



**James P. Kiernan, P.E.**  
Project Manager

**Chevron Environmental  
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July 15, 2016

Alameda County Health Care Services Agency  
Environmental Health Services  
Environmental Protection  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

**RECEIVED**

*By Alameda County Environmental Health 2:55 pm, Jul 15, 2016*

Re: 76 Station No. 0746 (351647)  
First Semi-Annual 2016 Groundwater Monitoring Report  
3943 Broadway, Oakland, California  
Fuel Leak Case No.: RO0000203  
GeoTracker Global ID #T0600101471

I have reviewed the attached report dated July 15, 2016.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by AECOM, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13257(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

James P. Kiernan, P.E.  
Project Manager

Attachment: First Semi-Annual 2016 Groundwater Monitoring Report by AECOM

July 15, 2016

Mr. Keith Nowell  
Alameda County Health Care Services Agency  
Environmental Health Services  
Environmental Protection  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577  
(via internet upload)

**Subject: First Semiannual 2016 Groundwater Monitoring Report  
76 Station No. 0746 (351647)  
3943 Broadway, Oakland, California  
Fuel Leak Case No.: RO0000203**

Dear Mr. Nowell:

On behalf of Chevron Environmental Management Company's (EMC's) affiliate, Union Oil Company of California ("Union Oil"), AECOM is pleased to submit this first semiannual 2016 groundwater monitoring report for the above-referenced site.

**Recommendations and Proposed Future Work**

- Continue semiannual groundwater monitoring and reporting to further evaluate groundwater quality and concentration trends. Sampling of off-site wells MW-8 and MW-9 is pending access to that property. The next event is scheduled for fourth quarter 2016.
- Continue monthly LNAPL gauging and absorbent sock changeouts in MW-5 and RW-1 consistent with *Response to Comments on Low Threat Closure Request, Data Gap Investigation Workplan, and Focused Site Conceptual Model* dated October 30, 2015.

**Remarks/Signatures**

The interpretations in this report represent AECOM's professional opinions and are based, in part, on the information supplied by the groundwater monitoring contractor and laboratory. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If you have any questions regarding this project, please contact Mr. Chad Roper at (805) 764-4027.

Sincerely,



Chad Roper, PhD  
Project Manager



Lorien Sanders, PG No. 8019  
Project Geologist



cc: James Kiernan, EMC (via electronic copy)  
Ed Ralston, Phillips 66 (via electronic copy)  
Clement K. Leung, CJS Leung, LLC (via email)

7/15/2016

Enclosures:

Attachment A - Groundwater Summary

Attachment B - Figures

Attachment C - Tables

Attachment D - Hydrographs

Attachment E - Field Procedures and Field Logs

Attachment F - Laboratory Analytical Report and Chain-of-Custody Documentation

**ATTACHMENT A**

**GROUNDWATER SUMMARY**

## GROUNDWATER MONITORING SUMMARY REPORT

76 Station No. 0746 (351647)  
3943 Broadway, Oakland, California

### CURRENT FIELD ACTIVITIES

Groundwater monitoring frequency:	Semiannual
Activity date:	6/22/2016
Groundwater monitoring subcontractor:	Gettler-Ryan Inc. (G-R)
Number of groundwater wells total:	13
Number of groundwater wells off-site:	5
Number of wells sampled (this period):	11 (MW-8 and MW-9 could not be sampled due to lack of property access)
Number of wells with LNAPL (this period):	2
LNAPL removed (gallons) (this period)	1.04
LNAPL removed (gallons) (cumulative)	4.96

### SITE HYDROGEOLOGY

Depth to water range (feet below top of casing) (this period):	7.91 to 13.58
Approximate groundwater flow direction (this period):	South-southeast to southwest
Approximate hydraulic gradient (feet per foot) (this period):	Variable

### GROUNDWATER CONDITIONS

Maximum detected TPH-g concentration (this period):	17,000 µg/L (MW-5)
Historical maximum detected TPH-g concentration:	1,100,000 µg/L (MW-3) on 11/20/1992
Maximum detected benzene concentration (this period):	210 µg/L (MW-5)
Historical maximum detected benzene concentration:	34,000 µg/L (MW-5) on 2/1/2011
Maximum detected MTBE concentration (this period):	21 µg/L (MW-3)
Historical maximum detected MTBE concentration:	2,700 µg/L (MW-2) on 5/25/1993 via EPA Method 8021B 1,600 µg/L (MW-8) on 11/29/2004 via EPA Method 8260B

### GROUNDWATER TRENDS AND OBSERVATIONS

- Groundwater flow direction was variable from the south-southeast to southwest.
- Groundwater analytical results were consistent with previous events. Concentrations are generally stable to declining.
- TPH-g was only detected in groundwater samples collected from three of 11 wells sampled during this period. The detected concentrations ranged from 1,900 µg/L (wells MW-3 and MW-4) to 17,000 µg/L (well MW-5). The current concentration in MW-5 was the lowest since 2006.
- Benzene was only detected in groundwater samples collected from two of 11 wells sampled during this period, 71 µg/L (well MW-3) and 210 µg/L (well MW-5).

## GROUNDWATER MONITORING SUMMARY REPORT

76 Station No. 0746 (351647)  
3943 Broadway Avenue, Oakland, California

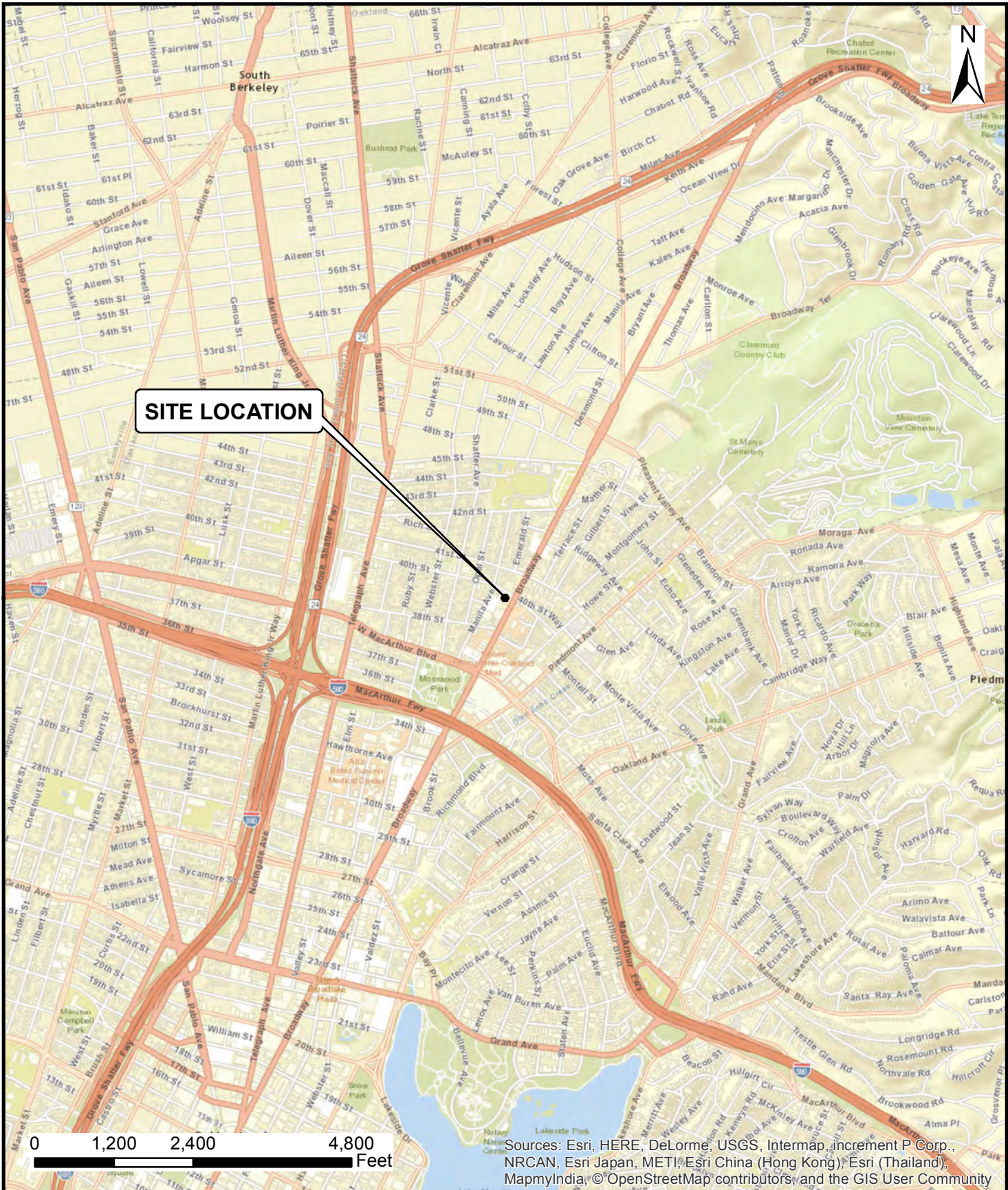
- MTBE was only detected in groundwater samples collected from three of 11 wells sampled during this period. The detected concentrations ranged from 0.91 µg/L (well MW-2) to 21 µg/L (well MW-3).
- As previously proposed, the skimmer in well MW-5 was removed and an absorbent sock was installed during this reporting period. Absorbent socks are currently in wells MW-5 and RW-1. The absorbent socks in these wells were removed and replaced with new socks during the monthly events. LNAPL (up to 0.22 feet) was measured in well MW-5 during the January, February, and March monthly events, but was not measured during the April and May monthly events or the June semi-annual sampling event. LNAPL had consistently been measured in this well for the past three years. Approximately 1.04 gallons of LNAPL was removed from the wells this period using the absorbent socks (4.96 gallons cumulatively).

### RECOMMENDATIONS AND PROPOSED FUTURE WORK


- Continue semiannual groundwater monitoring and reporting to further evaluate groundwater quality and concentration trends. Sampling of off-site wells MW-8 and MW-9 is pending access to that property. The next event is scheduled for fourth quarter 2016.
- Continue monthly LNAPL gauging and absorbent sock changeouts in MW-5 and RW-1 consistent with *Response to Comments on Low Threat Closure Request, Data Gap Investigation Workplan, and Focused Site Conceptual Model* dated October 30, 2015.

## **ATTACHMENT B**

### **FIGURES**

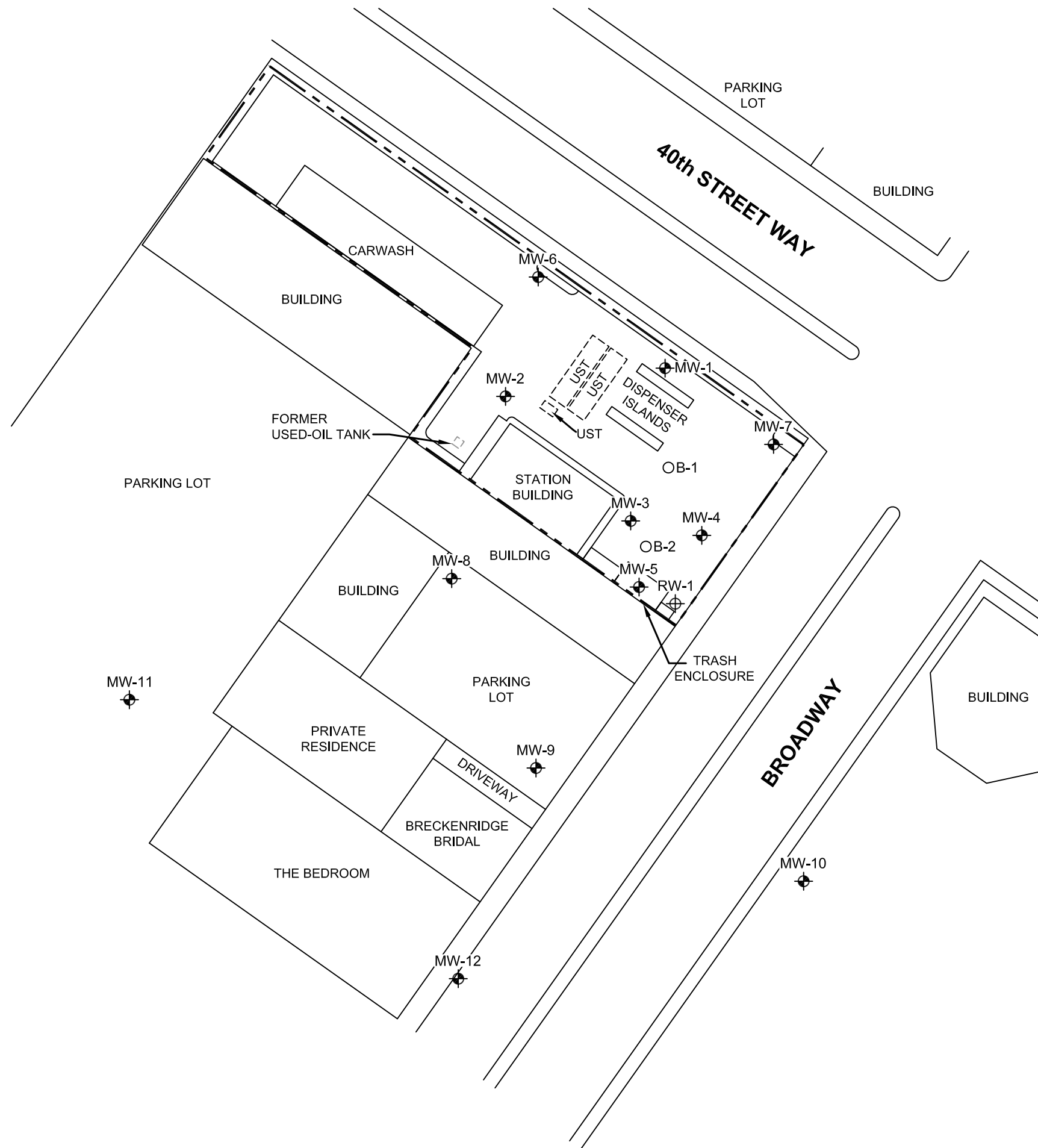


Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

 <b>AECOM</b> 1220 AVENIDA ACASO CAMARILLO, CALIFORNIA 93012 PHONE: 805.388.3775 FAX: 805.388.3577 WEB: <a href="http://www.aecom.com">HTTP://WWW.AECOM.COM</a>	<b>SITE LOCATION MAP</b>			FIGURE NUMBER:
	76 Station No. 0746 (351647) 3943 Broadway Oakland, California			<b>1</b>
DRAWN BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:	
M. Scop	07/06/2016	60508949	1 of 1	



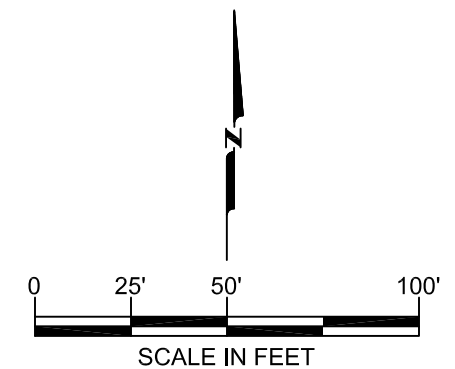
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**LEGEND**

- SUBJECT PROPERTY BOUNDARY
- ⊕ MONITORING WELL
- ⊕ RECOVERY WELL
- CPT BORING
- UST UNDERGROUND STORAGE TANK

NOTE:  
 BASE MAP DIGITIZED FROM A FIGURE PDF  
 PROVIDED BY DELTA, DATED 9/14/2009, AT  
 A SCALE OF 1"=50'.



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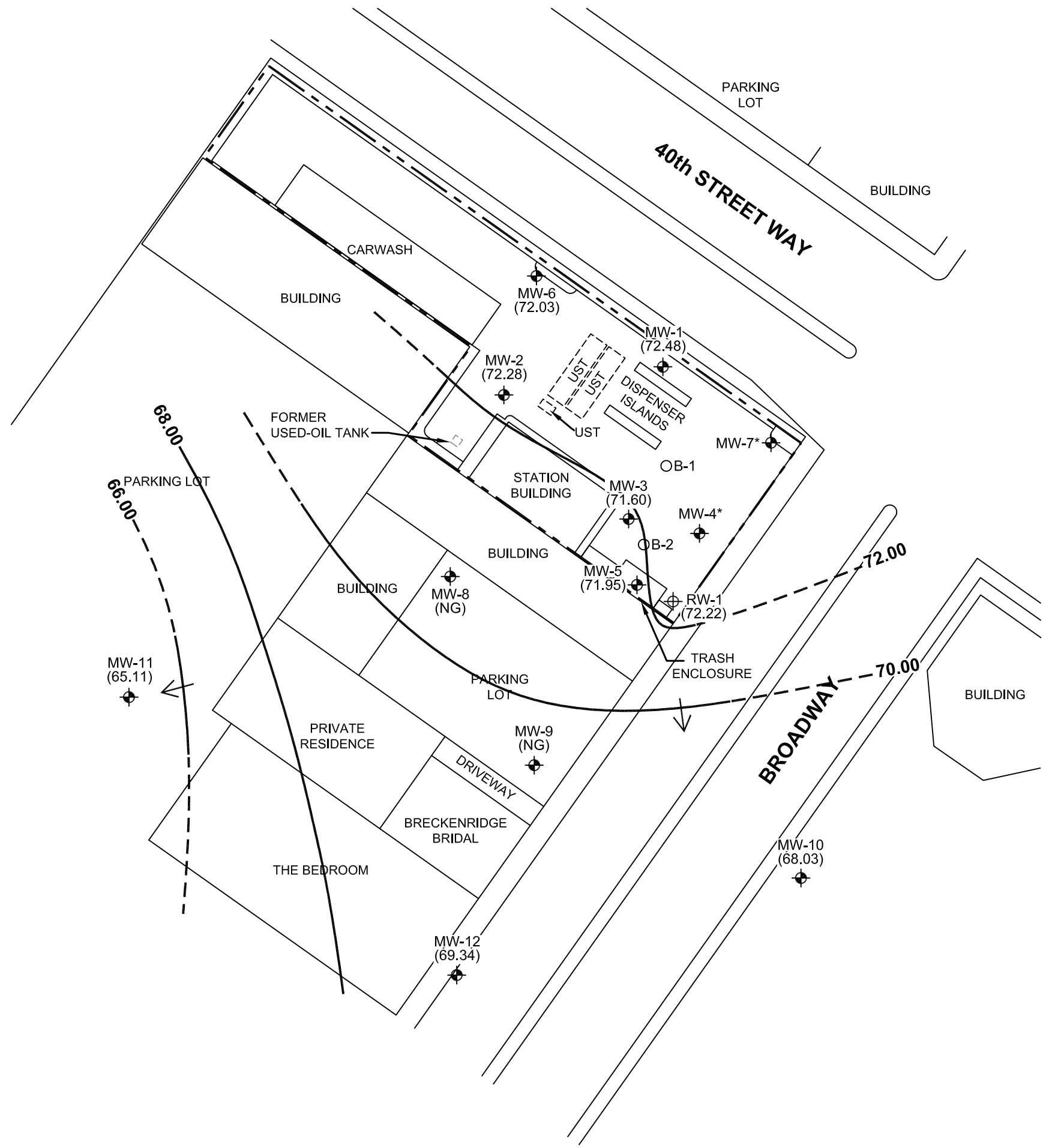
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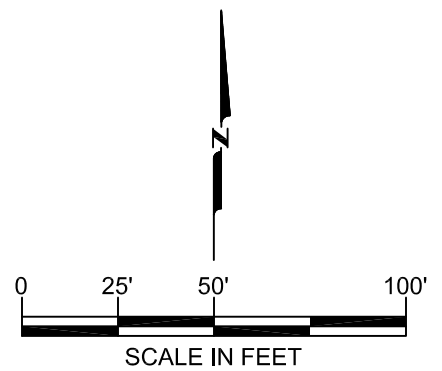
SITE PLAN	
76 STATION NO. 0746 (351647) 3943 BROADWAY OAKLAND, CALIFORNIA	PROJECT NUMBER: 60508949
SCALE: 1" = 50'	DATE: 07/07/2016

FIGURE NUMBER: <b>2</b>
SHEET NUMBER: 1 of 1

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- LEGEND**
- SUBJECT PROPERTY BOUNDARY
  - MONITORING WELL
  - RECOVERY WELL
  - CPT BORING
  - UST UNDERGROUND STORAGE TANK
  - (#) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
  - 72.00** CONTOUR OF GROUNDWATER ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL (DASHED WHERE INFERRED)
  - GROUNDWATER FLOW DIRECTION
  - HYDRAULIC GRADIENT = VARIABLE
  - (NG) NOT GAUGED
  - \* NOT SURVEYED
- NOTE:  
BASE MAP DIGITIZED FROM A FIGURE PDF PROVIDED BY DELTA, DATED 9/14/2009, AT A SCALE OF 1"=50'.



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**FIRST SEMI-ANNUAL 2016 GROUNDWATER ELEVATION MAP**

76 STATION NO. 0746 (351647)  
3943 BROADWAY  
OAKLAND, CALIFORNIA

SCALE: 1" = 50'

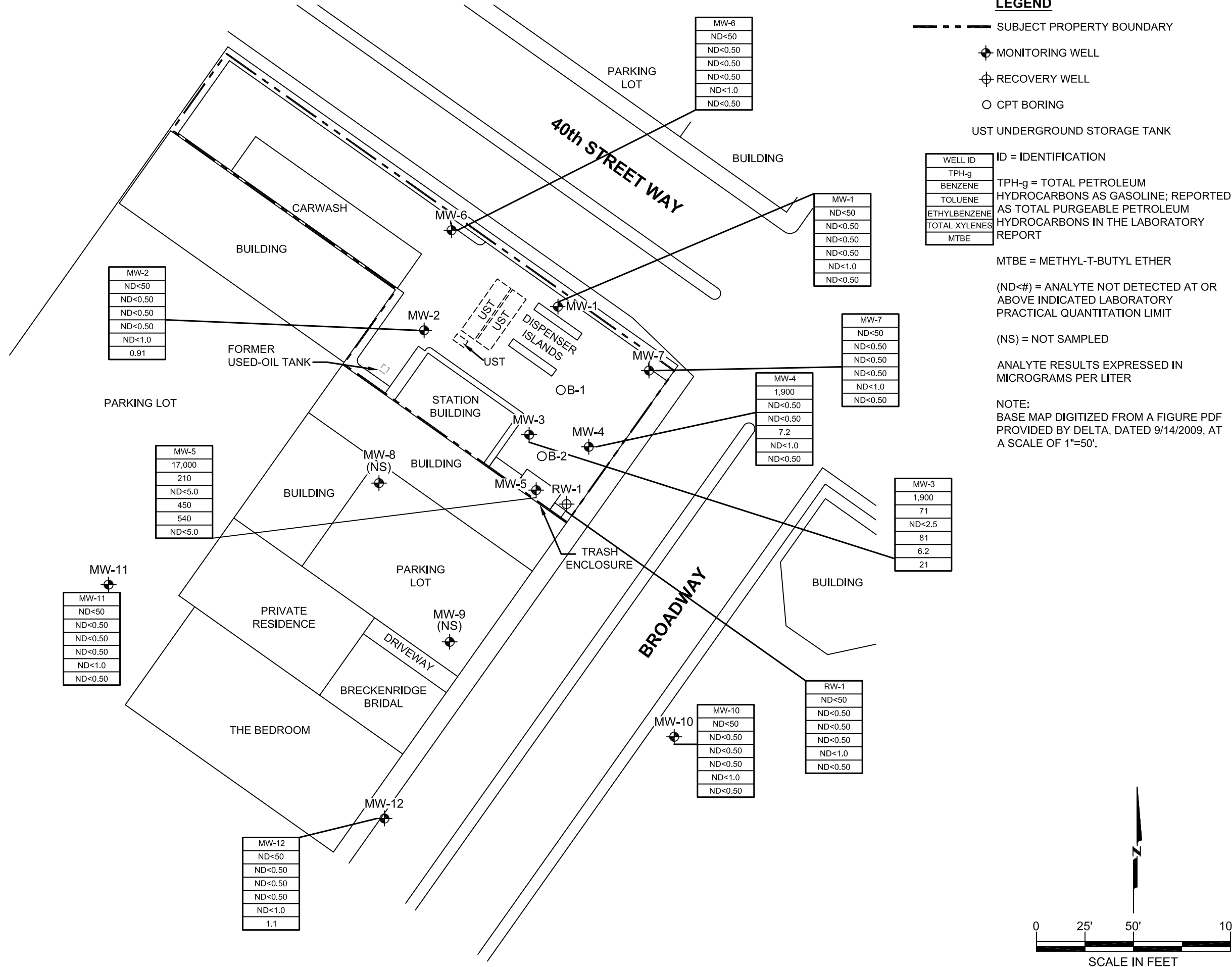
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PROJECT NUMBER: 60508949

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SHEET NUMBER:  
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**LEGEND**

- SUBJECT PROPERTY BOUNDARY
- ◉ MONITORING WELL
- ◌ RECOVERY WELL
- CPT BORING
- UST UNDERGROUND STORAGE TANK

WELL ID	ID = IDENTIFICATION
TPH-g	TPH-g = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE; REPORTED AS TOTAL PURGEABLE PETROLEUM
BENZENE	HYDROCARBONS IN THE LABORATORY REPORT
TOLUENE	
ETHYLBENZENE	
TOTAL XYLENES	
MTBE	MTBE = METHYL-T-BUTYL ETHER

MTBE = METHYL-T-BUTYL ETHER

(ND<#) = ANALYTE NOT DETECTED AT OR ABOVE INDICATED LABORATORY PRACTICAL QUANTITATION LIMIT

(NS) = NOT SAMPLED

ANALYTE RESULTS EXPRESSED IN MICROGRAMS PER LITER

NOTE:  
BASE MAP DIGITIZED FROM A FIGURE PDF PROVIDED BY DELTA, DATED 9/14/2009, AT A SCALE OF 1"=50'.

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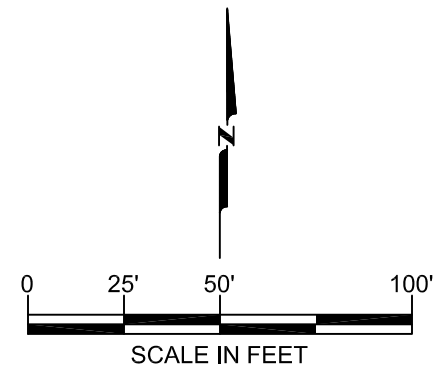
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**FIRST SEMI-ANNUAL 2016 GROUNDWATER ANALYTICAL DATA MAP**

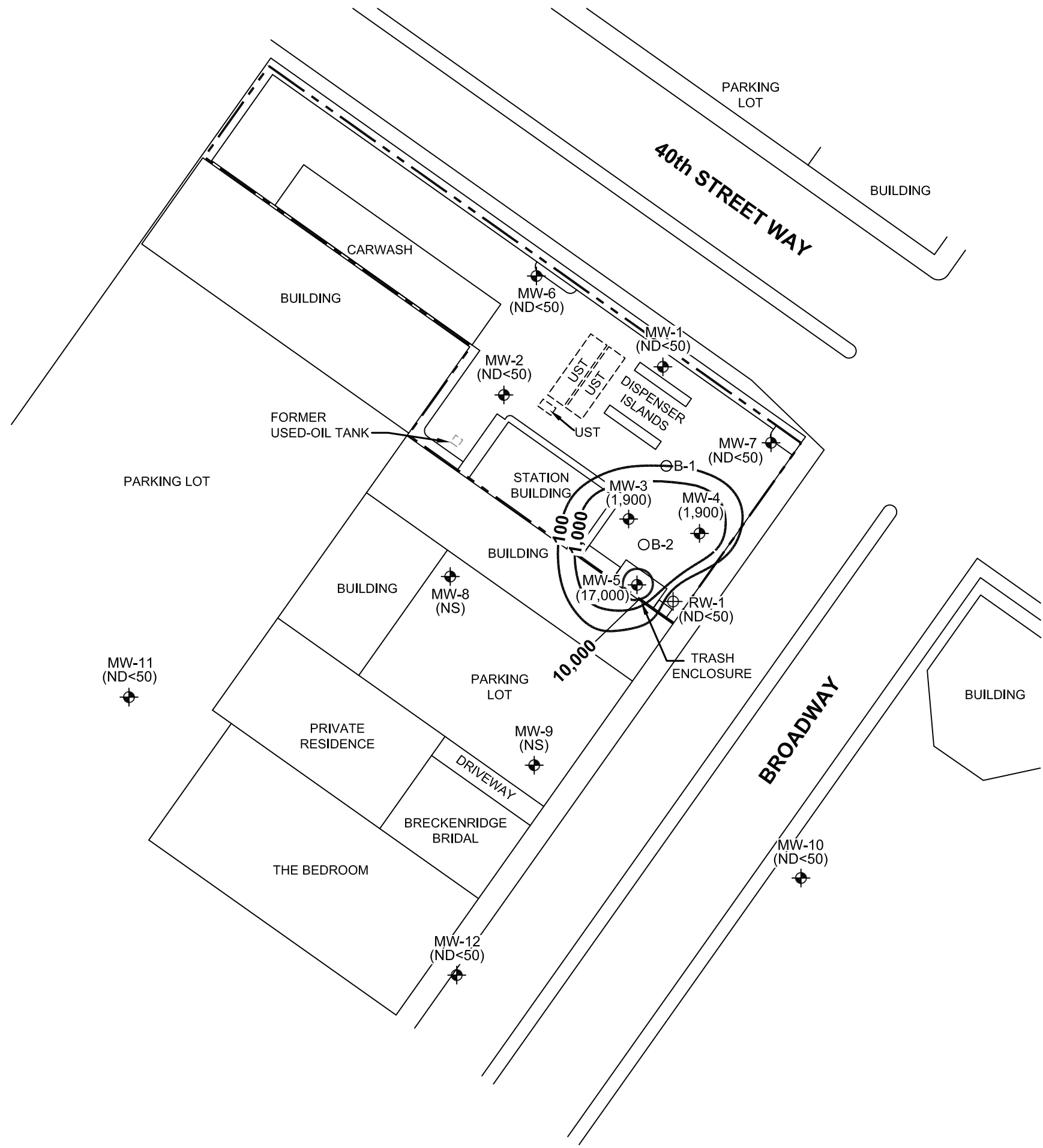
76 STATION NO. 0746 (351647)  
3943 BROADWAY  
OAKLAND, CALIFORNIA

SCALE:	DATE:	PROJECT NUMBER:
1" = 50'	07/07/2016	60508949

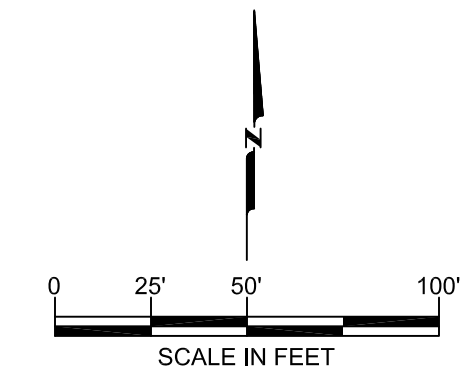
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SHEET NUMBER:	1 of 1



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- LEGEND**
- SUBJECT PROPERTY BOUNDARY
  - ⊕ MONITORING WELL
  - ⊕ RECOVERY WELL
  - CPT BORING
  - UST UNDERGROUND STORAGE TANK
  - TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE; REPORTED AS TOTAL PURGEABLE PETROLEUM HYDROCARBONS IN THE LABORATORY REPORT
  - (#) TPH-g CONCENTRATION IN MICROGRAMS PER LITER
  - 100 --- CONTOUR OF TPH-g CONCENTRATIONS IN MICROGRAMS PER LITER
  - (ND<#) ANALYTE NOT DETECTED AT OR ABOVE INDICATED LABORATORY PRACTICAL QUANTITATION LIMIT
  - (NS) NOT SAMPLED
- NOTE:  
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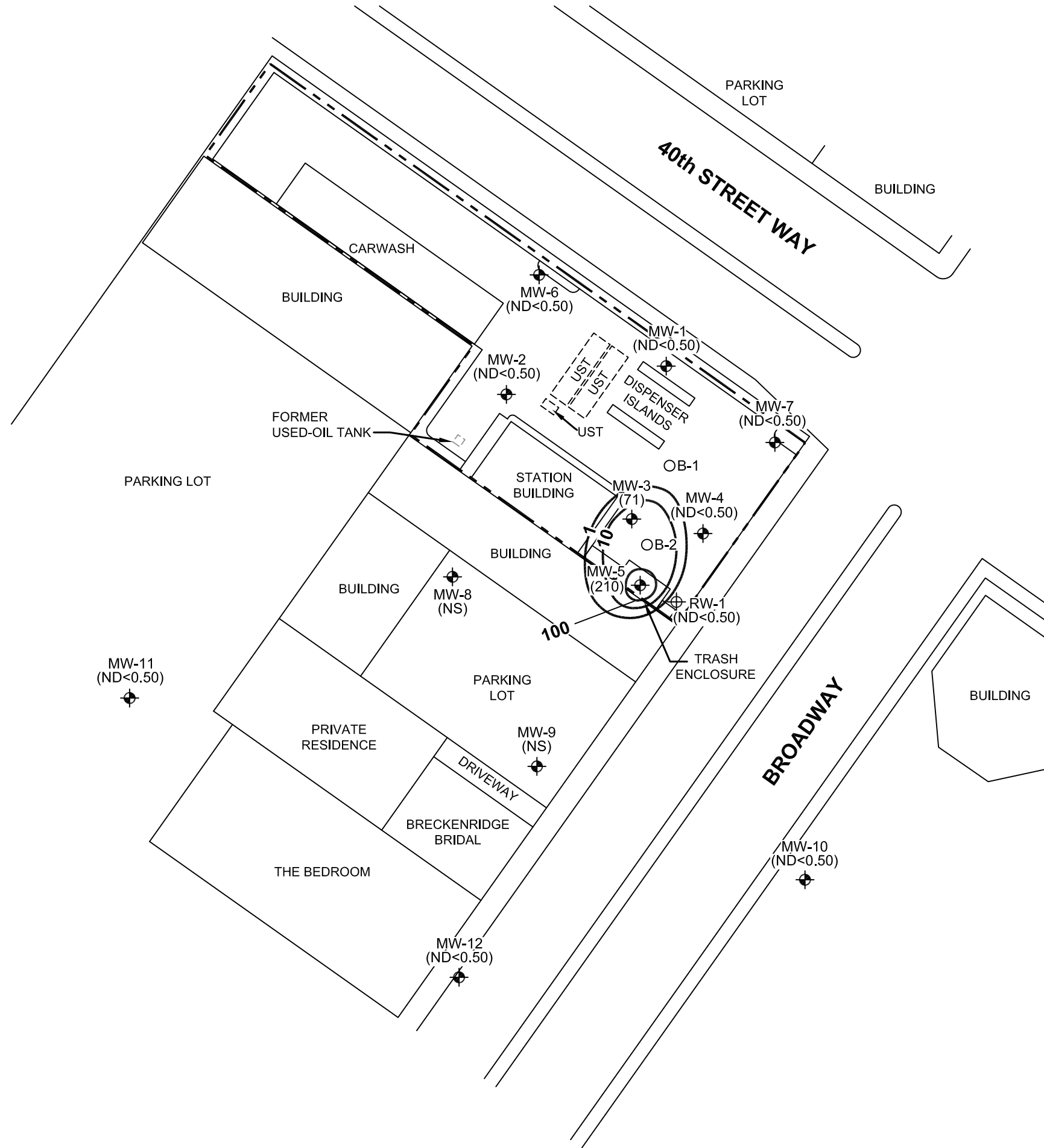
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SCALE	DATE	PROJECT NUMBER
1" = 50'	07/07/2016	60508949

FIGURE NUMBER:  
**5**

SHEET NUMBER:  
1 of 1

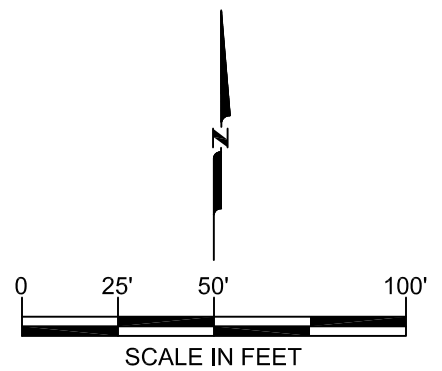
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**LEGEND**

- SUBJECT PROPERTY BOUNDARY
- MONITORING WELL
- RECOVERY WELL
- CPT BORING
- UST UNDERGROUND STORAGE TANK
- (#) BENZENE CONCENTRATION IN MICROGRAMS PER LITER
- CONTOUR OF BENZENE CONCENTRATIONS IN MICROGRAMS PER LITER
- (ND<#) ANALYTE NOT DETECTED AT OR ABOVE INDICATED LABORATORY PRACTICAL QUANTITATION LIMIT
- (NS) NOT SAMPLED

NOTE:  
 BASE MAP DIGITIZED FROM A FIGURE PDF PROVIDED BY DELTA, DATED 9/14/2009, AT A SCALE OF 1"=50'.



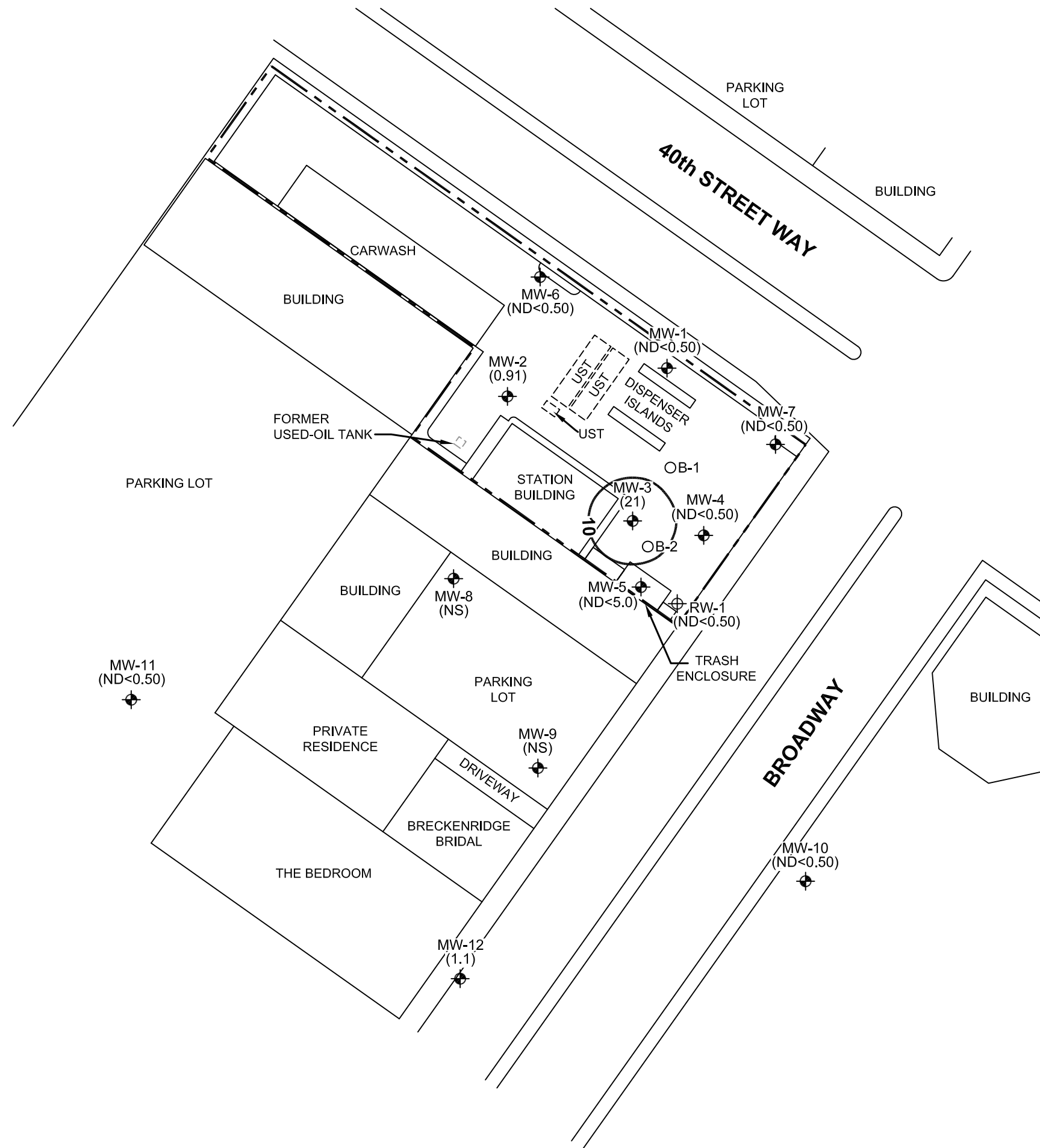
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FIRST SEMI-ANNUAL 2016 BENZENE CONCENTRATION MAP			
76 STATION NO. 0746 (351647) 3943 BROADWAY OAKLAND, CALIFORNIA			
SCALE: 1" = 50'	DATE: 07/07/2016	PROJECT NUMBER: 60508949	

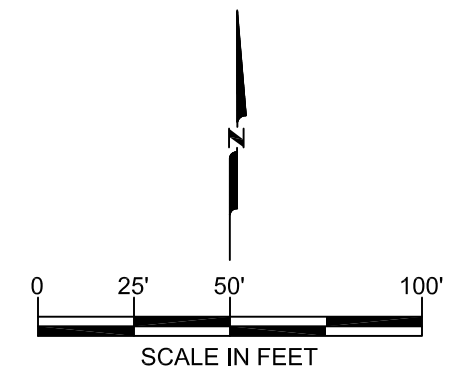
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**6**

SHEET NUMBER:  
1 of 1



- LEGEND**
- SUBJECT PROPERTY BOUNDARY
  - ⊕ MONITORING WELL
  - ⊕ RECOVERY WELL
  - CPT BORING
  - ▭ UST UNDERGROUND STORAGE TANK
  - MTBE METHYL-T-BUTYL ETHER
  - (#) MTBE CONCENTRATION IN MICROGRAMS PER LITER
  - 10 CONTOUR OF MTBE CONCENTRATIONS IN MICROGRAMS PER LITER
  - (ND<#) ANALYTE NOT DETECTED AT OR ABOVE INDICATED LABORATORY PRACTICAL QUANTITATION LIMIT
  - (NS) NOT SAMPLED

NOTE:  
BASE MAP DIGITIZED FROM A FIGURE PDF PROVIDED BY DELTA, DATED 9/14/2009, AT A SCALE OF 1"=50'.



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**FIRST SEMI-ANNUAL 2016  
MTBE CONCENTRATION MAP**

76 STATION NO. 0746 (351647)  
3943 BROADWAY  
OAKLAND, CALIFORNIA

SCALE: 1" = 50'

DATE: 07/07/2016

PROJECT NUMBER: 60508949

FIGURE NUMBER:  
**7**

SHEET NUMBER:  
1 of 1

## **ATTACHMENT C**

### **TABLES**

**Table 1**  
**Well Construction Details**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	INSTALLATION DATE	TOC (feet amsl)	BORING DEPTH (feet bgs)	WELL DEPTH (feet bgs)	BORING DIAMETER (inches)	WELL DIAMETER (inches)	SCREEN INTERVAL (feet bgs)	SCREEN SIZE (inches)	SAND FILTER PACK	SCREEN ZONE (feet bgs) WITHIN SOIL TYPE	LOCATION	STATUS
MW-1	10/17/1989	81.07	20	20	9	2	5-20	0.020	#3	(5-7.5)CH (7.5-10)SC (10-12)GC (12-14)GP/GC (14-19)CH (19-20)GC	On-site	Active
MW-2	10/17/1989	81.62	20	20	9	2	5-20	0.020	#3	(5-6.5)CH (6.5-10)CL/CH (10-13)SC (13-15)GW/GC (15-20)CL/CH	On-site	Active
MW-3	10/17/1989	82.01	22.5	22.5	9	2	5-22.5	0.020	#3	(5-7.5)CH (7.5-11)CL/CH (11-14)SC (14-22.5)CL/CH	On-site	Active
MW-4	1/26/1990	81.48	20	20	9	2	5-20	0.020	#3	(5-6.5)MH (6.5-10)CH (10-11.5)GC (11.5-12.5)CH (12.5-13)GC (13-20)CH	On-site	Active
MW-5	1/26/1990	81.59	20	20	9	2	5-20	0.020	#3	(5-6.5)MH (6.5-11)CH (11-13.5)SC (13.5-15.5)GW/GC (15.5-20)CH	On-site	Active
MW-6	10/22/1990	80.47	20	20	9	2	5-20	0.020	#3	(5-7)CL/CH (7-10)GC (10-17)CL/CH (17-20)ML/MH	On-site	Active
MW-7	10/22/1990	81.83	20	20	9	2	5-20	0.020	#3	(5-7)CH (7-10)CL/CH (10-11.5)SC (11.5-12.5)GW (12.5-14)GC (14-20)ML/MH	On-site	Active
MW-8	10/22/1990	81.71	22	22	9	2	5-22	0.020	#3	(5-8.5)CL/CH (8.5-12)GC (12-22)CL/CH	Off-site	Active
MW-9	10/23/1990	81.13	22	22	9	2	5-22	0.020	#3	(5-5.5)MH (5.5-11.5)CL/CH (11.5-15.5)GC (15.5-22)CL/CH	Off-site	Active
MW-10	1/7/1992	81.90	22	22	9	2	6-22	0.010	#2/16	(5-7)SM (7-10)CH (10-12)GC (12-19)CL (19-20)ML (20-22)SC	Off-site	Active
MW-11	1/7/1992	78.43	21	19	9	2	5-19	0.010	#2/16	(5-8)SC (8-10)GC (10-20)CH (20-21)SW/SM	Off-site	Active
MW-12	6/26/1992	79.89	17.5	17.5	8	2	5-17.5	0.010	#2/12	(5-5.5)MH (5.5-6.5)CL/SC (6.5-8.5)CH (8.5-11.5)GC (11.5-17.5)CL	Off-site	Active
RW-1	6/25/1992	81.20	17.5	17.5	13.5	6	5-15	0.010	#2/12	(5-6.5)MH (6.5-10)CH (10-11)SC (11-12.5)GC (12.5-17)CL (17-17.5)SC	On-site	Active

**NOTES:**  
amsl = Above mean sea level  
bgs = Below ground surface  
CH = Silty clay  
CL = Clay  
GC = Clayey gravel  
GP = Poorly-graded gravel  
GW = Well-graded gravel  
ID = Identification  
ML = Silty gravel  
MH = Clayey silt  
SC = Clayey sand  
SM = Silty sand  
SW = Well-graded sand  
TOC = Top of casing



**Table 2**  
**Current Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
MW-1	80.54	6/22/2016	8.06	72.48	0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
MW-2	81.32	6/22/2016	9.04	72.28	0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
MW-3	81.41	6/22/2016	9.81	71.60	0	1,900	71	ND<2.5	81	6.2	
MW-4	--	6/22/2016	9.08	--	0	1,900	ND<0.50	ND<0.50	7.2	ND<1.0	
MW-5	81.38	6/22/2016	9.43	71.95	0	17,000	210	ND<5.0	450	540	
MW-6	79.94	6/22/2016	7.91	72.03	0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
MW-7	--	6/22/2016	8.79	--	0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
MW-8	81.41	6/22/2016	--	--	--	--	--	--	--	--	Inaccessible
MW-9	80.53	6/22/2016	--	--	--	--	--	--	--	--	Inaccessible
MW-10	81.61	6/22/2016	13.58	68.03	0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
MW-11	78.18	6/22/2016	13.07	65.11	0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
MW-12	79.61	6/22/2016	10.27	69.34	0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
RW-1	80.63	6/22/2016	8.41	72.22	0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
QA	--	6/22/2016	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	

**NOTES:**

\* TOC and GWE are in feet above mean sea level. GWE for wells with LNAPL has been adjusted for LNAPL thickness.

BTEX analyzed by Environmental Protection Agency (EPA) Method 8260B.

TPH-g analyzed by Leaking Underground Fuel Tank-gas chromatography/mass spectrometry method

µg/L = Micrograms per liter

-- = Not available/not sampled

B = Benzene

DTW = Depth to water below TOC

E = Ethylbenzene

ft = Feet

GWE = Groundwater elevation

ID = Identification

LNAPL = Light non-aqueous phase liquid

ND<# = Analyte not detected at or above indicated laboratory practical quantitation limit

QA = Quality assurance/trip blank

T = Toluene

TOC = Top of casing

TPH-g = Total petroleum hydrocarbons as gasoline; reported as Total Purgeable Petroleum Hydrocarbons in the laboratory report

X = Total xylenes

**Table 3**  
**Current Groundwater Analytical Results - Oxygenate Compounds**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDC (µg/L)
MW-1	6/22/2016	ND<0.50	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2	6/22/2016	0.91	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-3	6/22/2016	21	ND<50	ND<1,200	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
MW-4	6/22/2016	ND<0.50	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-5	6/22/2016	ND<5.0	ND<100	ND<2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
MW-6	6/22/2016	ND<0.50	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-7	6/22/2016	ND<0.50	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-8	6/22/2016	--	--	--	--	--	--	--	--
MW-9	6/22/2016	--	--	--	--	--	--	--	--
MW-10	6/22/2016	ND<0.50	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-11	6/22/2016	ND<0.50	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-12	6/22/2016	1.1	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
RW-1	6/22/2016	ND<0.50	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
QA	6/22/2016	ND<0.50	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

**NOTES:**

Oxygenate compounds analyzed by Environmental Protection Agency Method 8260B  
µg/L = Micrograms per liter  
-- = Not available/not sampled  
DIPE = Diisopropyl ether  
EDB = 1,2-Dibromoethane  
EDC = 1,2-Dichloroethane  
ID = Identification  
J = Laboratory estimated value  
MTBE = Methyl t-Butyl Ether  
ND<# = Analyte not detected at or above indicated laboratory practical quantitation limit  
QA = Quality assurance/trip blank  
TAME = t-Amyl Methyl ether  
TBA = t-Butyl alcohol

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
MW-1	--	11/1/1989	--	--	--	--	ND	ND	ND	ND	0.3	
	--	2/15/1990	--	--	--	--	170	7.9	ND	2.2	2.8	
	--	8/16/1990	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/7/1990	--	--	--	--	45	ND	ND	ND	ND	
	--	2/25/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	5/28/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/28/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/19/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	2/6/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	5/23/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/26/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/20/1992	--	--	--	--	ND	0.75	ND	ND	ND	
	81.07	12/21/1992	8.12	72.95	0	--	--	--	--	--	--	
	81.07	1/30/1993	7.63	73.44	0	--	--	--	--	--	--	
	81.07	2/24/1993	7.16	73.91	0	--	1,100	280	4.9	120	140	
	81.07	3/22/1993	6.26	74.81	0	--	--	--	--	--	--	
	81.07	4/28/1993	7.91	73.16	0	--	--	--	--	--	--	
	81.07	5/25/1993	7.87	73.20	0	--	260	27	4.9	2.6	54	
	80.54	6/23/1993	7.66	72.88	0	--	--	--	--	--	--	
	80.54	7/22/1993	7.87	72.67	0	--	--	--	--	--	--	
	80.54	8/25/1993	8.00	72.54	0	--	ND	ND	ND	ND	ND	
	80.54	9/22/1993	8.10	72.44	0	--	--	--	--	--	--	
	80.54	10/28/1993	8.15	72.39	0	--	--	--	--	--	--	
	80.54	11/30/1993	7.65	72.89	0	--	--	--	--	--	--	
	80.54	2/16/1994	7.46	73.08	0	--	ND	0.84	ND	ND	0.59	
	80.54	5/31/1994	7.80	72.74	0	--	--	--	--	--	--	
	80.54	8/31/1994	8.27	72.27	0	--	ND	ND	0.98	ND	0.84	
	80.54	9/27/1994	8.37	72.17	0	--	--	--	--	--	--	
	80.54	10/11/1994	8.36	72.18	0	--	--	--	--	--	--	
	80.54	11/10/1994	6.43	74.11	0	--	--	--	--	--	--	
	80.54	2/7/1995	7.06	73.48	0	--	6,100	670	ND	120	60	
	80.54	5/3/1995	6.85	73.69	0	--	260	21	39	17	24	
	80.54	8/3/1995	7.69	72.85	0	--	--	--	--	--	--	
	80.54	11/7/1995	8.15	72.39	0	--	ND	ND	ND	ND	ND	
	80.54	5/6/1996	7.40	73.14	0	--	170	1.0	20	2.3	17	
	80.54	11/5/1996	7.90	72.64	0	--	ND	ND	ND	ND	ND	
	80.54	5/15/1997	7.77	72.77	0	--	ND	ND	ND	ND	ND	
	80.54	11/12/1997	7.48	73.06	0	--	ND	ND	ND	ND	ND	
	80.54	5/4/1998	7.39	73.15	0	--	ND	ND	ND	ND	ND	
	80.54	11/11/1998	7.37	73.17	0	--	ND	ND	ND	ND	ND	
	80.54	5/20/1999	7.41	73.13	0	--	ND	ND	ND	ND	ND	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
80.54		11/15/1999	7.84	72.70	0	--	ND	ND	ND	ND	ND	
80.54		5/22/2000	7.53	73.01	0	--	ND	0.89	ND	ND	ND	
80.54		11/22/2000	7.35	73.19	0	--	ND	ND	ND	ND	ND	
80.54		5/15/2001	7.48	73.06	0	--	345	ND	3.41	2.77	25.2	
80.54		11/23/2001	7.57	72.97	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
80.54		5/24/2002	7.10	73.44	0	--	70	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
80.54		11/29/2002	7.96	72.58	0	--	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<5.0	
80.54		5/15/2003	7.22	73.32	0	--	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<5.0	
80.54		11/4/2003	7.94	72.60	0	120	--	ND<1.0	ND<1.0	ND<1.0	ND<2.0	
80.54		5/24/2004	7.54	73.00	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		11/29/2004	7.27	73.27	0	58	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		6/24/2005	7.06	73.48	0	87	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		12/15/2005	7.35	73.19	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		6/14/2006	7.06	73.48	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		12/21/2006	7.12	73.42	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
80.54		6/28/2007	7.79	72.75	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
80.54		12/13/2007	7.94	72.60	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		6/9/2008	8.00	72.54	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		12/30/2008	7.51	73.03	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		9/28/2009	8.10	72.44	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		12/15/2009	7.32	73.22	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		6/28/2010	7.80	72.74	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		12/29/2010	6.22	74.32	0	99	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		6/7/2011	6.25	74.29	0	140	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		12/9/2011	7.97	72.57	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		6/1/2012	7.63	72.91	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		6/6/2013	7.88	72.66	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		12/13/2013	8.34	72.20	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		6/23/2014	8.27	72.27	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		12/17/2014	5.82	74.72	0	1,100	1,200	50	8.2	14	230	
80.54		6/9/2015	8.06	72.48	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.54		12/30/2015	7.72	72.82	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
<b>80.54</b>		<b>6/22/2016</b>	<b>8.06</b>	<b>72.48</b>	<b>0</b>	--	<b>ND&lt;50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;1.0</b>	
<b>MW-2</b>	--	11/1/1989	--	--	--	--	200	ND	ND	3.0	1.2	
	--	2/15/1990	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/16/1990	--	--	--	--	ND	ND	6.7	ND	ND	
	--	11/7/1990	--	--	--	--	ND	ND	ND	ND	ND	
	--	2/25/1991	--	--	--	--	ND	0.68	0.42	ND	0.86	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
--	--	5/28/1991	--	--	--	--	ND	ND	ND	ND	ND	
--	--	8/28/1991	--	--	--	--	ND	ND	ND	ND	ND	
--	--	11/19/1991	--	--	--	--	ND	ND	ND	ND	ND	
--	--	2/6/1992	--	--	--	--	ND	0.36	0.66	ND	0.62	
--	--	5/23/1992	--	--	--	--	ND	ND	ND	ND	ND	
--	--	8/26/1992	--	--	--	--	ND	ND	ND	ND	ND	
--	--	11/20/1992	--	--	--	--	510	ND	ND	ND	ND	
81.62		12/21/1992	9.14	72.48	0	--	--	--	--	--	--	
81.62		1/30/1993	8.99	72.63	0	--	--	--	--	--	--	
81.62		2/24/1993	8.03	73.59	0	--	11,000 J	ND	ND	ND	ND	
81.62		3/22/1993	9.50	72.12	0	--	--	--	--	--	--	
81.62		4/28/1993	8.87	72.75	0	--	--	--	--	--	--	
81.62		5/25/1993	9.04	72.58	0	--	1,300 J	ND	ND	ND	ND	
81.32		6/23/1993	9.17	72.15	0	--	--	--	--	--	--	
81.32		7/22/1993	9.42	71.90	0	--	--	--	--	--	--	
81.32		8/25/1993	9.53	71.79	0	--	190 J	ND	ND	ND	ND	
81.32		9/22/1993	9.67	71.65	0	--	--	--	--	--	--	
81.32		10/28/1993	9.65	71.67	0	--	--	--	--	--	--	
81.32		11/30/1993	9.18	72.14	0	--	480 J	ND	ND	ND	ND	
81.32		2/16/1994	8.91	72.41	0	--	3,200 J	ND	ND	ND	ND	
81.32		5/31/1994	9.36	71.96	0	--	1,100 J	ND	ND	ND	ND	
81.32		8/31/1994	9.85	71.47	0	--	310 J	ND	ND	ND	ND	
81.32		9/27/1994	9.95	71.37	0	--	--	--	--	--	--	
81.32		11/10/1994	7.47	73.85	0	--	95 J	ND	ND	ND	ND	
81.32		2/7/1995	8.29	73.03	0	--	1,600 J	ND	ND	ND	ND	
81.32		5/3/1995	8.12	73.20	0	--	ND	ND	ND	ND	ND	
81.32		8/3/1995	9.35	71.97	0	--	ND	ND	ND	ND	ND	
81.32		8/19/1995	--	--	0	--	--	--	--	--	--	
81.32		10/11/1995	9.95	71.37	0	--	--	--	--	--	--	
81.32		11/7/1995	9.65	71.67	0	--	ND	ND	ND	ND	ND	
81.32		5/6/1996	8.90	72.42	0	--	--	--	--	--	--	
81.32		11/5/1996	10.98	70.34	0	--	--	--	--	--	--	
81.32		5/15/1997	9.13	72.19	0	--	--	--	--	--	--	
81.32		11/12/1997	9.84	71.48	0	--	--	--	--	--	--	
81.32		5/4/1998	9.26	72.06	0	--	--	--	--	--	--	
81.32		11/11/1998	8.88	72.44	0	--	--	--	--	--	--	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
81.32		5/20/1999	8.68	72.64	0	--	--	--	--	--	--	
81.32		11/15/1999	8.91	72.41	0	--	--	--	--	--	--	
81.32		5/22/2000	8.61	72.71	0	--	--	--	--	--	--	
81.32		11/22/2000	8.64	72.68	0	--	--	--	--	--	--	
81.32		5/15/2001	8.73	72.59	0	--	--	--	--	--	--	
81.32		11/23/2001	8.61	72.71	0	--	--	--	--	--	--	
81.32		5/24/2002	8.03	73.29	0	--	--	--	--	--	--	
81.32		11/29/2002	8.79	72.53	0	--	--	--	--	--	--	
81.32		5/15/2003	8.21	73.11	0	--	--	--	--	--	--	
81.32		11/4/2003	--	--	--	--	--	--	--	--	--	Unable to open due to stripped bolts
81.32		5/24/2004	--	--	--	--	--	--	--	--	--	Unable to open due to stripped bolts
81.32		11/29/2004	--	--	--	--	--	--	--	--	--	Unable to open due to stripped bolts
81.32		6/24/2005	--	--	--	--	--	--	--	--	--	Unable to open due to stripped bolts
81.32		12/15/2005	--	--	--	--	--	--	--	--	--	Unable to open due to stripped bolts
81.32		6/14/2006	8.56	72.76	0	140	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.32		12/21/2006	8.38	72.94	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
81.32		6/28/2007	9.23	72.09	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
81.32		12/13/2007	9.10	72.22	0	ND<50	--	ND<0.50	1.1	ND<0.50	1.4	
81.32		6/9/2008	10.01	71.31	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.32		12/30/2008	--	--	--	--	--	--	--	--	--	Unable to locate due to debris
81.32		9/28/2009	--	--	--	--	--	--	--	--	--	Unable to open due to stripped bolts
81.32		12/15/2009	8.93	72.39	0	69	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.32		6/28/2010	9.65	71.67	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.32		12/29/2010	7.91	73.41	0	67	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.32		6/7/2011	7.75	73.57	0	73	--	0.97	ND<0.50	ND<0.50	ND<1.0	
81.32		12/9/2011	8.95	72.37	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.32		6/1/2012	9.18	72.14	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.32		6/6/2013	9.40	71.92	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.32		12/13/2013	9.68	71.64	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	3.1	
81.32		6/23/2014	9.69	71.63	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.32		12/17/2014	6.88	74.44	0	--	ND<50	0.8	ND<0.50	ND<0.50	ND<1.0	
81.32		6/9/2015	9.01	72.31	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.32		12/30/2015	8.89	72.43	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
<b>81.32</b>		<b>6/22/2016</b>	<b>9.04</b>	<b>72.28</b>	<b>0</b>	--	<b>ND&lt;50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;1.0</b>	
<b>MW-3</b>	--	11/1/1989	--	--	--	--	13,000	57	48	1.7	120	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
--	--	2/15/1990	--	--	--	--	20,000	1,700	2,100	750	3,100	
--	--	8/16/1990	--	--	--	--	6,800	600	660	760	160	
--	--	11/7/1990	--	--	--	--	42,000	1,400	5,000	1,800	7,500	
--	--	2/25/1991	--	--	--	--	37,000	730	2,900	1,300	7,300	
--	--	5/28/1991	--	--	--	--	24,000	570	1,100	810	4,200	
--	--	8/28/1991	--	--	--	--	16,000	650	2,200	1,100	5,400	
--	--	11/19/1991	--	--	--	--	22,000	250	440	660	3,000	
--	--	2/6/1992	--	--	--	--	24,000	600	1,800	1,200	5,800	
--	--	5/23/1992	--	--	--	--	25,000	300	130	880	4,900	
--	--	8/26/1992	--	--	--	--	20,000	690	1,900	1,300	5,700	
--	--	11/20/1992	--	--	--	--	1,100,000	1,800	6,400	3,000	15,000	
82.01		12/4/1992	10.30	71.71	0	--	--	--	--	--	--	
82.01		12/21/1992	9.78	72.23	0	--	--	--	--	--	--	Sheen
82.01		1/9/1993	8.55	73.46	0	--	--	--	--	--	--	
82.01		1/30/1993	8.90	73.11	0	--	--	--	--	--	--	
82.01		2/10/1993	9.01	72.99	0.01	--	--	--	--	--	--	
82.01		2/24/1993	8.26	73.74	0.01	--	--	--	--	--	--	
82.01		3/9/1993	9.18	72.82	0.02	--	--	--	--	--	--	
82.01		3/22/1993	8.81	73.19	0.02	--	--	--	--	--	--	
82.01		4/8/1993	9.14	72.86	0.02	--	--	--	--	--	--	
82.01		4/28/1993	9.44	72.55	0.03	--	--	--	--	--	--	
82.01		5/12/1993	9.57	72.42	0.03	--	--	--	--	--	--	
82.01		5/25/1993	9.45	72.54	0.03	--	--	--	--	--	--	
81.41		6/7/1993	8.94	72.47	0	--	--	--	--	--	--	
81.41		6/23/1993	9.20	72.20	0.02	--	--	--	--	--	--	
81.41		7/8/1993	9.31	72.08	0.03	--	--	--	--	--	--	
81.41		7/22/1993	9.47	71.94	0	--	--	--	--	--	--	
81.41		8/11/1993	9.59	71.82	0	--	--	--	--	--	--	
81.41		8/25/1993	9.67	71.72	0.03	--	--	--	--	--	--	
81.41		9/8/1993	10.34	71.07	0	--	--	--	--	--	--	
81.41		9/22/1993	9.84	71.56	0.02	--	--	--	--	--	--	
81.41		10/7/1993	9.87	71.54	0	--	--	--	--	--	--	
81.41		10/28/1993	10.03	71.38	0	--	--	--	--	--	--	
81.41		11/12/1993	9.76	71.65	0	--	--	--	--	--	--	
81.41		11/30/1993	9.66	71.74	0.02	--	--	--	--	--	--	
81.41		2/16/1994	8.87	72.54	0	--	57,000	910	2,500	2,100	9,000	Sheen

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
81.41		5/31/1994	9.48	71.93	0	--	39,000	670	630	1,500	6,200	
81.41		8/31/1994	10.08	71.33	0	--	44,000	500	240	1,400	5,700	
81.41		9/24/1994	10.22	71.19	0	--	--	--	--	--	--	
81.41		10/11/1994	10.41	70.99	0.01	--	--	--	--	--	--	LPH in well
81.41		11/10/1994	7.47	73.94	0	--	86,000	3,300	3,800	1,800	8,300	Sheen
81.41		2/7/1995	8.05	73.36	0	--	45,000	1,400	1,300	1,500	5,600	
81.41		3/14/1995	7.05	74.36	0	--	--	--	--	--	--	
81.41		5/3/1995	7.91	73.50	0	--	26,000	740	990	1,100	4,400	
81.41		8/3/1995	9.28	72.13	0	--	18,000	59	ND	530	1,900	
81.41		8/19/1995	--	--	0	--	--	--	--	--	--	
81.41		11/7/1995	10.79	70.62	0	--	17,000	110	26	400	1,500	
81.41		5/6/1996	9.44	71.97	0	--	5,100	48	ND	87	210	Sheen
81.41		11/5/1996	10.64	70.77	0	--	35,000	2,200	ND	1,200	2,800	
81.41		5/15/1997	9.61	71.80	0	--	2,400	110	ND	ND	140	
81.41		11/12/1997	9.18	72.23	0	--	29,000	2,000	ND	1,800	3,000	
81.41		5/4/1998	9.50	71.91	0	--	8,200	430	ND	310	320	
81.41		11/11/1998	9.25	72.16	0	--	8,700	500	ND	330	310	
81.41		5/20/1999	8.95	72.46	0	--	4,300	250	ND	ND	86	
81.41		11/15/1999	10.35	71.06	0	--	6,720	326	ND	398	226	
81.41		5/22/2000	9.14	72.27	0	--	4,000	99	4.5	190	75	
81.41		11/22/2000	9.33	72.08	0	--	6,130	93.7	6.71	174	47.8	
81.41		5/15/2001	9.25	72.16	0	--	4,490	229	7.09	160	31.6	
81.41		11/23/2001	9.12	72.29	0	--	3,500	41	ND<5.0	120	8.0	
81.41		5/24/2002	8.58	72.83	0	--	4,000	86	6.0	120	5.8	
81.41		11/29/2002	9.81	71.60	0	--	5,300	ND<25	ND<25	65	ND<50	
81.41		5/15/2003	8.76	72.65	0	--	5,600	ND<5.0	ND<5.0	81	ND<10	
81.41		11/4/2003	9.90	71.51	0	13,000	--	ND<20	ND<20	72	56	
81.41		5/24/2004	9.29	72.12	0	10,000	--	14	ND<10	81	ND<20	
81.41		11/29/2004	9.15	72.26	0	9,000	--	5.9	ND<5.0	45	ND<10	
81.41		6/24/2005	8.65	72.76	0	5,600	--	31	4.1	97	220	
81.41		12/15/2005	9.27	72.14	0	6,800	--	81	45	110	220	
81.41		6/14/2006	8.73	72.68	0	10,000	--	38	ND<2.5	130	170	
81.41		12/21/2006	8.95	72.46	0	6,600	--	36	ND<2.5	150	120	
81.41		6/28/2007	10.01	71.40	0	6,700	--	33	ND<0.50	70	24	
81.41		12/13/2007	10.22	71.19	0	4,000	--	20	ND<1.0	51	19	
81.41		6/9/2008	10.25	71.16	0	9,700	--	190	ND<2.5	170	48	



**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
81.41		12/30/2008	--	--	--	--	--	--	--	--	--	Unable to locate due to debris
81.41		9/28/2009	10.15	71.26	0	6,200	--	39	ND<2.5	170	12	
81.41		12/15/2009	9.18	72.23	0	3,300	--	9.1	ND<2.5	47	5.6	
81.41		6/28/2010	9.82	71.59	0	10,000	--	13	ND<0.50	92	14	
81.41		12/29/2010	7.84	73.57	0	3,900	--	16	ND<0.50	36	5.2	
81.41		6/7/2011	6.10	75.31	0	3,700	--	170	ND<1.0	150	40	
81.41		12/9/2011	10.08	71.33	0	--	9,900	11	ND<2.5	98	47	
81.41		6/1/2012	9.92	71.49	0	--	4,300	4.6	ND<0.50	17	3.4	
81.41		11/23/2012	9.78	71.63	0	--	2,000	1.3	ND<0.50	12	ND<1.0	
81.41		12/13/2013	10.39	71.02	0	--	1,100	ND<0.50	ND<0.50	23	4.2	
81.41		6/23/2014	10.28	71.13	0	--	4,200	87	ND<0.50	76	13	
81.41		12/17/2014	7.99	73.42	0	8,700	5,900	35	ND<0.50	56	4.7	
81.41		6/9/2015	9.74	71.67	0	--	6,500	4	ND<0.50	ND<0.50	ND<1.0	Sheen
81.41		12/30/2015	9.44	71.97	0	--	3,100	2.3	ND<0.50	20	ND<1.0	
<b>81.41</b>		<b>6/22/2016</b>	<b>9.81</b>	<b>71.60</b>	<b>0</b>	<b>--</b>	<b>1,900</b>	<b>71</b>	<b>ND&lt;2.5</b>	<b>81</b>	<b>6.2</b>	
<b>MW-4</b>	--	2/15/1990	--	--	--	--	150	8.0	8.0	10	45	
	--	8/16/1990	--	--	--	--	3,600	480	17	230	260	
	--	11/7/1990	--	--	--	--	180	1.5	0.37	6.3	26	
	--	2/25/1991	--	--	--	--	22,000	600	1,300	780	2,800	
	--	5/28/1991	--	--	--	--	38	ND	ND	ND	2	
	--	8/28/1991	--	--	--	--	2,000	1,500	20	120	300	
	--	11/19/1991	--	--	--	--	55	9.2	4.5	1.4	6.7	
	--	2/6/1992	--	--	--	--	5,700	2,200	140	57	980	
	--	5/23/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/26/1992	--	--	--	--	120	86	0.52	0.57	1.6	
	--	11/20/1992	--	--	--	--	ND	6.2	ND	1.2	0.52	
81.48		1/30/1993	8.35	73.13	0	--	--	--	--	--	--	
81.48		2/24/1993	8.17	73.31	0	--	140	12	0.64	9.4	3.7	
81.48		3/22/1993	8.12	73.36	0	--	--	--	--	--	--	
81.48		4/28/1993	9.36	72.12	0	--	--	--	--	--	--	
81.48		5/25/1993	8.75	72.73	0	--	74	10	ND	4.6	1.8	
81.29		6/23/1993	8.90	72.39	0	--	--	--	--	--	--	
81.29		7/22/1993	9.26	72.03	0	--	--	--	--	--	--	
81.29		8/25/1993	9.45	71.84	0	--	640	100	1.1	100	22	
81.29		9/22/1993	9.63	71.66	0	--	--	--	--	--	--	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
81.29		10/28/1993	9.62	71.67	0	--	--	--	--	--	--	
81.29		11/30/1993	9.40	71.89	0	--	200	28	ND	17	8.1	
81.48		12/21/1993	9.10	72.38	0	--	--	--	--	--	--	
81.29		2/16/1994	9.21	72.08	0	--	190	11	0.98	21	6.6	
81.29		5/31/1994	9.11	72.18	0	--	1,100	190	ND	100	58	
81.29		8/31/1994	10.01	71.28	0	--	400	17	0.94	14	5.2	
81.29		9/27/1994	10.09	71.20	0	--	--	--	--	--	--	
81.29		10/11/1994	11.50	69.79	0	--	--	--	--	--	--	
81.29		11/10/1994	9.21	72.08	0	--	7,700	1,800	280	460	1,300	
81.29		2/7/1995	7.66	73.63	0	--	540	47	ND	17	2.5	
81.29		5/3/1995	8.29	73.00	0	--	160	8.3	0.52	1.5	3.7	
81.29		8/3/1995	8.60	72.69	0	--	57	2.0	ND	ND	ND	
81.29		8/19/1995	--	--	0	--	--	--	--	--	--	
81.29		11/7/1995	10.28	71.01	0	--	ND	0.71	ND	ND	ND	
81.29		5/6/1996	8.70	72.59	0	--	1,200	12	11	15	36	
81.29		11/5/1996	10.00	71.29	0	--	700	32	0.71	1.8	1.3	
81.29		5/15/1997	9.37	71.92	0	--	51	ND	ND	ND	ND	
81.29		11/12/1997	8.92	72.37	0	--	74	1.7	ND	ND	ND	
81.29		5/4/1998	9.48	71.81	0	--	ND	ND	ND	ND	ND	
81.29		11/11/1998	9.13	72.16	0	--	ND	0.63	ND	ND	ND	
81.29		5/20/1999	8.41	72.88	0	--	ND	ND	ND	ND	ND	
81.29		11/15/1999	9.68	71.61	0	--	ND	ND	ND	ND	ND	
81.29		5/22/2000	8.60	72.69	0	--	ND	ND	ND	ND	ND	
81.29		11/22/2000	8.91	72.38	0	--	ND	ND	ND	ND	ND	
81.29		5/15/2001	8.66	72.63	0	--	ND	ND	1.10	ND	1.16	
81.29		11/23/2001	8.84	72.45	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
81.29		5/24/2002	7.93	73.36	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
81.29		11/29/2002	9.34	71.95	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.29		5/15/2003	7.87	73.42	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.48		11/4/2003	9.45	72.03	0		61	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0
81.48		5/24/2004	8.49	72.99	0		ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0
81.48		11/29/2004	9.01	72.47	0		120	--	ND<0.50	ND<0.50	0.52	ND<1.0
81.48		6/24/2005	7.81	73.67	0		90	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0
81.48		12/15/2005	8.73	72.75	0		170	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0
81.48		6/14/2006	7.43	74.05	0		ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0
--		12/21/2006	7.04	--	0		62	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50 Casing elevation modified on 6/21/2006

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	--	6/28/2007	11.49	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	--	12/13/2007	11.79	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	6/9/2008	12.24	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	12/30/2008	9.34	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	9/28/2009	--	--	--	--	--	--	--	--	--	Car parked over well
	--	12/15/2009	10.22	--	0	1,800	--	4.4	ND<0.50	8.5	ND<1.0	
	--	6/28/2010	11.74	--	0	230	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	12/29/2010	9.33	--	0	5,300	--	0.72	0.55	35	ND<1.0	
	--	6/7/2011	8.68	--	0	3,900	--	ND<2.5	ND<2.5	46	ND<5.0	
	--	12/9/2011	9.04	--	0	--	1,900	ND<0.50	ND<0.50	1.4	ND<1.0	
	--	6/1/2012	9.92	--	0	--	680	ND<2.5	ND<2.5	ND<2.5	ND<5.0	
	--	6/6/2013	9.17	--	0	--	410	0.52	ND<0.50	ND<0.50	ND<1.0	
	--	12/13/2013	10.05	--	0	--	3,200	2.1	ND<0.50	3.2	ND<1.0	
	--	6/23/2014	10.28	--	0	--	2,600	2.5	ND<0.50	9.1	ND<1.0	
	--	12/17/2014	9.32	--	0	1,900	1,800	4.5	ND<0.50	9.1	ND<1.0	
	--	6/9/2015	9.41	--	0	--	2,200	1.8	ND<0.50	11	ND<1.0	
	--	12/30/2015	9.78	--	0	--	5,000	1.4	ND<0.50	9.3	ND<1.0	
	--	<b>6/22/2016</b>	<b>9.08</b>	--	<b>0</b>	--	<b>1,900</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>7.2</b>	<b>ND&lt;1.0</b>	
<b>MW-5</b>	--	2/15/1990	--	--	--	--	24,000	1,500	1,700	260	3,600	
	--	8/16/1990	--	--	--	--	16,000	1,400	1,900	2,800	660	
	--	11/7/1990	--	--	--	--	20,000	640	1,100	670	3,000	
	--	2/25/1991	--	--	--	--	25,000	950	1,300	900	3,500	
	--	5/28/1991	--	--	--	--	24,000	2,300	3,400	1,300	6,000	
	--	8/28/1991	--	--	--	--	--	--	--	--	--	
	--	11/19/1991	--	--	--	--	--	--	--	--	--	
	--	2/6/1992	--	--	--	--	--	--	--	--	--	
	--	5/23/1992	--	--	--	--	--	--	--	--	--	
	--	8/26/1992	--	--	--	--	--	--	--	--	--	
	--	11/20/1992	--	--	--	--	--	--	--	--	--	
	81.59	12/4/1992	10.03	71.50	0.08	--	--	--	--	--	--	
	81.59	12/21/1992	9.50	72.08	0.01	--	--	--	--	--	--	
	81.59	1/9/1993	8.22	73.37	0	--	--	--	--	--	--	
	81.59	1/30/1993	8.58	73.01	0	--	--	--	--	--	--	Sheen
	81.59	2/10/1993	8.68	72.91	0	--	--	--	--	--	--	Sheen
	81.59	2/24/1993	7.91	73.67	0.01	--	--	--	--	--	--	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
81.59		3/9/1993	8.87	72.71	0.01	--	--	--	--	--	--	
81.59		3/22/1993	8.46	73.12	0.01	--	--	--	--	--	--	
81.59		4/8/1993	8.84	72.74	0.01	--	--	--	--	--	--	
81.59		4/28/1993	9.14	72.43	0.02	--	--	--	--	--	--	
81.59		5/12/1993	9.28	72.29	0.02	--	--	--	--	--	--	
81.59		5/25/1993	9.63	71.86	0.13	--	--	--	--	--	--	
81.38		6/7/1993	9.75	71.62	0.01	--	--	--	--	--	--	
81.38		6/23/1993	9.32	72.04	0.03	--	--	--	--	--	--	
81.38		7/8/1993	9.48	71.87	0.04	--	--	--	--	--	--	
81.38		7/22/1993	9.73	71.53	0.16	--	--	--	--	--	--	
81.38		8/11/1993	9.84	71.51	0.04	--	--	--	--	--	--	
81.38		8/25/1993	9.81	71.55	0.02	--	--	--	--	--	--	
81.38		9/8/1993	10.09	71.27	0.03	--	--	--	--	--	--	
81.38		9/22/1993	10.01	71.33	0.05	--	--	--	--	--	--	
81.38		10/7/1993	9.94	71.42	0.03	--	--	--	--	--	--	
81.38		10/28/1993	10.04	71.32	0.02	--	--	--	--	--	--	
81.38		11/12/1993	9.79	71.59	0	--	--	--	--	--	--	
81.38		11/30/1993	9.62	71.76	0	--	--	--	--	--	--	
81.38		2/16/1994	8.95	72.41	0.02	--	--	--	--	--	--	
81.38		5/31/1994	9.63	71.75	0	--	43,000	1,500	1,200	1,600	6,700	
81.38		8/31/1994	10.25	71.11	0.02	--	--	--	--	--	--	
81.38		9/27/1994	10.38	71.00	0	--	--	--	--	--	--	
81.38		10/11/1994	10.45	70.91	0.02	--	--	--	--	--	--	
81.38		11/10/1994	7.54	73.78	0.08	--	--	--	--	--	--	
81.38		2/7/1995	8.10	73.28	0	--	25,000	1,400	740	990	3,000	
81.38		3/14/1995	7.04	74.34	0	--	--	--	--	--	--	
81.38		5/3/1995	7.98	73.40	0	--	12,000	680	160	600	1,800	
81.38		8/3/1995	9.25	72.13	0	--	23,000	940	280	810	2,700	
81.38		8/19/1995	--	--	0	--	--	--	--	--	--	
81.38		11/7/1995	10.00	71.38	0	--	40,000	510	280	1,000	5,700	
81.38		5/6/1996	9.03	72.35	0	--	13,000	200	ND	180	610	Sheen
81.38		11/5/1996	10.41	70.97	0	--	35,000	1,800	ND	1,300	4,900	
81.38		5/15/1997	9.41	71.97	0	--	10,000	490	ND	ND	1,300	Sheen
81.38		11/12/1997	9.27	72.11	0	--	100	5	ND	ND	ND	
81.38		5/4/1998	9.18	72.20	0	--	39,000	1,600	230	1,000	3,200	
81.38		11/11/1998	9.23	71.87	0.37	--	--	--	--	--	--	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
81.38		2/22/1999	7.69	73.50	0.25	--	--	--	--	--	--	
81.38		4/2/1999	8.19	72.98	0.28	--	--	--	--	--	--	
81.38		5/4/1999	8.44	72.93	0.01	--	--	--	--	--	--	
81.38		5/20/1999	8.73	72.62	0.04	--	--	--	--	--	--	
81.38		6/29/1999	8.91	72.43	0.05	--	--	--	--	--	--	
81.38		7/29/1999	9.12	72.21	0.07	--	--	--	--	--	--	
81.38		8/24/1999	9.37	71.94	0.09	--	--	--	--	--	--	
81.38		9/27/1999	9.51	71.82	0.06	--	--	--	--	--	--	
81.38		10/28/1999	--	--	0.05	--	--	--	--	--	--	
81.38		11/15/1999	9.29	72.09	0	--	--	--	--	--	--	Sheen
81.38		12/20/1999	9.14	72.24	0	--	--	--	--	--	--	
81.38		1/20/2000	9.08	72.30	0	--	--	--	--	--	--	
81.38		2/26/2000	8.69	72.69	0	--	--	--	--	--	--	
81.38		3/31/2000	8.48	72.90	0	--	--	--	--	--	--	
81.38		4/13/2000	8.66	72.72	0	--	--	--	--	--	--	
81.38		5/22/2000	9.06	72.32	0	--	240,000	33,000	5,000	18,000	59,000	
81.38		11/22/2000	9.24	71.64	0.67	--	--	--	--	--	--	
81.38		2/14/2001	7.63	73.50	0.33	--	--	--	--	--	--	
81.38		3/28/2001	8.82	72.56	0	--	--	--	--	--	--	
81.38		4/28/2001	8.66	72.72	0	--	--	--	--	--	--	
81.38		5/15/2001	8.97	72.41	0	--	--	--	--	--	--	
81.38		6/29/2001	8.73	72.65	0	--	--	--	--	--	--	
81.38		7/17/2001	8.92	72.44	0.02	--	--	--	--	--	--	
81.38		8/30/2001	8.85	72.53	0	--	--	--	--	--	--	
81.38		9/24/2001	8.89	72.49	0	--	--	--	--	--	--	
81.38		10/15/2001	9.11	72.25	0.03	--	--	--	--	--	--	
81.38		11/23/2001	8.77	72.61	0	--	29,000	3,900	450	1,400	3,500	
81.38		12/10/2001	8.75	72.63	0	--	--	--	--	--	--	
81.38		1/14/2002	8.26	73.12	0	--	--	--	--	--	--	
81.38		2/22/2002	6.30	75.08	0	--	--	--	--	--	--	
81.38		3/11/2002	6.47	74.91	0	--	--	--	--	--	--	
81.38		4/15/2002	6.56	74.82	0	--	--	--	--	--	--	
81.38		5/24/2002	8.32	72.95	0.15	--	--	--	--	--	--	
81.38		6/17/2002	8.41	72.82	0.2	--	--	--	--	--	--	
81.38		7/15/2002	8.63	72.60	0.2	--	--	--	--	--	--	
81.38		8/19/2002	8.76	72.39	0.31	--	--	--	--	--	--	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
81.38		9/5/2002	8.73	72.53	0.16	--	--	--	--	--	--	
81.38		10/7/2002	8.79	72.52	0.09	--	--	--	--	--	--	
81.38		11/29/2002	9.18	72.16	0.05	--	--	--	--	--	--	
81.38		12/12/2002	9.12	72.23	0.04	--	--	--	--	--	--	
81.38		1/6/2003	9.05	72.31	0.03	--	--	--	--	--	--	
81.38		2/12/2003	8.87	72.48	0.04	--	--	--	--	--	--	
81.38		3/13/2003	8.25	73.11	0.03	--	--	--	--	--	--	
81.38		4/7/2003	8.31	73.05	0.02	--	--	--	--	--	--	
81.38		5/15/2003	8.58	72.78	0.03	--	--	--	--	--	--	
81.38		6/12/2003	8.63	72.73	0.02	--	--	--	--	--	--	
81.38		7/7/2003	8.59	72.77	0.02	--	--	--	--	--	--	
81.38		8/14/2003	8.65	72.71	0.03	--	--	--	--	--	--	
81.38		9/12/2003	8.82	72.54	0.03	--	--	--	--	--	--	
81.38		11/4/2003	9.90	71.29	0.25	--	--	--	--	--	--	
81.38		5/24/2004	9.33	71.86	0.25	--	--	--	--	--	--	
81.38		11/29/2004	9.16	72.38	0.21	--	--	--	--	--	--	
81.38		6/24/2005	8.41	72.97	0	53,000	--	560	230	1,600	5,100	
81.38		12/15/2005	8.96	72.42	0	27,000	--	130	ND<25	560	1,800	
81.38		6/14/2006	8.41	72.97	0	11,000	--	110	ND<12	360	640	
81.38		12/21/2006	9.65	71.73	0	78,000	--	490	43	1,400	4,300	
81.38		6/28/2007	9.99	71.17	0.29	--	--	--	--	--	--	
81.38		12/13/2007	10.12	71.13	0.17	--	--	--	--	--	--	
81.38		6/9/2008	10.12	71.13	0.17	--	--	--	--	--	--	
81.38		12/30/2008	9.33	71.95	0.13	--	--	--	--	--	--	
81.38		9/28/2009	9.77	71.60	0.01	--	--	--	--	--	--	
81.38		12/15/2009	8.87	72.50	0.01	--	--	--	--	--	--	
81.38		6/28/2010	9.82	71.18	0.5	--	--	--	--	--	--	
81.38		12/29/2010	8.69	71.57	1.49	--	--	--	--	--	--	
81.38		2/1/2011	8.30	72.07	1.35	--	--	34,000	--	--	--	
81.38		6/7/2011	5.43	75.95	0	37,000	--	ND<12	ND<12	190	450	
81.38		9/13/2011	6.70	74.68	0	--	--	--	--	--	--	
81.38		10/21/2011	6.72	74.66	0	--	--	--	--	--	--	
81.38		11/4/2011	6.64	74.74	0	--	--	--	--	--	--	
81.38		12/9/2011	10.02	71.20	0.21	--	--	--	--	--	--	
81.38		1/12/2012	10.12	71.24	0.02	--	--	--	--	--	--	
81.38		6/1/2012	8.22	73.14	0.02	--	--	--	--	--	--	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	81.38	6/6/2013	9.75	71.63	0	--	30,000	410	7	970	1,300	
	81.38	12/13/2013	10.30	70.92	0.21	--	--	--	--	--	--	
	81.38	6/23/2014	10.26	70.96	0.21	--	--	--	--	--	--	
	81.38	12/17/2014	6.61	74.75	0.03	--	--	--	--	--	--	
	81.38	6/9/2015	9.41	71.95	0.03	--	--	--	--	--	--	
	81.38	9/2/2015	10.58	70.57	0.30	--	--	--	--	--	--	
	81.38	10/16/2015	10.91	70.21	0.35	--	--	--	--	--	--	
	81.38	11/12/2015	10.40	70.81	0.22	--	--	--	--	--	--	
	81.38	12/30/2015	9.35	71.89	0.19	--	--	--	--	--	--	
	<b>81.38</b>	<b>6/22/2016</b>	<b>9.43</b>	<b>71.95</b>	<b>0</b>	--	<b>17,000</b>	<b>210</b>	<b>ND&lt;5.0</b>	<b>450</b>	<b>540</b>	
<b>MW-6</b>	--	11/7/1990	--	--	--	--	ND	ND	ND	ND	ND	
	--	2/25/1991	--	--	--	--	ND	0.37	0.4	0.35	1.5	
	--	5/28/1991	--	--	--	--	ND	ND	ND	ND	0.42	
	--	8/28/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/19/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	2/6/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	5/23/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/26/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/20/1992	--	--	--	--	ND	ND	ND	ND	ND	
	80.47	12/21/1992	7.71	72.76	0	--	--	--	--	--	--	
	80.47	1/30/1993	7.25	73.22	0	--	--	--	--	--	--	
	80.47	2/24/1993	6.74	73.73	0	--	ND	ND	ND	ND	ND	
	80.47	3/22/1993	5.85	74.62	0	--	--	--	--	--	--	
	80.47	4/28/1993	7.58	72.89	0	--	--	--	--	--	--	
	80.47	5/25/1993	7.48	72.99	0	--	ND	ND	ND	ND	ND	
	79.94	6/23/1993	7.34	72.60	0	--	--	--	--	--	--	
	79.94	7/22/1993	7.53	72.41	0	--	--	--	--	--	--	
	79.94	8/25/1993	7.66	72.28	0	--	ND	ND	ND	ND	ND	
	79.94	9/22/1993	7.76	72.18	0	--	--	--	--	--	--	
	79.94	10/28/1993	8.30	71.64	0	--	--	--	--	--	--	
	79.94	11/30/1993	7.40	72.54	0	--	--	--	--	--	--	
	79.94	2/16/1994	7.13	72.81	0	--	ND	ND	ND	ND	ND	
	79.94	5/31/1994	7.49	72.45	0	--	--	--	--	--	--	
	79.94	8/31/1994	7.93	72.01	0	--	ND	ND	1.5	ND	1.6	
	79.94	9/27/1994	8.03	71.91	0	--	--	--	--	--	--	

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**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
79.94		10/11/1994	8.05	71.89	0	--	--	--	--	--	--	
79.94		11/10/1994	6.12	73.82	0	--	--	--	--	--	--	
79.94		2/7/1995	6.65	73.29	0	--	ND	ND	ND	ND	ND	
79.94		5/3/1995	6.47	73.47	0	--	ND	ND	ND	ND	1.0	
79.94		8/3/1995	7.28	72.66	0	--	--	--	--	--	--	
79.94		11/7/1995	7.98	71.96	0	--	ND	ND	ND	ND	ND	
79.94		5/6/1996	7.80	72.14	0	--	--	--	--	--	--	
79.94		11/5/1996	7.63	72.31	0	--	--	--	--	--	--	
79.94		5/15/1997	7.41	72.53	0	--	--	--	--	--	--	
79.94		11/12/1997	7.51	72.43	0	--	--	--	--	--	--	
79.94		5/4/1998	7.15	72.79	0	--	--	--	--	--	--	
79.94		11/11/1998	7.04	72.90	0	--	--	--	--	--	--	
79.94		5/20/1999	7.00	72.94	0	--	--	--	--	--	--	
79.94		11/15/1999	7.42	72.52	0	--	--	--	--	--	--	
79.94		5/22/2000	7.24	72.70	0	--	--	--	--	--	--	
79.94		11/22/2000	7.40	72.54	0	--	--	--	--	--	--	
79.94		5/15/2001	7.12	72.82	0	--	--	--	--	--	--	
79.94		11/23/2001	7.19	72.75	0	--	--	--	--	--	--	
79.94		5/24/2002	6.54	73.40	0	--	--	--	--	--	--	
79.94		11/29/2002	7.26	72.68	0	--	--	--	--	--	--	
79.94		5/15/2003	6.26	73.68	0	--	--	--	--	--	--	
79.94		11/4/2003	7.80	72.14	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.94		5/24/2004	7.54	72.40	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.94		11/29/2004	7.01	72.93	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.94		6/24/2005	7.68	72.26	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.94		12/15/2005	7.49	72.45	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.94		6/14/2006	6.45	73.49	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.94		12/21/2006	6.91	73.03	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
79.94		6/28/2007	7.46	72.48	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
79.94		12/13/2007	7.41	72.53	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.94		6/9/2008	8.20	71.74	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.94		12/30/2008	7.47	72.47	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.94		9/28/2009	7.96	71.98	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.94		12/15/2009	7.22	72.72	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.94		6/28/2010	7.68	72.26	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.94		12/29/2010	5.93	74.01	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	



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**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	79.94	6/7/2011	6.24	73.70	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	12/9/2011	6.75	73.19	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	6/1/2012	7.32	72.62	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	6/6/2013	7.50	72.44	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	12/13/2013	8.02	71.92	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	6/23/2014	7.87	72.07	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	12/17/2014	5.54	74.40	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	6/9/2015	7.71	72.23	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	12/30/2015	7.21	72.73	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	<b>79.94</b>	<b>6/22/2016</b>	<b>7.91</b>	<b>72.03</b>	<b>0</b>	--	<b>ND&lt;50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;1.0</b>	
<b>MW-7</b>	--	11/7/1990	--	--	--	--	ND	ND	ND	ND	ND	
	--	2/25/1991	--	--	--	--	70	ND	ND	ND	0.52	
	--	5/28/1991	--	--	--	--	39	ND	ND	ND	0.73	
	--	8/28/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/19/1991	--	--	--	--	32	ND	ND	ND	ND	
	--	2/6/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	5/23/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/26/1992	--	--	--	--	ND	ND	ND	0.73	ND	
	--	11/20/1992	--	--	--	--	ND	ND	ND	ND	ND	
	81.83	12/21/1992	8.42	73.41	0	--	--	--	--	--	--	
	81.83	1/30/1993	8.21	73.62	0	--	--	--	--	--	--	
	81.83	2/24/1993	7.85	73.98	0	--	ND	ND	ND	ND	ND	
	81.83	3/22/1993	6.97	74.86	0	--	--	--	--	--	--	
	81.83	4/28/1993	8.39	73.44	0	--	--	--	--	--	--	
	81.83	5/25/1993	8.43	73.40	0	--	ND	ND	ND	ND	ND	
	81.64	6/23/1993	8.47	73.17	0	--	--	--	--	--	--	
	81.64	7/22/1993	8.83	72.81	0	--	--	--	--	--	--	
	81.64	8/25/1993	8.81	72.83	0	--	ND	ND	ND	ND	ND	
	81.64	9/22/1993	8.96	72.68	0	--	--	--	--	--	--	
	81.64	10/28/1993	8.98	72.66	0	--	--	--	--	--	--	
	81.64	11/30/1993	8.65	72.99	0	--	--	--	--	--	--	
	81.64	2/16/1994	8.36	73.28	0	--	ND	ND	ND	ND	0.7	
	81.64	5/31/1994	8.67	72.97	0	--	--	--	--	--	--	
	81.64	8/31/1994	9.12	72.52	0	--	ND	ND	0.8	ND	0.75	
	81.64	9/27/1994	9.22	72.42	0	--	--	--	--	--	--	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
81.64		10/11/1994	9.23	72.41	0	--	--	--	--	--	--	
81.64		11/10/1994	7.66	73.98	0	--	--	--	--	--	--	
81.64		2/7/1995	7.88	73.76	0	--	ND	ND	ND	ND	ND	
81.64		5/3/1995	7.71	73.93	0	--	ND	ND	ND	ND	1.0	
81.64		8/3/1995	8.40	73.24	0	--	--	--	--	--	--	
81.64		11/7/1995	8.95	72.69	0	--	ND	ND	ND	ND	ND	
81.64		5/6/1996	8.15	73.49	0	--	--	--	--	--	--	
81.64		11/5/1996	8.67	72.97	0	--	--	--	--	--	--	
81.64		5/15/1997	8.47	73.17	0	--	--	--	--	--	--	
81.64		11/12/1997	7.88	73.76	0	--	--	--	--	--	--	
81.64		5/4/1998	7.93	73.71	0	--	--	--	--	--	--	
81.64		11/11/1998	8.20	73.44	0	--	--	--	--	--	--	
81.64		5/20/1999	8.04	73.60	0	--	--	--	--	--	--	
81.64		11/15/1999	8.17	73.47	0	--	--	--	--	--	--	
81.64		5/22/2000	8.10	73.54	0	--	--	--	--	--	--	
81.64		11/22/2000	8.30	73.34	0	--	--	--	--	--	--	
81.64		5/15/2001	8.09	73.55	0	--	--	--	--	--	--	
81.64		11/23/2001	8.14	73.50	0	--	--	--	--	--	--	
81.64		5/24/2002	7.56	74.08	0	--	--	--	--	--	--	
81.64		11/29/2002	8.23	73.41	0	--	--	--	--	--	--	
81.64		5/15/2003	7.25	74.39	0	--	--	--	--	--	--	
81.64		11/4/2003	8.76	72.88	0	70	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.64		5/24/2004	8.32	73.32	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.64		11/29/2004	8.21	73.43	0	62	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.64		6/24/2005	7.84	73.80	0	85	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.64		12/15/2005	8.15	73.49	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.64		6/14/2006	7.76	73.88	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
--		12/21/2006	7.64	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	Casing elevation modified on 6/21/2006
--		6/28/2007	8.18	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
--		12/13/2007	8.52	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
--		6/9/2008	8.67	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
--		12/30/2008	8.46	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
--		9/28/2009	8.30	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
--		12/15/2009	8.22	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
--		6/28/2010	8.02	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
--		12/29/2010	7.18	--	0	56	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	--	6/7/2011	6.97	--	0	790	--	11	ND<0.50	6.5	ND<1.0	
	--	12/9/2011	8.54	--	0	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	6/1/2012	8.22	--	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	6/6/2013	8.56	--	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	12/13/2013	9.09	--	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	6/23/2014	9.01	--	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	12/17/2014	6.95	--	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	6/9/2015	8.82	--	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	12/30/2015	8.58	--	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	<b>6/22/2016</b>	<b>8.79</b>	--	<b>0</b>	--	<b>ND&lt;50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;1.0</b>	
<b>MW-8</b>	--	11/7/1990	--	--	--	--	4,700	28	38	86	7,200	
	--	2/25/1991	--	--	--	--	5,300	17	6.1	53	300	
	--	5/28/1991	--	--	--	--	4,800	4.2	1.3	5.1	170	
	--	8/28/1991	--	--	--	--	1,800	3.2	1.9	19	74	
	--	11/19/1991	--	--	--	--	1,600	8.1	1.8	19	52	
	--	2/6/1992	--	--	--	--	2,600	4.1	7.0	31	93	
	--	5/23/1992	--	--	--	--	2,100	8.6	1.6	1.7	28	
	--	8/26/1992	--	--	--	--	1,800	12	8.0	4.0	13	
	--	11/20/1992	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	12/21/1992	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	1/9/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	1/30/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	2/10/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	2/24/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	3/9/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	3/22/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	4/8/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	4/28/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	5/12/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	5/25/1993	10.12	71.59	0	--	1,200	5.4	ND	9.0	21	
	81.41	6/7/1993	9.98	71.43	0	--	--	--	--	--	--	Inaccessible
	81.41	6/23/1993	10.36	71.05	0	--	--	--	--	--	--	Inaccessible
	81.41	7/8/1993	10.52	70.89	0	--	--	--	--	--	--	Inaccessible
	81.41	7/22/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.41	8/11/1993	--	--	--	--	--	--	--	--	--	Inaccessible

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
81.41		8/25/1993	10.95	70.46	0	--	1,800	11	17	8.9	29	
81.41		9/8/1993	11.34	70.07	0	--	--	--	--	--	--	Inaccessible
81.41		9/22/1993	11.13	70.28	0	--	--	--	--	--	--	Inaccessible
81.41		10/7/1993	10.96	70.45	0	--	--	--	--	--	--	Inaccessible
81.41		10/28/1993	11.19	70.22	0	--	--	--	--	--	--	Inaccessible
81.41		11/12/1993	--	--	--	--	--	--	--	--	--	Inaccessible
81.41		11/30/1993	10.42	70.99	0	--	3,500	18	ND	ND	ND	
81.41		2/16/1994	9.86	71.55	0	--	990	4.9	1.8	2.4	4.5	
81.41		5/31/1994	10.61	70.80	0	--	350	3.0	1.0	0.73	1.7	
81.41		8/31/1994	11.37	70.04	0	--	1,800	ND	ND	ND	ND	
81.41		9/27/1994	--	--	--	--	--	--	--	--	--	Car parked over well
81.41		10/11/1994	11.50	69.91	0	--	--	--	--	--	--	Inaccessible
81.41		11/10/1994	7.81	73.60	0	--	940	6.7	6.3	ND	16	
81.41		2/7/1995	8.69	72.72	0	--	230	1.4	0.95	0.9	1.1	
81.41		5/3/1995	8.60	72.81	0	--	75	ND	ND	ND	1.0	
81.41		8/3/1995	--	--	--	--	--	--	--	--	--	Car parked over well
81.41		11/7/1995	11.05	70.36	0	--	210	1.3	1.2	ND	ND	
81.41		5/6/1996	--	--	--	--	--	--	--	--	--	Car parked over well
81.41		11/5/1996	--	--	--	--	--	--	--	--	--	Car parked over well
81.41		5/15/1997	10.46	70.95	0	--	ND	ND	ND	ND	ND	
81.41		11/12/1997	--	--	--	--	--	--	--	--	--	Car parked over well
81.41		5/4/1998	--	--	--	--	--	--	--	--	--	Car parked over well
81.41		11/11/1998	--	--	--	--	--	--	--	--	--	Car parked over well
81.41		5/20/1999	9.75	71.66	0	--	ND	ND	ND	ND	ND	
81.41		11/15/1999	--	--	--	--	--	--	--	--	--	Car parked over well
81.41		5/22/2000	9.80	71.61	0	--	ND	ND	1.9	ND	3.3	
81.41		11/22/2000	9.76	71.65	0	--	ND	ND	1.16	ND	1.22	
81.41		5/15/2001	9.87	71.54	0	--	ND	ND	ND	ND	ND	
81.41		11/23/2001	9.92	71.49	0	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
81.41		5/24/2002	9.26	72.15	0	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
81.41		11/29/2002	9.71	71.70	0	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.41		5/15/2003	9.04	72.37	0	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.41		11/4/2003	10.20	71.21	0	690	--	ND<1.0	ND<1.0	3.3	ND<2.0	
81.41		5/24/2004	10.04	71.37	0	450	--	ND<2.5	ND<2.5	ND<2.5	ND<5.0	
81.41		11/29/2004	9.88	71.53	0	1,500	--	ND<10	ND<10	ND<10	ND<20	
81.41		6/24/2005	9.40	72.01	0	150	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
81.41		12/15/2005	10.01	71.40	0	520	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.41		6/14/2006	5.91	75.50	0	230	--	ND<0.50	ND<0.50	0.60	ND<1.0	
81.41		12/21/2006	9.65	71.76	0	260	--	2.5	ND<0.50	12	43	
81.41		6/28/2007	11.10	70.31	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
81.41		12/13/2007	11.18	70.23	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.41		6/9/2008	11.25	70.16	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.41		12/30/2008	10.05	71.36	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.41		9/28/2009	11.10	70.31	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.41		12/15/2009	10.00	71.41	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.41		6/28/2010	10.86	70.55	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.41		12/29/2010	8.57	72.84	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.41		6/7/2011	--	--	--	--	--	--	--	--	--	Inaccessible
81.41		12/9/2011	--	--	--	--	--	--	--	--	--	Inaccessible
81.41		6/1/2012	--	--	--	--	--	--	--	--	--	Inaccessible
81.41		6/6/2013	--	--	--	--	--	--	--	--	--	Inaccessible
81.41		12/13/2013	--	--	--	--	--	--	--	--	--	Inaccessible
81.41		6/23/2014	--	--	--	--	--	--	--	--	--	Inaccessible
81.41		12/17/2014	--	--	--	--	--	--	--	--	--	Inaccessible
81.41		6/9/2015	--	--	--	--	--	--	--	--	--	Inaccessible
81.41		12/30/2015	--	--	--	--	--	--	--	--	--	Inaccessible
<b>81.41</b>		<b>6/22/2016</b>	--	--	--	--	--	--	--	--	--	Inaccessible
<b>MW-9</b>	--	11/7/1990	--	--	--	--	480	7.8	1.2	13	47	
	--	2/25/1991	--	--	--	--	390	13	1.1	2.8	14	
	--	5/28/1991	--	--	--	--	590	6.0	0.43	6.8	1.4	
	--	8/28/1991	--	--	--	--	450	17	0.9	13	14	
	--	11/19/1991	--	--	--	--	360	17	0.45	15	11	
	--	2/6/1992	--	--	--	--	660	41	1.0	33	15	
	--	5/23/1992	--	--	--	--	460	18	0.66	1.4	3.2	
	--	8/26/1992	--	--	--	--	250	13	ND	8.6	3.8	
	--	11/20/1992	--	--	--	--	--	--	--	--	--	Inaccessible
81.13		12/21/1992	--	--	--	--	--	--	--	--	--	Inaccessible
81.13		1/30/1993	--	--	--	--	--	--	--	--	--	Inaccessible
81.13		2/24/1993	--	--	--	--	--	--	--	--	--	Inaccessible
81.13		3/22/1993	--	--	--	--	--	--	--	--	--	Inaccessible
81.13		4/28/1993	--	--	--	--	--	--	--	--	--	Inaccessible

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**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
81.13		5/25/1993	11.50	69.63	0	--	160	6.1	ND	7.4	1.1	
80.53		6/23/1993	9.78	70.75	0	--	--	--	--	--	--	Inaccessible
80.53		7/22/1993	10.10	70.43	0	--	--	--	--	--	--	Inaccessible
80.53		8/25/1993	10.44	70.09	0	--	220	10	ND	6.8	1.4	
80.53		9/22/1993	10.64	69.89	0	--	--	--	--	--	--	Inaccessible
80.53		10/28/1993	10.68	69.85	0	--	--	--	--	--	--	Inaccessible
80.53		11/30/1993	9.87	70.66	0	--	200	5.6	ND	2.9	2.7	
80.53		2/16/1994	9.21	71.32	0	--	250	5.1	1.3	4.4	1.5	
80.53		5/31/1994	10.15	70.38	0	--	360	7.8	0.97	4.6	2.2	
80.53		8/31/1994	10.97	69.56	0	--	650	7.7	2.8	4.4	5.0	
80.53		9/27/1994	11.10	69.43	0	--	--	--	--	--	--	Inaccessible
80.53		10/11/1994	11.20	69.33	0	--	--	--	--	--	--	Inaccessible
80.53		11/10/1994	7.25	73.28	0	--	ND	ND	ND	ND	ND	
80.53		2/7/1995	7.76	72.77	0	--	57	0.7	ND	0.86	ND	
80.53		5/3/1995	7.82	72.71	0	--	ND	0.85	0.67	1.3	1.0	
80.53		8/3/1995	9.70	70.83	0	--	91	1.1	ND	ND	ND	
80.53		11/7/1995	10.64	69.89	0	--	130	1.5	0.62	0.71	ND	
80.53		5/6/1996	9.01	71.52	0	--	860	6.1	13	6.0	25	
80.53		11/5/1996	11.42	69.11	0	--	84	0.74	ND	1.2	4.5	
80.53		5/15/1997	9.89	70.64	0	--	ND	ND	ND	ND	ND	
80.53		11/12/1997	10.22	70.31	0	--	ND	0.55	ND	ND	ND	
80.53		5/4/1998	10.05	70.48	0	--	ND	ND	ND	ND	ND	
80.53		11/11/1998	9.23	71.30	0	--	ND	ND	ND	ND	ND	
80.53		5/20/1999	8.78	71.75	0	--	ND	ND	ND	ND	ND	
80.53		11/15/1999	9.12	71.41	0	--	ND	ND	ND	ND	ND	
80.53		5/22/2000	9.17	71.36	0	--	ND	ND	1.9	ND	3.5	
80.53		11/22/2000	9.08	71.45	0	--	ND	ND	1.18	ND	1.16	
80.53		5/15/2001	8.85	71.68	0	--	ND	ND	ND	ND	ND	
80.53		11/23/2001	9.10	71.43	0	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
80.53		5/24/2002	8.79	71.74	0	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
80.53		11/29/2002	9.24	71.29	0	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.53		5/15/2003	8.56	71.97	0	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.53		11/4/2003	--	--	--	--	--	--	--	--	--	Car parked over well
80.53		5/24/2004	9.38	71.15	0	330	--	1.8	ND<0.50	ND<0.50	ND<1.0	
80.53		11/29/2004	9.55	70.98	0	690	--	0.72	ND<0.50	1.3	ND<1.0	
80.53		6/24/2005	8.65	71.88	0	240	--	0.80	ND<0.50	0.55	ND<1.0	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
80.53		12/15/2005	9.43	71.10	0	400	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.53		6/14/2006	9.43	71.10	0	<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.53		12/21/2006	9.01	71.52	0	580	--	ND<0.50	ND<0.50	0.71	ND<0.50	
80.53		6/28/2007	11.64	68.89	0	1,200	--	0.81	ND<0.50	ND<0.50	0.54	
80.53		12/13/2007	11.18	69.35	0	1,100	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.53		6/9/2008	11.10	69.43	0	1,500	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.53		12/30/2008	9.66	70.87	0	970	--	ND<0.50	ND<0.50	0.84	ND<1.0	
80.53		9/28/2009	10.83	69.70	0	860	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.53		12/15/2009	10.00	70.53	0	870	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.53		6/28/2010	10.45	70.08	0	360	--	ND<0.50	ND<0.50	1.0	ND<1.0	
80.53		12/29/2010	7.72	72.81	0	53	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
80.53		6/7/2011	--	--	--	--	--	--	--	--	--	Inaccessible
80.53		12/9/2011	--	--	--	--	--	--	--	--	--	Inaccessible
80.53		6/1/2012	--	--	--	--	--	--	--	--	--	Inaccessible
80.53		6/6/2013	--	--	--	--	--	--	--	--	--	Inaccessible
80.53		12/13/2013	--	--	--	--	--	--	--	--	--	Inaccessible
80.53		6/23/2014	--	--	--	--	--	--	--	--	--	Inaccessible
80.53		12/17/2014	--	--	--	--	--	--	--	--	--	Inaccessible
80.53		6/9/2015	--	--	--	--	--	--	--	--	--	Inaccessible
80.53		12/30/2015	--	--	--	--	--	--	--	--	--	Inaccessible
<b>80.53</b>		<b>6/22/2016</b>	--	--	--	--	--	--	--	--	--	Inaccessible
<b>MW-10</b>	--	2/6/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	5/23/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/26/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/20/1992	--	--	--	--	ND	ND	ND	ND	ND	
81.90		12/21/1992	13.41	68.49	0	--	--	--	--	--	--	
81.90		1/30/1993	11.60	70.30	0	--	--	--	--	--	--	
81.90		2/24/1993	11.23	70.67	0	--	ND	ND	ND	ND	ND	
81.90		3/22/1993	10.89	71.01	0	--	--	--	--	--	--	
81.90		4/28/1993	12.11	69.79	0	--	--	--	--	--	--	
81.90		5/25/1993	12.02	69.88	0	--	ND	ND	ND	ND	ND	
81.61		6/23/1993	12.11	69.50	0	--	--	--	--	--	--	
81.61		7/22/1993	12.49	69.12	0	--	--	--	--	--	--	
81.61		8/25/1993	12.78	68.83	0	--	ND	ND	ND	ND	ND	
81.61		9/22/1993	13.06	68.55	0	--	--	--	--	--	--	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
81.61		10/28/1993	13.23	68.38	0	--	--	--	--	--	--	
81.61		11/30/1993	--	--	--	--	--	--	--	--	--	Inaccessible
81.61		2/16/1994	12.43	69.18	0	--	ND	ND	ND	ND	ND	
81.61		5/31/1994	12.69	68.92	0	--	ND	ND	0.9	ND	0.91	
81.61		8/31/1994	13.47	68.14	0	--	ND	ND	0.64	ND	0.54	
81.61		9/27/1994	13.72	67.89	0	--	--	--	--	--	--	
81.61		10/11/1994	14.80	66.81	0	--	--	--	--	--	--	
81.61		11/10/1994	12.64	68.97	0	--	ND	ND	ND	ND	ND	
81.61		2/7/1995	10.29	71.32	0	--	--	--	--	--	--	
81.61		5/3/1995	10.22	71.39	0	--	ND	ND	ND	ND	0.65	
81.61		8/3/1995	11.73	69.88	0	--	--	--	--	--	--	
81.61		11/7/1995	12.98	68.63	0	--	ND	ND	ND	ND	ND	
81.61		5/6/1996	10.90	70.71	0	--	--	--	--	--	--	
81.61		11/5/1996	11.96	69.65	0	--	--	--	--	--	--	
81.61		5/15/1997	10.79	70.82	0	--	--	--	--	--	--	
81.61		11/12/1997	10.07	71.54	0	--	--	--	--	--	--	
81.61		5/4/1998	10.01	71.60	0	--	--	--	--	--	--	
81.61		11/11/1998	12.03	69.58	0	--	--	--	--	--	--	
81.61		5/20/1999	10.05	71.56	0	--	--	--	--	--	--	
81.61		11/15/1999	10.16	71.45	0	--	--	--	--	--	--	
81.61		5/22/2000	10.06	71.55	0	--	--	--	--	--	--	
81.61		11/22/2000	10.12	71.49	0	--	--	--	--	--	--	
81.61		5/15/2001	10.08	71.53	0	--	--	--	--	--	--	
81.61		11/23/2001	10.14	71.47	0	--	--	--	--	--	--	
81.61		5/24/2002	9.48	72.13	0	--	--	--	--	--	--	
81.61		11/29/2002	10.11	71.50	0	--	--	--	--	--	--	
81.61		5/15/2003	9.22	72.39	0	--	--	--	--	--	--	
81.61		11/4/2003	12.82	68.79	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.61		5/24/2004	11.52	70.09	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.61		11/29/2004	12.58	69.03	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.61		6/24/2005	10.70	70.91	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.61		12/15/2005	12.09	69.52	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.61		6/14/2006	9.77	71.84	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
81.61		12/21/2006	11.57	70.04	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
81.61		6/28/2007	14.11	67.50	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
81.61		12/13/2007	15.72	65.89	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	



**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	81.61	6/9/2008	14.93	66.68	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	12/30/2008	13.56	68.05	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	9/28/2009	13.52	68.09	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	12/15/2009	14.02	67.59	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	6/28/2010	13.55	68.06	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	12/29/2010	13.23	68.38	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	6/7/2011	12.36	69.25	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	12/9/2011	14.41	67.20	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	6/1/2012	12.65	68.96	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	6/6/2013	13.28	68.33	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	12/13/2013	14.48	67.13	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	6/23/2014	14.10	67.51	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	12/17/2014	12.93	68.68	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	6/9/2015	14.04	67.57	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	12/30/2015	14.66	66.95	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	<b>81.61</b>	<b>6/22/2016</b>	<b>13.58</b>	<b>68.03</b>	<b>0</b>	<b>--</b>	<b>ND&lt;50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;1.0</b>	
<b>MW-11</b>	--	2/6/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	5/23/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/26/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/20/1992	--	--	--	--	ND	ND	ND	ND	ND	
	78.43	12/21/1992	12.34	66.09	0	--	--	--	--	--	--	
	78.43	1/30/1993	14.17	64.26	0	--	--	--	--	--	--	
	78.43	2/24/1993	12.70	65.73	0	--	ND	ND	ND	ND	ND	
	78.43	3/22/1993	8.95	69.48	0	--	--	--	--	--	--	
	78.43	4/28/1993	13.87	64.56	0	--	--	--	--	--	--	
	78.43	5/25/1993	15.14	63.29	0	--	ND	ND	0.75	ND	1.0	
	78.43	6/23/1993	15.08	63.10	0	--	--	--	--	--	--	
	78.43	7/22/1993	15.46	62.72	0	--	--	--	--	--	--	
	78.43	8/25/1993	14.10	64.08	0	--	ND	ND	ND	ND	ND	
	78.43	9/22/1993	15.03	63.15	0	--	--	--	--	--	--	
	78.43	10/28/1993	13.84	64.34	0	--	--	--	--	--	--	
	78.43	11/30/1993	13.04	65.14	0	--	ND	ND	ND	ND	ND	
	78.43	2/16/1994	12.76	65.42	0	--	ND	ND	ND	ND	ND	
	78.43	5/31/1994	12.79	65.39	0	--	ND	ND	ND	ND	ND	
	78.43	8/31/1994	12.97	65.21	0	--	ND	ND	1.5	ND	1.8	

**Table 4**  
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**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
78.43		9/27/1994	14.88	63.30	0	--	--	--	--	--	--	
78.43		10/11/1994	13.40	64.78	0	--	--	--	--	--	--	
78.43		11/10/1994	13.57	64.61	0	--	ND	ND	ND	ND	ND	
78.43		2/7/1995	12.28	65.90	0	--	--	--	--	--	--	
78.43		5/3/1995	9.28	68.90	0	--	ND	ND	ND	ND	ND	
78.43		8/3/1995	12.67	65.51	0	--	--	--	--	--	--	
78.43		11/7/1995	12.28	65.90	0	--	ND	ND	ND	ND	ND	
78.43		5/6/1996	13.30	64.88	0	--	--	--	--	--	--	
78.43		11/5/1996	10.90	67.28	0	--	--	--	--	--	--	
78.43		5/15/1997	11.65	66.53	0	--	--	--	--	--	--	
78.43		11/12/1997	9.66	68.52	0	--	--	--	--	--	--	
78.43		5/4/1998	10.87	67.31	0	--	--	--	--	--	--	
78.43		11/11/1998	11.40	66.78	0	--	--	--	--	--	--	
78.43		5/20/1999	10.71	67.47	0	--	ND	ND	ND	ND	ND	
78.43		11/15/1999	11.32	66.86	0	--	ND	ND	1.04	ND	ND	
78.43		5/22/2000	10.98	67.20	0	--	ND	ND	ND	ND	ND	
78.43		11/22/2000	11.17	67.01	0	--	ND	ND	ND	ND	ND	
78.43		5/15/2001	10.93	67.25	0	--	ND	ND	ND	ND	ND	
78.43		11/23/2001	11.08	67.10	0	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
78.43		5/24/2002	10.58	67.60	0	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
78.43		11/29/2002	11.27	66.91	0	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
78.43		5/15/2003	10.25	67.93	0	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
78.43		11/4/2003	11.23	66.95	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
78.43		5/24/2004	10.10	68.08	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
78.43		11/29/2004	10.96	67.22	0	63	--	ND<0.50	ND<0.50	1.0	2.5	
78.43		6/24/2005	14.07	64.11	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
78.43		12/15/2005	13.28	64.90	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
78.43		6/14/2006	12.53	65.65	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
78.43		12/21/2006	12.78	65.40	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
78.43		6/28/2007	--	--	--	--	--	--	--	--	--	Bus parked over well
78.43		12/13/2007	15.37	62.81	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
78.43		6/9/2008	14.80	63.38	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
78.43		12/30/2008	12.90	65.28	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
78.43		9/28/2009	12.57	65.61	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
78.43		12/15/2009	--	--	--	--	--	--	--	--	--	Car parked over well
78.43		6/28/2010	14.42	63.76	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	

**Table 4**  
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**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	78.43	12/29/2010	15.40	62.78	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.43	6/7/2011	15.79	62.39	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.18	12/9/2011	13.27	64.91	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.18	6/1/2012	14.50	63.68	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.18	6/6/2013	15.32	62.86	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.18	12/13/2013	15.04	63.14	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.18	6/23/2014	--	--	--	--	--	--	--	--	--	Unable to access
	78.18	12/17/2014	14.56	63.62	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.18	6/9/2015	14.51	63.67	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.18	12/30/2015	10.81	67.37	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	<b>78.18</b>	<b>6/22/2016</b>	<b>13.07</b>	<b>65.11</b>	<b>0</b>	<b>--</b>	<b>ND&lt;50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;1.0</b>	
<b>MW-12</b>	--	8/26/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/20/1992	--	--	--	--	ND	ND	ND	ND	ND	
	79.89	12/21/1992	12.11	67.78	0	--	--	--	--	--	--	
	79.89	1/30/1993	13.18	66.71	0	--	--	--	--	--	--	
	79.89	2/24/1993	12.13	67.76	0	--	ND	ND	ND	ND	ND	
	79.89	3/22/1993	11.22	68.67	0	--	--	--	--	--	--	
	79.89	4/28/1993	13.42	66.47	0	--	--	--	--	--	--	
	79.89	5/25/1993	13.68	66.21	0	--	ND	ND	ND	ND	ND	
	79.61	6/23/1993	14.56	65.05	0	--	--	--	--	--	--	
	79.61	7/22/1993	14.96	64.65	0	--	--	--	--	--	--	
	79.61	8/25/1993	13.61	66.00	0	--	ND	ND	ND	ND	ND	
	79.61	9/22/1993	15.02	64.59	0	--	--	--	--	--	--	
	79.61	10/28/1993	14.04	65.57	0	--	--	--	--	--	--	
	79.61	11/30/1993	13.28	66.33	0	--	ND	ND	ND	ND	ND	
	79.61	2/16/1994	12.76	66.85	0	--	ND	ND	ND	ND	ND	
	79.61	5/31/1994	12.64	66.97	0	--	ND	ND	0.81	ND	0.82	
	79.61	8/31/1994	12.82	66.79	0	--	ND	ND	1.0	ND	1.0	
	79.61	9/27/1994	14.66	64.95	0	--	--	--	--	--	--	
	79.61	10/11/1994	14.25	65.36	0	--	--	--	--	--	--	
	79.61	11/10/1994	13.40	66.21	0	--	ND	ND	ND	ND	ND	
	79.61	2/7/1995	11.72	67.89	0	--	--	--	--	--	--	
	79.61	5/3/1995	13.38	66.23	0	--	ND	ND	ND	ND	ND	
	79.61	8/3/1995	13.47	66.14	0	--	--	--	--	--	--	
	79.61	11/7/1995	12.78	66.83	0	--	ND	ND	ND	ND	ND	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
79.61		5/6/1996	13.25	66.36	0	--	--	--	--	--	--	
79.61		11/5/1996	11.88	67.73	0	--	--	--	--	--	--	
79.61		5/15/1997	11.72	67.89	0	--	--	--	--	--	--	
79.61		11/12/1997	10.01	69.60	0	--	--	--	--	--	--	
79.61		5/4/1998	10.96	68.65	0	--	--	--	--	--	--	
79.61		11/11/1998	11.53	68.08	0	--	--	--	--	--	--	
79.61		5/20/1999	10.84	68.77	0	--	--	--	--	--	--	
79.61		11/15/1999	11.36	68.25	0	--	--	--	--	--	--	
79.61		5/22/2000	11.19	68.42	0	--	--	--	--	--	--	
79.61		11/22/2000	11.36	68.25	0	--	--	--	--	--	--	
79.61		5/15/2001	11.04	68.57	0	--	--	--	--	--	--	
79.61		11/23/2001	11.14	68.47	0	--	--	--	--	--	--	
79.61		5/24/2002	10.69	68.92	0	--	--	--	--	--	--	
79.61		11/29/2002	11.23	68.38	0	--	--	--	--	--	--	
79.61		5/15/2003	10.38	69.23	0	--	--	--	--	--	--	
79.61		11/4/2003	11.34	68.27	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.61		5/24/2004	9.84	69.77	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.61		11/29/2004	12.17	67.44	0	64	--	0.68	ND<0.50	1.2	3.0	
79.61		6/24/2005	13.16	66.45	0	53	--	ND<0.50	ND<0.50	0.13	0.42	
79.61		12/15/2005	13.94	65.67	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.61		6/14/2006	13.11	66.50	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.61		12/21/2006	9.03	70.58	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
79.61		6/28/2007	11.75	67.86	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
79.61		12/13/2007	14.83	64.78	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.61		6/9/2008	14.84	64.77	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.61		12/30/2008	13.22	66.39	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.61		9/28/2009	10.55	69.06	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.61		12/15/2009	9.33	70.28	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.61		6/28/2010	9.31	70.30	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.61		12/29/2010	9.51	70.10	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.61		6/7/2011	7.33	72.28	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.61		12/9/2011	9.42	70.19	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.61		6/1/2012	10.13	69.48	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.61		6/6/2013	9.52	70.09	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.61		12/13/2013	10.96	68.65	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
79.61		6/23/2014	11.11	68.50	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	79.61	12/17/2014	9.76	69.85	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	6/9/2015	10.13	69.48	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	12/30/2015	10.06	69.55	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	<b>79.61</b>	<b>6/22/2016</b>	<b>10.27</b>	<b>69.34</b>	<b>0</b>	--	<b>ND&lt;50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;1.0</b>	
<b>RW-1</b>	81.20	2/24/1993	7.19	74.01	0	--	--	--	--	--	--	
	81.20	5/12/1993	8.82	72.38	0	--	--	--	--	--	--	
	81.20	5/25/1993	8.58	72.62	0	--	--	--	--	--	--	
	80.63	6/7/1993	8.16	72.47	0	--	--	--	--	--	--	
	80.63	6/23/1993	8.53	72.10	0	--	--	--	--	--	--	
	80.63	7/8/1993	8.69	71.94	0	--	--	--	--	--	--	
	80.63	8/11/1993	9.00	71.63	0	--	--	--	--	--	--	
	80.63	8/25/1993	9.07	71.56	0	--	--	--	--	--	--	
	80.63	9/8/1993	9.71	70.92	0	--	--	--	--	--	--	
	80.63	9/22/1993	9.25	71.38	0	--	--	--	--	--	--	
	80.63	11/12/1993	9.00	71.63	--	--	--	--	--	--	--	
	80.63	2/16/1994	7.82	72.81	0	--	--	--	--	--	--	
	80.63	5/31/1994	8.81	71.82	0	--	--	--	--	--	--	
	80.63	8/31/1994	9.61	71.02	0	--	--	--	--	--	--	
	80.63	11/10/1994	6.34	74.29	0	--	--	--	--	--	--	
	80.63	2/7/1995	7.18	73.45	0	--	--	--	--	--	--	
	80.63	3/14/1995	6.01	74.62	0	--	--	--	--	--	--	
	--	11/7/1995	--	--	--	--	--	--	--	--	--	
	80.63	10/15/2001	8.43	72.20	0	--	--	--	--	--	--	
	80.63	11/23/2001	8.57	72.06	0	--	--	--	--	--	--	
	80.63	12/10/2001	8.51	72.12	0	--	--	--	--	--	--	
	80.63	1/14/2002	8.13	72.50	0	--	--	--	--	--	--	
	80.63	2/22/2002	6.18	74.45	0	--	--	--	--	--	--	
	80.63	3/11/2002	6.31	74.32	0	--	--	--	--	--	--	
	80.63	4/15/2002	6.39	74.24	0	--	--	--	--	--	--	
	80.63	5/24/2002	8.14	72.49	0	--	--	--	--	--	--	
	80.63	6/17/2002	8.18	72.45	0	--	--	--	--	--	--	
	80.63	7/15/2002	8.29	72.34	0	--	--	--	--	--	--	
	80.63	8/19/2002	8.44	72.19	0	--	--	--	--	--	--	
	80.63	9/5/2002	8.47	72.16	0	--	--	--	--	--	--	
	80.63	10/7/2002	8.43	72.20	0	--	--	--	--	--	--	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
80.63		11/29/2002	8.92	71.71	0	--	--	--	--	--	--	
80.63		12/12/2002	8.87	71.76	0	--	--	--	--	--	--	
80.63		1/6/2003	8.66	71.97	0	--	--	--	--	--	--	
80.63		2/12/2003	8.39	72.24	0	--	--	--	--	--	--	
80.63		3/13/2003	8.06	72.57	0	--	--	--	--	--	--	
80.63		4/7/2003	8.09	72.54	0	--	--	--	--	--	--	
80.63		5/15/2003	8.07	72.56	0	--	--	--	--	--	--	
80.63		6/12/2003	8.11	72.52	0	--	--	--	--	--	--	
80.63		7/7/2003	8.13	72.50	0	--	--	--	--	--	--	
80.63		8/14/2003	8.23	72.40	0	--	--	--	--	--	--	
80.63		9/12/2003	8.29	72.34	0	--	--	--	--	--	--	
80.63		11/4/2003	9.97	70.66	0	2,600	--	11	ND<10	ND<10	ND<20	
80.63		5/24/2004	8.31	72.32	0	3,100	--	20	ND<5.0	16	ND<10	
80.63		11/29/2004	8.23	72.40	0	4,500	--	46	ND<1.0	34	3.6	
80.63		6/24/2005	7.53	73.10	0	2,000	--	20	0.87	50	3.0	
80.63		12/15/2005	8.11	72.52	0	3,300	--	37	0.70	35	4.7	
80.63		6/14/2006	7.41	73.22	0	1,500	--	2.0	0.95	6.9	ND<1.0	
80.63		12/21/2006	7.78	72.85	0	3,100	--	21	0.65	56	5.4	
80.63		6/28/2007	9.09	71.54	0	2,800	--	46	0.96	44	2.6	
80.63		12/13/2007	9.21	71.42	0	9,100	--	190	2.1	400	81	
80.63		6/9/2008	9.30	71.33	0	5,400	--	23	ND<2.5	330	13	
80.63		12/30/2008	8.23	72.40	0	5,800	--	130	ND<2.5	270	58	
80.63		9/28/2009	9.10	71.53	0	3,400	--	3.8	ND<2.5	23	5.0	
80.63		12/15/2009	7.96	72.67	0	9,100	--	18	ND<2.5	450	160	
80.63		6/28/2010	8.68	71.95	0	2,300	--	20	1.0	56	ND<1.0	
80.63		12/29/2010	6.04	74.59	0	4,100	--	9.3	1.3	6.8	ND<1.0	
80.63		6/7/2011	3.61	77.02	0	730	--	4.1	ND<0.50	16	ND<1.0	
80.63		10/21/2011	5.45	75.18	0	--	--	--	--	--	--	
80.63		12/9/2011	9.28	71.35	0	--	2,900	240	1.2	180	30	
80.63		1/12/2012	9.53	71.10	0	--	--	--	--	--	--	

**Table 4**  
**Historical Groundwater Monitoring Data and Analytical Results**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	80.63	6/1/2012	8.48	72.15	0	--	3,600	140	ND<2.5	56	ND<5.0	
	80.63	6/6/2013	8.73	71.90	0	--	1,300	1.2	1.4	5.8	ND<1.0	
	80.63	12/13/2013	9.20	71.43	0	--	150	0.81	ND<0.50	ND<0.50	ND<1.0	
	80.63	6/23/2014	9.20	71.43	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.63	12/17/2014	5.81	74.82	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.63	6/9/2015	8.10	72.53	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.63	10/16/2015	9.58	71.05	0	--	--	--	--	--	--	
	80.63	11/12/2015	9.18	71.45	0	--	--	--	--	--	--	
	80.63	12/30/2015	7.94	72.69	0	--	75	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	<b>80.63</b>	<b>6/22/2016</b>	<b>8.41</b>	<b>72.22</b>	<b>0</b>	--	<b>ND&lt;50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;1.0</b>	
<b>QA</b>	--	12/30/2015	--	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	<b>6/22/2016</b>	--	--	--	--	<b>ND&lt;50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;1.0</b>	

**NOTES:**

\* TOC and GWE are in feet above mean sea level. GWE for wells with LNAPL has been adjusted for LNAPL thickness.

µg/L = Micrograms per liter

-- = Not available/not sampled

8260B = Analyzed by Environmental Protection Agency (EPA) Method 8260B

B = Benzene

DTW = Depth to water below TOC

E = Ethylbenzene

ft = Feet

GWE = Groundwater elevation

ID = Identification

J = Laboratory estimated value

LNAPL = Light non-aqueous phase liquid

ND = Not detected

ND<# = Analyte not detected at or above indicated laboratory practical quantitation limit

QA = Quality assurance/trip blank

T = Toluene

TOC = Top of casing

TPH-g = Total petroleum hydrocarbons as gasoline; reported as Total Purgeable Petroleum Hydrocarbons in the laboratory report

TPH-GRO = Total petroleum hydrocarbons-gasoline range organics

X = Total xylenes

**Table 5**  
**Historical Groundwater Analytical Results - Oxygenate Compounds**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
MW-1	11/1/1989	--	--	--	--	--	--	--	--	--	--
	2/15/1990	--	--	--	--	--	--	--	--	--	--
	8/16/1990	--	--	--	--	--	--	--	--	--	--
	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	--	--	--	--	--	--	--	--	--	--
	5/6/1996	55	--	--	--	--	--	--	--	--	--
	11/5/1996	5.2	--	--	--	--	--	--	--	--	--
	5/15/1997	16	--	--	--	--	--	--	--	--	--
	11/12/1997	11	--	--	--	--	--	--	--	--	--
	5/4/1998	320	--	--	--	--	--	--	--	--	--
	11/11/1998	200	--	--	--	--	--	--	--	--	--
	5/20/1999	89	47	ND	ND	ND	ND	ND	--	--	--
	11/15/1999	8.12	7.19	ND	ND	ND	ND	ND	--	--	--
	5/22/2000	220	290	130	ND	ND	ND	ND	--	--	--
	11/22/2000	105	142	--	--	ND	ND	ND	--	--	--
	5/15/2001	178	374	ND	ND	ND	ND	ND	--	--	--
	11/23/2001	350	350	ND<57	ND<1,400	ND<2.9	ND<2.9	ND<2.9	ND<2.9	--	ND<2.9
	5/24/2002	200	240	ND<200	ND<1,000	ND<4.0	ND<4.0	ND<4.0	ND<4.0	--	ND<4.0
	11/29/2002	--	330	ND<500	ND<2,500	ND<10	ND<10	ND<10	ND<10	--	ND<10
	5/15/2003	--	210	ND<500	ND<2,500	ND<10	ND<10	ND<10	ND<10	--	ND<10
	11/4/2003	--	140	ND<200	ND<1,000	ND<4.0	ND<4.0	ND<4.0	--	--	--
	5/24/2004	--	26	ND<5.0	ND<50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	11/29/2004	--	44	--	ND<50	--	--	--	--	--	--
	6/24/2005	--	80	--	ND<1,000	--	--	--	--	--	--
	12/15/2005	--	32	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/14/2006	--	44	--	ND<250	--	--	--	--	--	--
	12/21/2006	--	16	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50



**Table 5**  
**Historical Groundwater Analytical Results - Oxygenate Compounds**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	6/28/2007	--	5.6	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	10	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	29	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	3.2	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	0.98	--	ND<250	--	--	--	--	--	--
	12/15/2009	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	8.1	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	1.6	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	22	--	--	--	--	--	--	--	--
	12/9/2011	--	4.2	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/1/2012	--	0.87	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/6/2013	--	0.51	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	1.3	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	0.89	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	<b>6/22/2016</b>	--	<b>ND&lt;0.50</b>	<b>ND&lt;10</b>	<b>ND&lt;250</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	--	<b>ND&lt;0.50</b>
<b>MW-2</b>	11/1/1989	--	--	--	--	--	--	--	--	--	--
	2/15/1990	--	--	--	--	--	--	--	--	--	--
	8/16/1990	--	--	--	--	--	--	--	--	--	--
	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	2,700	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	8/19/1995	--	--	--	--	--	--	--	--	--	--
	10/11/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	160	--	--	--	--	--	--	--	--	--
	5/6/1996	--	--	--	--	--	--	--	--	--	--
	11/5/1996	--	--	--	--	--	--	--	--	--	--

**Table 5**  
**Historical Groundwater Analytical Results - Oxygenate Compounds**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	5/15/1997	--	--	--	--	--	--	--	--	--	--
	11/12/1997	--	--	--	--	--	--	--	--	--	--
	5/4/1998	--	--	--	--	--	--	--	--	--	--
	11/11/1998	--	--	--	--	--	--	--	--	--	--
	5/20/1999	--	--	--	--	--	--	--	--	--	--
	11/15/1999	--	--	--	--	--	--	--	--	--	--
	5/22/2000	--	--	--	--	--	--	--	--	--	--
	11/22/2000	--	--	--	--	--	--	--	--	--	--
	5/15/2001	--	--	--	--	--	--	--	--	--	--
	11/23/2001	--	--	--	--	--	--	--	--	--	--
	5/24/2002	--	--	--	--	--	--	--	--	--	--
	11/29/2002	--	--	--	--	--	--	--	--	--	--
	5/15/2003	--	--	--	--	--	--	--	--	--	--
	11/4/2003	--	--	--	--	--	--	--	--	--	--
	5/24/2004	--	--	--	--	--	--	--	--	--	--
	11/29/2004	--	--	--	--	--	--	--	--	--	--
	6/24/2005	--	--	--	--	--	--	--	--	--	--
	12/15/2005	--	--	--	--	--	--	--	--	--	--
	6/14/2006	--	190	--	ND<250	--	--	--	--	--	--
	12/21/2006	--	32	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/28/2007	--	8.3	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	10	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	12	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	--	--	--	--	--	--	--	--	--
	9/28/2009	--	--	--	--	--	--	--	--	--	--
	12/15/2009	--	5.9	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	4.3	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	2.1	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	14	--	--	--	--	--	--	--	--
	12/9/2011	--	7.9	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/1/2012	--	2.9	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/6/2013	--	0.95	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	1.1	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	0.82	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	0.68	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	0.58	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	<b>6/22/2016</b>	--	<b>0.91</b>	<b>ND&lt;10</b>	<b>ND&lt;250</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	--	<b>ND&lt;0.50</b>
<b>MW-3</b>	11/1/1989	--	--	--	--	--	--	--	--	--	--
	2/15/1990	--	--	--	--	--	--	--	--	--	--
	8/16/1990	--	--	--	--	--	--	--	--	--	--
	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/4/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/9/1993	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/10/1993	--	--	--	--	--	--	--	--	--	--

**Table 5**  
**Historical Groundwater Analytical Results - Oxygenate Compounds**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/9/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/8/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/12/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/7/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/8/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/11/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/8/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/7/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/12/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/24/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	3/14/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	8/19/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	880	--	--	--	--	--	--	--	--	--
	5/6/1996	370	--	--	--	--	--	--	--	--	--
	11/5/1996	460	--	--	--	--	--	--	--	--	--
	5/15/1997	100	--	--	--	--	--	--	--	--	--
	11/12/1997	ND	--	--	--	--	--	--	--	--	--
	5/4/1998	ND	--	--	--	--	--	--	--	--	--
	11/11/1998	ND	--	--	--	--	--	--	--	--	--
	5/20/1999	ND	--	--	--	--	--	--	--	--	--
	11/15/1999	120	45.1	--	--	--	--	--	--	--	--
	5/22/2000	100	94	ND	ND	ND	ND	ND	--	--	--
	11/22/2000	212	131	--	--	ND	ND	ND	--	--	--
	5/15/2001	97.1	75.5	ND	ND	ND	ND	ND	--	--	--
	11/23/2001	320	390	79	ND<1,200	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	ND<2.5
	5/24/2002	120	73	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	ND<2.0
	11/29/2002	--	340	ND<5,000	ND<25,000	ND<100	ND<100	ND<100	ND<100	--	ND<100
	5/15/2003	--	440	ND<1,000	ND<5,000	ND<20	ND<20	ND<20	ND<20	--	ND<20
	11/4/2003	--	530	ND<4,000	ND<20,000	ND<80	ND<80	ND<80	--	--	--
	5/24/2004	--	1200	190	ND<1,000	ND<20	ND<10	ND<10	ND<10	--	ND<10
	11/29/2004	--	550	--	ND<500	--	--	--	--	--	--
	6/24/2005	--	400	--	ND<10,000	--	--	--	--	--	--
	12/15/2005	--	280	ND<500	ND<12,000	ND<25	ND<25	ND<25	ND<25	--	ND<25
	6/14/2006	--	160	--	ND<1,200	--	--	--	--	--	--
	12/21/2006	--	96	110	ND<1,200	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	ND<2.5
	6/28/2007	--	75	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	27	--	ND<500	--	--	--	--	--	--
	6/9/2008	--	19	--	ND<1,200	--	--	--	--	--	--

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**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	12/30/2008	--	--	--	--	--	--	--	--	--	--
	9/28/2009	--	18	--	ND<1,200	--	--	--	--	--	--
	12/15/2009	--	13	--	ND<1,200	--	--	--	--	--	--
	6/28/2010	--	17	--	ND<250	--	--	--	ND<0.50	ND<0.010	ND<0.50
	12/29/2010	--	28	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	5.7	--	--	--	--	--	--	--	--
	12/9/2011	--	9.3	--	ND<1,200	--	--	--	ND<2.5	--	ND<2.5
	6/1/2012	--	19	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	11/23/2012	--	11	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	6	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	7.6	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	15	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	16	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	6.3	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	<b>6/22/2016</b>	--	<b>21</b>	<b>ND&lt;50</b>	<b>ND&lt;1,200</b>	<b>ND&lt;2.5</b>	<b>ND&lt;2.5</b>	<b>ND&lt;2.5</b>	<b>ND&lt;2.5</b>	--	<b>ND&lt;2.5</b>
<b>MW-4</b>	2/15/1990	--	--	--	--	--	--	--	--	--	--
	8/16/1990	--	--	--	--	--	--	--	--	--	--
	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	12/21/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	8/19/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	0.86	--	--	--	--	--	--	--	--	--
	5/6/1996	ND	--	--	--	--	--	--	--	--	--
	11/5/1996	6.5	--	--	--	--	--	--	--	--	--
	5/15/1997	ND	--	--	--	--	--	--	--	--	--
	11/12/1997	ND	--	--	--	--	--	--	--	--	--
	5/4/1998	ND	--	--	--	--	--	--	--	--	--
	11/11/1998	ND	--	--	--	--	--	--	--	--	--

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**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	5/20/1999	ND	--	--	--	ND<2.0	--	--	--	--	--
	11/15/1999	ND	--	--	--	--	--	--	--	--	--
	5/22/2000	ND	--	--	--	--	--	--	--	--	--
	11/22/2000	ND	--	--	--	--	--	--	--	--	--
	5/15/2001	ND	--	--	--	--	--	--	--	--	--
	11/23/2001	ND<5.0	--	--	--	--	--	--	--	--	--
	5/24/2002	9.6	3.5	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	ND<2.0
	11/29/2002	--	2.6	ND<100	ND<500	--	ND<2.0	ND<2.0	ND<2.0	--	ND<2.0
	5/15/2003	--	ND<2.0	--	--	--	--	--	--	--	--
	11/4/2003	--	ND<2.0	--	ND<500	--	--	--	--	--	--
	5/24/2004	--	ND<0.50	--	ND<50	ND<1.0	--	--	--	--	--
	11/29/2004	--	0.55	ND<5.0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/24/2005	--	ND<0.50	--	ND<1,000	ND<0.50	--	--	--	--	--
	12/15/2005	--	0.65	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/14/2006	--	ND<0.50	--	ND<250	ND<0.50	--	--	--	--	--
	12/21/2006	--	0.67	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/28/2007	--	0.61	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	0.62	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	0.99	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	1.1	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	--	--	--	--	--	--	--	--	--
	12/15/2009	--	4.0	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	2.7	--	ND<250	ND<0.50	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	0.78	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	ND<2.5	--	--	--	--	--	--	--	--
	12/9/2011	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/1/2012	--	ND<2.5	--	ND<1,200	--	--	--	ND<2.5	--	ND<2.5
	6/6/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	0.55	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	<b>6/22/2016</b>	--	<b>ND&lt;0.50</b>	<b>ND&lt;10</b>	<b>ND&lt;250</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	--	<b>ND&lt;0.50</b>
<b>MW-5</b>	2/15/1990	--	--	--	--	--	--	--	--	--	--
	8/16/1990	--	--	--	--	--	--	--	--	--	--
	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/4/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/9/1993	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/10/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/9/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/8/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--

**Table 5**  
**Historical Groundwater Analytical Results - Oxygenate Compounds**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	5/12/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/7/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/8/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/11/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/8/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/7/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/12/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	3/14/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	8/19/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	630	--	--	--	--	--	--	--	--	--
	5/6/1996	170	--	--	--	--	--	--	--	--	--
	11/5/1996	580	--	--	--	--	--	--	--	--	--
	5/15/1997	ND	--	--	--	--	--	--	--	--	--
	11/12/1997	74	--	--	--	--	--	--	--	--	--
	5/4/1998	ND	--	--	--	ND	--	--	--	--	--
	11/11/1998	--	--	--	--	--	--	--	--	--	--
	2/22/1999	--	--	--	--	--	--	--	--	--	--
	4/2/1999	--	--	--	--	--	--	--	--	--	--
	5/4/1999	--	--	--	--	--	--	--	--	--	--
	5/20/1999	--	--	--	--	--	--	--	--	--	--
	6/29/1999	--	--	--	--	--	--	--	--	--	--
	7/29/1999	--	--	--	--	--	--	--	--	--	--
	8/24/1999	--	--	--	--	--	--	--	--	--	--
	9/27/1999	--	--	--	--	--	--	--	--	--	--
	10/28/1999	--	--	--	--	--	--	--	--	--	--
	11/15/1999	--	--	--	--	--	--	--	--	--	--
	12/20/1999	--	--	--	--	--	--	--	--	--	--
	1/20/2000	--	--	--	--	--	--	--	--	--	--
	2/26/2000	--	--	--	--	--	--	--	--	--	--
	3/31/2000	--	--	--	--	--	--	--	--	--	--
	4/13/2000	--	--	--	--	--	--	--	--	--	--
	5/22/2000	640	21	ND	ND	--	ND	ND	--	--	--
	11/22/2000	--	--	--	--	--	--	--	--	--	--
	2/14/2001	--	--	--	--	--	--	--	--	--	--
	3/28/2001	--	--	--	--	--	--	--	--	--	--
	4/28/2001	--	--	--	--	--	--	--	--	--	--
	5/15/2001	--	--	--	--	--	--	--	--	--	--
	6/29/2001	--	--	--	--	--	--	--	--	--	--
	7/17/2001	--	--	--	--	--	--	--	--	--	--
	8/30/2001	--	--	--	--	--	--	--	--	--	--

**Table 5**  
**Historical Groundwater Analytical Results - Oxygenate Compounds**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	9/24/2001	--	--	--	--	--	--	--	--	--	--
	10/15/2001	--	--	--	--	--	--	--	--	--	--
	11/23/2001	ND<500	--	--	--	--	--	--	--	--	--
	12/10/2001	--	--	--	--	--	--	--	--	--	--
	1/14/2002	--	--	--	--	--	--	--	--	--	--
	2/22/2002	--	--	--	--	--	--	--	--	--	--
	3/11/2002	--	--	--	--	--	--	--	--	--	--
	4/15/2002	--	--	--	--	--	--	--	--	--	--
	5/24/2002	--	--	--	--	--	--	--	--	--	--
	6/17/2002	--	--	--	--	--	--	--	--	--	--
	7/15/2002	--	--	--	--	--	--	--	--	--	--
	8/19/2002	--	--	--	--	--	--	--	--	--	--
	9/5/2002	--	--	--	--	--	--	--	--	--	--
	10/7/2002	--	--	--	--	--	--	--	--	--	--
	11/29/2002	--	--	--	--	--	--	--	--	--	--
	12/12/2002	--	--	--	--	--	--	--	--	--	--
	1/6/2003	--	--	--	--	--	--	--	--	--	--
	2/12/2003	--	--	--	--	--	--	--	--	--	--
	3/13/2003	--	--	--	--	--	--	--	--	--	--
	4/7/2003	--	--	--	--	--	--	--	--	--	--
	5/15/2003	--	--	--	--	--	--	--	--	--	--
	6/12/2003	--	--	--	--	--	--	--	--	--	--
	7/7/2003	--	--	--	--	--	--	--	--	--	--
	8/14/2003	--	--	--	--	--	--	--	--	--	--
	9/12/2003	--	--	--	--	--	--	--	--	--	--
	11/4/2003	--	--	--	--	--	--	--	--	--	--
	5/24/2004	--	--	--	--	--	--	--	--	--	--
	11/29/2004	--	--	--	--	--	--	--	--	--	--
	6/24/2005	--	82	--	ND<50,000	ND<25	--	--	--	--	--
	12/15/2005	--	120	ND<500	ND<12,000	--	ND<25	ND<25	ND<25	--	ND<25
	6/14/2006	--	48	--	ND<6,200	ND<25	--	--	--	--	--
	12/21/2006	--	96	ND<500	ND<12,000	--	ND<25	ND<25	ND<25	--	ND<25
	6/28/2007	--	--	--	--	--	--	--	--	--	--
	12/13/2007	--	--	--	--	--	--	--	--	--	--
	6/9/2008	--	--	--	--	--	--	--	--	--	--
	12/30/2008	--	--	--	--	--	--	--	--	--	--
	9/28/2009	--	--	--	--	--	--	--	--	--	--
	12/15/2009	--	--	--	--	--	--	--	--	--	--
	6/28/2010	--	--	--	--	--	--	--	--	--	--
	12/29/2010	--	--	--	--	--	--	--	--	--	--
	2/1/2011	--	--	--	--	--	--	--	--	--	--
	6/7/2011	--	ND<12	--	--	--	--	--	--	--	--
	9/13/2011	--	--	--	--	--	--	--	--	--	--
	10/21/2011	--	--	--	--	--	--	--	--	--	--
	11/4/2011	--	--	--	--	--	--	--	--	--	--
	12/9/2011	--	--	--	--	--	--	--	--	--	--
	1/12/2012	--	--	--	--	--	--	--	--	--	--
	6/1/2012	--	--	--	--	--	--	--	--	--	--
	6/6/2013	--	2.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	--	--	--	--	--	--	--	--	--
	6/23/2014	--	--	--	--	--	--	--	--	--	--
	12/17/2014	--	--	--	--	--	--	--	--	--	--
	6/9/2015	--	--	--	--	--	--	--	--	--	--
	12/30/2015	--	--	--	--	--	--	--	--	--	--
	<b>6/22/2016</b>	--	<b>ND&lt;5.0</b>	<b>ND&lt;100</b>	<b>ND&lt;2,500</b>	<b>ND&lt;5.0</b>	<b>ND&lt;5.0</b>	<b>ND&lt;5.0</b>	<b>ND&lt;5.0</b>	--	<b>ND&lt;5.0</b>

**Table 5**  
**Historical Groundwater Analytical Results - Oxygenate Compounds**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
MW-6	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	--	--	--	--	--	--	--	--	--	--
	5/6/1996	--	--	--	--	--	--	--	--	--	--
	11/5/1996	--	--	--	--	--	--	--	--	--	--
	5/15/1997	--	--	--	--	--	--	--	--	--	--
	11/12/1997	--	--	--	--	--	--	--	--	--	--
	5/4/1998	--	--	--	--	ND<2.0	--	--	--	--	--
	11/11/1998	--	--	--	--	--	--	--	--	--	--
	5/20/1999	--	--	--	--	--	--	--	--	--	--
	11/15/1999	--	--	--	--	--	--	--	--	--	--
	5/22/2000	--	--	--	--	--	--	--	--	--	--
	11/22/2000	--	--	--	--	--	--	--	--	--	--
	5/15/2001	--	--	--	--	--	--	--	--	--	--
	11/23/2001	--	--	--	--	--	--	--	--	--	--
	5/24/2002	--	--	--	--	--	--	--	--	--	--
	11/29/2002	--	--	--	--	--	--	--	--	--	--
	5/15/2003	--	--	--	--	--	--	--	--	--	--
	11/4/2003	--	2.4	ND<100	ND<500	ND<1.0	ND<2.0	ND<2.0	--	--	--
	5/24/2004	--	2.8	ND<5.0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	11/29/2004	--	4.8	--	ND<50	--	--	--	--	--	--
	6/24/2005	--	0.47	--	ND<1,000	ND<0.50	--	--	--	--	--
	12/15/2005	--	0.88	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/14/2006	--	3.0	--	ND<250	ND<0.50	--	--	--	--	--
	12/21/2006	--	1.0	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/28/2007	--	1.2	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	0.64	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	0.65	--	ND<250	--	--	--	--	--	--



**Table 5**  
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**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	12/30/2008	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	0.67	--	ND<250	--	--	--	--	--	--
	12/15/2009	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	ND<0.50	--	ND<250	ND<0.50	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	ND<0.50	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	12	--	--	--	--	--	--	--	--
	12/9/2011	--	2.0	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/1/2012	--	0.64	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/6/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	<b>6/22/2016</b>	--	<b>ND&lt;0.50</b>	<b>ND&lt;10</b>	<b>ND&lt;250</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	--	<b>ND&lt;0.50</b>
<b>MW-7</b>	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	--	--	--	--	--	--	--	--	--	--
	5/6/1996	--	--	--	--	--	--	--	--	--	--
	11/5/1996	--	--	--	--	--	--	--	--	--	--
	5/15/1997	--	--	--	--	--	--	--	--	--	--
	11/12/1997	--	--	--	--	--	--	--	--	--	--
	5/4/1998	--	--	--	--	--	--	--	--	--	--
	11/11/1998	--	--	--	--	--	--	--	--	--	--
	5/20/1999	--	--	--	--	--	--	--	--	--	--
	11/15/1999	--	--	--	--	--	--	--	--	--	--
	5/22/2000	--	--	--	--	--	--	--	--	--	--

**Table 5**  
**Historical Groundwater Analytical Results - Oxygenate Compounds**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	11/22/2000	--	--	--	--	--	--	--	--	--	--
	5/15/2001	--	--	--	--	--	--	--	--	--	--
	11/23/2001	--	--	--	--	--	--	--	--	--	--
	5/24/2002	--	--	--	--	--	--	--	--	--	--
	11/29/2002	--	--	--	--	--	--	--	--	--	--
	5/15/2003	--	--	--	--	--	--	--	--	--	--
	11/4/2003	--	ND<2.0	--	ND<500	ND<1.0	--	--	--	--	--
	5/24/2004	--	1.4	ND<5.0	ND<50	--	ND<0.5	ND<0.5	ND<0.5	--	ND<0.5
	11/29/2004	--	3.6	--	ND<50	--	--	--	--	--	--
	6/24/2005	--	1.6	--	ND<1,000	ND<0.50	--	--	--	--	--
	12/15/2005	--	0.72	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/14/2006	--	ND<0.50	--	ND<250	ND<0.50	--	--	--	--	--
	12/21/2006	--	0.75	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/28/2007	--	0.51	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	0.58	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	0.54	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	1.0	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	0.52	--	ND<250	--	--	--	--	--	--
	12/15/2009	--	1.6	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	ND<0.50	--	ND<250	ND<0.50	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	6.0	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	19	--	--	--	--	--	--	--	--
	12/9/2011	--	4.5	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/1/2012	--	0.71	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/6/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	2.1	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	<b>6/22/2016</b>	--	<b>ND&lt;0.50</b>	<b>ND&lt;10</b>	<b>ND&lt;250</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	--	<b>ND&lt;0.50</b>
<b>MW-8</b>	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/9/1993	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/10/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/9/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/8/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/12/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/7/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/8/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--

**Table 5**  
**Historical Groundwater Analytical Results - Oxygenate Compounds**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	8/11/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/8/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/7/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/12/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	--	--	--	--	--	--	--	--	--	--
	5/6/1996	--	--	--	--	--	--	--	--	--	--
	11/5/1996	--	--	--	--	--	--	--	--	--	--
	5/15/1997	43	--	--	--	ND	--	--	--	--	--
	11/12/1997	--	--	--	--	--	--	--	--	--	--
	5/4/1998	--	--	--	--	--	--	--	--	--	--
	11/11/1998	--	--	--	--	--	--	--	--	--	--
	5/20/1999	23	10	ND	ND	ND	ND	ND	--	--	--
	11/15/1999	--	--	ND	ND	ND<4.0	ND	ND	--	--	--
	5/22/2000	ND	--	--	--	--	--	--	--	--	--
	11/22/2000	ND	--	--	--	--	--	--	--	--	--
	5/15/2001	ND	--	--	--	--	--	--	--	--	--
	11/23/2001	ND<5.0	--	--	--	--	--	--	--	--	--
	5/24/2002	ND<5.0	--	--	--	--	--	--	--	--	--
	11/29/2002	--	ND<2.0	--	--	--	--	--	--	--	--
	5/15/2003	--	ND<2.0	--	--	--	--	--	--	--	--
	11/4/2003	--	190	ND<200	ND<1,000	ND<5.0	ND<4.0	ND<4.0	--	--	--
	5/24/2004	--	750	ND<25	ND<250	ND<20	ND<2.5	ND<2.5	ND<2.5	--	ND<2.5
	11/29/2004	--	1,600	ND<100	ND<1,000	--	ND<10	ND<10	ND<10	--	ND<10
	6/24/2005	--	190	--	ND<1,000	ND<0.50	--	--	--	--	--
	12/15/2005	--	1,000	ND<10	ND<250	--	ND<0.50	0.95	ND<0.50	--	ND<0.50
	6/14/2006	--	39	--	ND<250	ND<0.50	--	--	--	--	--
	12/21/2006	--	15	13	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/28/2007	--	8.4	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	6.8	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	6.5	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	2.9	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	3.1	--	ND<250	--	--	--	--	--	--
	12/15/2009	--	2.9	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	3.6	--	ND<250	ND<0.50	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	2.7	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	--	--	--	--	--	--	--	--	--
	12/9/2011	--	--	--	--	--	--	--	--	--	--
	6/1/2012	--	--	--	--	--	--	--	--	--	--
	6/6/2013	--	--	--	--	--	--	--	--	--	--
	12/13/2013	--	--	--	--	--	--	--	--	--	--
	6/23/2014	--	--	--	--	--	--	--	--	--	--
	12/17/2014	--	--	--	--	--	--	--	--	--	--
	6/9/2015	--	--	--	--	--	--	--	--	--	--

**Table 5**  
**Historical Groundwater Analytical Results - Oxygenate Compounds**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	12/30/2015	--	--	--	--	--	--	--	--	--	--
	<b>6/22/2016</b>	--	--	--	--	--	--	--	--	--	--
<b>MW-9</b>	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	59	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	60	--	--	--	--	--	--	--	--	--
	5/6/1996	ND	--	--	--	--	--	--	--	--	--
11/5/1996	ND	--	--	--	--	--	--	--	--	--	
5/15/1997	ND	--	--	--	--	--	--	--	--	--	
11/12/1997	74	--	--	--	--	--	--	--	--	--	
5/4/1998	45	--	--	--	--	--	--	--	--	--	
11/11/1998	ND	--	--	--	--	--	--	--	--	--	
5/20/1999	ND	--	--	--	--	ND<1.0	--	--	--	--	
11/15/1999	ND	--	--	--	--	--	--	--	--	--	
5/22/2000	ND	--	--	--	--	--	--	--	--	--	
11/22/2000	ND	--	--	--	--	--	--	--	--	--	
5/15/2001	ND	--	--	--	--	--	--	--	--	--	
11/23/2001	ND<5.0	--	--	--	--	--	--	--	--	--	
5/24/2002	ND<5.0	--	--	--	--	--	--	--	--	--	
11/29/2002	--	--	ND<2.0	--	--	--	--	--	--	--	
5/15/2003	--	--	ND<2.0	--	--	--	--	--	--	--	
11/4/2003	--	--	--	--	--	--	--	--	--	--	
5/24/2004	--	--	160	29	ND<50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
11/29/2004	--	--	160	23	ND<50	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
6/24/2005	--	--	67	--	ND<1,000	ND<0.50	--	--	--	--	--
12/15/2005	--	--	82	11	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
6/14/2006	--	--	5.2	--	ND<250	ND<0.50	--	--	--	--	--
12/21/2006	--	--	36	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50

**Table 5**  
**Historical Groundwater Analytical Results - Oxygenate Compounds**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	6/28/2007	--	52	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	31	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	27	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	5.0	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	7.5	--	ND<250	--	--	--	--	--	--
	12/15/2009	--	3.7	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	2.2	--	ND<250	ND<0.50	--	--	ND<0.50	ND<0.010	ND<0.50
	12/29/2010	--	ND<0.50	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	--	--	--	--	--	--	--	--	--
	12/9/2011	--	--	--	--	--	--	--	--	--	--
	6/1/2012	--	--	--	--	--	--	--	--	--	--
	6/6/2013	--	--	--	--	--	--	--	--	--	--
	12/13/2013	--	--	--	--	--	--	--	--	--	--
	6/23/2014	--	--	--	--	--	--	--	--	--	--
	12/17/2014	--	--	--	--	--	--	--	--	--	--
	6/9/2015	--	--	--	--	--	--	--	--	--	--
	12/30/2015	--	--	--	--	--	--	--	--	--	--
	<b>6/22/2016</b>	--	--	--	--	--	--	--	--	--	--
<b>MW-10</b>	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	--	--	--	--	--	--	--	--	--	--
	5/6/1996	--	--	--	--	--	--	--	--	--	--
	11/5/1996	--	--	--	--	--	--	--	--	--	--
	5/15/1997	--	--	--	--	--	--	--	--	--	--
	11/12/1997	--	--	--	--	--	--	--	--	--	--
	5/4/1998	--	--	--	--	--	--	--	--	--	--
	11/11/1998	--	--	--	--	--	--	--	--	--	--
	5/20/1999	--	--	--	--	--	--	--	--	--	--
	11/15/1999	--	--	--	--	--	--	--	--	--	--
	5/22/2000	--	--	--	--	--	--	--	--	--	--
	11/22/2000	--	--	--	--	--	--	--	--	--	--
	5/15/2001	--	--	--	--	--	--	--	--	--	--

**Table 5**  
**Historical Groundwater Analytical Results - Oxygenate Compounds**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	11/23/2001	--	--	--	--	--	--	--	--	--	--
	5/24/2002	--	--	--	--	--	--	--	--	--	--
	11/29/2002	--	--	--	--	--	--	--	--	--	--
	5/15/2003	--	--	--	--	--	--	--	--	--	--
	11/4/2003	--	ND<2.0	--	ND<500	ND<1.0	--	--	--	--	--
	5/24/2004	--	0.75	ND<5.0	ND<50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	11/29/2004	--	0.72	6.1	ND<50	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/24/2005	--	ND<0.50	--	ND<1,000	--	--	--	--	--	--
	12/15/2005	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/14/2006	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/21/2006	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/28/2007	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/15/2009	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	ND<0.50	--	ND<250	ND<0.50	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	ND<0.50	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	ND<0.50	--	--	--	--	--	--	--	--
	12/9/2011	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/1/2012	--	1.1	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/6/2013	--	0.92	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	0.92	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	<b>6/22/2016</b>	--	<b>ND&lt;0.50</b>	<b>ND&lt;10</b>	<b>ND&lt;250</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	--	<b>ND&lt;0.50</b>
<b>MW-11</b>	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	--	--	--	--	--	--	--	--	--	--

**Table 5**  
**Historical Groundwater Analytical Results - Oxygenate Compounds**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	5/6/1996	--	--	--	--	--	--	--	--	--	--
	11/5/1996	--	--	--	--	--	--	--	--	--	--
	5/15/1997	--	--	--	--	--	--	--	--	--	--
	11/12/1997	--	--	--	--	--	--	--	--	--	--
	5/4/1998	--	--	--	--	--	--	--	--	--	--
	11/11/1998	--	--	--	--	--	--	--	--	--	--
	5/20/1999	ND	--	--	--	--	--	--	--	--	--
	11/15/1999	ND	--	--	--	--	--	--	--	--	--
	5/22/2000	ND	--	--	--	--	--	--	--	--	--
	11/22/2000	ND	--	--	--	--	--	--	--	--	--
	5/15/2001	ND	--	--	--	--	--	--	--	--	--
	11/23/2001	ND<5.0	--	--	--	--	--	--	--	--	--
	5/24/2002	ND<5.0	--	--	--	--	--	--	--	--	--
	11/29/2002	--	ND<2.0	--	--	--	--	--	--	--	--
	5/15/2003	--	ND<2.0	--	--	--	--	--	--	--	--
	11/4/2003	--	ND<2.0	--	ND<500	--	--	--	--	--	--
	5/24/2004	--	ND<0.50	--	ND<50	--	--	--	--	--	--
	11/29/2004	--	ND<0.50	--	ND<50	--	--	--	--	--	--
	6/24/2005	--	ND<0.50	--	ND<1,000	--	--	--	--	--	--
	12/15/2005	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/14/2006	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/21/2006	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/28/2007	--	--	--	--	--	--	--	--	--	--
	12/13/2007	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/15/2009	--	--	--	--	--	--	--	--	--	--
	6/28/2010	--	ND<0.50	--	ND<250	ND<0.50	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	ND<0.50	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	ND<0.50	--	--	--	--	--	--	--	--
	12/9/2011	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/1/2012	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/6/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	--	--	--	--	--	--	--	--	--
	12/17/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	<b>6/22/2016</b>	--	<b>ND&lt;0.50</b>	<b>ND&lt;10</b>	<b>ND&lt;250</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	--	<b>ND&lt;0.50</b>
<b>MW-12</b>	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--

**Table 5**  
**Historical Groundwater Analytical Results - Oxygenate Compounds**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	ND	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	--	--	--	--	--	--	--	--	--	--
	5/6/1996	--	--	--	--	--	--	--	--	--	--
	11/5/1996	--	--	--	--	--	--	--	--	--	--
	5/15/1997	--	--	--	--	--	--	--	--	--	--
	11/12/1997	--	--	--	--	--	--	--	--	--	--
	5/4/1998	--	--	--	--	ND<2.0	--	--	--	--	--
	11/11/1998	--	--	--	--	--	--	--	--	--	--
	5/20/1999	--	--	--	--	--	--	--	--	--	--
	11/15/1999	--	--	--	--	--	--	--	--	--	--
	5/22/2000	--	--	--	--	--	--	--	--	--	--
	11/22/2000	--	--	--	--	--	--	--	--	--	--
	5/15/2001	--	--	--	--	--	--	--	--	--	--
	11/23/2001	--	--	--	--	--	--	--	--	--	--
	5/24/2002	--	--	--	--	--	--	--	--	--	--
	11/29/2002	--	--	--	--	--	--	--	--	--	--
	5/15/2003	--	--	--	--	--	--	--	--	--	--
	11/4/2003	--	4.4	ND<100	ND<500	ND<1.0	ND<2.0	ND<2.0	--	--	--
	5/24/2004	--	1.7	ND<5.0	ND<50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	11/29/2004	--	0.71	ND<5.0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/24/2005	--	ND<0.50	--	ND<1,000	--	--	--	--	--	--
	12/15/2005	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/14/2006	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/21/2006	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/28/2007	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	0.55	--	ND<250	--	--	--	--	--	--
	12/15/2009	--	0.56	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	0.97	--	ND<250	ND<0.50	--	--	ND<0.50	ND<0.010	ND<0.50
	12/29/2010	--	0.95	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	2.0	--	--	--	--	--	--	--	--
	12/9/2011	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/1/2012	--	1.2	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/6/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	0.55	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	0.55	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	<b>6/22/2016</b>	--	<b>1.1</b>	<b>ND&lt;10</b>	<b>ND&lt;250</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	--	<b>ND&lt;0.50</b>
<b>RW-1</b>	2/24/1993	--	--	--	--	--	--	--	--	--	--
	5/12/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/7/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/8/1993	--	--	--	--	--	--	--	--	--	--



**Table 5**  
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**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	8/11/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/8/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	11/12/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	3/14/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	--	--	--	--	--	--	--	--	--	--
	10/15/2001	--	--	--	--	--	--	--	--	--	--
	11/23/2001	--	--	--	--	--	--	--	--	--	--
	12/10/2001	--	--	--	--	--	--	--	--	--	--
	1/14/2002	--	--	--	--	--	--	--	--	--	--
	2/22/2002	--	--	--	--	--	--	--	--	--	--
	3/11/2002	--	--	--	--	--	--	--	--	--	--
	4/15/2002	--	--	--	--	--	--	--	--	--	--
	5/24/2002	--	--	--	--	--	--	--	--	--	--
	6/17/2002	--	--	--	--	--	--	--	--	--	--
	7/15/2002	--	--	--	--	--	--	--	--	--	--
	8/19/2002	--	--	--	--	--	--	--	--	--	--
	9/5/2002	--	--	--	--	--	--	--	--	--	--
	10/7/2002	--	--	--	--	--	--	--	--	--	--
	11/29/2002	--	--	--	--	--	--	--	--	--	--
	12/12/2002	--	--	--	--	--	--	--	--	--	--
	1/6/2003	--	--	--	--	--	--	--	--	--	--
	2/12/2003	--	--	--	--	--	--	--	--	--	--
	3/13/2003	--	--	--	--	--	--	--	--	--	--
	4/7/2003	--	--	--	--	--	--	--	--	--	--
	5/15/2003	--	--	--	--	--	--	--	--	--	--
	6/12/2003	--	--	--	--	--	--	--	--	--	--
	7/7/2003	--	--	--	--	--	--	--	--	--	--
	8/14/2003	--	--	--	--	--	--	--	--	--	--
	9/12/2003	--	--	--	--	--	--	--	--	--	--
	11/4/2003	--	210	ND<2,000	ND<10,000	ND<10	ND<40	ND<40	--	--	--
	5/24/2004	--	200	ND<50	ND<500	ND<2.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0
	11/29/2004	--	140	38	ND<100	--	ND<1.0	1.3	ND<1.0	--	ND<1.0
	6/24/2005	--	56	--	ND<1,000	ND<0.50	--	--	--	--	--
	12/15/2005	--	44	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/14/2006	--	21	--	ND<250	ND<0.50	--	--	--	--	--
	12/21/2006	--	27	34	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/28/2007	--	65	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	30	--	ND<500	--	--	--	--	--	--
	6/9/2008	--	39	--	ND<1,200	--	--	--	--	--	--
	12/30/2008	--	22	--	ND<1,200	--	--	--	--	--	--
	9/28/2009	--	21	--	ND<1,200	--	--	--	--	--	--
	12/15/2009	--	ND<2.5	--	ND<1,200	--	--	--	--	--	--
	6/28/2010	--	5.6	--	ND<250	ND<0.50	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	1.6	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	ND<0.50	--	--	--	--	--	--	--	--
	10/21/2011	--	--	--	--	--	--	--	--	--	--
	12/9/2011	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	1/12/2012	--	--	--	--	--	--	--	--	--	--
	6/1/2012	--	ND<2.5	--	ND<1,200	--	--	--	ND<2.5	--	ND<2.5

**Table 5**  
**Historical Groundwater Analytical Results - Oxygenate Compounds**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	6/6/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	<b>6/22/2016</b>	--	<b>ND&lt;0.50</b>	<b>ND&lt;10</b>	<b>ND&lt;250</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	--	<b>ND&lt;0.50</b>
<b>QA</b>	12/30/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	<b>6/22/2016</b>	--	<b>ND&lt;0.50</b>	<b>ND&lt;10</b>	<b>ND&lt;250</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	<b>ND&lt;0.50</b>	--	<b>ND&lt;0.50</b>

**NOTES:**

µg/L = Micrograms per liter

-- = Not available/not sampled

504 = Analyzed by Environmental Protection Agency (EPA) Method 504

8021 = Analyzed by EPA Method 8021B

8260B = Analyzed by EPA Method 8260B

DIPE = Diisopropyl ether

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

ID = Identification

J = Laboratory estimated value

MTBE = Methyl t-Butyl Ether

ND = Not detected

ND<# = Analyte not detected at or above indicated laboratory practical quantitation limit

QA = Quality assurance/trip blank

TAME = t-Amyl Methyl ether

TBA = t-Butyl alcohol

**Table 6**  
**LNAPL Recovery Data**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

<b>DATE</b>	<b>MW-5</b>	<b>RW-1</b>
11/11/1998	0	0
2/22/1999	0.04	0
4/2/1999	0.07	0
5/4/1999	0	0
5/20/1999	0	0
6/29/1999	0	0
0729/99	0	0
8/24/1999	0	0
9/27/1999	0	0
10/28/1999	0	0
11/15/1999	0	0
12/20/1999	0	0
1/20/2000	0	0
2/26/2000	0	0
3/31/2000	0	0
4/13/2000	0	0
5/22/2000	0	0
11/22/2000	0.02	0
2/14/2001	0.06	0
3/28/2001	0	0
4/28/2001	0	0
5/15/2001	0	0
6/29/2001	0	0
7/17/2001	0	0
8/30/2001	0	0
9/24/2001	0	0
10/15/2001	0.03	0
11/23/2001	0	0
12/10/2001	0	0
1/14/2002	0	0
2/22/2002	0	0
3/11/2002	0	0
4/15/2002	0	0
5/24/2002	0.04	0
6/17/2002	0.04	0
7/15/2002	0.02	0
8/19/2002	0.05	0
9/5/2002	0.03	0
10/7/2002	0.02	0
11/29/2002	0.02	0
12/12/2002	0.01	0
1/6/2003	0.01	0
2/12/2003	0.02	0
3/13/2003	0.02	0
4/7/2003	0.01	0
5/15/2003	0.03	0
6/12/2003	0.02	0
7/7/2003	0.01	0
8/14/2003	0.02	0
9/12/2003	0.02	0
10/15/2003	0.087	0
11/4/2003	0.043	0
11/21/2003	0.032	0
12/18/2003	0.024	0
1/7/2004	0.009	0

**Table 6**  
**LNAPL Recovery Data**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

<b>DATE</b>	<b>MW-5</b>	<b>RW-1</b>
2/9/2004	0.01	0.01
3/24/2004	0.031	0
4/16/2004	0	0
5/24/2004	0.050	0
6/8/2004	0.049	0
7/2/2004	0.046	0
8/20/2004	0.080	0
9/17/2004	0.048	0
10/22/2004	0.024	0
11/29/2004	0.036	0
12/21/2004	0.010	0
1/24/2005	0.027	0
2/18/2005	0.020	0
3/18/2005	0.024	0
4/14/2005	0.010	0
5/17/2005	0.010	0
6/24/2005	0	0
7/14/2005	0.020	0
8/5/2005	0.050	0
9/16/2005	0.009	0
10/21/2005	0	0
11/22/2005	0	0
12/15/2005	0	0
1/19/2006	0	0
2/15/2006	0	0
3/25/2006	0	0
4/27/2006	0	0
5/25/2006	0	0
6/14/2006	0	0
7/3/2006	0	0
8/10/2006	0	0
9/15/2006	0.027	0
10/27/2006	0.009	0
11/22/2006	0.017	0
12/21/2006	0	0
2/5/2007	0.010	0
2/20/2007	0	0
3/28/2007	0	0
4/30/2007	0	0
5/23/2007	0.073	0
6/28/2007	0.049	0
8/1/2007	0	0
8/27/2007	0	0
9/12/2007	0.040	0
10/16/2007	0	0
12/13/2007	0.029	0
1/29/2008	0.010	0
2/28/2008	0.020	0
3/21/2008	0	0
4/11/2008	0.058	0
5/21/2008	0.044	0
6/9/2008	0.029	0
7/18/2008	0.032	0
8/15/2008	0.024	0
9/24/2008	0.051	0

**Table 6**  
**LNAPL Recovery Data**  
**76 Station No. 0746 (351647)**  
**3943 Broadway**  
**Oakland, California**

<b>DATE</b>	<b>MW-5</b>	<b>RW-1</b>
10/22/2008	0.044	0
11/26/2008	0.034	0
12/30/2008	0.022	0
1/23/2009	NA	0
3/27/2009	0	0
4/28/2009	0.102	0
5/28/2009	NA	NA
7/31/2009	0.034	0
8/21/2009	0.102	0
9/28/2009	0.017	0
10/26/2009	0.063	0
11/30/2009	0.075	0
12/15/2009	0.010	0
1/25/2010	0.003	0
2/26/2010	0	0
3/23/2010	0.01	0
4/22/2010	0.009	0
5/21/2010	0.117	0
6/28/2010	0.085	0
7/21/2010	0.04	0
8/18/2010	0.07	0
9/29/2010	0.03	0
10/18/2010	0.046	0
11/30/2010	0.058	0
12/29/2010	0.25	0
1/6/2011	0.138	0
1/20/2011	0.231	0
2/1/2011	0.23	0
2/14/2011	0	0
3/3/2011	0	0
3/22/2011	0	0
4/25/2011	0	0
5/27/2011	0	0
9/13/2011	0	0
10/20/2011	0	0
11/4/2011	0	0
12/23/2011	0.21	0
9/2/2015	0	NA
10/16/2015	0	0
11/12/2015	0	0
12/30/2015	0	0
1/22/2016	0	NM
2/24/2016	0	NM
3/14/2016	0	0.05
4/21/2016	0	0
5/20/2016	0.21	0.31
<b>6/22/2016</b>	<b>0.14</b>	<b>0.33</b>
<b>Total LNAPL Removed (gallons):</b>	<b>4.26</b>	<b>0.70</b>

**NOTES:**

LNAPL = Light non-aqueous phase liquid

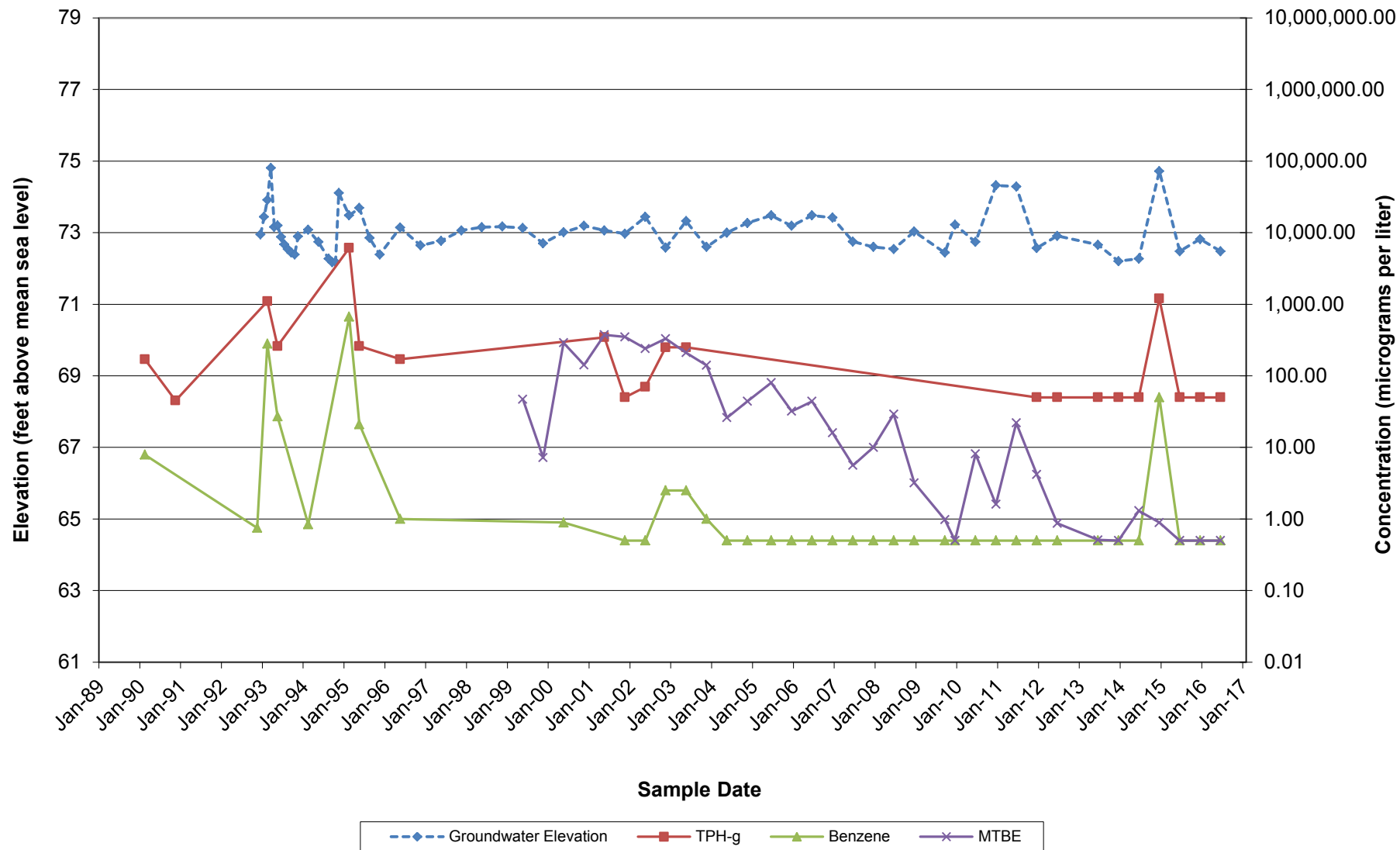
NA = Not applicable

NM = Not measured

**ATTACHMENT D**

**HYDROGRAPHS**

### Chart 1 - Hydrograph for Well MW-1



### Chart 2 - Hydrograph for Well MW-2

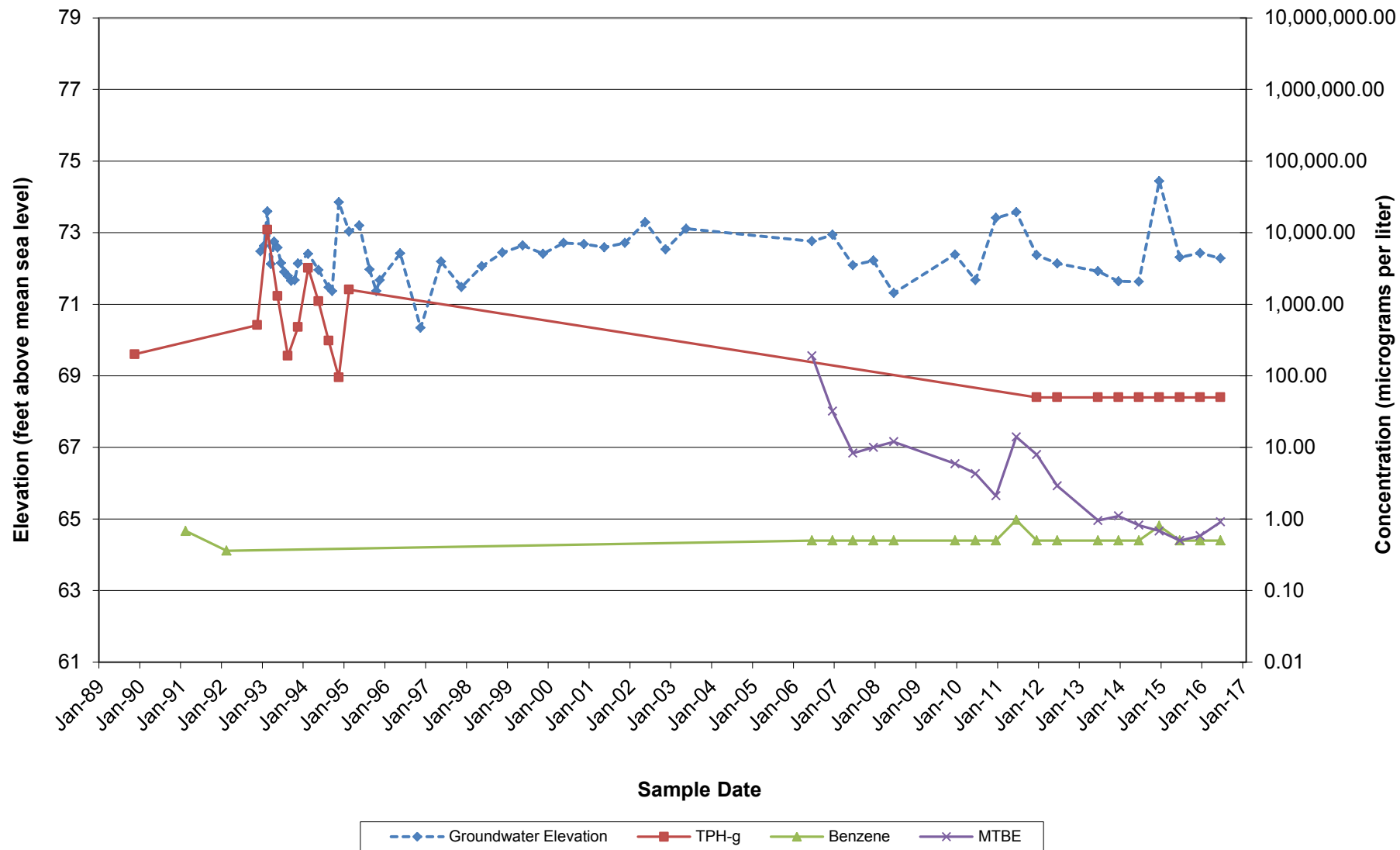




Chart 3 - Hydrograph for Well MW-3

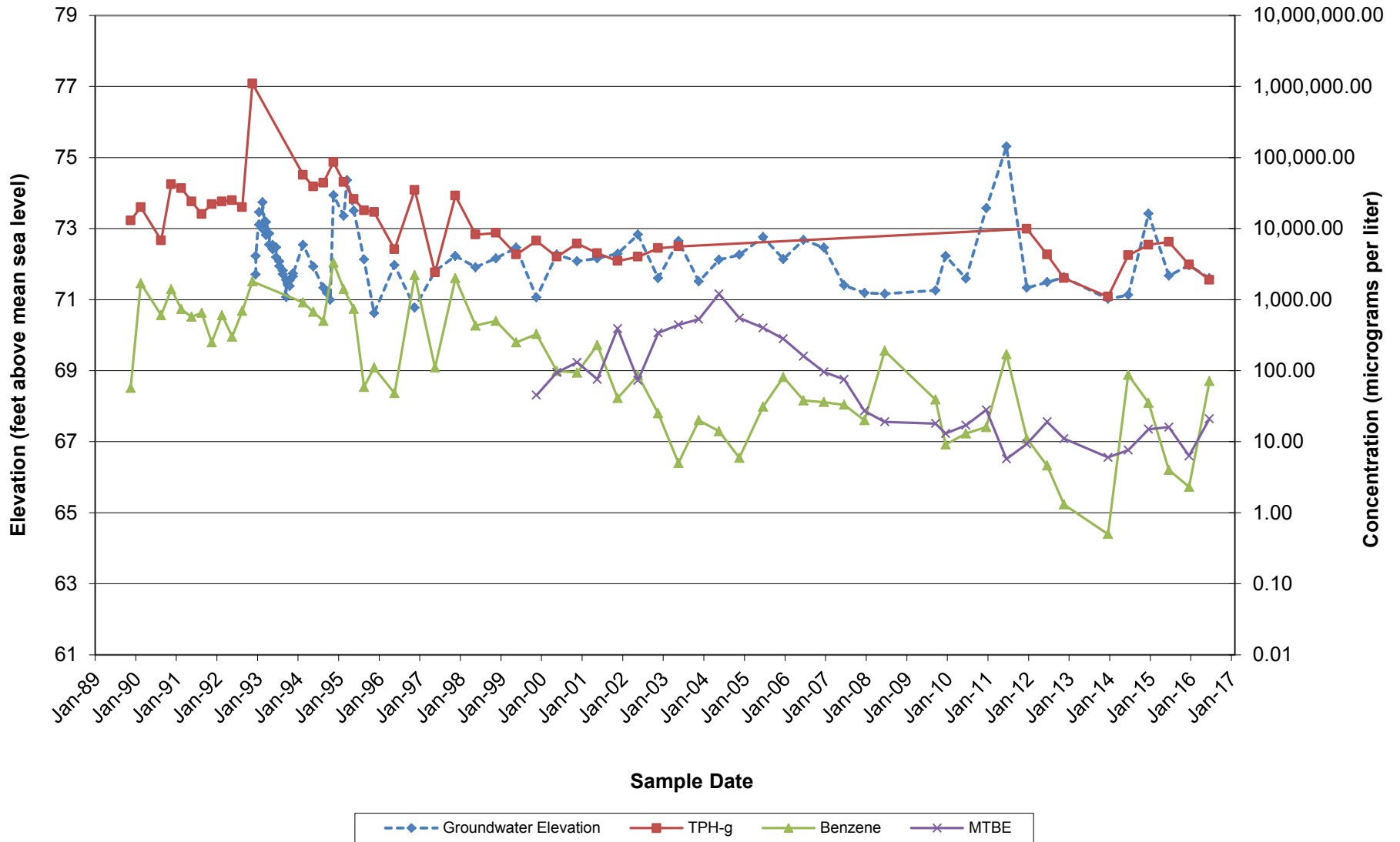


Chart 4 - Hydrograph for Well MW-4

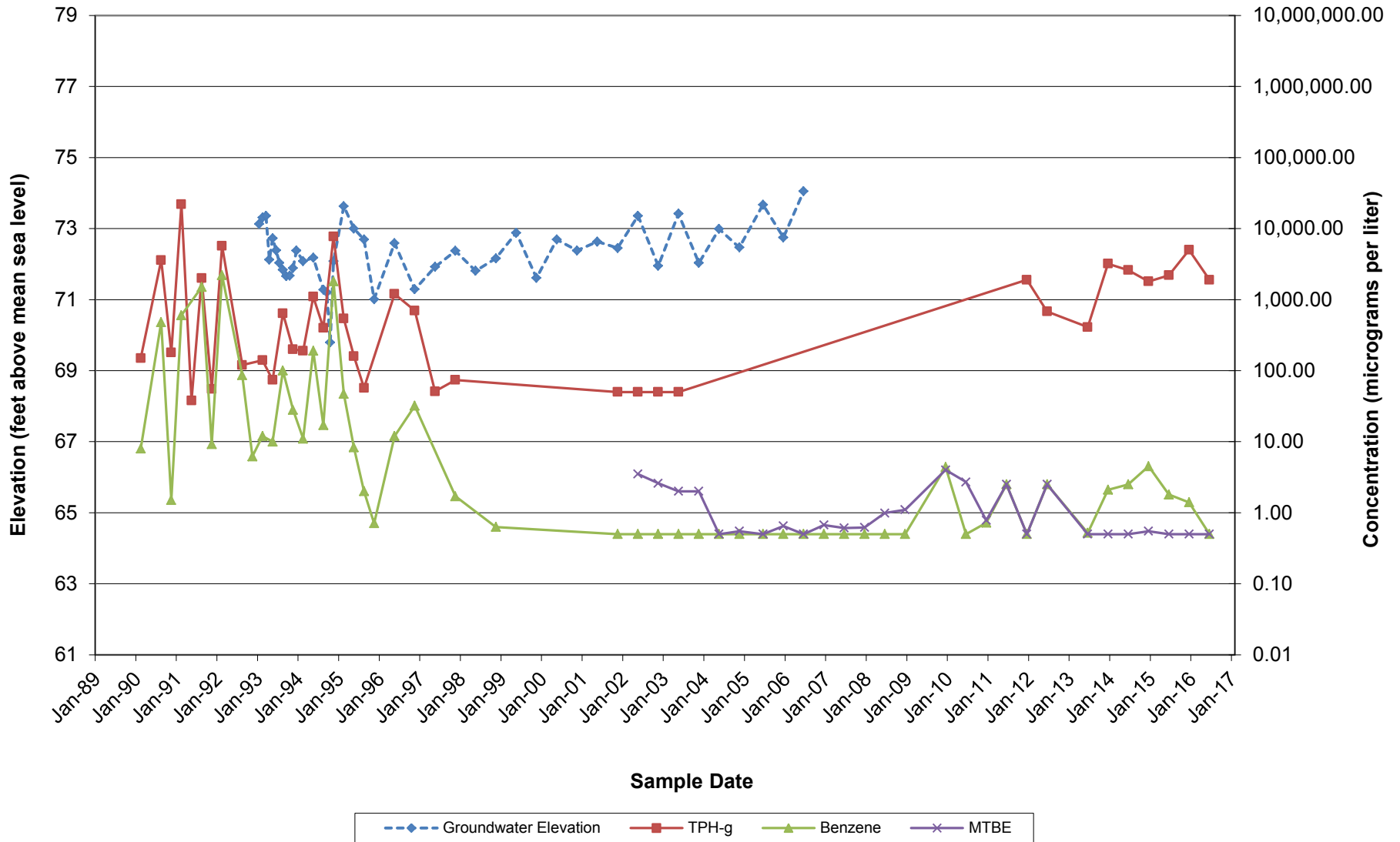


Chart 5 - Hydrograph for Well MW-5

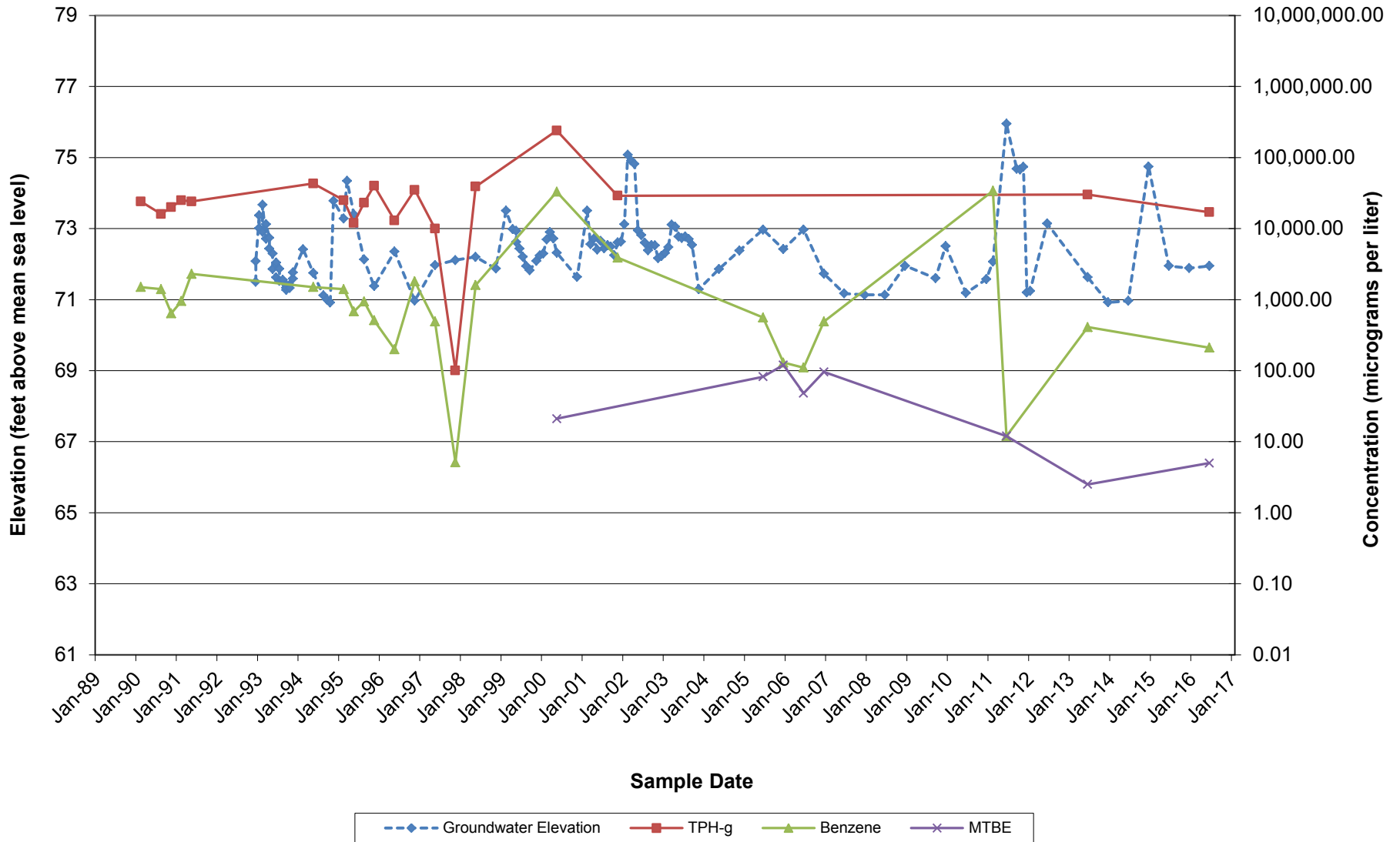


Chart 6 - Hydrograph for Well MW-6

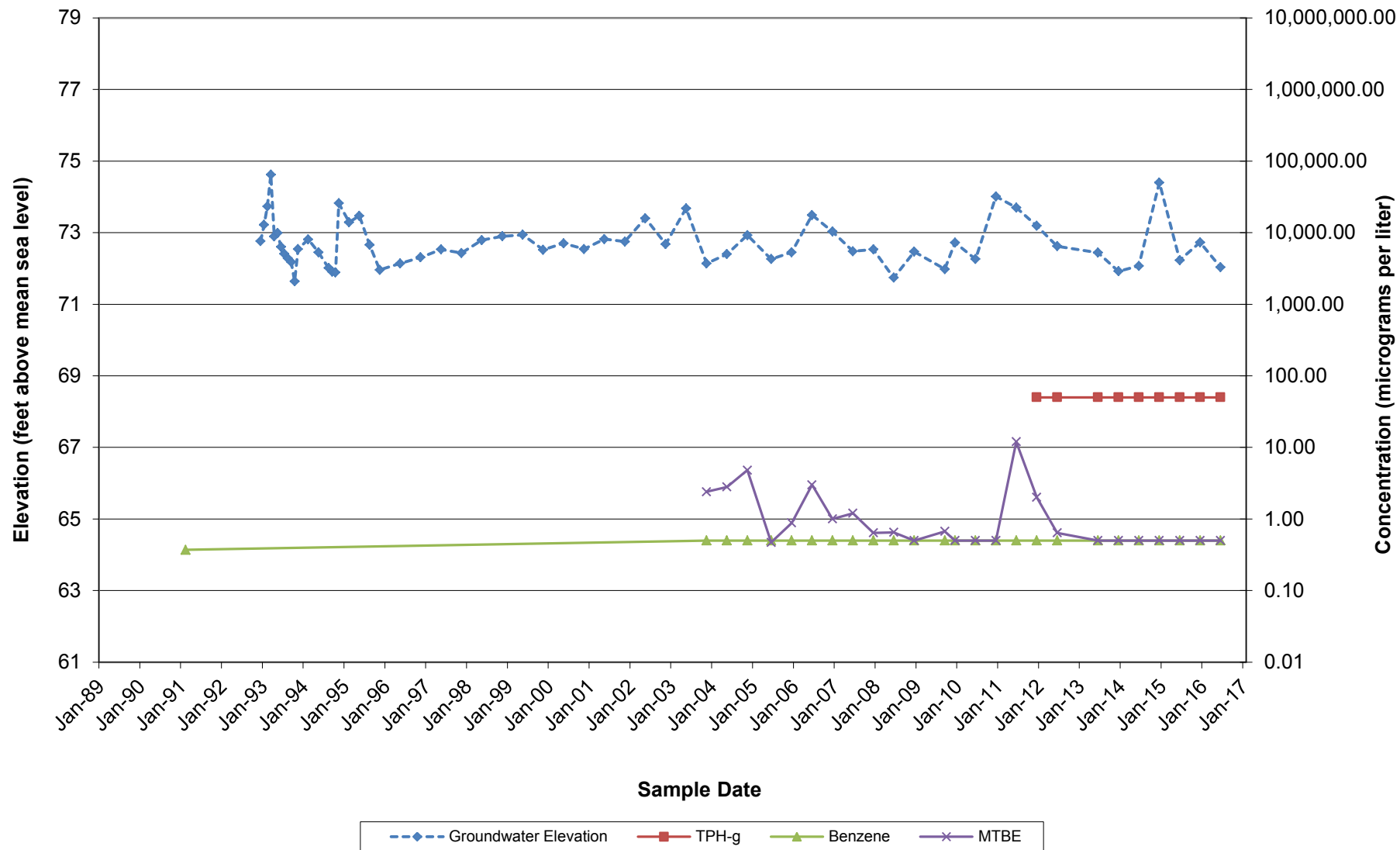


Chart 7 - Hydrograph for Well MW-7

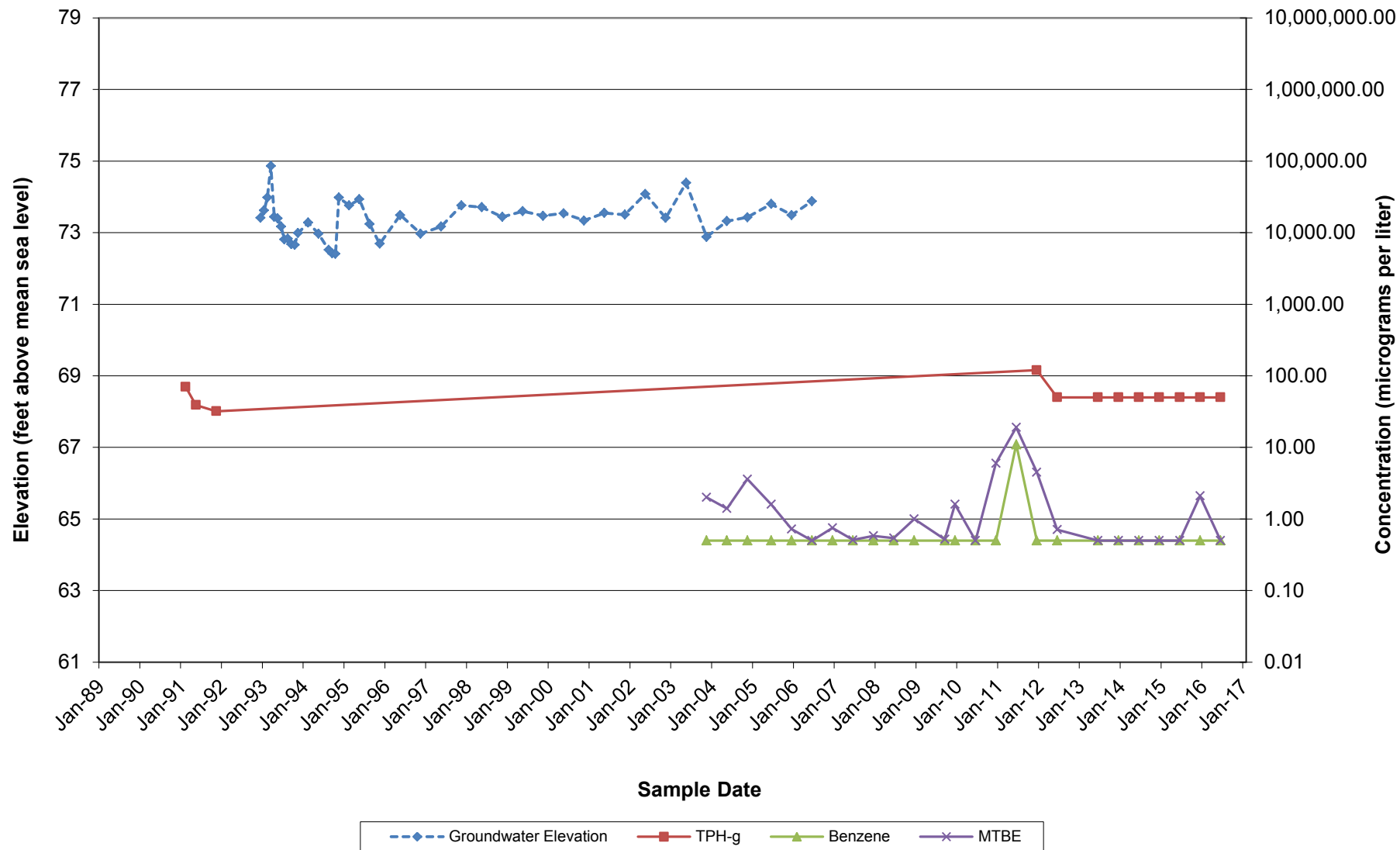
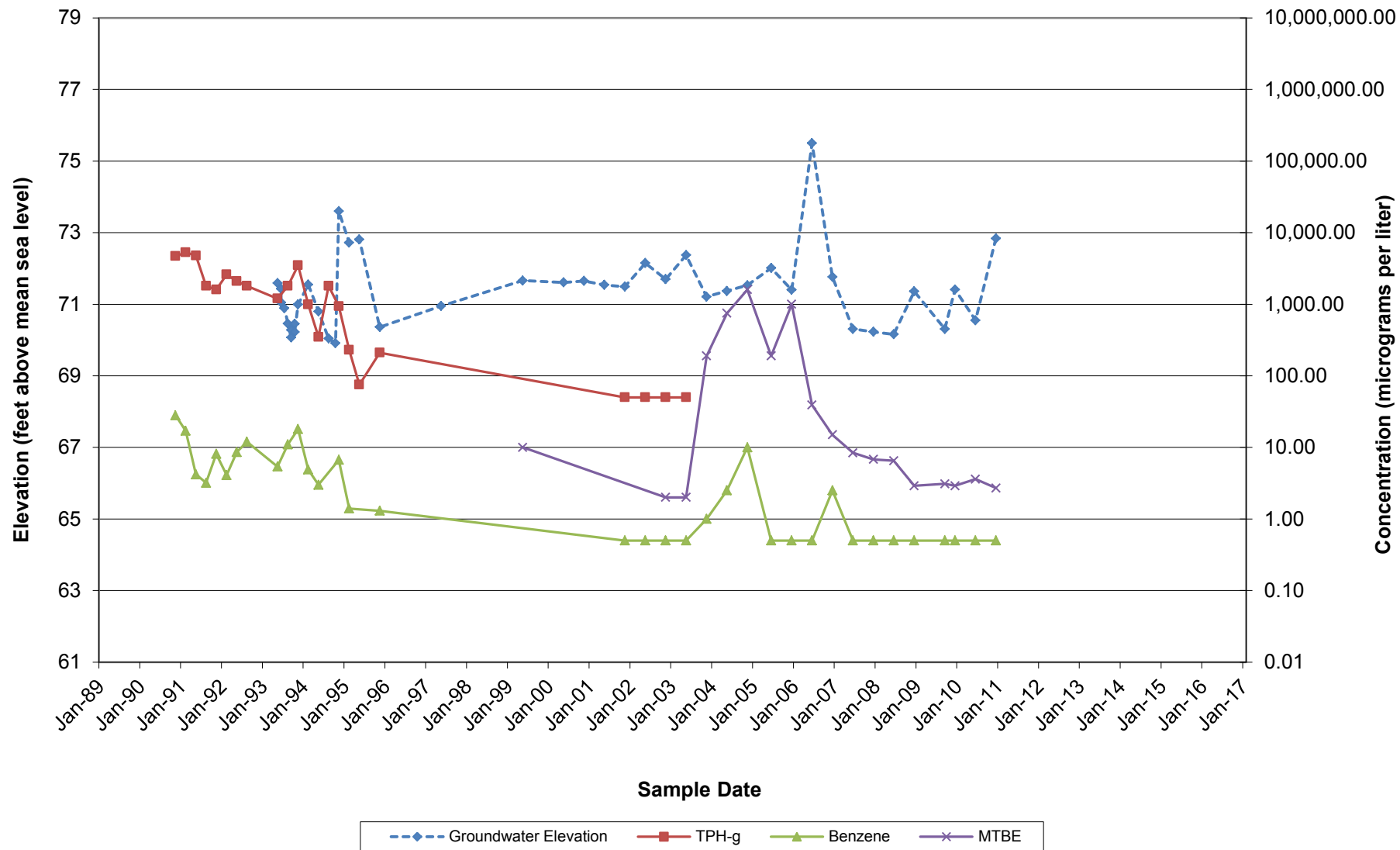


Chart 8 - Hydrograph for Well MW-8



### Chart 9 - Hydrograph for Well MW-9

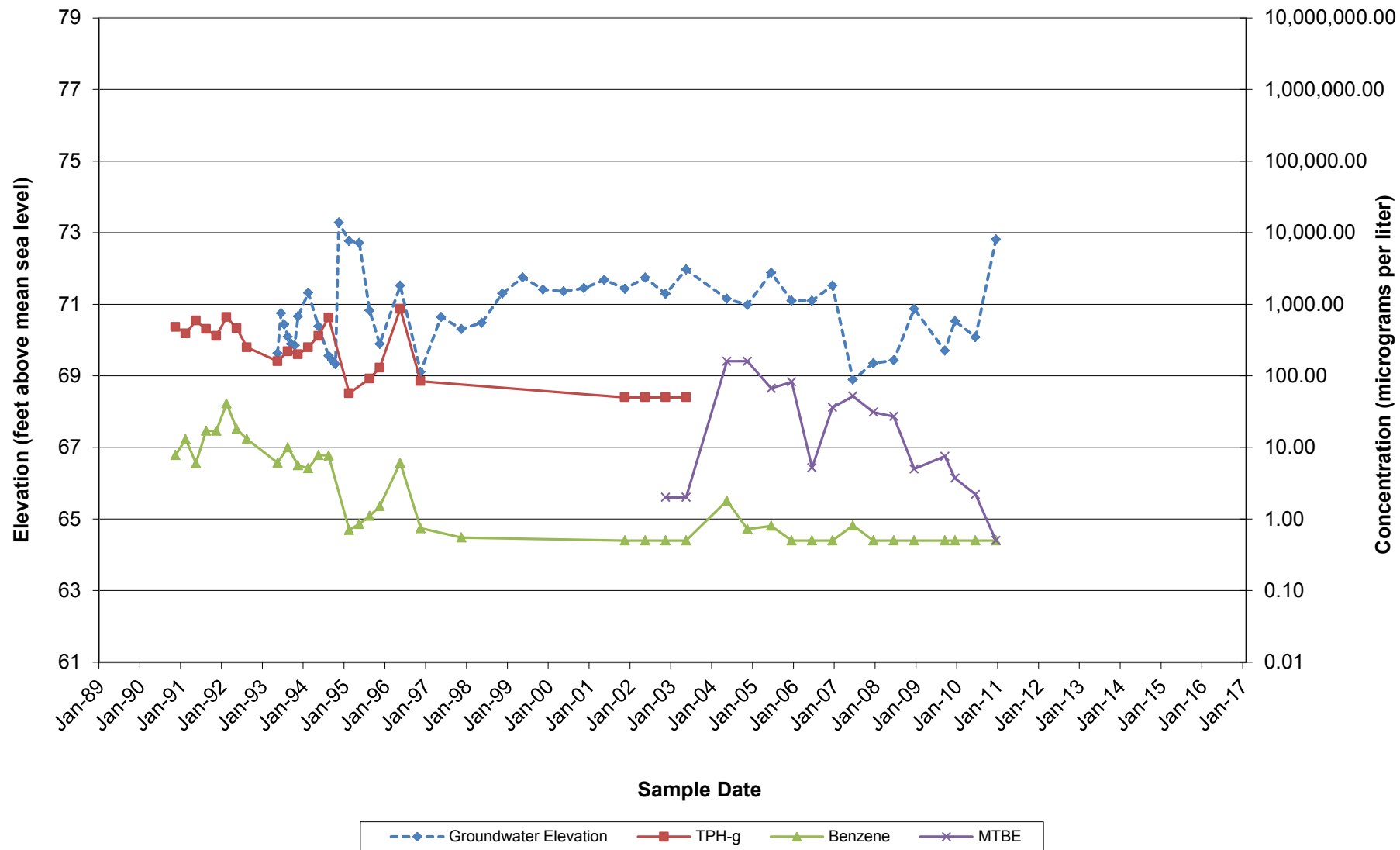


Chart 10 - Hydrograph for Well MW-10

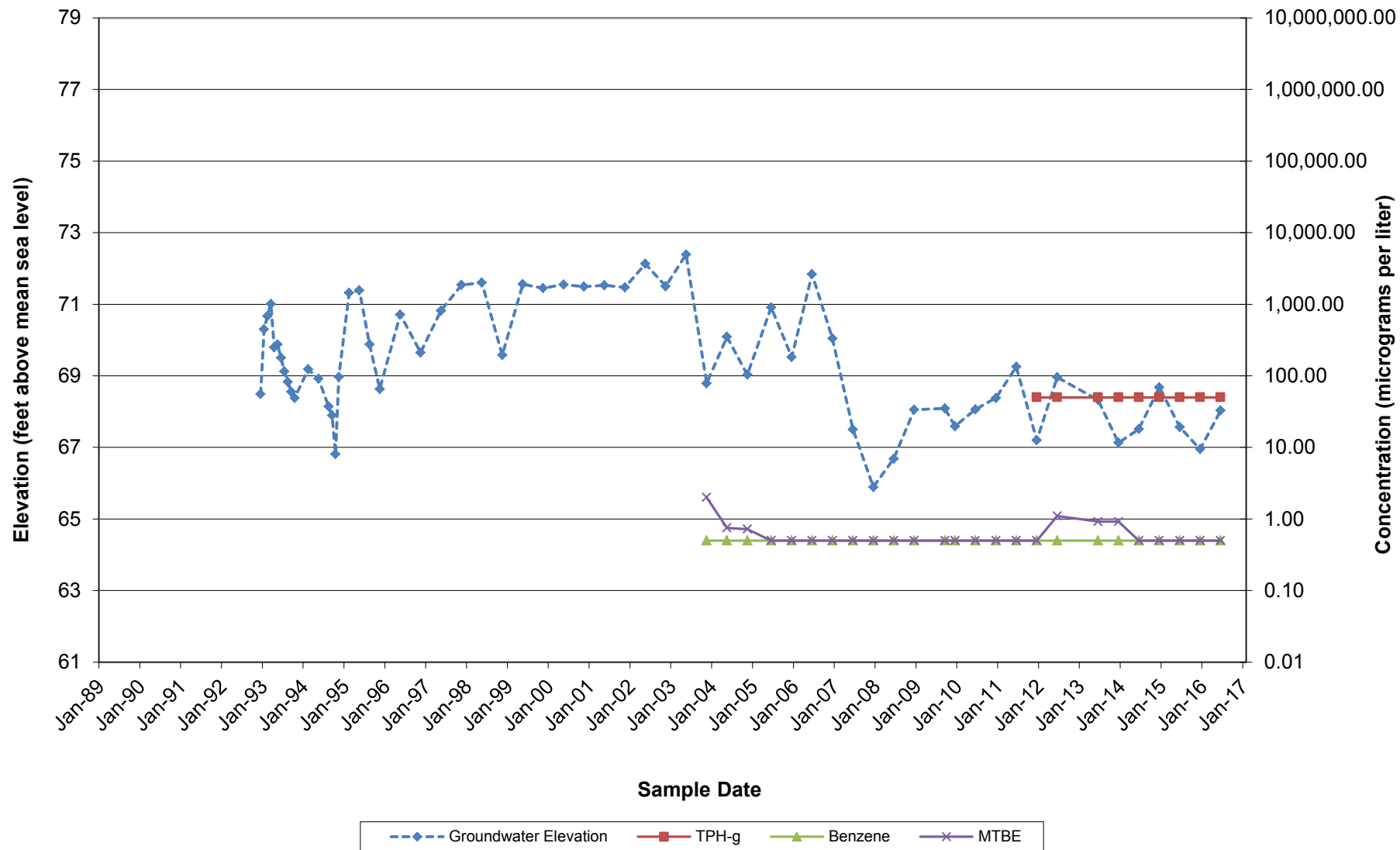




Chart 11 - Hydrograph for Well MW-11

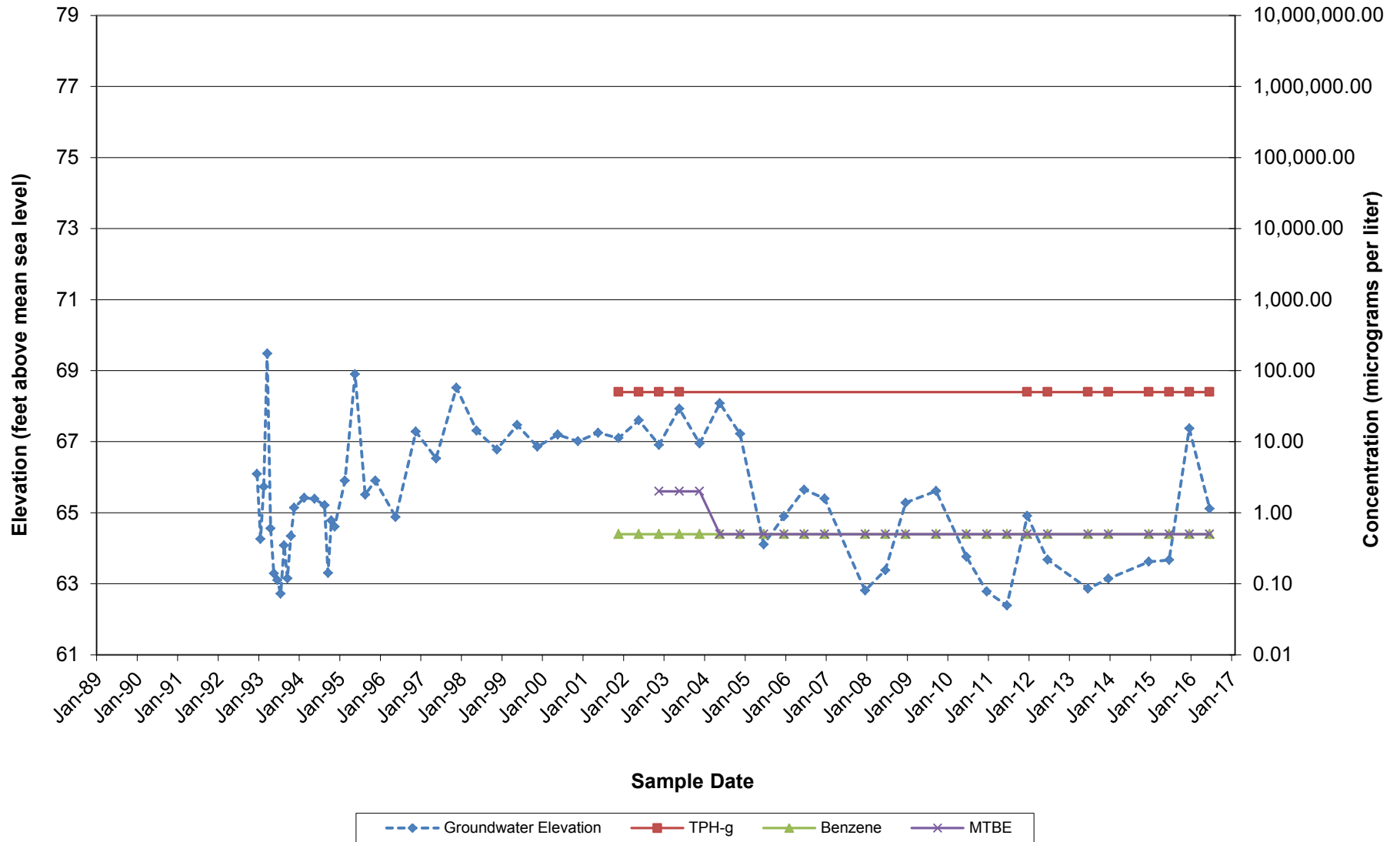


Chart 12 - Hydrograph for Well MW-12

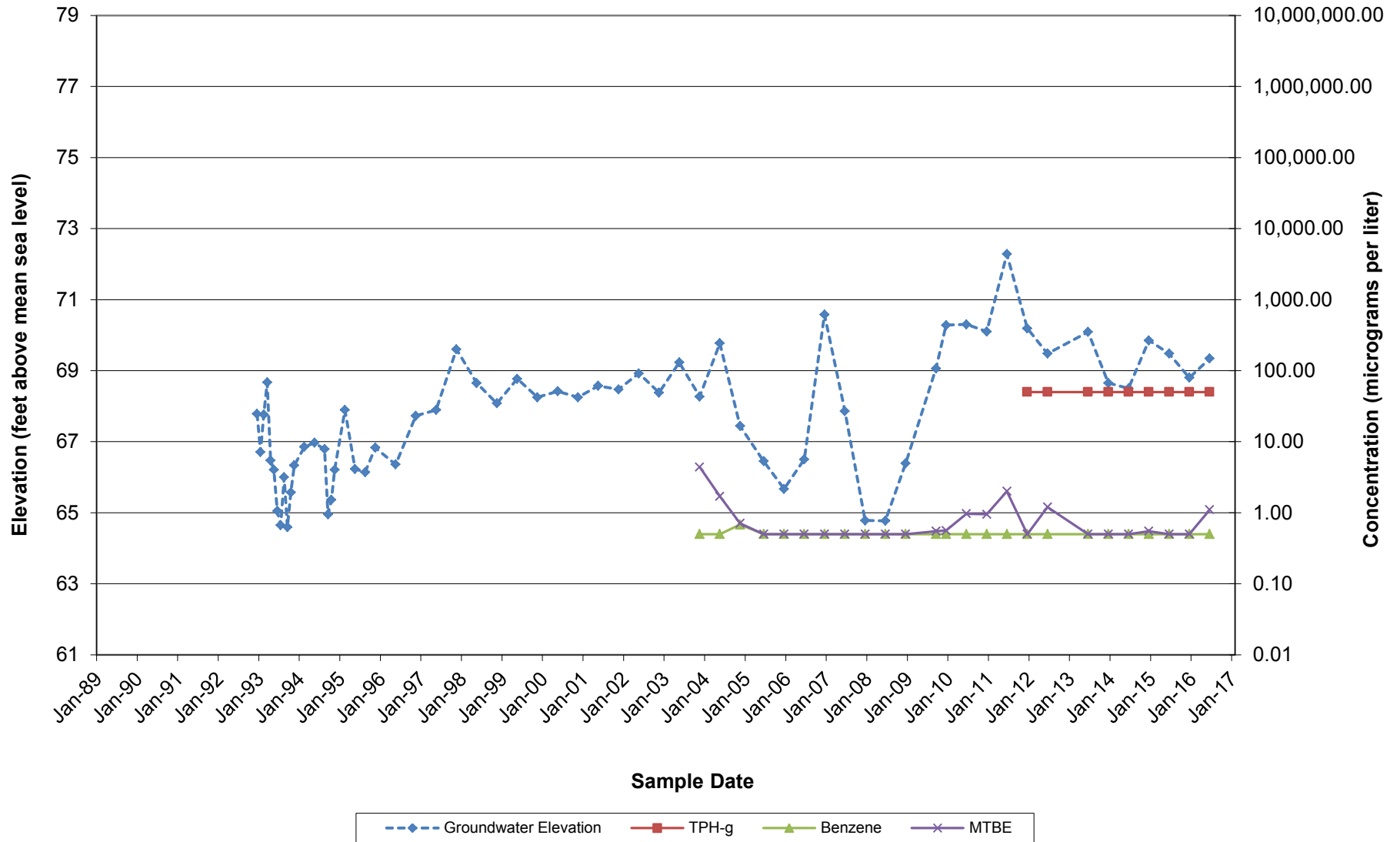
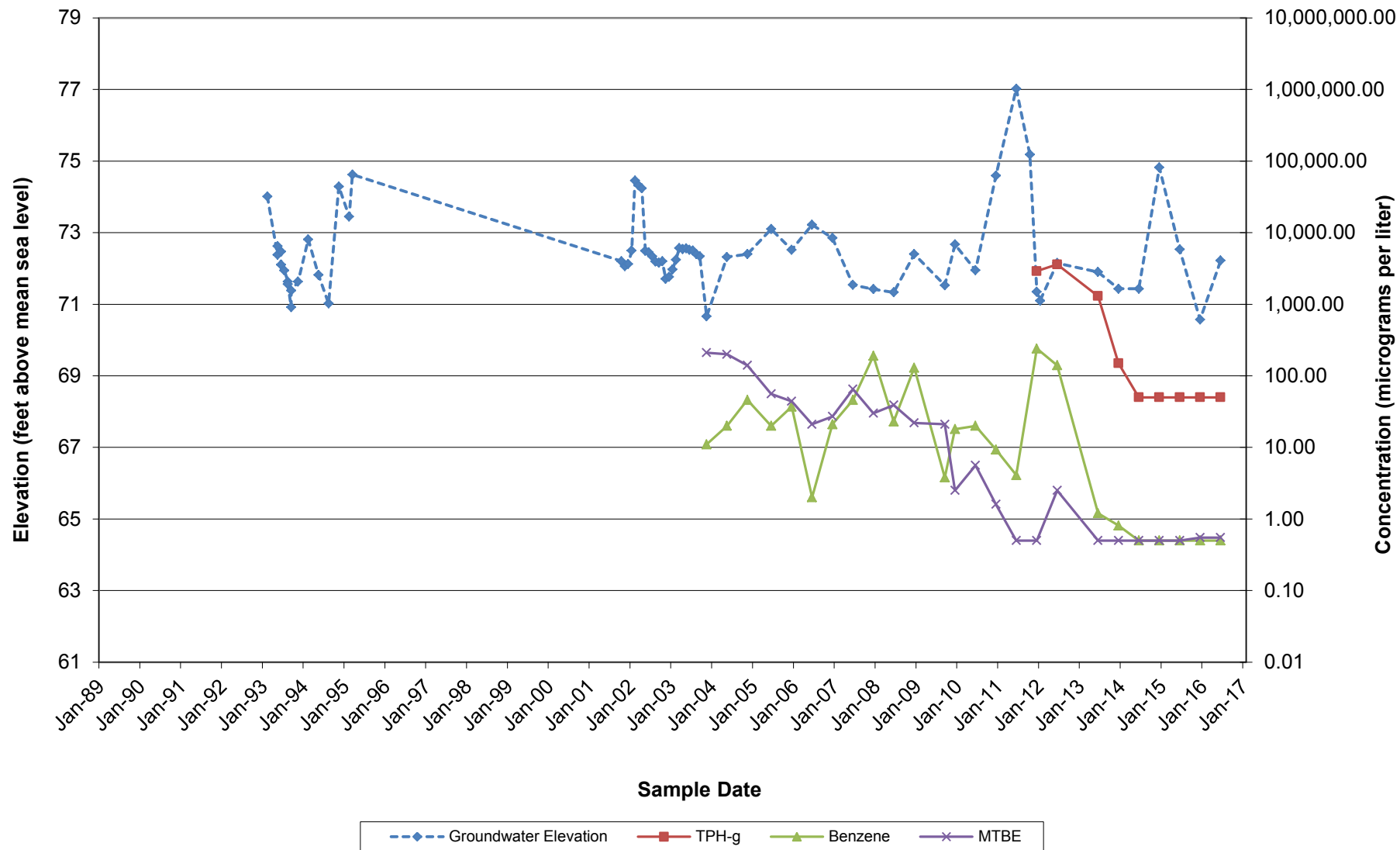


Chart 13 - Hydrograph for Well RW-1



**ATTACHMENT E**

**FIELD PROCEDURES AND  
FIELD LOGS**



# GETTLER-RYAN INC.



## TRANSMITTAL

January 29, 2016  
G-R #385648

TO: Mr. Chad Roper  
AECOM  
1220 Avenida Acaso  
Camarillo, California 93012

FROM: Deanna L. Harding  
Project Coordinator  
Gettler-Ryan Inc.  
6805 Sierra Court, Suite G  
Dublin, California 94568

RE: **Former Unocal 0746  
Chevron #351647  
3943 Broadway  
Oakland, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package <b>Monthly Event of January 22, 2016</b>

### COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/351647 0746

# WELL CONDITION STATUS SHEET

Client/  
Facility #: **Chevron #351647 / 0746**

Site Address: **3943 Broadway**

City: **Oakland, CA**

Job #: **385648**

Event Date: 1.22.16

Sampler: FT

WELL ID	Vault Frame Condition	Gasket/O-Ring <small>(M) Missing (R) Replaced</small>	Bolts <small>(M) Missing (R) Replaced</small>	Bolt Flanges <small>B=Broken S=Stripped R=Retaped</small>	Apron Condition <small>C=Cracked B=Broken G=Gone</small>	Grout Seal <small>(Deficient) Inches from TOC</small>	Casing <small>(Condition prevents tight cap seal)</small>	REPLACE LOCK <small>Y/<input checked="" type="checkbox"/></small>	REPLACE CAP <small>Y/<input checked="" type="checkbox"/></small>	WELL VAULT <small>Manufacture/Size/ # of Bolts</small>	Pictures Taken <small>Y/<input checked="" type="checkbox"/></small>
MW-5	OK					→		↓	↓	Emco   12"   2	
RW-1	OK					→		↓	↓	Emco   15"   3	

Comments \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
Site Address: 3943 Broadway  
City: Oakland, CA

Job Number: 385648  
Event Date: 1.22.16 (inclusive)  
Sampler: FT

Well ID: MW-5 Date Monitored: 1.22.16  
Well Diameter: 216 in.  
Total Depth: 50.16 ft.  
Depth to Water: 7.80 ft.  Check if water column is less than 0.50 ft.  
42.36 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.  
Depth to Water w/ 80% Recharge ((Height of Water Column x 0.20) + DTW): \_\_\_\_\_

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
Disposable Bailer \_\_\_\_\_  
Stainless Steel Bailer \_\_\_\_\_  
Stack Pump \_\_\_\_\_  
Peristaltic Pump \_\_\_\_\_  
QED Bladder Pump \_\_\_\_\_  
Other: \_\_\_\_\_

**Sampling Equipment:**  
Disposable Bailer \_\_\_\_\_  
Pressure Bailer \_\_\_\_\_  
Metal Filters \_\_\_\_\_  
Peristaltic Pump \_\_\_\_\_  
QED Bladder Pump \_\_\_\_\_  
Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>7.58</u>	ft
Depth to Water:	<u>7.80</u>	ft
Hydrocarbon Thickness:	<u>.22</u>	ft
Visual Confirmation/Description:	<u>Yes / Blk, oily</u>	
Skimmer / Absorbent Sock (circle one)		
Amt Removed from Skimmer:	<u>0</u>	ltr
Amt Removed from Well:	<u>0</u>	ltr
Water Removed:	<u>0</u>	ltr

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: MONTHLY PRODUCT GAUGING  
SKIMMER IN WELL  
M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_





# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
Site Address: 3943 Broadway  
City: Oakland, CA

Job Number: 385648  
Event Date: 1.22.16 (inclusive)  
Sampler: FT

Well ID: RW-1  
Well Diameter: 21(6) in.  
Total Depth: 16.34 ft.  
Depth to Water: 6.48 ft.

Date Monitored: 1.22.16

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

9.86 xVF          =          x3 case volume = Estimated Purge Volume:          gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:         

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
Stainless Steel Bailer \_\_\_\_\_  
Stack Pump \_\_\_\_\_  
Peristaltic Pump \_\_\_\_\_  
QED Bladder Pump \_\_\_\_\_  
Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
Pressure Bailer \_\_\_\_\_  
Metal Filters \_\_\_\_\_  
Peristaltic Pump \_\_\_\_\_  
QED Bladder Pump \_\_\_\_\_  
Other: \_\_\_\_\_

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
Sample Time/Date:          /          Water Color: \_\_\_\_\_ Odor: Y / N  
Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: MONTHLY PRODUCT GAUGING NO PRODUCT PRESENT IN H2O  
SOCK IN WELL  
M10

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER - RYAN INC.

## SORBENT SOCK EVALUATION FORM

Name: <b>FRANK TENNINONI</b>	Date: <b>1-22-16</b>	Project Number: <b>Chevron #351647</b>
Site Address: 3943 Broadway Oakland, CA	Well ID: <b>RW-1</b>	Weather: <b>RAIN</b>

1. Time absorbent sock removed from well for inspection: 1015

2. Condition of sock:

a. Length of sock showing product saturation: 8"

b. Length of sock showing dryness: 22"

c. Color of sock showing product saturation: BRN.

d. Weight of the removed sock: NA

e. Weight of new/clean/dry sock: NA

f. Difference in weight [ (d-e) to 0.01 ounces]: NA

3. Picture of sock removed from well taken:

4. Sock removed from well deposited into a waste drum:

Confirm drum is labeled: NA

How full is the drum (%): NA

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

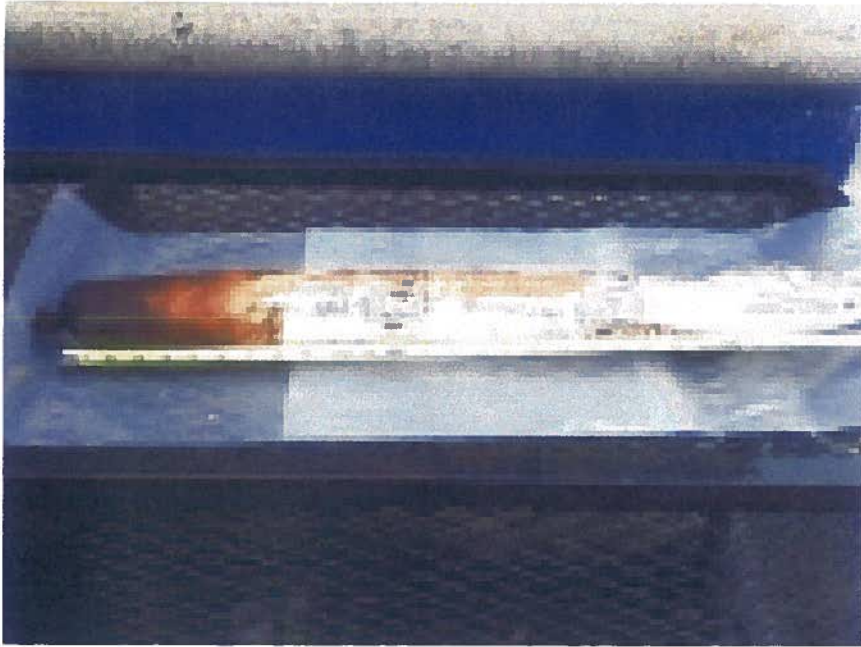
a. Depth to product: 0

b. Depth to water: 6.48

c. Thickness of product (b-a): 0

6. Size and type of sock installed: NA

7. Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**351647, Oakland RW-1**



# GETTLER-RYAN INC.



## TRANSMITTAL

March 4, 2016  
G-R #385648

TO: Mr. Chad Roper  
AECOM  
1220 Avenida Acaso  
Camarillo, California 93012

FROM: Deanna L. Harding  
Project Coordinator  
Gettler-Ryan Inc.  
6805 Sierra Court, Suite G  
Dublin, California 94568

RE: **Former Unocal 0746  
Chevron #351647  
3943 Broadway  
Oakland, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Monthly Event of February 24, 2016

### COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/351647 0746



## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
 Site Address: 3943 Broadway  
 City: Oakland, CA

Job Number: 385648  
 Event Date: 2-24-16 (inclusive)  
 Sampler: FT

Well ID: MW-5  
 Well Diameter: 0.6 in.  
 Total Depth: 30.16 ft.  
 Depth to Water: 9.07 ft.  
41.09 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 2-24-16

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____	(2400 hrs)
Time Completed:	_____	(2400 hrs)
Depth to Product:	<u>9.04</u>	ft
Depth to Water:	<u>9.07</u>	ft
Hydrocarbon Thickness:	<u>.03</u>	ft
Visual Confirmation/Description:	<u>BLK / Oily</u>	
Skimmer / Absorbant Sock (circle one)	_____	
Amt Removed from Skimmer:	<u>0</u>	ltr
Amt Removed from Well:	<u>0</u>	ltr
Water Removed:	<u>0</u>	ltr

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: / Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: MONTHLY PRODUCT GAUGING

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
 Site Address: 3943 Broadway  
 City: Oakland, CA

Job Number: 385648  
 Event Date: 2.24.16 (inclusive)  
 Sampler: FT

Well ID: RW-1  
 Well Diameter: 210 in.  
 Total Depth: 16.34 ft.  
 Depth to Water: 9.46 ft.  
6.88 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 2.24.16

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer/ Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: MONTHLY PRODUCT GAUGING

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_





# GETTLER-RYAN INC.

## SORBENT SOCK EVALUATION FORM

Name: <u>Frank Tennisoni</u>	Date: <u>2-24-16</u>	Project Number: <u>Chevron #351647</u>
Site Address: <u>3943 Broadway</u> <u>Oakland, CA</u>	Well ID: <u>RW-1</u>	Weather: <u>SUNNY</u>

1. Time absorbent sock removed from well for inspection: 1045

2. Condition of sock:

a. Length of sock showing product saturation: 6"

b. Length of sock showing dryness: 24"

c. Color of sock showing product saturation: Bru.

d. Weight of the removed sock: NA

e. Weight of new/clean/dry sock: NA

f. Difference in weight [ (d-e) to 0.01 ounces]: NA

3. Picture of sock removed from well taken:

4. Sock removed from well deposited into a waste drum:

Confirm drum is labeled: NA

How full is the drum (%): NA

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

a. Depth to product: 0

b. Depth to water: 9.07

c. Thickness of product (b-a): 0

6. Size and type of sock installed: NA

7. Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





# GETTLER-RYAN INC.



## TRANSMITTAL

March 22, 2016  
G-R #385648

TO: Mr. Chad Roper  
AECOM  
1220 Avenida Acaso  
Camarillo, California 93012

FROM: Deanna L. Harding  
Project Coordinator  
Gettler-Ryan Inc.  
6805 Sierra Court, Suite G  
Dublin, California 94568

RE: **Former Unocal 0746  
Chevron #351647  
3943 Broadway  
Oakland, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package <b>Monthly Event of March 14, 2016</b>

### COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/351647 0746

# WELL CONDITION STATUS SHEET

Client/  
 Facility #: Chevron #351647 / 0746  
 Site Address: 3943 Broadway  
 City: Oakland, CA

Job #: 385648  
 Event Date: 3/14/16  
 Sampler: JA

WELL ID	Vault Frame Condition	Gasket/O-Ring <small>(M) Missing (R) Replaced</small>	Bolts <small>(M) Missing (R) Replaced</small>	Bolt Flanges <small>B=Broken S=Stripped R=Retaped</small>	Apron Condition <small>C=Cracked B=Broken G=Gone</small>	Grout Seal <small>(Deficient) Inches from TOC</small>	Casing <small>(Condition prevents tight cap seal)</small>	REPLACE LOCK <small>Y/N</small>	REPLACE CAP <small>Y/N</small>	WELL VAULT <small>Manufacture/Size/ # of Bolts</small>	Pictures Taken <small>Y/N</small>
MW-5	OK							Y	Y	12" emc	Y
PW-1	OK							Y	Y	18" emc	Y

Comments \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
 Site Address: 3943 Broadway  
 City: Oakland, CA

Job Number: 385648  
 Event Date: 3/14/16 (inclusive)  
 Sampler: JB

Well ID: MW-5  
 Well Diameter: 2.6 in.  
 Total Depth: 50.16 ft.  
 Depth to Water: 6.45 ft.

Date Monitored: 3/14/16

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

43.71 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: 6.31 ft  
 Depth to Water: 6.45 ft  
 Hydrocarbon Thickness: .14 ft  
 Visual Confirmation/Description: Amber  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: MONTHLY PRODUCT GAUGING Skimmer in well

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
 Site Address: 3943 Broadway  
 City: Oakland, CA

Job Number: 385648  
 Event Date: 3/14/16 (inclusive)  
 Sampler: JH

Well ID: RW-1 Date Monitored: 3/14/16

Well Diameter: 2 1/6 in.  
 Total Depth: 16.39 ft.  
 Depth to Water: 6.20 ft.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

10.14 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

- Disposable Bailer \_\_\_\_\_
- Stainless Steel Bailer \_\_\_\_\_
- Stack Pump \_\_\_\_\_
- Peristaltic Pump \_\_\_\_\_
- QED Bladder Pump \_\_\_\_\_
- Other: \_\_\_\_\_

### Sampling Equipment:

- Disposable Bailer \_\_\_\_\_
- Pressure Bailer \_\_\_\_\_
- Metal Filters \_\_\_\_\_
- Peristaltic Pump \_\_\_\_\_
- QED Bladder Pump \_\_\_\_\_
- Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: 0 ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: MONTHLY PRODUCT GAUGING Sole in well



# GETTLER-RYAN INC.

## SORBENT SOCK EVALUATION FORM

Name: <u>J. Herrera</u>	Date: <u>3/19/16</u>	Project Number: <u>Chevron #351647</u>
Site Address: <u>3943 Broadway</u> <u>Oakland, CA</u>	Well ID: <u>BW-1</u>	Weather: <u>clear</u>

1. Time absorbent sock removed from well for inspection:

1230

2. Condition of sock:

a. Length of sock showing product saturation:

6"

b. Length of sock showing dryness:

24"

c. Color of sock showing product saturation:

Black/Brown

d. Weight of the removed sock:

15.1 oz

e. Weight of new/clean/dry sock:

10 oz

f. Difference in weight [ (d-e) to 0.01 ounces]:

5.1 oz

3. Picture of sock removed from well taken:



4. Sock removed from well deposited into a waste drum:



N/A

Confirm drum is labeled:       

How full is the drum (%):       

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

a. Depth to product:

0

b. Depth to water:

6.20

c. Thickness of product (b-a):

N/A

6. Size and type of sock installed:

N/A

7. Comments:

evaluation only





3/17/2016 / 10:48:42, RW-1 Sock.jpg



# GETTLER-RYAN INC.



## TRANSMITTAL

April 29, 2016  
G-R #385648

TO: Mr. Chad Roper  
AECOM  
1220 Avenida Acaso  
Camarillo, California 93012

FROM: Deanna L. Harding  
Project Coordinator  
Gettler-Ryan Inc.  
6805 Sierra Court, Suite G  
Dublin, California 94568

RE: **Former Unocal 0746  
Chevron #351647  
3943 Broadway  
Oakland, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package <b>Monthly Event of April 21, 2016</b>

### COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/351647 0746

# WELL CONDITION STATUS SHEET

Client/  
Facility #: Chevron #351647 / 0746  
Site Address: 3943 Broadway  
City: Oakland, CA

Job #: 385648  
Event Date: 4.21.16  
Sampler: FX

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/ <input checked="" type="radio"/>	REPLACE CAP <input checked="" type="radio"/>	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken <input checked="" type="radio"/> /N
MW-5	OK						→	↓	Y	Emco   12"   2	
RW-1	OK						→	↓	N	Emco   18"   3	

Comments \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
Site Address: 3943 Broadway  
City: Oakland, CA

Job Number: 385648  
Event Date: 4. 21.16 (inclusive)  
Sampler: FT

Well ID: MW-5  
Well Diameter: 216 in.  
Total Depth: 50.16 ft.  
Depth to Water: 8.63 ft.  
41.53 xVF = \_\_\_\_\_

Date Monitored: 4. 21.16

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]:         

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
Stainless Steel Bailer \_\_\_\_\_  
Stack Pump \_\_\_\_\_  
Peristaltic Pump \_\_\_\_\_  
QED Bladder Pump \_\_\_\_\_  
Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
Pressure Bailer \_\_\_\_\_  
Metal Filters \_\_\_\_\_  
Peristaltic Pump \_\_\_\_\_  
QED Bladder Pump \_\_\_\_\_  
Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
Time Completed: \_\_\_\_\_ (2400 hrs)  
Depth to Product: \_\_\_\_\_ ft  
Depth to Water: \_\_\_\_\_ ft  
Hydrocarbon Thickness: \_\_\_\_\_ ft  
Visual Confirmation/Description: \_\_\_\_\_  
Skimmer / Absorbent Sock (circle one)  
Amt Removed from Skimmer: \_\_\_\_\_ ltr  
Amt Removed from Well: \_\_\_\_\_ ltr  
Water Removed: \_\_\_\_\_ ltr

Start Time (purge): \_\_\_\_\_  
Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
Approx. Flow Rate: \_\_\_\_\_ gpm.  
Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
Water Color: \_\_\_\_\_ Odor: Y / N  
Sediment Description: \_\_\_\_\_  
Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: MONTHLY PRODUCT GAUGING

NEW 2" PLUG INSTALLED.  
SOCK IN WELL INSIDE A CAGE.

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug:



# GETTLER-RYAN INC.

## SORBENT SOCK EVALUATION FORM

Name: <u>FRANK TENNIONI</u>	Date: <u>4.21.16</u>	Project Number: <u>Chevron #351647</u>
Site Address: <u>3943 Broadway</u> <u>Oakland, CA</u>	Well ID: <u>MW-5</u>	Weather: <u>CLOUDY</u>

1. Time absorbent sock removed from well for inspection: 1200

2. Condition of sock:

a. Length of sock showing product saturation: 12"

b. Length of sock showing dryness: 0

c. Color of sock showing product saturation: LIGHT BLK

d. Weight of the removed sock: 1lb 15 1/2 oz.

e. Weight of new/clean/dry sock: NA

f. Difference in weight [ (d-e) to 0.01 ounces]: NA

3. Picture of sock removed from well taken:

4. Sock removed from well deposited into a waste drum:

Confirm drum is labeled: NA

How full is the drum (%): NA

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

a. Depth to product: 0

b. Depth to water: 8.63

c. Thickness of product (b-a): 0

6. Size and type of sock installed: 2" x 35" / TYPE UNKNOWN

7. Comments: WHOLE SOCK WAS SATURATED NO DRYNESS

INSTALLED NEW WELL PLUG.

\_\_\_\_\_

\_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
 Site Address: 3943 Broadway  
 City: Oakland, CA

Job Number: 385648  
 Event Date: 4.21.16 (inclusive)  
 Sampler: FT

Well ID: Rw-1  
 Well Diameter: 21/6 in.  
 Total Depth: 16.34 ft.  
 Depth to Water: 7.63 ft.  
8.71 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 4.21.16

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: 1  
 Approx. Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? 1 If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: MONTHLY PRODUCT GAUGING

SOCK IN WELL INSIDE A CAGE.

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER-RYAN Inc.

## SORBENT SOCK EVALUATION FORM

Name: <b>FRANK TEMLINON</b>	Date: <b>4. 21.16</b>	Project Number: Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: <b>RW-1</b>	Weather: <b>CLOUDY</b>

1. Time absorbent sock removed from well for inspection: 1130

2. Condition of sock:

a. Length of sock showing product saturation: 0

b. Length of sock showing dryness: 0

c. Color of sock showing product saturation: 0

d. Weight of the removed sock: 2 lbs 17 1/8 oz.

e. Weight of new/clean/dry sock: NA

f. Difference in weight [ (d-e) to 0.01 ounces]: NA

3. Picture of sock removed from well taken:

4. Sock removed from well deposited into a waste drum:

Confirm drum is labeled: NA

How full is the drum (%): NA

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

a. Depth to product: 0

b. Depth to water: 7.63

c. Thickness of product (b-a): 0

6. Size and type of sock installed: 4" x 40" / TYPE UNKNOWN

7. Comments: WHOLE SOCK WAS SATURATED WITH GROUND WATER  
NO EVIDENCE OF ANY PRODUCT SATURATION.





# GETTLER-RYAN INC.



## TRANSMITTAL

May 27, 2016  
G-R #385648

TO: Mr. Chad Roper  
AECOM  
1220 Avenida Acaso  
Camarillo, California 93012

FROM: Deanna L. Harding  
Project Coordinator  
Gettler-Ryan Inc.  
6805 Sierra Court, Suite G  
Dublin, California 94568

RE: **Former Unocal 0746  
Chevron #351647  
3943 Broadway  
Oakland, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Monthly Event of May 20, 2016

### COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/351647 0746

# WELL CONDITION STATUS SHEET

Client/  
 Facility #: Chevron #351647 / 0746  
 Site Address: 3943 Broadway  
 City: Oakland, CA

Job #: 385648  
 Event Date: 5.20.16  
 Sampler: FT

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Refaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW-5	OK					→		↓	↓	Emco 12" 3	
RW-1	OK					→		↓	↓	Emco 16" 12	

Comments \_\_\_\_\_

## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

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After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

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The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
 Site Address: 3943 Broadway  
 City: Oakland, CA

Job Number: 385648  
 Event Date: 5.20.16 (inclusive)  
 Sampler: FT

Well ID: MW-5  
 Well Diameter: 216 in.  
 Total Depth: 50.16 ft.  
 Depth to Water: 8.73 ft.  
41.43 xVF = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.

Date Monitored: 5.20.16

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: _____ ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_  
 Approx. Flow Rate: \_\_\_\_\_ gpm.  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_

Weather Conditions: \_\_\_\_\_  
 Water Color: \_\_\_\_\_ Odor: Y / N  
 Sediment Description: \_\_\_\_\_  
 Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: MONTHLY PRODUCT GAUGING

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER-RYAN INC.

## SORBENT SOCK EVALUATION FORM

Name: <u>FRANK TENUINONI</u>	Date: <u>5-20-16</u>	Project Number: <u>Chevron #351647</u>
Site Address: <u>3943 Broadway</u> <u>Oakland, CA</u>	Well ID: <u>MW-5</u>	Weather: <u>SUNNY / CLOUDY</u>

1. Time absorbent sock removed from well for inspection:

1030

2. Condition of sock:

a. Length of sock showing product saturation:

11"

b. Length of sock showing dryness:

NONE

c. Color of sock showing product saturation:

BLK

d. Weight of the removed sock:

116 8 7/8 oz.

e. Weight of new/clean/dry sock:

3 7/8 oz.

f. Difference in weight [ (d-e) to 0.01 ounces]:

116 5 oz.

3. Picture of sock removed from well taken:

4. Sock removed from well deposited into a waste drum:

Confirm drum is labeled:

yes

How full is the drum (%):

2%

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

a. Depth to product:

0.00

b. Depth to water:

8.73

c. Thickness of product (b-a):

0

6. Size and type of sock installed:

SOAK EASE 2" x 36"

7. Comments:

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# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648  
 Site Address: 3943 Broadway Event Date: 5.20.16 (inclusive)  
 City: Oakland, CA Sampler: FT

Well ID: RW-1 Date Monitored: 5.20.16  
 Well Diameter: 216 in.  
 Total Depth: 16.34 ft.  
 Depth to Water: 7.73 ft.  Check if water column is less than 0.50 ft.  
8.61 xVF \_\_\_\_\_ = \_\_\_\_\_ x3 case volume = Estimated Purge Volume: \_\_\_\_\_ gal.  
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: \_\_\_\_\_

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr

Start Time (purge): \_\_\_\_\_ Weather Conditions: \_\_\_\_\_  
 Sample Time/Date: \_\_\_\_\_ / \_\_\_\_\_ Water Color: \_\_\_\_\_ Odor: Y / N  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: \_\_\_\_\_  
 Did well de-water? \_\_\_\_\_ If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: \_\_\_\_\_

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: MONTHLY PRODUCT GAUGING

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER-RYAN INC.

## SORBENT SOCK EVALUATION FORM

Name: <b>FRANK TENNINONI</b>	Date: <b>5.20.16</b>	Project Number: Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: <b>RW-1</b>	Weather: <b>SUNNY / CLOUDY</b>

1. Time absorbent sock removed from well for inspection: 1000

2. Condition of sock:

a. Length of sock showing product saturation: NONE

b. Length of sock showing dryness: NONE

c. Color of sock showing product saturation: NONE

d. Weight of the removed sock: 216 8 1/4 oz.

e. Weight of new/clean/dry sock: 9 3/8 oz.

f. Difference in weight [(d-e) to 0.01 ounces]: 207 1/8 oz

3. Picture of sock removed from well taken:

4. Sock removed from well deposited into a waste drum:

Confirm drum is labeled: YES

How full is the drum (%): 2%

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

a. Depth to product: 0.00

b. Depth to water: 7.73

c. Thickness of product (b-a): 0

6. Size and type of sock installed: SOAK BASE 4" x 36"

7. Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# GETTLER-RYAN INC.



## TRANSMITTAL

July 1, 2016  
G-R #385648

TO: Ms. Tamera Rogers  
Arcadis  
6296 San Ignacio Ave., Suite C & D  
San Jose, California 95119

FROM: Deanna L. Harding  
Project Coordinator  
Gettler-Ryan Inc.  
6805 Sierra Court, Suite G  
Dublin, California 94568

RE: **Former Unocal 0746  
Chevron #351647  
3943 Broadway  
Oakland, California**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package <b>First Semi Annual Event of June 22, 2016</b>

### COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/351647 0746



# WELL CONDITION STATUS SHEET

Client/ Facility #: **Chevron #351647 / 0746**  
 Site Address: **3943 Broadway**  
 City: **Oakland, CA**

Job #: **385648**  
 Event Date: 6/22/16  
 Sampler: 34

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW-1	OK							N	N	12" Div	N
MW-2	OK									12" cmco	
MW-3	OK									8" Div	
MW-4	OK									12" cmco	
MW-5	OK										
MW-6	OK										
MW-7	OK										
MW-10	OK			2XB	OK					8" Universal	
MW-11	OK										
MW-12	OK									8" BK	
<del>MW-1</del> MW-1	OK							Y	Y	6" 18" cmco	

Comments \_\_\_\_\_

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## STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
 Site Address: 3943 Broadway  
 City: Oakland, CA

Job Number: 385648  
 Event Date: 6/22/16 (inclusive)  
 Sampler: JH

Well ID: MW-1  
 Well Diameter: 8.6 in.  
 Total Depth: 54.03 ft.  
 Depth to Water: 8.06 ft.  
45.97 xVF = 0.17 = 7.81

Date Monitored: 6/22/16

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 23.44 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.25

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump X  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer X  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbent Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr

Start Time (purge): 0510  
 Sample Time/Date: 0540 / 6/22/16  
 Approx. Flow Rate: 2 gpm.  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Weather Conditions: Foggy  
 Water Color: Clear Odor: Y / 10  
 Sediment Description: None  
 DTW @ Sampling: 19.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0514</u>	<u>8</u>	<u>6.72</u>	<u>875</u>	<u>17.7</u>	/	/
<u>0518</u>	<u>16</u>	<u>6.65</u>	<u>843</u>	<u>17.6</u>	/	/
<u>0522</u>	<u>24</u>	<u>6.49</u>	<u>821</u>	<u>17.3</u>	/	/

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)

### COMMENTS:

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648  
 Site Address: 3943 Broadway Event Date: 6/22/16 (inclusive)  
 City: Oakland, CA Sampler: JH

Well ID: MW-2 Date Monitored: 6/22/16  
 Well Diameter: 2.6 in.  
 Total Depth: 19.82 ft.  
 Depth to Water: 9.04 ft.  Check if water column is less than 0.50 ft.  
10.78 xVF 0.17 = 1.83 x3 case volume = Estimated Purge Volume: 5.49 gal.

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.19

### Purge Equipment:

Disposable Bailer X  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer X  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr

Start Time (purge): 0720 Weather Conditions: Foggy  
 Sample Time/Date: 0750 / 6/22/16 Water Color: Clean Odor: Y / 0  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: None  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 10.90

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS / umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0725</u>	<u>2</u>	<u>6.68</u>	<u>613</u>	<u>18.4</u>	/	/
<u>0730</u>	<u>4</u>	<u>6.55</u>	<u>605</u>	<u>18.2</u>	/	/
<u>0735</u>	<u>5.5</u>	<u>6.43</u>	<u>601</u>	<u>18.1</u>	/	/

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-2</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)

### COMMENTS:

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
 Site Address: 3943 Broadway  
 City: Oakland, CA

Job Number: 385648  
 Event Date: 6/22/16 (inclusive)  
 Sampler: JH

Well ID: MW-3  
 Well Diameter: 216 in.  
 Total Depth: 51.59 ft.  
 Depth to Water: 9.81 ft.  
41.78 xVF .17 = 7.10

Date Monitored: 6/22/16

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 21.30 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 18.16

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump X  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer X  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr

Start Time (purge): 0810  
 Sample Time/Date: 0840 / 6/22/16  
 Approx. Flow Rate: 1-2 gpm.  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Weather Conditions: Clear  
 Water Color: Cloudy Odor: GIN Strong  
 Sediment Description: Light  
 DTW @ Sampling: 12.05

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS / µmhos/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>0815</u>	<u>7</u>	<u>6.96</u>	<u>871</u>	<u>18.8</u>		
<u>0820</u>	<u>14</u>	<u>6.91</u>	<u>843</u>	<u>18.4</u>		
<u>0825</u>	<u>21</u>	<u>6.84</u>	<u>825</u>	<u>18.1</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)</u>

### COMMENTS:

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
 Site Address: 3943 Broadway  
 City: Oakland, CA

Job Number: 385648  
 Event Date: 6/22/16 (inclusive)  
 Sampler: JH

Well ID: MW-4  
 Well Diameter: 6/6 in.  
 Total Depth: 49.40 ft.  
 Depth to Water: 9.08 ft.

Date Monitored: 6/22/16

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.  
40.32 xVF .17 = 6.85 x3 case volume = Estimated Purge Volume: 20.56 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.14

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump X  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer X  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr

Start Time (purge): 0640 Weather Conditions: Foggy  
 Sample Time/Date: 0710 / 6/22/16 Water Color: Clear Odor: 0/N Light  
 Approx. Flow Rate: 1-2 gpm. Sediment Description: None  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 12.71

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS mS / µmhos/cm)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0644</u>	<u>7</u>	<u>6.86</u>	<u>934</u>	<u>18.1</u>		
<u>0648</u>	<u>14</u>	<u>6.80</u>	<u>922</u>	<u>17.9</u>		
<u>0653</u>	<u>21</u>	<u>6.72</u>	<u>906</u>	<u>17.6</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW 4</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS: \_\_\_\_\_

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER - RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
 Site Address: 3943 Broadway  
 City: Oakland, CA

Job Number: 385648  
 Event Date: 6/22/16 (inclusive)  
 Sampler: JH

Well ID: MW-5  
 Well Diameter: 216 in.  
 Total Depth: 50.16 ft.  
 Depth to Water: 9.43 ft.  
40.73 xVF .17 = 6.92

Date Monitored: 6/22/16

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.57  
 x3 case volume = Estimated Purge Volume: 20.77 gal.

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump X  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer X  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	<u>0</u> ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	_____
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 0855  
 Sample Time/Date: 0925 / 6/22/16  
 Approx. Flow Rate: 1-2 gpm.  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Weather Conditions: Clean  
 Water Color: Cloudy Odor: 0 / N Strong  
 Sediment Description: Lutite  
 DTW @ Sampling: 13.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0900</u>	<u>7</u>	<u>6.52</u>	<u>1610</u>	<u>18.4</u>	/	/
<u>0905</u>	<u>14</u>	<u>6.47</u>	<u>1602</u>	<u>18.3</u>	/	/
<u>0911</u>	<u>21</u>	<u>6.41</u>	<u>1586</u>	<u>18.2</u>	/	/

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)</u>

COMMENTS: SOCK EVALUATED, WEIGHED AND PLACED IN HOLDING DRUM  
NEW SOCK INSTALLED

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER - RYAN INC.

## SORBENT SOCK EVALUATION FORM

Name: <u>J. Heenan</u>	Date: <u>6/22/16</u>	Project Number: <u>Chevron #351647</u>
Site Address: <u>3943 Broadway Oakland, CA</u>	Well ID: <u>MW-5</u>	Weather: <u>Clear</u>

1. Time absorbent sock removed from well for inspection: 0410

2. Condition of sock:

a. Length of sock showing product saturation: 36"

b. Length of sock showing dryness: 0"

c. Color of sock showing product saturation: Yellow

d. Weight of the removed sock: 19.20

e. Weight of new/clean/dry sock: 5.07

f. Difference in weight [ (d-e) to 0.01 ounces]: 14.13

3. Picture of sock removed from well taken:

4. Sock removed from well deposited into a waste drum:

Confirm drum is labeled: yes

How full is the drum (%): 10%

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

a. Depth to product: 0

b. Depth to water: 9.43

c. Thickness of product (b-a): 0

6. Size and type of sock installed: 2" x 36" Soakase

7. Comments: SOCK EVALUATED, WEIGHED AND PLACED IN HOLDING DRUM  
NEW SOCK INSTALLED







# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648  
 Site Address: 3943 Broadway Event Date: 6/22/16 (inclusive)  
 City: Oakland, CA Sampler: JH

Well ID: MW-6 Date Monitored: 6/22/16  
 Well Diameter: 216 in.  
 Total Depth: 51.22 ft.  
 Depth to Water: 7.91 ft.  Check if water column is less than 0.50 ft.  
43.31 xVF .17 = 7.36 x3 case volume = Estimated Purge Volume: 22.00 gal.  
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.57

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

**Purge Equipment:**  
 Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump X  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

**Sampling Equipment:**  
 Disposable Bailer X  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr

Start Time (purge): 0430 Weather Conditions: DARK Foggy  
 Sample Time/Date: 0500 / 6/22/16 Water Color: Cloudy Odor: Oil N Light  
 Approx. Flow Rate: 2 gpm. Sediment Description: Light  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 14.40

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS / cmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0434</u>	<u>8</u>	<u>6.43</u>	<u>662</u>	<u>18.3</u>	/	/
<u>0438</u>	<u>14</u>	<u>6.40</u>	<u>640</u>	<u>18.1</u>	/	/
<u>0442</u>	<u>22</u>	<u>6.29</u>	<u>631</u>	<u>17.9</u>	/	/

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS: \_\_\_\_\_

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
 Site Address: 3943 Broadway  
 City: Oakland, CA

Job Number: 385648  
 Event Date: 6/22/16 (inclusive)  
 Sampler: JH

Well ID: MW-7  
 Well Diameter: 6 in.  
 Total Depth: 49.26 ft.  
 Depth to Water: 6.99 ft.  
40.47 xVF .17 = 6.87

Date Monitored: 6/22/16

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 20.63 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.88

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump X  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer X  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 0555  
 Sample Time/Date: 0625 / 6/22/16  
 Approx. Flow Rate: 1-2 gpm.  
 Did well de-water? No If yes, Time: \_\_\_\_\_

Weather Conditions: Foggy  
 Water Color: Clean Odor: Oil / L. g. H<sub>2</sub>O  
 Sediment Description: None  
 Volume: \_\_\_\_\_ gal. DTW @ Sampling: 13.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>0558</u>	<u>6</u>	<u>6.60</u>	<u>537</u>	<u>18.8</u>	/	/
<u>0601</u>	<u>12</u>	<u>6.53</u>	<u>523</u>	<u>18.6</u>	/	/
<u>0606</u>	<u>21</u>	<u>6.48</u>	<u>509</u>	<u>18.3</u>	/	/

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS: \_\_\_\_\_

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
 Site Address: 3943 Broadway  
 City: Oakland, CA

Job Number: 385648  
 Event Date: 6/22/16 (inclusive)  
 Sampler: JH

Well ID: MW-10  
 Well Diameter: 216 in.  
 Total Depth: 21.74 ft.  
 Depth to Water: 13.58 ft.  
8.16 xVF .17 = 1.38

Date Monitored: 6/22/16

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 4.16 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.21

### Purge Equipment:

Disposable Bailer X  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer X  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 1155  
 Sample Time/Date: 1225 / 6/22/16  
 Approx. Flow Rate: — gpm.  
 Did well de-water? no If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Weather Conditions: Clear  
 Water Color: cloudy Odor: Y10  
 Sediment Description: Niac  
 DTW @ Sampling: 15.04

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1200</u>	<u>1.5</u>	<u>7.65</u>	<u>540</u>	<u>17.8</u>	/	/
<u>1205</u>	<u>3.0</u>	<u>7.53</u>	<u>534</u>	<u>17.6</u>	/	/
<u>1208</u>	<u>4.0</u>	<u>7.48</u>	<u>522</u>	<u>17.3</u>	/	/

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-10</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)</u>

COMMENTS: \_\_\_\_\_

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648  
 Site Address: 3943 Broadway Event Date: 6/22/16 (inclusive)  
 City: Oakland, CA Sampler: JH

Well ID: MW-11 Date Monitored: 6/22/16  
 Well Diameter: 2.6 in.  
 Total Depth: 19.10 ft.  
 Depth to Water: 13.07 ft.  Check if water column is less than 0.50 ft.  
6.03 xVF .17 = 1.02 x3 case volume = Estimated Purge Volume: 3.07 gal.  
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.27

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

### Purge Equipment:

Disposable Bailer X  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer X  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr

Start Time (purge): 1110 Weather Conditions: Clean  
 Sample Time/Date: 1140 / 6/22/16 Water Color: Clean Odor: Y / 0  
 Approx. Flow Rate: \_\_\_\_\_ gpm. Sediment Description: None  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal. DTW @ Sampling: 14.20

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1113</u>	<u>1</u>	<u>6.40</u>	<u>811</u>	<u>19.4</u>		
<u>1116</u>	<u>2</u>	<u>6.44</u>	<u>819</u>	<u>19.3</u>		
<u>1120</u>	<u>3</u>	<u>6.47</u>	<u>824</u>	<u>19.2</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-11</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>BC LABS</u>	<u>TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/ EDB/EDC(8260)/ETHANOL(8260B)</u>

### COMMENTS:

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
 Site Address: 3943 Broadway  
 City: Oakland, CA

Job Number: 385648  
 Event Date: 6/22/16 (inclusive)  
 Sampler: JH

Well ID: MW-12  
 Well Diameter: 2.6 in.  
 Total Depth: 17.65 ft.  
 Depth to Water: 10.27 ft.  
7.38 xVF = .17 = 1.25

Date Monitored: 6/22/16

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 3.76 gal.  
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.74

### Purge Equipment:

Disposable Bailer X  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer X  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbant Sock (circle one)	
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 1025  
 Sample Time/Date: 1055 / 6/22/16  
 Approx. Flow Rate: — gpm.  
 Did well de-water? No If yes, Time: \_\_\_\_\_

Weather Conditions: Clear  
 Water Color: Clear Odor: Y / 0  
 Sediment Description: None  
 Volume: \_\_\_\_\_ gal. DTW @ Sampling: 11.20

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS / umhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1030</u>	<u>1.5</u>	<u>6.83</u>	<u>691</u>	<u>19.1</u>	/	/
<u>1035</u>	<u>3.0</u>	<u>6.80</u>	<u>698</u>	<u>19.0</u>	/	/
<u>1040</u>	<u>4.0</u>	<u>6.71</u>	<u>706</u>	<u>18.8</u>	/	/

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-12</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS: \_\_\_\_\_

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: \_\_\_\_\_ Add/Replaced Plug: \_\_\_\_\_



# GETTLER-RYAN INC.

## WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746  
 Site Address: 3943 Broadway  
 City: Oakland, CA

Job Number: 385648  
 Event Date: 6/22/16 (inclusive)  
 Sampler: JH

Well ID: RW-1  
 Well Diameter: 21(6) in.  
 Total Depth: 16.34 ft.  
 Depth to Water: 8.41 ft.  
2.93 xVF 1.50 = 11.89

Date Monitored: 6/22/16

Volume	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
Factor (VF)	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

Check if water column is less than 0.50 ft.

x3 case volume = Estimated Purge Volume: 35.68 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.99

### Purge Equipment:

Disposable Bailer \_\_\_\_\_  
 Stainless Steel Bailer \_\_\_\_\_  
 Stack Pump X  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

### Sampling Equipment:

Disposable Bailer X  
 Pressure Bailer \_\_\_\_\_  
 Metal Filters \_\_\_\_\_  
 Peristaltic Pump \_\_\_\_\_  
 QED Bladder Pump \_\_\_\_\_  
 Other: \_\_\_\_\_

Time Started: \_\_\_\_\_ (2400 hrs)  
 Time Completed: \_\_\_\_\_ (2400 hrs)  
 Depth to Product: \_\_\_\_\_ ft  
 Depth to Water: \_\_\_\_\_ ft  
 Hydrocarbon Thickness: \_\_\_\_\_ ft  
 Visual Confirmation/Description: \_\_\_\_\_  
 Skimmer / Absorbant Sock (circle one)  
 Amt Removed from Skimmer: \_\_\_\_\_ ltr  
 Amt Removed from Well: \_\_\_\_\_ ltr  
 Water Removed: \_\_\_\_\_ ltr

Start Time (purge): 0940  
 Sample Time/Date: 1010 / 6/22/16  
 Approx. Flow Rate: 3 gpm.  
 Did well de-water? No If yes, Time: \_\_\_\_\_ Volume: \_\_\_\_\_ gal.

Weather Conditions: Clear  
 Water Color: Cloudy Odor: 0 / N Strong  
 Sediment Description: L.M.W  
 DTW @ Sampling: 9.25

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS / cmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0944</u>	<u>12</u>	<u>6.43</u>	<u>425</u>	<u>19.4</u>		
<u>0948</u>	<u>24</u>	<u>6.40</u>	<u>438</u>	<u>18.8</u>		
<u>0952</u>	<u>36</u>	<u>6.35</u>	<u>447</u>	<u>18.5</u>		

### LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>RW-1</u>	<u>6</u> x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS: SOCK EVALUATED, WEIGHED AND PLACED IN HOLDING DRUM  
NEW SOCK INSTALLED

Add/Replaced Gasket: \_\_\_\_\_ Add/Replaced Bolt: \_\_\_\_\_ Add/Replaced Lock: X Add/Replaced Plug: X 6"



# GETTLER-RYAN INC.

## SORBENT SOCK EVALUATION FORM

Name: <u>J. Herzog</u>	Date: <u>6/22/16</u>	Project Number: Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: <u>RW-1</u>	Weather: <u>clean</u>

1. Time absorbent sock removed from well for inspection:

0415

2. Condition of sock:

a. Length of sock showing product saturation:

36"

b. Length of sock showing dryness:

0"

c. Color of sock showing product saturation:

yellow

d. Weight of the removed sock:

41.76 oz

e. Weight of new/clean/dry sock:

9.02

f. Difference in weight [ (d-e) to 0.01 ounces]:

32.76 oz

3. Picture of sock removed from well taken:



4. Sock removed from well deposited into a waste drum:



Confirm drum is labeled:

yes

How full is the drum (%):

10%

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

a. Depth to product:

0

b. Depth to water:

8.41

c. Thickness of product (b-a):

0

6. Size and type of sock installed:

3" x 36" Soakase

7. Comments: SOCK EVALUATED, WEIGHED AND PLACED IN HOLDING DRUM  
NEW SOCK INSTALLED



351647 Oakland 6-22-16, RW-1 Sock




6/23/2016 / 10:44:28, IMG\_3829.JPG

CHAIN OF CUSTODY FORM

Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583

COC 1 of 1

Union Oil Site ID: <u>0746</u>	Union Oil Consultant: <u>Arcadis</u>	ANALYSES REQUIRED TPH - Diesel by EPA 8015 TPH - G by <del>GC/MS</del> GC-MS C6-C12 BTEX/MTBE/ <del>OXYS</del> by EPA 8260B Ethanol by EPA 8260B EPA 8260B Full List with OXYS FDB/EX/E260
Site Global ID: <u>T0600101171</u>	Consultant Contact: <u>J. Rogers</u>	
Site Address: <u>5943 Broadway, Oakland CA</u>	Consultant Phone No.: <u>408-757-2013</u>	
Union Oil PM: <u>N. Arceneaux</u>	Sampling Company: <u>Gettler Ryan</u>	
Union Oil PM Phone No.: <u>925-750-6912</u>	Sampled By (PRINT): <u>S. Herron</u>	
Charge Code: <u>NWRTB-0 251647 -0-LAB</u>	Sampler Signature: 	
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.		BC Laboratories, Inc. Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

Turnaround Time (TAT):  
 Standard  24 Hours   
 48 Hours  72 Hours

Special Instructions

SAMPLE ID				Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS C6-C12	BTEX/MTBE/ <del>OXYS</del> by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	FDB/EX/E260	Notes / Comments
Field Point Name	Matrix	Depth	Date (yyymmdd)									
<u>QA</u>	<u>W-S-A</u>		<u>110622</u>	<u>-</u>	<u>2</u>		<u>X</u>	<u>X</u>				
<u>MW-1</u>	<u>W-S-A</u>			<u>0540</u>	<u>6</u>				<u>X</u>	<u>X</u>		
<u>MW-2</u>	<u>W-S-A</u>			<u>0750</u>								
<u>MW-3</u>	<u>W-S-A</u>			<u>0840</u>								
<u>MW-4</u>	<u>W-S-A</u>			<u>0710</u>								
<u>MW-5</u>	<u>W-S-A</u>			<u>0925</u>								
<u>MW-6</u>	<u>W-S-A</u>			<u>0500</u>								
<u>MW-7</u>	<u>W-S-A</u>			<u>0625</u>								
<u>MW-10</u>	<u>W-S-A</u>			<u>1225</u>								
<u>MW-11</u>	<u>W-S-A</u>			<u>1140</u>								
<u>MW-12</u>	<u>W-S-A</u>			<u>1055</u>								
<u>RLW-1</u>	<u>W-S-A</u>			<u>1010</u>								

Relinquished By:  Company: <u>Gettler Ryan</u> Date / Time: <u>6/22/16 1600</u>	Relinquished By: _____ Company: _____ Date / Time: _____	Relinquished By: _____ Company: _____ Date / Time: _____
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Received By: <u>Shayla Bogan</u> Company: <u>BeLAB</u> Date / Time: <u>6-23-16 1500</u>	Received By: _____ Company: _____ Date / Time: _____	Received By: _____ Company: _____ Date / Time: _____
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**ATTACHMENT F**

**LABORATORY ANALYTICAL  
REPORT AND CHAIN-OF-  
CUSTODY DOCUMENTATION**



Date of Report: 06/29/2016

Tamera Rogers

Arcadis

6296 San Ignacio Ave, Suite C&D  
San Jose, CA 95119

Client Project: 351647  
BCL Project: 0389  
BCL Work Order: 1617339  
Invoice ID: B239252

Enclosed are the results of analyses for samples received by the laboratory on 6/23/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers  
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

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CHAIN OF CUSTODY FORM

Union Oil Company of California 6101 Bollinger Canyon Road San Ramon, CA 94583

COC \_\_\_\_\_ of \_\_\_\_\_

Union Oil Site ID: 0746 Site Global ID: T0600101471 Site Address: 3943 Broadway, Oakland CA	Union Oil Consultant: Arcadis Consultant Contact: J. Rogers Consultant Phone No.: 408-757-2013 Sampling Company: Gettler Ryan Sampled By (PRINT): S. Heeron Sampler Signature:	Union Oil PM: N. Arceneaux Union Oil PM Phone No.: 925-790-6912 Charge Code: NWRB-0 351647 -0- LAB This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	ANALYSES REQUIRED Turnaround Time (TAT): Standard <input checked="" type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/> Special Instructions	TPH - Diesel by EPA 8015 TPH - G by EPA 8260B BTEX/MTBE/Oil by EPA 8260B Ethanol by EPA 8260B EPA 8260B Full List with OXYS FDB/EDC/8260	Notes / Comments CHIEF DISTRIBUTION SUB-OUT
SAMPLE ID			ANALYSES REQUIRED		Notes / Comments
Field Point Name	Matrix	Depth	Date (yy/mm/dd)	Sample Time	# of Containers
QA	W-S-A	-1	160622	0540	2
MW-1	W-S-A	-2		0750	6
MW-2	W-S-A	-3		0840	
MW-3	W-S-A	-4		0710	
MW-4	W-S-A	-5		0925	
MW-5	W-S-A	-6		0500	
MW-6	W-S-A	-7		0625	
MW-7	W-S-A	-8		1225	
MW-10	W-S-A	-9		1140	
MW-11	W-S-A	-10		1055	
MW-12	W-S-A	-11		1010	
RW-1	W-S-A	-12			
Relinquished By:  Bethany BeLabb			Date / Time: 6/22/16 1600		Company: BeLabb
Received By:  Bethany BeLabb			Date / Time: 6-23-16 1500		Company: BeLabb
Relinquished By:  Bethany BeLabb			Date / Time: 6-23-16 1830		Company: BeLabb
Received By:  Bethany BeLabb			Date / Time: 6/23/16 18:50		Company: BeLabb
Relinquished By:  Bethany BeLabb			Date / Time: 6/23/16 2145		Company: BeLabb
Received By:  Bethany BeLabb			Date / Time: 6-23-16 2145		Company: BeLabb

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 16-17339

SHIPPING INFORMATION: Fed Ex  UPS  Ontrac  Hand Delivery  BC Lab Field Service  Other  (Specify) \_\_\_\_\_

SHIPPING CONTAINER: Ice Chest  None  Box  Other  (Specify) \_\_\_\_\_

FREE LIQUID: YES  NO  W/S

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments: \_\_\_\_\_

Intact? Yes  No  Intact? Yes  No

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

COC Received:  YES  NO

Emissivity: 0.97 Container: 60A Thermometer ID: 208 Date/Time: 6-23 2000

Temperature: (A) 0.4 °C / (C) 0.1 °C Analyst Init: ARL

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6</sup>										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK <u>094</u>		<u>AB</u>								
40ml VOA VIAL <u>096</u>			<u>A→F</u>	<u>A→F</u>	<u>A→F</u>	<u>A→F</u>	<u>A→F</u>	<u>A→F</u>	<u>A→F</u>	<u>A→F</u>
QT EPA 1664										
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										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_

Sample Numbering Completed By: JOL Date/Time: 6-24-16 0839 Rev 21 05/23/2016

A = Actual / C = Corrected [S:\WPDoc\WordPerfect\LAB\_DOC\SF\FORMS\SAMRECrev 20]



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 of 2

Submission #: 10-17339

SHIPPING INFORMATION: Fed Ex, UPS, Ontrac, Hand Delivery, BC Lab Field Service. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO (W) S

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, Intact? Yes/No

All samples received? Yes/No. All samples containers intact? Yes/No. Description(s) match COC? Yes/No

COC Received: YES/NO. Emissivity: 0.97. Container: 40A. Thermometer ID: 208. Date/Time: 6-23-2000. Analyst Init: ARL. Temperature: (A) 0.4 °C / (C) 0.1 °C

Table with columns: SAMPLE CONTAINERS, SAMPLE NUMBERS (1-10). Rows include: QT PE UNPRES, 4oz / 8oz / 16oz PE UNPRES, 2oz Cr6, QT INORGANIC CHEMICAL METALS, INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz, PT CYANIDE, PT NITROGEN FORMS, PT TOTAL SULFIDE, 2oz. NITRATE / NITRITE, PT TOTAL ORGANIC CARBON, PT CHEMICAL OXYGEN DEMAND, PIA PHENOLICS, 40ml VOA VIAL TRAVEL BLANK, 40ml VOA VIAL (with handwritten 'A2F A2F'), QT EPA 1664, 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, 40ml EPA 547, 40ml EPA 531.1, 8oz EPA 548, QT EPA 549, QT EPA 8015M, QT EPA 8270, 8oz / 16oz / 32oz AMBER, 8oz / 16oz / 32oz JAR, SOIL SLEEVE, PCB VIAL, PLASTIC BAG, TEDLAR BAG, FERROUS IRON, ENCORE, SMART KIT, SUMMA CANISTER

Comments: Sample Numbering Completed By: [Signature] Date/Time: 6-24-16 0839 Rev 21 05/23/2016 [SAWPDoc\Word\Perfect\LAB\_DOCS\FORMS\SISAMRECrev 20]





Arcadis  
6296 San Ignacio Ave, Suite C&D  
San Jose, CA 95119

**Reported:** 06/29/2016 16:02  
**Project:** 0389  
**Project Number:** 351647  
**Project Manager:** Tamera Rogers

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1617339-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0746 <b>Sampling Location:</b> --- <b>Sampling Point:</b> QA-W-160622 <b>Sampled By:</b> GRD	<b>Receive Date:</b> 06/23/2016 21:45 <b>Sampling Date:</b> 06/22/2016 00:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Trip Blank Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): QA Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1617339-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0746 <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-1-W-160622 <b>Sampled By:</b> GRD	<b>Receive Date:</b> 06/23/2016 21:45 <b>Sampling Date:</b> 06/22/2016 05:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1617339-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0746 <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-2-W-160622 <b>Sampled By:</b> GRD	<b>Receive Date:</b> 06/23/2016 21:45 <b>Sampling Date:</b> 06/22/2016 07:50 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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**Reported:** 06/29/2016 16:02  
**Project:** 0389  
**Project Number:** 351647  
**Project Manager:** Tamera Rogers

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1617339-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0746 <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-3-W-160622 <b>Sampled By:</b> GRD	<b>Receive Date:</b> 06/23/2016 21:45 <b>Sampling Date:</b> 06/22/2016 08:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1617339-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0746 <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-4-W-160622 <b>Sampled By:</b> GRD	<b>Receive Date:</b> 06/23/2016 21:45 <b>Sampling Date:</b> 06/22/2016 07:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1617339-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0746 <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-5-W-160622 <b>Sampled By:</b> GRD	<b>Receive Date:</b> 06/23/2016 21:45 <b>Sampling Date:</b> 06/22/2016 09:25 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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**Reported:** 06/29/2016 16:02  
**Project:** 0389  
**Project Number:** 351647  
**Project Manager:** Tamera Rogers

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1617339-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0746 <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-6-W-160622 <b>Sampled By:</b> GRD	<b>Receive Date:</b> 06/23/2016 21:45 <b>Sampling Date:</b> 06/22/2016 05:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-6 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1617339-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0746 <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-7-W-160622 <b>Sampled By:</b> GRD	<b>Receive Date:</b> 06/23/2016 21:45 <b>Sampling Date:</b> 06/22/2016 06:25 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-7 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1617339-09</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0746 <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-10-W-160622 <b>Sampled By:</b> GRD	<b>Receive Date:</b> 06/23/2016 21:45 <b>Sampling Date:</b> 06/22/2016 12:25 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-10 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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**Reported:** 06/29/2016 16:02  
**Project:** 0389  
**Project Number:** 351647  
**Project Manager:** Tamera Rogers

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1617339-10</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0746 <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-11-W-160622 <b>Sampled By:</b> GRD	<b>Receive Date:</b> 06/23/2016 21:45 <b>Sampling Date:</b> 06/22/2016 11:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-11 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1617339-11</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0746 <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-12-W-160622 <b>Sampled By:</b> GRD	<b>Receive Date:</b> 06/23/2016 21:45 <b>Sampling Date:</b> 06/22/2016 10:55 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): MW-12 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1617339-12</b>	<b>COC Number:</b> --- <b>Project Number:</b> 0746 <b>Sampling Location:</b> --- <b>Sampling Point:</b> RW-1-W-160622 <b>Sampled By:</b> GRD	<b>Receive Date:</b> 06/23/2016 21:45 <b>Sampling Date:</b> 06/22/2016 10:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: T0600101471 Location ID (FieldPoint): RW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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**Reported:** 06/29/2016 16:02  
**Project:** 0389  
**Project Number:** 351647  
**Project Manager:** Tamera Rogers

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1617339-01	<b>Client Sample Name:</b> 0746, QA-W-160622, 6/22/2016 12:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.0	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/27/16	06/27/16 12:35	IO1	MS-V10	1	BZF2179

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San Jose, CA 95119

**Reported:** 06/29/2016 16:02  
**Project:** 0389  
**Project Number:** 351647  
**Project Manager:** Tamera Rogers

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1617339-02	<b>Client Sample Name:</b> 0746, MW-1-W-160622, 6/22/2016 5:40:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/27/16	06/27/16 12:55	IO1	MS-V10	1	BZF2179

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San Jose, CA 95119

**Reported:** 06/29/2016 16:02  
**Project:** 0389  
**Project Number:** 351647  
**Project Manager:** Tamera Rogers

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1617339-03	<b>Client Sample Name:</b> 0746, MW-2-W-160622, 6/22/2016 7:50:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
<b>Methyl t-butyl ether</b>	<b>0.91</b>	<b>ug/L</b>	<b>0.50</b>		<b>EPA-8260B</b>	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/27/16	06/27/16 13:14	IO1	MS-V10	1	BZF2179

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San Jose, CA 95119

Reported: 06/29/2016 16:02  
Project: 0389  
Project Number: 351647  
Project Manager: Tamera Rogers

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1617339-04	<b>Client Sample Name:</b> 0746, MW-3-W-160622, 6/22/2016 8:40:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	71	ug/L	2.5		EPA-8260B	ND	A01	1
1,2-Dibromoethane	ND	ug/L	2.5		EPA-8260B	ND	A01	1
1,2-Dichloroethane	ND	ug/L	2.5		EPA-8260B	ND	A01	1
Ethylbenzene	81	ug/L	2.5		EPA-8260B	ND	A01	1
Methyl t-butyl ether	21	ug/L	2.5		EPA-8260B	ND	A01	1
Toluene	ND	ug/L	2.5		EPA-8260B	ND	A01	1
<b>Total Xylenes</b>	<b>6.2</b>	<b>ug/L</b>	<b>5.0</b>		<b>EPA-8260B</b>	<b>ND</b>	<b>A01</b>	<b>1</b>
t-Amyl Methyl ether	ND	ug/L	2.5		EPA-8260B	ND	A01	1
t-Butyl alcohol	ND	ug/L	50		EPA-8260B	ND	A01	1
Diisopropyl ether	ND	ug/L	2.5		EPA-8260B	ND	A01	1
Ethanol	ND	ug/L	1200		EPA-8260B	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	2.5		EPA-8260B	ND	A01	1
<b>Total Purgeable Petroleum Hydrocarbons (C6-C12)</b>	<b>1900</b>	<b>ug/L</b>	<b>250</b>		<b>Luft-GC/MS</b>	<b>ND</b>	<b>A01</b>	<b>1</b>
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	93.1	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/27/16	06/27/16 15:31	IO1	MS-V10	5	BZF2179

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San Jose, CA 95119

Reported: 06/29/2016 16:02  
Project: 0389  
Project Number: 351647  
Project Manager: Tamera Rogers

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1617339-05	<b>Client Sample Name:</b> 0746, MW-4-W-160622, 6/22/2016 7:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
<b>Ethylbenzene</b>	<b>7.2</b>	<b>ug/L</b>	<b>0.50</b>		<b>EPA-8260B</b>	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
<b>Total Purgeable Petroleum Hydrocarbons (C6-C12)</b>	<b>1900</b>	<b>ug/L</b>	<b>50</b>		<b>Luft-GC/MS</b>	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	110	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/27/16	06/28/16 11:35	IO1	MS-V10	1	BZF2179

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**Reported:** 06/29/2016 16:02  
**Project:** 0389  
**Project Number:** 351647  
**Project Manager:** Tamera Rogers

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1617339-06	<b>Client Sample Name:</b> 0746, MW-5-W-160622, 6/22/2016 9:25:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	210	ug/L	5.0		EPA-8260B	ND	A01	1
1,2-Dibromoethane	ND	ug/L	5.0		EPA-8260B	ND	A01	1
1,2-Dichloroethane	ND	ug/L	5.0		EPA-8260B	ND	A01	1
Ethylbenzene	450	ug/L	5.0		EPA-8260B	ND	A01	1
Methyl t-butyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
Toluene	ND	ug/L	5.0		EPA-8260B	ND	A01	1
<b>Total Xylenes</b>	<b>540</b>	<b>ug/L</b>	<b>10</b>		<b>EPA-8260B</b>	<b>ND</b>	<b>A01</b>	<b>1</b>
t-Amyl Methyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
t-Butyl alcohol	ND	ug/L	100		EPA-8260B	ND	A01	1
Diisopropyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
Ethanol	ND	ug/L	2500		EPA-8260B	ND	A01	1
Ethyl t-butyl ether	ND	ug/L	5.0		EPA-8260B	ND	A01	1
<b>Total Purgeable Petroleum Hydrocarbons (C6-C12)</b>	<b>17000</b>	<b>ug/L</b>	<b>500</b>		<b>Luft-GC/MS</b>	<b>ND</b>	<b>A01</b>	<b>1</b>
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/27/16	06/27/16 16:09	IO1	MS-V10	10	BZF2179

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**Reported:** 06/29/2016 16:02  
**Project:** 0389  
**Project Number:** 351647  
**Project Manager:** Tamera Rogers

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1617339-07	<b>Client Sample Name:</b> 0746, MW-6-W-160622, 6/22/2016 5:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/27/16	06/27/16 13:34	IO1	MS-V10	1	BZF2179

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**Reported:** 06/29/2016 16:02  
**Project:** 0389  
**Project Number:** 351647  
**Project Manager:** Tamera Rogers

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1617339-08	<b>Client Sample Name:</b> 0746, MW-7-W-160622, 6/22/2016 6:25:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/27/16	06/27/16 13:53	IO1	MS-V10	1	BZF2179

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**Reported:** 06/29/2016 16:02  
**Project:** 0389  
**Project Number:** 351647  
**Project Manager:** Tamera Rogers

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1617339-09	<b>Client Sample Name:</b> 0746, MW-10-W-160622, 6/22/2016 12:25:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	93.1	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/27/16	06/27/16 14:13	IO1	MS-V10	1	BZF2179

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**Reported:** 06/29/2016 16:02  
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**Project Number:** 351647  
**Project Manager:** Tamera Rogers

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1617339-10	<b>Client Sample Name:</b> 0746, MW-11-W-160622, 6/22/2016 11:40:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	94.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/27/16	06/27/16 14:32	IO1	MS-V10	1	BZF2179

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Reported: 06/29/2016 16:02  
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Project Number: 351647  
Project Manager: Tamera Rogers

### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1617339-11	<b>Client Sample Name:</b> 0746, MW-12-W-160622, 6/22/2016 10:55:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
<b>Methyl t-butyl ether</b>	<b>1.1</b>	<b>ug/L</b>	<b>0.50</b>		<b>EPA-8260B</b>	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/27/16	06/27/16 14:52	IO1	MS-V10	1	BZF2179

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### Volatile Organic Analysis (EPA Method 8260B)

<b>BCL Sample ID:</b> 1617339-12	<b>Client Sample Name:</b> 0746, RW-1-W-160622, 6/22/2016 10:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
t-Butyl alcohol	ND	ug/L	10		EPA-8260B	ND		1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50		Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	06/27/16	06/27/16 15:11	IO1	MS-V10	1	BZF2179

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**Project:** 0389  
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**Project Manager:** Tamera Rogers

## Volatile Organic Analysis (EPA Method 8260B)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BZF2179</b>						
Benzene	BZF2179-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BZF2179-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BZF2179-BLK1	ND	ug/L	0.50		
Ethylbenzene	BZF2179-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BZF2179-BLK1	ND	ug/L	0.50		
Toluene	BZF2179-BLK1	ND	ug/L	0.50		
Total Xylenes	BZF2179-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BZF2179-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BZF2179-BLK1	ND	ug/L	10		
Diisopropyl ether	BZF2179-BLK1	ND	ug/L	0.50		
Ethanol	BZF2179-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BZF2179-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons (C6-)	BZF2179-BLK1	ND	ug/L	50		
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>BZF2179-BLK1</b>	<b>100</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>BZF2179-BLK1</b>	<b>97.0</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>BZF2179-BLK1</b>	<b>102</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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**Reported:** 06/29/2016 16:02  
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**Project Number:** 351647  
**Project Manager:** Tamera Rogers

## Volatile Organic Analysis (EPA Method 8260B)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
<b>QC Batch ID: BZF2179</b>											
Benzene	BZF2179-BS1	LCS	26.110	25.000	ug/L	104		70 - 130			
Toluene	BZF2179-BS1	LCS	24.550	25.000	ug/L	98.2		70 - 130			
1,2-Dichloroethane-d4 (Surrogate)	BZF2179-BS1	LCS	9.7800	10.000	ug/L	97.8		75 - 125			
Toluene-d8 (Surrogate)	BZF2179-BS1	LCS	9.7700	10.000	ug/L	97.7		80 - 120			
4-Bromofluorobenzene (Surrogate)	BZF2179-BS1	LCS	9.7900	10.000	ug/L	97.9		80 - 120			

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Reported: 06/29/2016 16:02  
Project: 0389  
Project Number: 351647  
Project Manager: Tamera Rogers

## Volatile Organic Analysis (EPA Method 8260B)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
<b>QC Batch ID: BZF2179</b>		Used client sample: N									
Benzene	MS	1616196-20	ND	27.060	25.000	ug/L		108		70 - 130	
	MSD	1616196-20	ND	24.540	25.000	ug/L	9.8	98.2	20	70 - 130	
Toluene	MS	1616196-20	ND	26.290	25.000	ug/L		105		70 - 130	
	MSD	1616196-20	ND	23.840	25.000	ug/L	9.8	95.4	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1616196-20	ND	9.7000	10.000	ug/L		97.0		75 - 125	
	MSD	1616196-20	ND	9.7800	10.000	ug/L	0.8	97.8		75 - 125	
Toluene-d8 (Surrogate)	MS	1616196-20	ND	10.020	10.000	ug/L		100		80 - 120	
	MSD	1616196-20	ND	10.050	10.000	ug/L	0.3	100		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1616196-20	ND	10.240	10.000	ug/L		102		80 - 120	
	MSD	1616196-20	ND	10.040	10.000	ug/L	2.0	100		80 - 120	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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**Reported:** 06/29/2016 16:02  
**Project:** 0389  
**Project Number:** 351647  
**Project Manager:** Tamera Rogers

**Notes And Definitions**

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A01 Detection and quantitation limits are raised due to sample dilution.