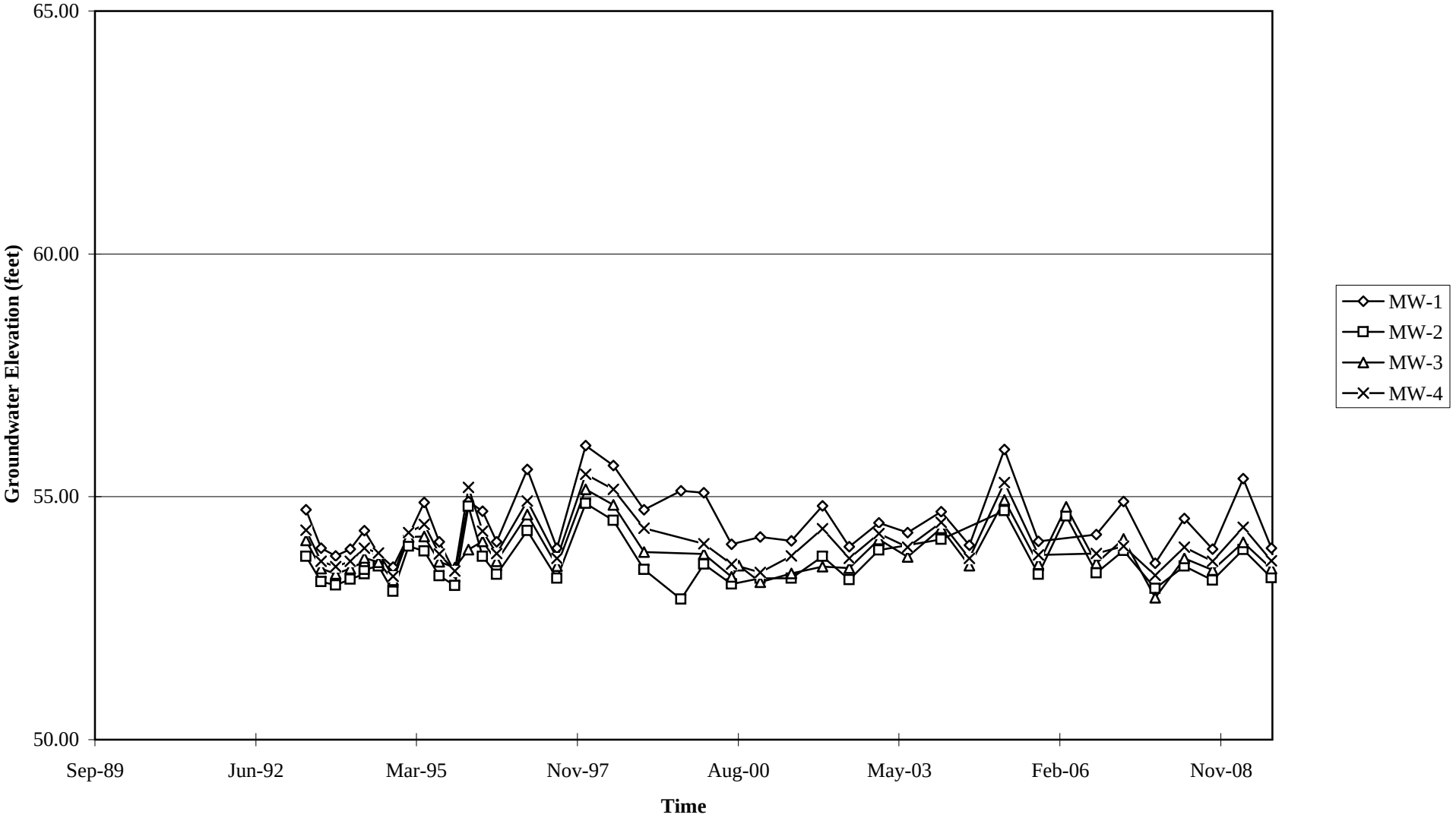
DISSOLVED-PHASE MTBE CONCENTRATION MAP
September 17, 2009

FIGURE 5

MS=1:1 3538-003 L:\Graphics_QMS NORTH-SOUTH_x-3000\3538+_3538-QMS-(NEW).dwg Oct 09, 2009 - 12:16pm aakers

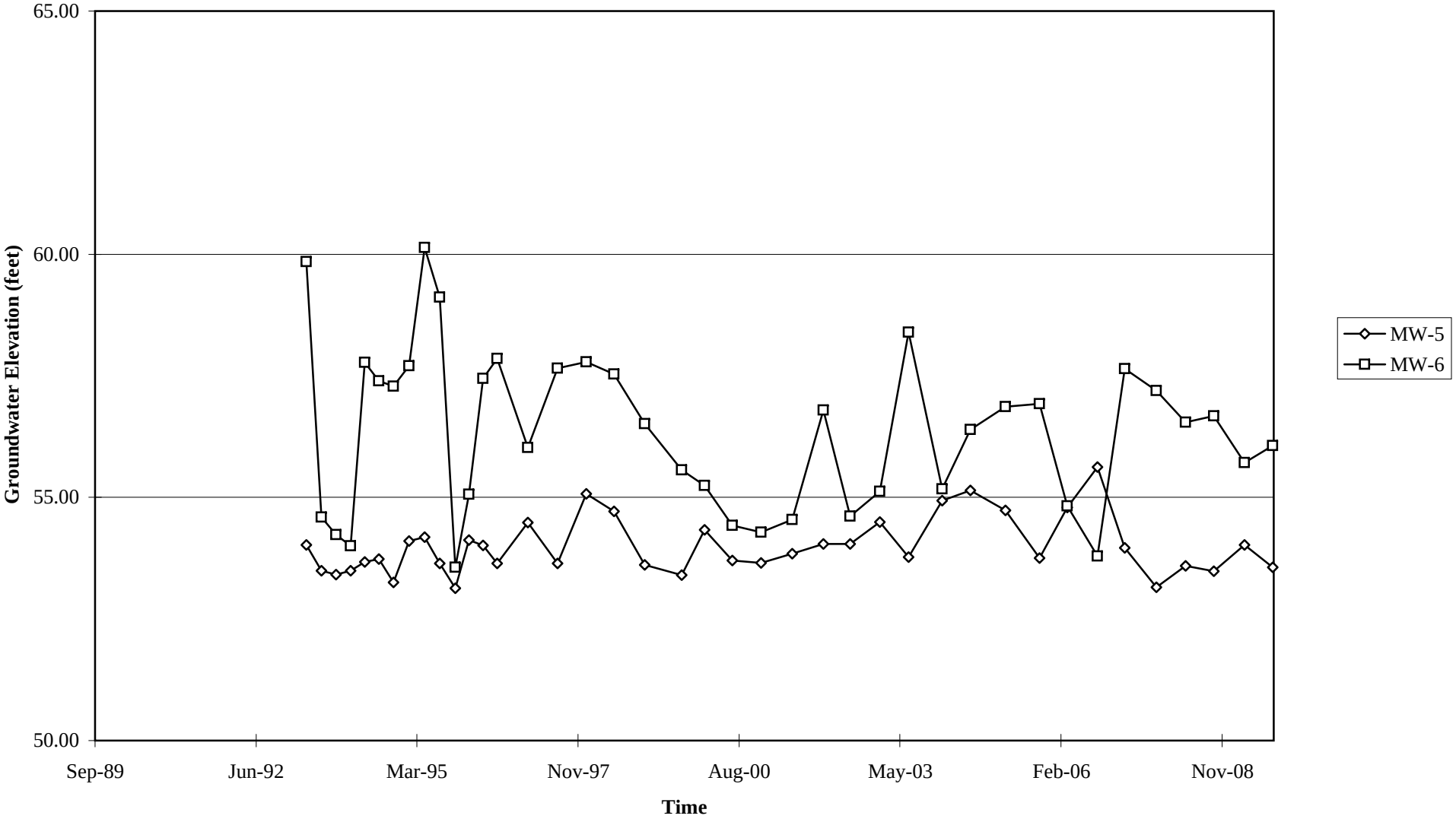
GRAPHS

Groundwater Elevations vs. Time
Former 76 Station 3538



Elevations may have been corrected for apparent changes due to resurvey

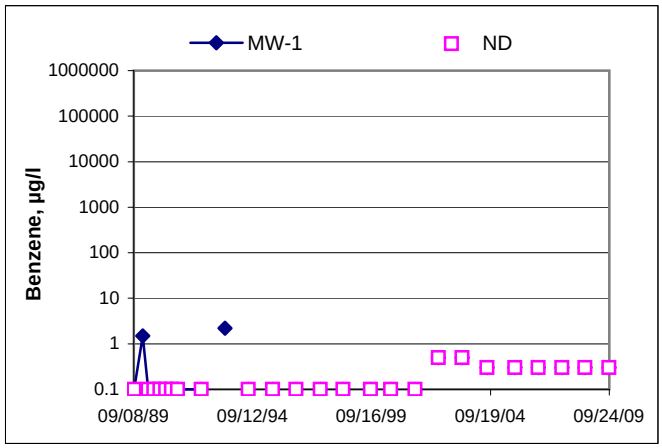
Groundwater Elevations vs. Time
Former 76 Station 3538

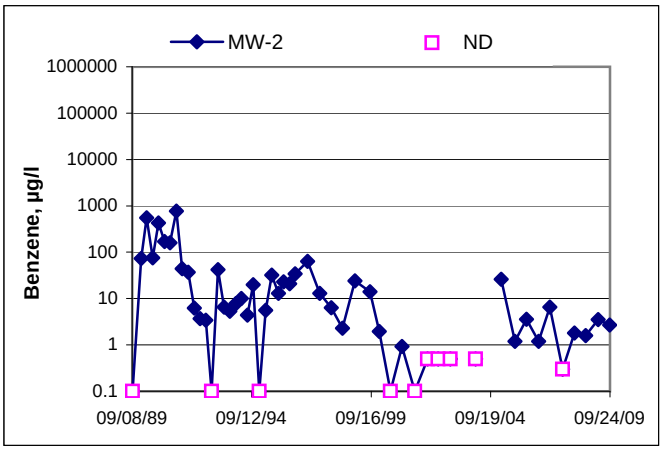


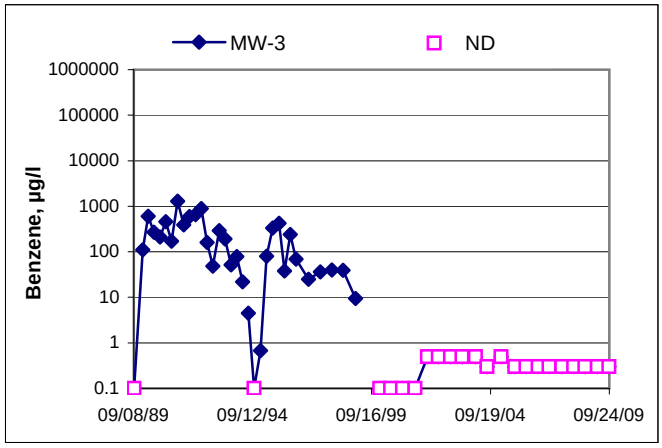
Elevations may have been corrected for apparent changes due to resurvey

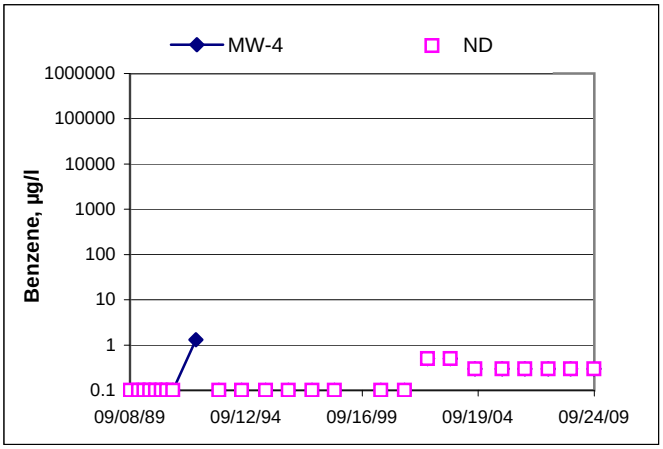
Benzene Concentrations vs Time

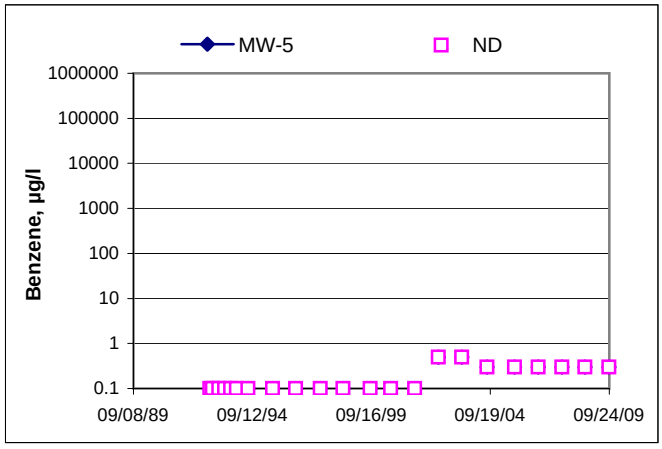
Former 76 Station 3538

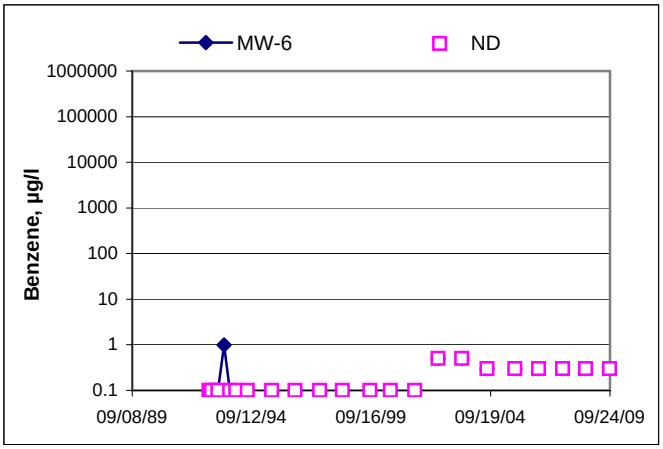












GENERAL FIELD PROCEDURES

Groundwater Monitoring and Sampling Assignments

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

Fluid Level Measurements

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

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

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

Purging and Groundwater Parameter Measurement

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

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

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

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

Groundwater Sample Collection

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

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

After filling, all containers are labeled with project number (or site number), well designation, sample date, sample time, and the sampler's initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

Sequence of Gauging, Purging and Sampling

The sequence in which monitoring activities are conducted is specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well.

Decontamination

In order to reduce the possibility of cross contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging, and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

Exceptions

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, and noted on the site TSR, are documented in field notes on the following pages.

FIELD MONITORING DATA SHEET

Technician: Andrew Walters Job #/Task #: 165521/FA20 Date: 9/17/09

Site # 3538 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-4	✓	0913	24.71	17.86	—	—	1020	2"
MW-1	✓	0917	23.93	18.18	—	—	1035	2"
MW-5	✓	0923	30.13	17.60	—	—	1056	2"
MW-6	✓	0935	30.04	15.31	—	—	1119	2"
MW-3	✓	0941	27.12	17.88	—	—	1133	2"
MW-2	✓	0947	24.53	18.01	—	—	1147	2"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Vidrios

Site: 3538 Project No.: 165521 Date: 9/17/09

Well No. MW-4 Purge Method: Sub

Depth to Water (feet): 17.86 Depth to Product (feet): —

Total Depth (feet) 24.71 LPH & Water Recovered (gallons): —

Water Column (feet): 6.85 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 19.23 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
1011			2	824.7	19.7	6.35			
			4	821.9	19.6	6.28			
	1015		6	846.1	19.9	6.28			

Static at Time Sampled	Total Gallons Purged	Sample Time
17.90	6	1020

Comments:

Well No. MW-1 Purge Method: HB

Depth to Water (feet): 18.18 Depth to Product (feet): —

Total Depth (feet) 23.93 LPH & Water Recovered (gallons): —

Water Column (feet): 5.75 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 19.33 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
1025			1	577.4	18.1	6.78			
			2	574.9	17.9	6.62			
	1031		3	575.6	17.8	6.56			

Static at Time Sampled	Total Gallons Purged	Sample Time
19.24	3	1035

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Vickers

Site: 3538 Project No : 165521 Date: ~~9/11/09~~ 9/17/09

Well No. MW-5 Purge Method: Sub

Depth to Water (feet): 17.60 Depth to Product (feet): —

Total Depth (feet) 30.13 LPH & Water Recovered (gallons): —

Water Column (feet): 12.53 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 20.11 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
1047			3	1150	19.9	6.76			
			6	1138	20.2	6.60			
	1051		9	1173	20.4	6.50			

Static at Time Sampled	Total Gallons Purged	Sample Time
20.11	9	1056

Comments:

Well No. MW-6 Purge Method: Sub

Depth to Water (feet): 15.31 Depth to Product (feet): —

Total Depth (feet) 30.04 LPH & Water Recovered (gallons): —

Water Column (feet): 14.73 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 18.26 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
1109			3	843.5	21.0	6.81			
			6	782.4	21.3	6.76			
	1113		9	714.2	21.1	6.72			

Static at Time Sampled	Total Gallons Purged	Sample Time
18.26	9	1119

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Villalobos

Site: 3538 Project No.: 165521 Date: 9/17/09

Well No. MW-3 Purge Method: Sub

Depth to Water (feet): 17.88 Depth to Product (feet): —

Total Depth (feet) 27.12 LPH & Water Recovered (gallons): —

Water Column (feet): 9.24 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 19.73 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O (mg/L)	ORP	Turbidity
Pre-Purge									
1126			2	819.2	22.4	6.86			
			4	851.2	22.0	6.72			
	1129		6	874.8	21.7	6.66			

Static at Time Sampled	Total Gallons Purged	Sample Time
17.91	6	1133

Comments:

Well No. MW-2 Purge Method: Sub

Depth to Water (feet): 18.01 Depth to Product (feet): —

Total Depth (feet) 24.53 LPH & Water Recovered (gallons): —

Water Column (feet): 6.52 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 19.31 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O (mg/L)	ORP	Turbidity
Pre-Purge									
1140			2	853.4	23.9	6.70			
			4	835.5	22.2	6.69			
	1143		6	833.6	21.6	6.65			

Static at Time Sampled	Total Gallons Purged	Sample Time
18.06	6	1147

Comments:

TRC

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 09/23/2009

Anju Farfan

TRC
21 Technology Drive
Irvine, CA 92618

RE: 3538
BC Work Order: 0912430
Invoice ID: B068504

Enclosed are the results of analyses for samples received by the laboratory on 9/17/2009. 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: 3538
Project Number: 4511010869
Project Manager: Anju Farfan

Reported: 09/23/2009 16:27

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0912430-01	**COC Number:**	---	**Receive Date:**	09/17/2009 20:58	Delivery Work Order:
	Project Number:	3538	**Sampling Date:**	09/17/2009 00:00	Global ID: T0600101472
	Sampling Location:	---	**Sample Depth:**	---	Location ID (FieldPoint): MW-4
	Sampling Point:	MW-4	**Sample Matrix:**	Water	Matrix: W
	Sampled By:	TRCI			Sample QC Type (SACode): CS
					Cooler ID:
0912430-02	**COC Number:**	---	**Receive Date:**	09/17/2009 20:58	Delivery Work Order:
	Project Number:	3538	**Sampling Date:**	09/17/2009 00:00	Global ID: T0600101472
	Sampling Location:	---	**Sample Depth:**	---	Location ID (FieldPoint): MW-1
	Sampling Point:	MW-1	**Sample Matrix:**	Water	Matrix: W
	Sampled By:	TRCI			Sample QC Type (SACode): CS
					Cooler ID:
0912430-03	**COC Number:**	---	**Receive Date:**	09/17/2009 20:58	Delivery Work Order:
	Project Number:	3538	**Sampling Date:**	09/17/2009 00:00	Global ID: T0600101472
	Sampling Location:	---	**Sample Depth:**	---	Location ID (FieldPoint): MW-5
	Sampling Point:	MW-5	**Sample Matrix:**	Water	Matrix: W
	Sampled By:	TRCI			Sample QC Type (SACode): CS
					Cooler ID:
0912430-04	**COC Number:**	---	**Receive Date:**	09/17/2009 20:58	Delivery Work Order:
	Project Number:	3538	**Sampling Date:**	09/17/2009 00:00	Global ID: T0600101472
	Sampling Location:	---	**Sample Depth:**	---	Location ID (FieldPoint): MW-6
	Sampling Point:	MW-6	**Sample Matrix:**	Water	Matrix: W
	Sampled By:	TRCI			Sample QC Type (SACode): CS
					Cooler ID:

TRC
21 Technology Drive
Irvine, CA 92618

Project: 3538
Project Number: 4511010869
Project Manager: Anju Farfan

Reported: 09/23/2009 16:27

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0912430-05	**COC Number:**	---	**Receive Date:**	09/17/2009 20:58	Delivery Work Order:
	Project Number:	3538	**Sampling Date:**	09/17/2009 00:00	Global ID: T0600101472
	Sampling Location:	---	**Sample Depth:**	---	Location ID (FieldPoint): MW-3
	Sampling Point:	MW-3	**Sample Matrix:**	Water	Matrix: W
	Sampled By:	TRCI			Sample QC Type (SACode): CS
					Cooler ID:
0912430-06	**COC Number:**	---	**Receive Date:**	09/17/2009 20:58	Delivery Work Order:
	Project Number:	3538	**Sampling Date:**	09/17/2009 00:00	Global ID: T0600101472
	Sampling Location:	---	**Sample Depth:**	---	Location ID (FieldPoint): MW-2
	Sampling Point:	MW-2	**Sample Matrix:**	Water	Matrix: W
	Sampled By:	TRCI			Sample QC Type (SACode): CS
					Cooler ID:

TRC
21 Technology Drive
Irvine, CA 92618

Project: 3538
Project Number: 4511010869
Project Manager: Anju Farfan

Reported: 09/23/2009 16:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0912430-01 | **Client Sample Name:** 3538, MW-4, 9/17/2009 12:00:00AM

Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 13:13	jjh	GC-V4	1	BSI1080	ND	
Toluene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 13:13	jjh	GC-V4	1	BSI1080	ND	
Ethylbenzene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 13:13	jjh	GC-V4	1	BSI1080	ND	
Methyl t-butyl ether	ND	ug/L	1.0	EPA-8021	09/18/09	09/22/09 13:13	jjh	GC-V4	1	BSI1080	ND	
Total Xylenes	ND	ug/L	0.60	EPA-8021	09/18/09	09/22/09 13:13	jjh	GC-V4	1	BSI1080	ND	
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	Luft	09/18/09	09/22/09 13:13	jjh	GC-V4	1	BSI1080	ND	
a,a,a-Trifluorotoluene (PID Surrogate)	84.3	%	70 - 130 (LCL - UCL)	EPA-8021	09/18/09	09/22/09 13:13	jjh	GC-V4	1	BSI1080		
a,a,a-Trifluorotoluene (FID Surrogate)	82.4	%	70 - 130 (LCL - UCL)	Luft	09/18/09	09/22/09 13:13	jjh	GC-V4	1	BSI1080		

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Project: 3538
Project Number: 4511010869
Project Manager: Anju Farfan

Reported: 09/23/2009 16:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0912430-02 | **Client Sample Name:** 3538, MW-1, 9/17/2009 12:00:00AM

Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 13:37	jjh	GC-V4	1	BSI1080	ND	
Toluene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 13:37	jjh	GC-V4	1	BSI1080	ND	
Ethylbenzene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 13:37	jjh	GC-V4	1	BSI1080	ND	
Methyl t-butyl ether	ND	ug/L	1.0	EPA-8021	09/18/09	09/22/09 13:37	jjh	GC-V4	1	BSI1080	ND	
Total Xylenes	ND	ug/L	0.60	EPA-8021	09/18/09	09/22/09 13:37	jjh	GC-V4	1	BSI1080	ND	
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	Luft	09/18/09	09/22/09 13:37	jjh	GC-V4	1	BSI1080	ND	
a,a,a-Trifluorotoluene (PID Surrogate)	80.9	%	70 - 130 (LCL - UCL)	EPA-8021	09/18/09	09/22/09 13:37	jjh	GC-V4	1	BSI1080		
a,a,a-Trifluorotoluene (FID Surrogate)	84.1	%	70 - 130 (LCL - UCL)	Luft	09/18/09	09/22/09 13:37	jjh	GC-V4	1	BSI1080		

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Project: 3538
Project Number: 4511010869
Project Manager: Anju Farfan

Reported: 09/23/2009 16:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0912430-03 | **Client Sample Name:** 3538, MW-5, 9/17/2009 12:00:00AM

Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 14:01	jjh	GC-V4	1	BSI1080	ND	
Toluene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 14:01	jjh	GC-V4	1	BSI1080	ND	
Ethylbenzene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 14:01	jjh	GC-V4	1	BSI1080	ND	
Methyl t-butyl ether	ND	ug/L	1.0	EPA-8021	09/18/09	09/22/09 14:01	jjh	GC-V4	1	BSI1080	ND	
Total Xylenes	ND	ug/L	0.60	EPA-8021	09/18/09	09/22/09 14:01	jjh	GC-V4	1	BSI1080	ND	
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	Luft	09/18/09	09/22/09 14:01	jjh	GC-V4	1	BSI1080	ND	
a,a,a-Trifluorotoluene (PID Surrogate)	81.0	%	70 - 130 (LCL - UCL)	EPA-8021	09/18/09	09/22/09 14:01	jjh	GC-V4	1	BSI1080		
a,a,a-Trifluorotoluene (FID Surrogate)	79.7	%	70 - 130 (LCL - UCL)	Luft	09/18/09	09/22/09 14:01	jjh	GC-V4	1	BSI1080		

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Project: 3538
Project Number: 4511010869
Project Manager: Anju Farfan

Reported: 09/23/2009 16:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0912430-04 | **Client Sample Name:** 3538, MW-6, 9/17/2009 12:00:00AM

Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 14:25	jjh	GC-V4	1	BSI1080	ND	
Toluene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 14:25	jjh	GC-V4	1	BSI1080	ND	
Ethylbenzene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 14:25	jjh	GC-V4	1	BSI1080	ND	
Methyl t-butyl ether	ND	ug/L	1.0	EPA-8021	09/18/09	09/22/09 14:25	jjh	GC-V4	1	BSI1080	ND	
Total Xylenes	ND	ug/L	0.60	EPA-8021	09/18/09	09/22/09 14:25	jjh	GC-V4	1	BSI1080	ND	
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	Luft	09/18/09	09/22/09 14:25	jjh	GC-V4	1	BSI1080	ND	
a,a,a-Trifluorotoluene (PID Surrogate)	84.5	%	70 - 130 (LCL - UCL)	EPA-8021	09/18/09	09/22/09 14:25	jjh	GC-V4	1	BSI1080		
a,a,a-Trifluorotoluene (FID Surrogate)	89.2	%	70 - 130 (LCL - UCL)	Luft	09/18/09	09/22/09 14:25	jjh	GC-V4	1	BSI1080		

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Project: 3538
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Project Manager: Anju Farfan

Reported: 09/23/2009 16:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0912430-05 | **Client Sample Name:** 3538, MW-3, 9/17/2009 12:00:00AM

Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 14:49	jjh	GC-V4	1	BSI1080	ND	
Toluene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 14:49	jjh	GC-V4	1	BSI1080	ND	
Ethylbenzene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 14:49	jjh	GC-V4	1	BSI1080	ND	
Methyl t-butyl ether	**30**	**ug/L**	**1.0**	**EPA-8021**	**09/18/09**	**09/22/09 14:49**	**jjh**	**GC-V4**	**1**	**BSI1080**	**ND**	
Total Xylenes	ND	ug/L	0.60	EPA-8021	09/18/09	09/22/09 14:49	jjh	GC-V4	1	BSI1080	ND	
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	Luft	09/18/09	09/22/09 14:49	jjh	GC-V4	1	BSI1080	ND	
a,a,a-Trifluorotoluene (PID Surrogate)	90.6	%	70 - 130 (LCL - UCL)	EPA-8021	09/18/09	09/22/09 14:49	jjh	GC-V4	1	BSI1080		
a,a,a-Trifluorotoluene (FID Surrogate)	90.1	%	70 - 130 (LCL - UCL)	Luft	09/18/09	09/22/09 14:49	jjh	GC-V4	1	BSI1080		

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Project: 3538
Project Number: 4511010869
Project Manager: Anju Farfan

Reported: 09/23/2009 16:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0912430-06 | **Client Sample Name:** 3538, MW-2, 9/17/2009 12:00:00AM

Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	**2.7**	**ug/L**	**0.30**	**EPA-8021**	**09/18/09**	**09/22/09 15:14**	**jjh**	**GC-V4**	**1**	**BSI1080**	**ND**	
Toluene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 15:14	jjh	GC-V4	1	BSI1080	ND	
Ethylbenzene	ND	ug/L	0.30	EPA-8021	09/18/09	09/22/09 15:14	jjh	GC-V4	1	BSI1080	ND	
Methyl t-butyl ether	**1.1**	**ug/L**	**1.0**	**EPA-8021**	**09/18/09**	**09/22/09 15:14**	**jjh**	**GC-V4**	**1**	**BSI1080**	**ND**	
Total Xylenes	ND	ug/L	0.60	EPA-8021	09/18/09	09/22/09 15:14	jjh	GC-V4	1	BSI1080	ND	
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	Luft	09/18/09	09/22/09 15:14	jjh	GC-V4	1	BSI1080	ND	
a,a,a-Trifluorotoluene (PID Surrogate)	88.0	%	70 - 130 (LCL - UCL)	EPA-8021	09/18/09	09/22/09 15:14	jjh	GC-V4	1	BSI1080		
a,a,a-Trifluorotoluene (FID Surrogate)	91.1	%	70 - 130 (LCL - UCL)	Luft	09/18/09	09/22/09 15:14	jjh	GC-V4	1	BSI1080		

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Project: 3538
Project Number: 4511010869
Project Manager: Anju Farfan

Reported: 09/23/2009 16:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

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	BSI1080	Matrix Spike	0911528-36	0	36.107	40.000	ug/L		90.3		70 - 130	
		Matrix Spike Duplicate	0911528-36	0	35.191	40.000	ug/L	2.6	88.0	20	70 - 130	
Toluene	BSI1080	Matrix Spike	0911528-36	0	36.724	40.000	ug/L		91.8		70 - 130	
		Matrix Spike Duplicate	0911528-36	0	35.853	40.000	ug/L	2.4	89.6	20	70 - 130	
Ethylbenzene	BSI1080	Matrix Spike	0911528-36	0	35.374	40.000	ug/L		88.4		70 - 130	
		Matrix Spike Duplicate	0911528-36	0	34.363	40.000	ug/L	2.9	85.9	20	70 - 130	
Methyl t-butyl ether	BSI1080	Matrix Spike	0911528-36	0	36.343	40.000	ug/L		90.9		70 - 130	
		Matrix Spike Duplicate	0911528-36	0	35.831	40.000	ug/L	1.4	89.6	20	70 - 130	
Total Xylenes	BSI1080	Matrix Spike	0911528-36	0	102.53	120.00	ug/L		85.4		70 - 130	
		Matrix Spike Duplicate	0911528-36	0	99.391	120.00	ug/L	3.1	82.8	20	70 - 130	
Gasoline Range Organics (C4 - C12)	BSI1080	Matrix Spike	0911528-36	0	968.38	1000.0	ug/L		96.8		70 - 130	
		Matrix Spike Duplicate	0911528-36	0	907.62	1000.0	ug/L	6.5	90.8	20	70 - 130	
a,a,a-Trifluorotoluene (PID Surrogate)	BSI1080	Matrix Spike	0911528-36	ND	43.082	40.000	ug/L		108		70 - 130	
		Matrix Spike Duplicate	0911528-36	ND	43.374	40.000	ug/L		108		70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	BSI1080	Matrix Spike	0911528-36	ND	40.633	40.000	ug/L		102		70 - 130	
		Matrix Spike Duplicate	0911528-36	ND	39.998	40.000	ug/L		100		70 - 130	

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Project: 3538
Project Number: 4511010869
Project Manager: Anju Farfan

Reported: 09/23/2009 16:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

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	BSI1080	BSI1080-BS1	LCS	38.717	40.000	0.30	ug/L	96.8		85 - 115		
Toluene	BSI1080	BSI1080-BS1	LCS	39.494	40.000	0.30	ug/L	98.7		85 - 115		
Ethylbenzene	BSI1080	BSI1080-BS1	LCS	37.746	40.000	0.30	ug/L	94.4		85 - 115		
Methyl t-butyl ether	BSI1080	BSI1080-BS1	LCS	38.847	40.000	1.0	ug/L	97.1		85 - 115		
Total Xylenes	BSI1080	BSI1080-BS1	LCS	109.51	120.00	0.60	ug/L	91.3		85 - 115		
Gasoline Range Organics (C4 - C12)	BSI1080	BSI1080-BS1	LCS	1070.5	1000.0	50	ug/L	107		85 - 115		
a,a,a-Trifluorotoluene (PID Surrogate)	BSI1080	BSI1080-BS1	LCS	43.332	40.000		ug/L	108		70 - 130		
a,a,a-Trifluorotoluene (FID Surrogate)	BSI1080	BSI1080-BS1	LCS	39.443	40.000		ug/L	98.6		70 - 130		

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Project: 3538
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Reported: 09/23/2009 16:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BSI1080	BSI1080-BLK1	ND	ug/L	0.30		
Toluene	BSI1080	BSI1080-BLK1	ND	ug/L	0.30		
Ethylbenzene	BSI1080	BSI1080-BLK1	ND	ug/L	0.30		
Methyl t-butyl ether	BSI1080	BSI1080-BLK1	ND	ug/L	1.0		
Total Xylenes	BSI1080	BSI1080-BLK1	ND	ug/L	0.60		
Gasoline Range Organics (C4 - C12)	BSI1080	BSI1080-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (PID Surrogate)	BSI1080	BSI1080-BLK1	86.9	%	70 - 130 (LCL - UCL)		
a,a,a-Trifluorotoluene (FID Surrogate)	BSI1080	BSI1080-BLK1	91.3	%	70 - 130 (LCL - UCL)		

TRC	Project: 3538	**Reported:** 09/23/2009 16:27
21 Technology Drive	Project Number: 4511010869	
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 #: 09-12430

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: 0.98 Container: V09 Thermometer ID: TH080

Temperature: A 2.2 °C / C 2.2 °C

Date/Time 9-17-09 2103

Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A (3)	A (3)	A (3)	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 AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By: JNW Date/Time: 9-18-09 1030

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

09-12430

Analysis Requested

Bill to: Conoco Phillips/ TRC	**Consultant Firm: TRC**	MATRIX (GW) Groundwater (S) Soil (WW) Wastewater (SL) Sludge
Address: 411 West MacArthur Blvd.	21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan	
City: Oakland	**4-digit site#:** 3538	
	Workorder # 01178-4511010869	
State: CA **Zip:**	**Project #:** 165521	
Conoco Phillips Mgr: Terry Grayson	**Sampler Name:** Andrew Vidiers	

Lab#	Sample Description	Field Point Name	Date & Time Sampled	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				Turnaround Time Requested
-1		MW-4	9/17/09	X										STD
-2		MW-1												
-3		MW-5												
-4		MW-6												
-5		MW-3												
-6		MW-2												

CHK BY CRA DISTRIBUTION SUB-OUT

Comments:	Relinquished by: (Signature)	Received by: Ross Dickey	Date & Time 9/17/09 1340
GLOBAL ID: T0600101472	Relinquished by: (Signature) Ross Dickey 9/17/09	Received by: R Ruyuk	Date & Time 9.17.09 1750
	Relinquished by: (Signature) R Ruyuk 9.17.09 2055	Received by:	Date & Time 9-17-09 2058

Receipt of Manifest
is Pending

(October 9, 2009)

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.