Roya C. Kambin
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6270
RKLG@chevron.com

January 26, 2012

RECEIVED

2:47 pm, Feb 21, 2012

Alameda County
Environmental Health

Mr. Jerry Wickham
Alameda County Health Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

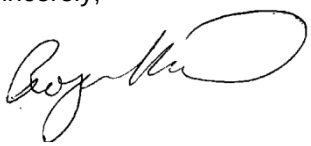
RE: Second Semi-Annual 2011 Groundwater Monitoring Report Submittal
Former Unocal Service Station 7376
4191 First Street, Pleasanton, California
Fuel Leak Case No.: RO0000361

Dear Mr. Wickham,

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

If you have any questions or need additional information, please contact me at (925) 790-6270.

Sincerely,



Roya Kambin
Union Oil of California – Project Manager

Attachment
Second Semi-Annual 2011 Groundwater Report

ARCADIS
Infrastructure · Water · Environment · Buildings

ARCADIS U.S., Inc.
2000 Powell Street
7th Floor
Emeryville
California 94608
Tel 510.652.4500
Fax 510.652.4906
www.arcadis-us.com

Mr. Jerry Wickham
Alameda County Heath Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject:
Second Semi-Annual 2011 Groundwater Monitoring Report Submittal

ENVIRONMENT

Dear Mr. Wickham:

Date:
January 26, 2012

On behalf of Chevron Environmental Management Company, for itself and as Attorney-in-Fact for Union Oil Company of California (hereinafter "EMC"), ARCADIS U.S., Inc (ARCADIS) is pleased to submit the enclosed Semi-Annual Groundwater Monitoring Report for the following facility:

Contact:
Katherine Brandt

Phone:
510.596.9675

Email:
Katherine.Brandt@arcadis-us.com

Facility No.	**Case No.**	**Location**
7376	RO0000361	4191 First Street Pleasanton, California

Our ref:
B0047296.0001

If you have any questions, please contact Katherine Brandt at 510.596.9675.

Sincerely,

ARCADIS

Katherine Brandt
Certified Project Manager

David W. Lay, P.G.,C.P.G.
Principal Geologist

Copies:
Ms. Roya Kambin, EMC (electronic copy only)
Ms. Cherle McCaulo, San Francisco Bay Regional Water Quality Control Board Region 2 (electronic copy)

UNION OIL OF CALIFORNIA
SEMI-ANNUAL MONITORING REPORT
SECOND SEMI-ANNUAL 2011
January 26, 2012

Facility No.: 7376 Address: 4191 First Street, Pleasanton, California

Consulting Company/Contact Person/Phone No.: ARCADIS / Katherine Brandt / 510.596.9675

Primary Agency/Contact Person/Regulatory ID No.: Alameda County Health Care Services / Mr. Jerry Wickham / Case No. RO361

WORK PERFORMED DURING THIS REPORTING PERIOD (Second Semi-Annual – 2011) :

1. TRC Solutions (TRC) conducted the third quarter 2011 groundwater monitoring and sampling on September 1, 2011. Field data sheets and general procedures for the third quarter 2011 monitoring event are included as **Attachment A**. As part of the modified semi-annual sampling event for the site thirteen (13) monitoring wells were gauged and five (5) wells were sampled.
2. TRC conducted the fourth quarter 2011 groundwater monitoring and sampling on December 2, 2011. Field data sheets and general procedures for the fourth quarter 2011 monitoring event are included as **Attachment A**. Thirteen (13) monitoring wells were gauged and sampled during this monitoring event.

   All collected groundwater samples were analyzed for total petroleum hydrocarbons as diesel (TPH-d; C_{12}-C_{24}), according to Environmental Protection Agency (EPA) Method 8015B; total petroleum hydrocarbons as gasoline (TPH-g; C_6-C_{12}) according to EPA Method Luft-GC/MS; benzene, toluene, ethylbenzene, and total xylenes (BTEX, collectively), methyl tertiary butyl ether (MTBE), 1,2-dibromoethane (EDB) and 1,2-dichloroethane (EDC) by EPA Method 8260B. The site location map and the site plan are presented on **Figures 1** and **2**. The groundwater elevation contour maps for third and fourth quarters 2011 are presented on **Figures 3a** and **3b**, respectively. Concentration maps for TPH-g, benzene, and MTBE for third and fourth quarters 2011 are on **Figures 4a/b** through **6a/b**. Current Groundwater Gauging and Analytical Results are summarized in **Table 1**, Historic Groundwater Gauging and Analytical Results are summarized in **Table 2**, and Historical Groundwater Results from TRC are included as **Attachment B**. A copy of the third and fourth quarters 2011 laboratory analytical reports and chain-of-custody documentation are included as **Attachment C.**

WORK PROPOSED FOR THE NEXT REPORTING PERIOD (First Semi-Annual – 2012):

1. Perform groundwater monitoring and related reporting during the first and second quarters 2012.

Current Phase of Project:	Groundwater Monitoring
Site Use:	Active Service Station
Frequency of Sampling:	Groundwater – 5 wells quarterly, 8 wells semi-annually (2^{nd} and 4^{th} Quarter)
Frequency of Monitoring:	Groundwater – Quarterly
Measureable Separate-Phase Hydrocarbon (SPH) this quarter:	None
Cumulative SPH Recovered to Date:	0.14 gallons (MW-5)
SPH Recovered This Quarter:	None
Bulk Soil Removed to Date:	Unknown
Bulk Soil Removed this Quarter:	None
Water Wells or Surface Waters within a 2000' Radius and Their Respective Directions:	Arroyo Valley Stream (approximately 1,100 feet northeast)[1]
Groundwater Use Designation:	Amador Sub-basin Livermore Valley Groundwater Basin [2]
Current Remediation Techniques:	Revised RAP Implementation Pending
Permits for Discharge (No.):	None

UNION OIL OF CALIFORNIA
SEMI-ANNUAL MONITORING REPORT
SECOND SEMI-ANNUAL 2011
January 26, 2012

Facility No.: 7376 Address: 4191 First Street, Pleasanton, California

Approximate Depth to Groundwater – Third Quarter 2011:		64.02 (MW-12) – 82.13 (MW-3B) feet below top of casing (BTOC) Measured X Estimated		
Approximate Depth to Groundwater – Fourth Quarter 2011:		63.20 (MW-12) – 80.65 (MW-3B) feet BTOC Measured X Estimated		
Groundwater Gradient – Third Quarter 2011:	Varies	(Magnitude)	Radially outward from MW-5	(Direction)
Groundwater Gradient – Fourth Quarter 2011:	Varies	(Magnitude)	Radially outward from MW-5	(Direction)

DISCUSSION:

Third Quarter 2011

Groundwater conditions at the five (5) monitoring wells sampled during the third quarter 2011 remained generally consistent with previous quarters. The maximum concentrations of TPH-d (4,800 micrograms per liter [µg/L]), TPH-g (9,100 µg/L), BTEX (1,800 µg/L, 49 µg/L, 550 µg/L, 130 µg/L, respectively), and MTBE (2,600µg/L) were detected in the samples collected from MW-5. Concentrations of EDB and EDC were below the laboratory's indicated reporting limits for all wells sampled.

Groundwater elevations vary across the site by approximately thirteen (13) feet to each other. The approximate groundwater flow direction radiates outward from MW-5.

Fourth Quarter 2011

Groundwater conditions at the thirteen (13) monitoring wells sampled during the fourth quarter 2011 remained generally consistent with previous quarters. The maximum concentrations of TPH-d (5,900 µg/L), TPH-g (10,000 µg/L), BTEX (1,500 µg/L, 69 µg/L, 470 µg/L, 130 µg/L, respectively), and MTBE (3,100µg/L) were detected in the samples collected from MW-5. Concentrations of EDB and EDC were below the laboratory's indicated reporting limits for all wells sampled.

Groundwater elevations vary across the site by approximately seven (7) feet to each other. The approximate groundwater flow direction radiates outward from MW-5.

CONCLUSIONS AND RECOMMENDATIONS:

Dissolved hydrocarbon constituent concentrations have remained relatively consistent with previous quarters. ARCADIS recommends continued groundwater monitoring and reporting. ARCADIS recommends discontinuing the biweekly product gauging since product has not be detected since December 11, 2006 (MW-5 0.02 feet). Product gauging will be completed during the routine quarterly and semi-annual events.

REFERENCES:

[1]Delta. 2010. Corrective Action Report. 76 Service Station No. 7376. 4191 First Street, Pleasanton, California. July 7.

[2] Alameda County Water District (ACWD 1993-2006), Zone 7 Water Agency, Well Master Plan, 1993-2006.

UNION OIL OF CALIFORNIA
SEMI-ANNUAL MONITORING REPORT
SECOND SEMI-ANNUAL 2011
January 26, 2012

Facility No.: 7376 Address: 4191 First Street, Pleasanton, California

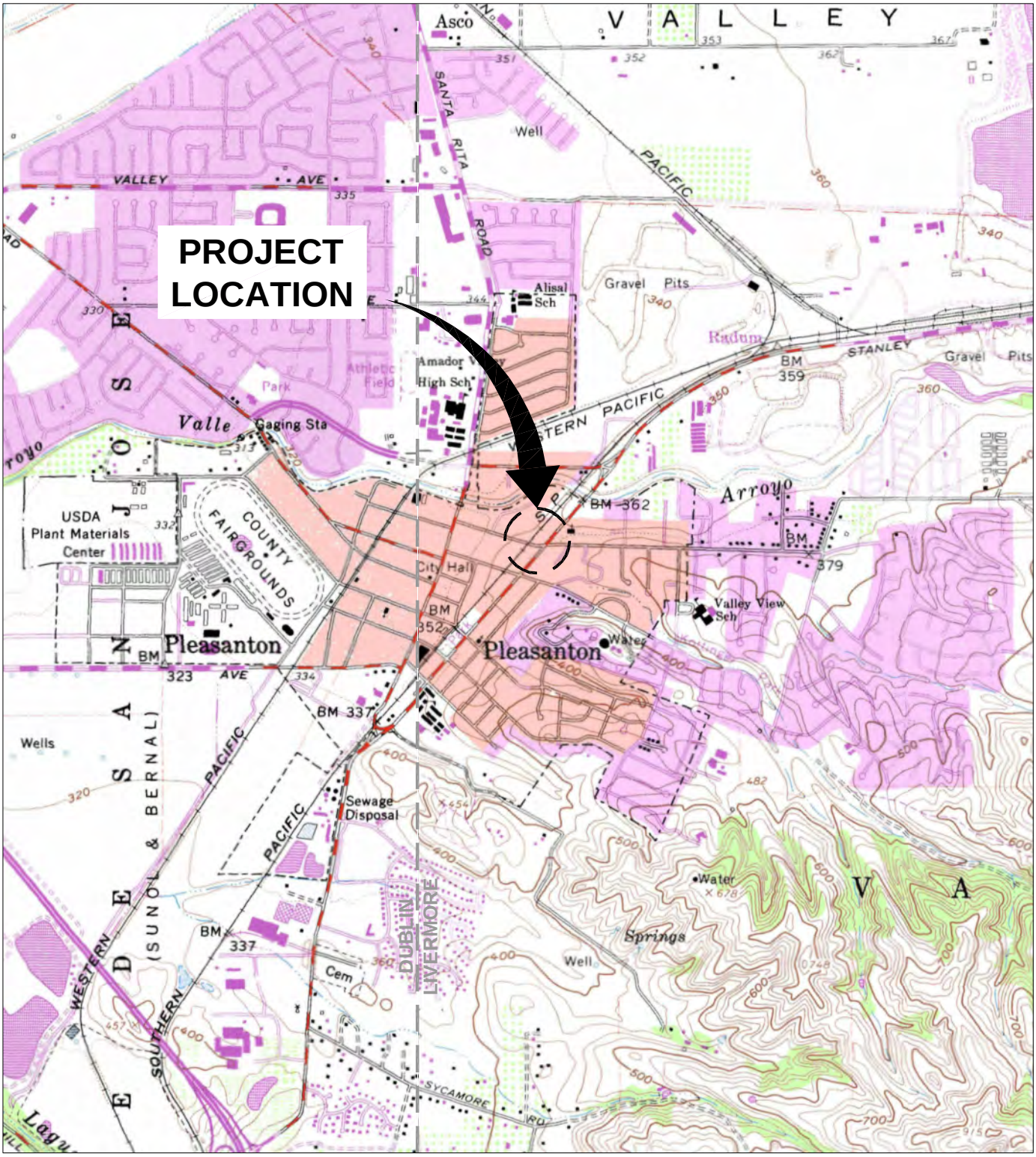
ATTACHMENTS:

Figure 1: Site Location Map
Figure 2: Site Plan
Figure 3a: Groundwater Elevation Contour Map – September 1, 2011
Figure 3b: Groundwater Elevation Contour Map – December 2, 2011
Figure 4a: TPH-g Concentration Map – September 1, 2011
Figure 4b: TPH-g Concentration Map – December 2, 2011
Figure 5a: Benzene Concentration Map – September 1, 2011
Figure 5b: Benzene Concentration Map – December 2, 2011
Figure 6a: MTBE Concentration Map – September 1, 2011
Figure 6b: MTBE Concentration Map – December 2, 2011

Table 1: Current Groundwater Gauging and Analytical Results
Table 2: Historic Groundwater Gauging and Analytical Results

Attachment A: Field Data Sheets and General Procedures
Attachment B: Historical Groundwater Results from TRC
Attachment C: Laboratory Reports and Chain-of-Custody Documentation

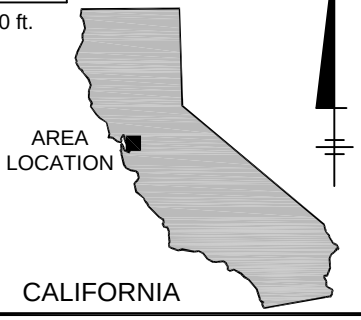
Figures



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., LIVERMORE, CALIFORNIA, 1961, PHOTOREVISED 1980, AND DUBLIN, CALIFORNIA, 1961, PHOTOREVISED 1980.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.



UNION OIL
STATION NO. 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

SITE VICINITY MAP

ARCADIS

FIGURE 1

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD:--- PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
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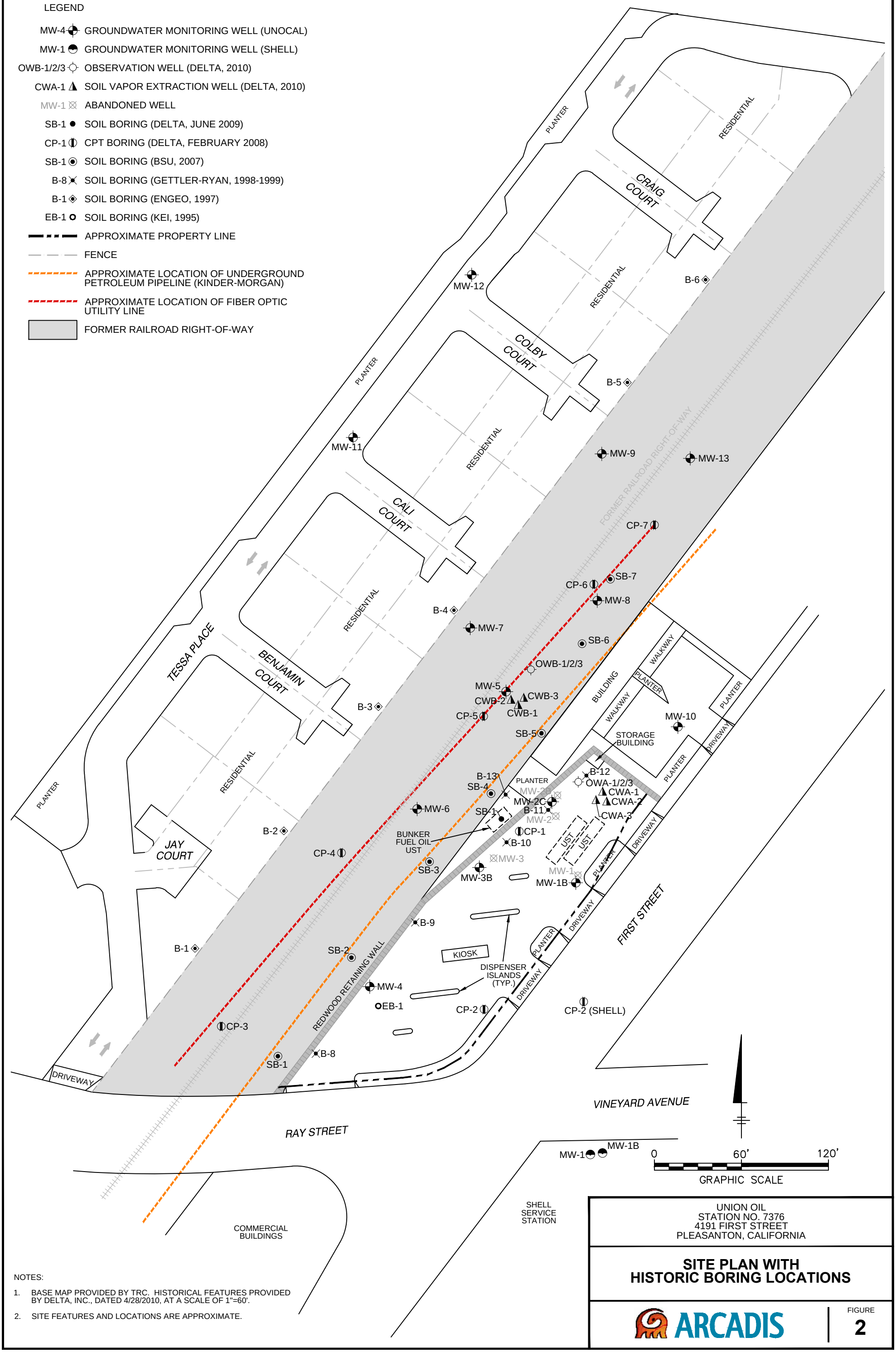
XREFS: IMAGES: Dublin.jpg Livermore.jpg PROJECTNAME: ---

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD:--- PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
C:\Users\jharris\Desktop\ENVCAD\B0047296\0001\00002\4Q11\DWG\47296B01.dwg LAYOUT: 2 SAVED: 1/6/2012 6:19 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 1/6/2012 6:24 PM BY: HARRIS, JESSICA
XREFS: IMAGES: PROJECTNAME: ----
47296X01

LEGEND

- MW-4 GROUNDWATER MONITORING WELL (UNOCAL)
- MW-1 GROUNDWATER MONITORING WELL (SHELL)
- OWB-1/2/3 OBSERVATION WELL (DELTA, 2010)
- CWA-1 SOIL VAPOR EXTRACTION WELL (DELTA, 2010)
- MW-1 ABANDONED WELL
- SB-1 SOIL BORING (DELTA, JUNE 2009)
- CP-1 CPT BORING (DELTA, FEBRUARY 2008)
- SB-1 SOIL BORING (BSU, 2007)
- B-8 SOIL BORING (GETTLER-RYAN, 1998-1999)
- B-1 SOIL BORING (ENGEO, 1997)
- EB-1 SOIL BORING (KEI, 1995)
- APPROXIMATE PROPERTY LINE
- FENCE
- APPROXIMATE LOCATION OF UNDERGROUND PETROLEUM PIPELINE (KINDER-MORGAN)
- APPROXIMATE LOCATION OF FIBER OPTIC UTILITY LINE
- FORMER RAILROAD RIGHT-OF-WAY



NOTES:

1. BASE MAP PROVIDED BY TRC. HISTORICAL FEATURES PROVIDED BY DELTA, INC., DATED 4/28/2010, AT A SCALE OF 1"=60'.
2. SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

UNION OIL
STATION NO. 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

SITE PLAN WITH HISTORIC BORING LOCATIONS

ARCADIS

FIGURE
2

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD:-- PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Petaluma\ACT\B0047296\0001\00002\4Q11\DWG\47296W01.dwg LAYOUT: 3A SAVED: 12/30/2011 7:35 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 1/25/2012 5:12 PM BY: HARRIS, JESSICA
XREFS: IMAGES: PROJECTNAME: --
47296X01

LEGEND

- MW-4 GROUNDWATER MONITORING WELL (UNOCAL)
- MW-1 GROUNDWATER MONITORING WELL (SHELL)
- OWB-1/2/3 OBSERVATION WELL (DELTA, 2010)
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- MW-1 ABANDONED WELL
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- CP-1 CPT BORING (DELTA, FEBRUARY 2008)
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- EB-1 SOIL BORING (KEI, 1995)
- APPROXIMATE PROPERTY LINE
- FENCE
- APPROXIMATE LOCATION OF UNDERGROUND PETROLEUM PIPELINE (KINDER-MORGAN)
- APPROXIMATE LOCATION OF FIBER OPTIC UTILITY LINE
- FORMER RAILROAD RIGHT-OF-WAY
- (284.97) GROUNDWATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL (FT MSL)
- 286.00 GROUNDWATER ELEVATION CONTOUR (FT MSL; DASHED WHERE INFERRED)
- (DRY) WELL REPORTED DRY FROM THE FIELD OR NOT ENOUGH WATER TO SAMPLE
- APPROXIMATE GROUNDWATER FLOW DIRECTION

0 60’ 120’
GRAPHIC SCALE

NOTES:

1. BASE MAP PROVIDED BY TRC. HISTORICAL FEATURES PROVIDED BY DELTA, INC., DATED 4/28/2010, AT A SCALE OF 1"=60'.
2. SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

UNION OIL
STATION NO. 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP SEPTEMBER 1, 2011

ARCADIS

FIGURE 3a

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD:-- PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
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XREFS: IMAGES: PROJECTNAME: --
47296X01

LEGEND

- MW-4 GROUNDWATER MONITORING WELL (UNOCAL)
- MW-1 GROUNDWATER MONITORING WELL (SHELL)
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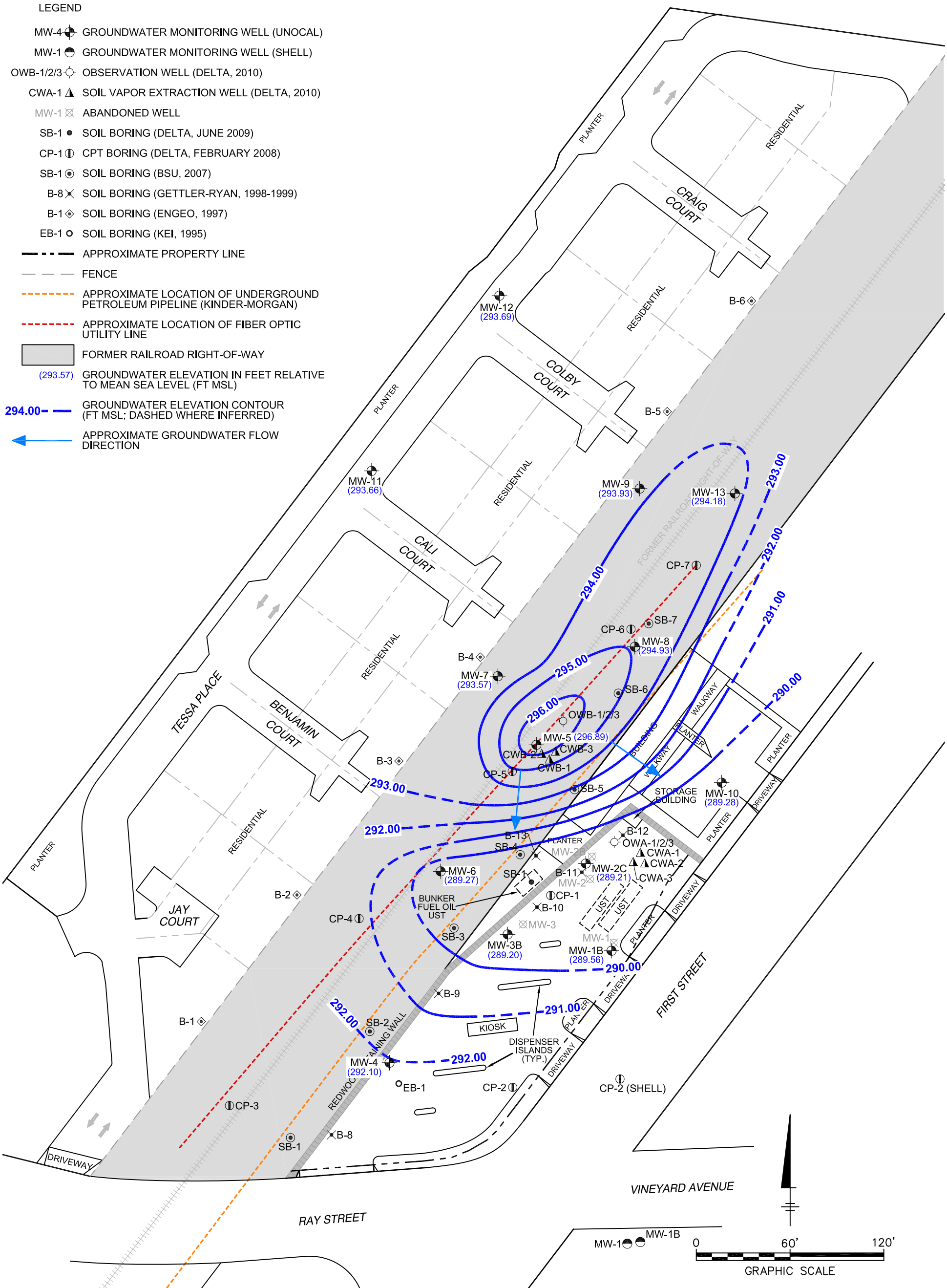
- APPROXIMATE PROPERTY LINE
- FENCE
- APPROXIMATE LOCATION OF UNDERGROUND PETROLEUM PIPELINE (KINDER-MORGAN)
- APPROXIMATE LOCATION OF FIBER OPTIC UTILITY LINE
- FORMER RAILROAD RIGHT-OF-WAY
- (293.57) GROUNDWATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL (FT MSL)
- 294.00 GROUNDWATER ELEVATION CONTOUR (FT MSL; DASHED WHERE INFERRED)
- APPROXIMATE GROUNDWATER FLOW DIRECTION



NOTES:

1. BASE MAP PROVIDED BY TRC. HISTORICAL FEATURES PROVIDED BY DELTA, INC., DATED 4/28/2010, AT A SCALE OF 1"=60'.
2. SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

UNION OIL
STATION NO. 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP DECEMBER 2, 2011

ARCADIS

FIGURE 3b

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD:-- PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
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XREFS: IMAGES: PROJECTNAME: --
47296X01

LEGEND

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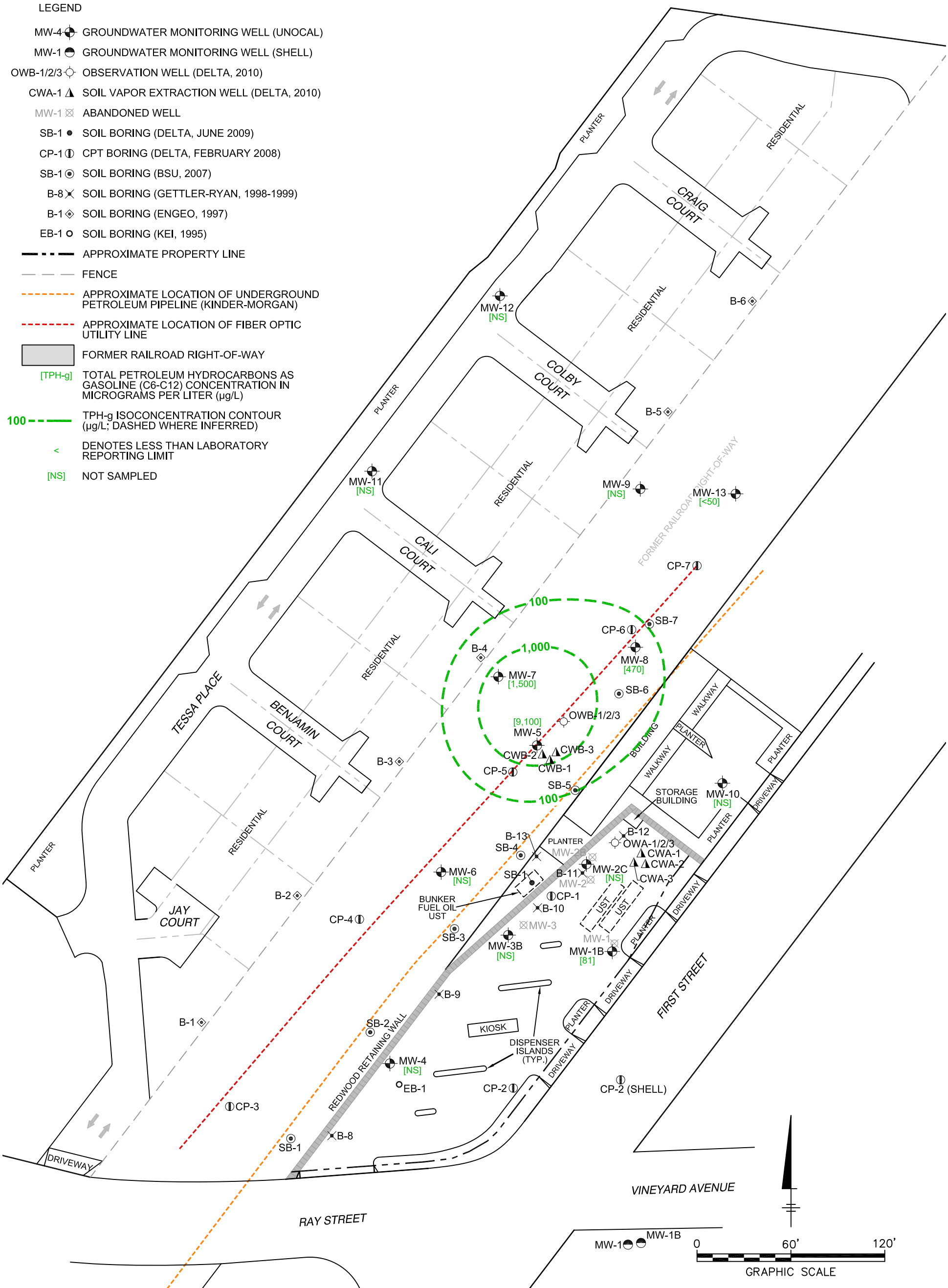
- APPROXIMATE LOCATION OF FIBER OPTIC UTILITY LINE
- FORMER RAILROAD RIGHT-OF-WAY
- [TPH-g] TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (C6-C12) CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 100 TPH-g ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT
- [NS] NOT SAMPLED



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UNION OIL
STATION NO. 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

TPH-g CONCENTRATION MAP SEPTEMBER 1, 2011

ARCADIS

FIGURE 4a

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD:-- PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
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XREFS: IMAGES: PROJECTNAME: --
47296X01

LEGEND

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- 100 TPH-g ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT

PLANTER
RESIDENTIAL
CRAIG COURT
MW-12 [<50]
B-6
COLBY COURT
B-5
MW-11 [<50]
MW-9 [<50]
MW-13 [<50]
FORMER RAILROAD RIGHT-OF-WAY
CALI COURT
CP-7
100
SB-7
CP-6
B-4
1,000
MW-8 [390]
MW-7 [1,400]
SB-6
10,000
OWB-1/2/3
MW-5 [10,000]
CWB-2
CWB-3
CWB-1
CP-5
B-3
SB-5
BUILDING
WALKWAY
PLANTER
STORAGE BUILDING
MW-10 [<50]
DRIVEWAY
TESSA PLACE
BENJAMIN COURT
B-13
SB-4
B-12
OWA-1/2/3
CWA-1
CWA-2
CWA-3
MW-3B
MW-6 [<50]
SB-1
B-11
MW-2C [<50]
MW-2
CP-1
B-10
BUNKER FUEL OIL UST
UST
MW-3
SB-3
MW-3B [<50]
MW-1B [72]
10
B-2
JAY COURT
CP-4
B-9
FIRST STREET
KIOSK
DISPENSER ISLANDS (TYP.)
B-1
SB-2
REDWOOD RETAINING WALL
MW-4 [<50]
EB-1
CP-2
CP-2 (SHELL)
CP-3
SB-1
B-8
DRIVEWAY
VINEYARD AVENUE
RAY STREET
MW-1
MW-1B
0 60' 120'
GRAPHIC SCALE
COMMERCIAL BUILDINGS
SHELL SERVICE STATION

NOTES:

1. BASE MAP PROVIDED BY TRC. HISTORICAL FEATURES PROVIDED BY DELTA, INC., DATED 4/28/2010, AT A SCALE OF 1"=60'.
2. SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

UNION OIL
STATION NO. 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

TPH-g CONCENTRATION MAP DECEMBER 2, 2011

ARCADIS

FIGURE 4b

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD:-- PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
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XREFS: IMAGES: PROJECTNAME: --
47296X01

LEGEND

- MW-4 GROUNDWATER MONITORING WELL (UNOCAL)
- MW-1 GROUNDWATER MONITORING WELL (SHELL)
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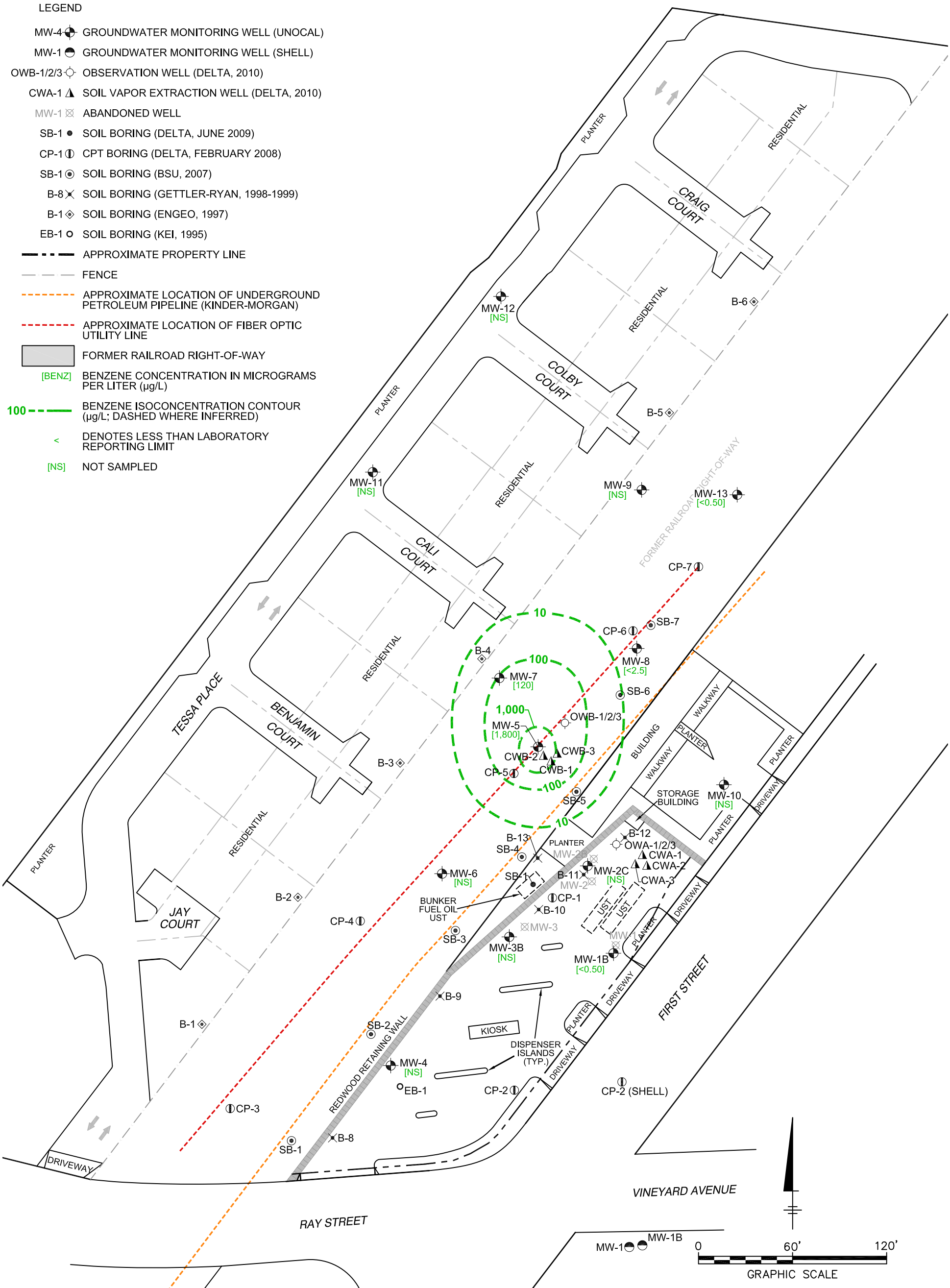
- CWA-1 SOIL VAPOR EXTRACTION WELL (DELTA, 2010)
- MW-1 ABANDONED WELL
- SB-1 SOIL BORING (DELTA, JUNE 2009)
- CP-1 CPT BORING (DELTA, FEBRUARY 2008)
- SB-1 SOIL BORING (BSU, 2007)
- B-8 SOIL BORING (GETTLER-RYAN, 1998-1999)
- B-1 SOIL BORING (ENGEO, 1997)
- EB-1 SOIL BORING (KEI, 1995)
- APPROXIMATE PROPERTY LINE
- FENCE
- APPROXIMATE LOCATION OF UNDERGROUND PETROLEUM PIPELINE (KINDER-MORGAN)
- APPROXIMATE LOCATION OF FIBER OPTIC UTILITY LINE
- FORMER RAILROAD RIGHT-OF-WAY
- [BENZ] BENZENE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 100 BENZENE ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT
- [NS] NOT SAMPLED



NOTES:

1. BASE MAP PROVIDED BY TRC. HISTORICAL FEATURES PROVIDED BY DELTA, INC., DATED 4/28/2010, AT A SCALE OF 1"=60'.
2. SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

UNION OIL
STATION NO. 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

BENZENE CONCENTRATION MAP SEPTEMBER 1, 2011

ARCADIS

FIGURE 5a

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD:-- PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
C:\Users\jharris\Desktop\ENVCAD\B0047296\0001\00002\4Q11\DWG\47296C04.dwg LAYOUT: 5B SAVED: 1/6/2012 5:20 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 1/6/2012 5:38 PM BY: HARRIS, JESSICA

XREFS: IMAGES: PROJECTNAME: --
47296X01

LEGEND

- MW-4 GROUNDWATER MONITORING WELL (UNOCAL)
- MW-1 GROUNDWATER MONITORING WELL (SHELL)
- OWB-1/2/3 OBSERVATION WELL (DELTA, 2010)
- CWA-1 SOIL VAPOR EXTRACTION WELL (DELTA, 2010)
- MW-1 ABANDONED WELL
- SB-1 SOIL BORING (DELTA, JUNE 2009)
- CP-1 CPT BORING (DELTA, FEBRUARY 2008)
- SB-1 SOIL BORING (BSU, 2007)
- B-8 SOIL BORING (GETTLER-RYAN, 1998-1999)
- B-1 SOIL BORING (ENGEO, 1997)
- EB-1 SOIL BORING (KEI, 1995)
- APPROXIMATE PROPERTY LINE
- FENCE
- APPROXIMATE LOCATION OF UNDERGROUND PETROLEUM PIPELINE (KINDER-MORGAN)
- APPROXIMATE LOCATION OF FIBER OPTIC UTILITY LINE
- FORMER RAILROAD RIGHT-OF-WAY
- [BENZ] BENZENE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 100 BENZENE ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT

PLANTER
RESIDENTIAL
CRAIG COURT
MW-12 [<0.50]
B-6
COLBY COURT
B-5
MW-11 [<0.50]
MW-9 [<0.50]
MW-13 [<0.50]
CALI COURT
FORMER RAILROAD RIGHT-OF-WAY
CP-7
CP-6
SB-7
MW-8 [<0.50]
B-4
10
MW-7 [15]
SB-6
100
OWB-1/2/3
MW-5 [1,500]
1,000
CWB-3
CWB-2
CWB-1
CP-5
SB-5
BUILDING
WALKWAY
STORAGE BUILDING
MW-10 [<0.50]
DRIVEWAY
TESSA PLACE
BENJAMIN COURT
B-3
B-13
SB-4
B-12
OWA-1/2/3
CWA-1
CWA-2
CWA-3
MW-2B
MW-2C [<0.50]
MW-2
B-11
SB-1
MW-6 [<0.50]
BUNKER FUEL OIL UST
CP-1
B-10
UST
MW-3
SB-3
MW-3B [<0.50]
MW-1B [<0.50]
JAY COURT
CP-4
B-2
B-9
KIOSK
DISPENSER ISLANDS (TYP.)
FIRST STREET
SB-2
REDWOOD RETAINING WALL
MW-4 [<0.50]
EB-1
CP-2
CP-2 (SHELL)
CP-3
B-1
SB-1
B-8
RAY STREET
VINEYARD AVENUE
MW-1
MW-1B
0 60' 120'
GRAPHIC SCALE
COMMERCIAL BUILDINGS
SHELL SERVICE STATION

NOTES:

1. BASE MAP PROVIDED BY TRC. HISTORICAL FEATURES PROVIDED BY DELTA, INC., DATED 4/28/2010, AT A SCALE OF 1"=60'.
2. SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

UNION OIL
STATION NO. 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

BENZENE CONCENTRATION MAP DECEMBER 2, 2011

ARCADIS

FIGURE 5b

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD:-- PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
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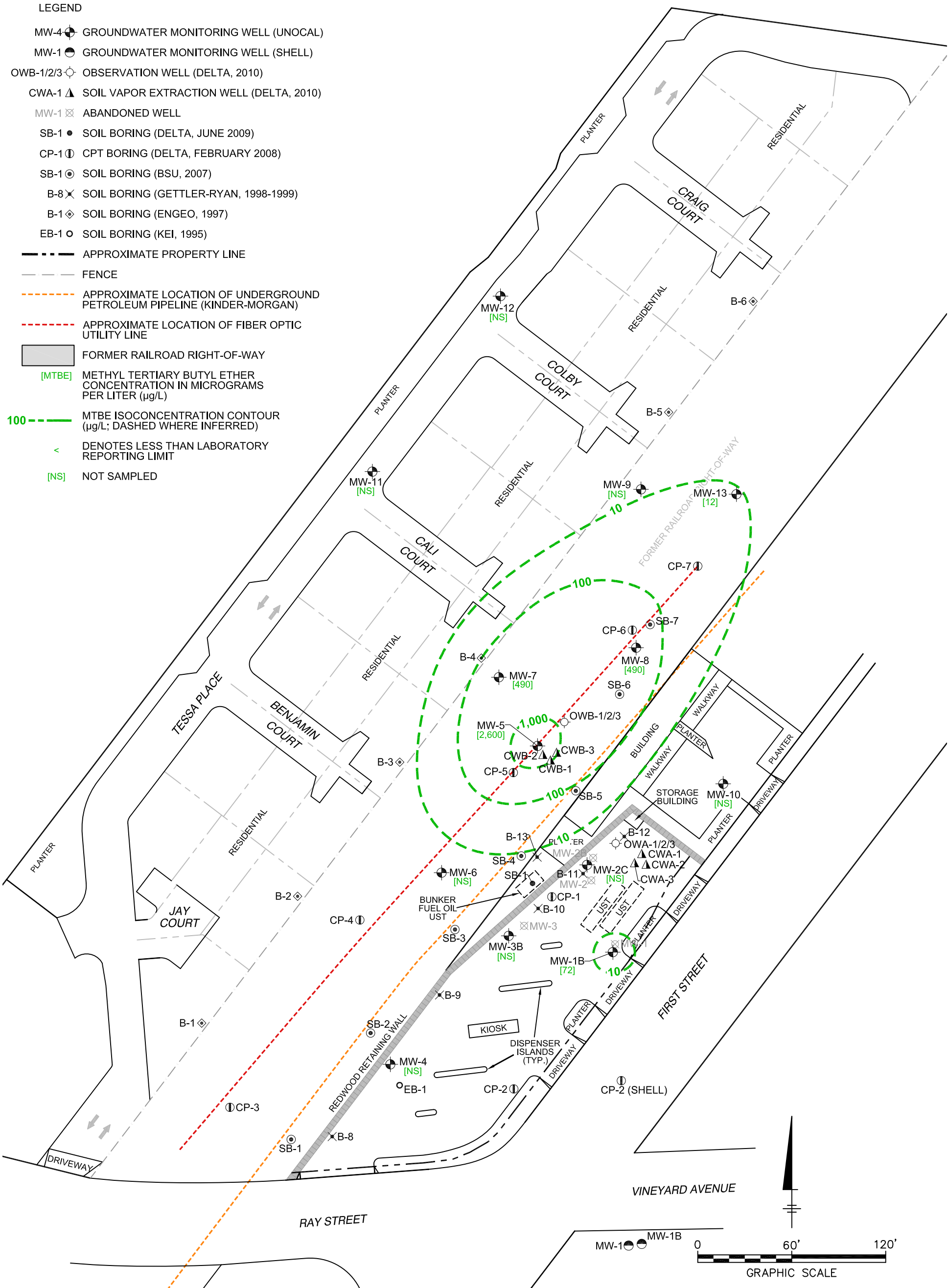
XREFS: IMAGES: PROJECTNAME: --
47296X01

LEGEND

- MW-4 GROUNDWATER MONITORING WELL (UNOCAL)
- MW-1 GROUNDWATER MONITORING WELL (SHELL)
- OWB-1/2/3 OBSERVATION WELL (DELTA, 2010)
- CWA-1 SOIL VAPOR EXTRACTION WELL (DELTA, 2010)
- MW-1 ABANDONED WELL
- SB-1 SOIL BORING (DELTA, JUNE 2009)
- CP-1 CPT BORING (DELTA, FEBRUARY 2008)
- SB-1 SOIL BORING (BSU, 2007)
- B-8 SOIL BORING (GETTLER-RYAN, 1998-1999)
- B-1 SOIL BORING (ENGEO, 1997)
- EB-1 SOIL BORING (KEI, 1995)
- APPROXIMATE PROPERTY LINE
- FENCE
- APPROXIMATE LOCATION OF UNDERGROUND PETROLEUM PIPELINE (KINDER-MORGAN)
- APPROXIMATE LOCATION OF FIBER OPTIC UTILITY LINE
- FORMER RAILROAD RIGHT-OF-WAY
- [MTBE] METHYL TERTIARY BUTYL ETHER CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 100 MTBE ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT
- [NS] NOT SAMPLED



NOTES:

1. BASE MAP PROVIDED BY TRC. HISTORICAL FEATURES PROVIDED BY DELTA, INC., DATED 4/28/2010, AT A SCALE OF 1"=60'.
2. SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

UNION OIL
STATION NO. 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

MTBE CONCENTRATION MAP SEPTEMBER 1, 2011

ARCADIS

FIGURE 6a

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS LD:-- PIC: J. VOGELEY PM: K. ABBOTT TM: K. ABBOTT LYR:(Opt)ON=*;OFF=*REF*
C:\Users\jharris\Desktop\ENVCAD\B0047296\0001\00002\4Q11\DWG\47296C06.dwg LAYOUT: 6B SAVED: 1/6/2012 6:04 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP1 PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 1/6/2012 6:17 PM BY: HARRIS, JESSICA

XREFS: IMAGES: PROJECTNAME: --
47296X01

LEGEND

- MW-4 GROUNDWATER MONITORING WELL (UNOCAL)
- MW-1 GROUNDWATER MONITORING WELL (SHELL)
- OWB-1/2/3 OBSERVATION WELL (DELTA, 2010)
- CWA-1 SOIL VAPOR EXTRACTION WELL (DELTA, 2010)
- MW-1 ABANDONED WELL
- SB-1 SOIL BORING (DELTA, JUNE 2009)
- CP-1 CPT BORING (DELTA, FEBRUARY 2008)
- SB-1 SOIL BORING (BSU, 2007)
- B-8 SOIL BORING (GETTLER-RYAN, 1998-1999)
- B-1 SOIL BORING (ENGEO, 1997)
- EB-1 SOIL BORING (KEI, 1995)
- APPROXIMATE PROPERTY LINE
- FENCE
- APPROXIMATE LOCATION OF UNDERGROUND PETROLEUM PIPELINE (KINDER-MORGAN)
- APPROXIMATE LOCATION OF FIBER OPTIC UTILITY LINE
- FORMER RAILROAD RIGHT-OF-WAY
- [MTBE] METHYL TERTIARY BUTYL ETHER CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 100 MTBE ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT

PLANTER
RESIDENTIAL
CRAIG COURT
MW-12 [<0.50]
B-6
COLBY COURT
B-5
MW-11 [<0.50]
MW-9 [5.2]
MW-13 [8.4]
CALI COURT
FORMER RAILROAD RIGHT-OF-WAY
CP-7
10
SB-7
CP-6
100
B-4
MW-8 [880]
MW-7 [17]
SB-6
TESSA PLACE
BENJAMIN COURT
1,000
OWB-1/2/3
MW-5 [3,100]
CWB-2
CWB-3
CWB-1
B-3
CP-5
BUILDING
WALKWAY
STORAGE BUILDING
MW-10 [6.4]
DRIVEWAY
SB-5
B-13
B-12
OWA-1/2/3
CWA-1
CWA-2
CWA-3
[15]
MW-6
SB-4
SB-1
MW-2B
B-11
MW-2C [10]
MW-2
CP-1
B-10
JAY COURT
B-2
CP-4
BUNKER FUEL OIL UST
UST
MW-3
SB-3
MW-3B [4.5]
MW-1B [140]
B-9
KIOSK
DISPENSER ISLANDS (TYP.)
FIRST STREET
SB-2
REDWOOD RETAINING WALL
MW-4 [<0.50]
EB-1
CP-2
CP-2 (SHELL)
B-1
CP-3
SB-1
B-8
RAY STREET
VINEYARD AVENUE
MW-1
MW-1B
0 60' 120'
GRAPHIC SCALE
COMMERCIAL BUILDINGS
SHELL SERVICE STATION

NOTES:

1. BASE MAP PROVIDED BY TRC. HISTORICAL FEATURES PROVIDED BY DELTA, INC., DATED 4/28/2010, AT A SCALE OF 1"=60'.
2. SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

UNION OIL
STATION NO. 7376
4191 FIRST STREET
PLEASANTON, CALIFORNIA

MTBE CONCENTRATION MAP
DECEMBER 2, 2011

ARCADIS

FIGURE
6b

Tables

Table 1
Current Groundwater Gauging and Analytical Results
76 Station 7376
4191 First Street, Pleasanton, California

Well ID	Date Sampled	TOC (feet MSL)	DTW (feet BTOC)	LPH Thickness (feet)	GW Elevation (feet MSL)	Previous Quarter GWE (feet MSL)	Change in Elevation (feet)	TPH-d (8015B)	TPH-g (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Comments
MW-1B	9/1/2011	369.28	79.69	0.00	289.59	295.14	-5.55	--	81	<0.50	<0.50	<0.50	<1.0	72	<0.50	<0.50	A90
MW-1B	12/2/2011	369.28	79.72	0.00	289.56	289.59	-0.03	<40	72	<0.50	<0.50	<0.50	<1.0	140	<0.50	<0.50	A01, A90
MW-2C	9/1/2011	368.48	--	--	--	294.56	--	--	--	--	--	--	--	--	--	--	DRY
MW-2C	12/2/2011	368.48	79.27	0.00	289.21	--	--	<40	<50	<0.50	<0.50	<0.50	<1.0	10	<0.50	1.3	
MW-3B	9/1/2011	369.85	82.13	0.00	287.72	295.08	-7.36	--	--	--	--	--	--	--	--	--	
MW-3B	12/2/2011	369.85	80.65	0.00	289.20	287.72	1.48	<40	<50	<0.50	<0.50	<0.50	<1.0	4.5	<0.50	3.2	
MW-4	9/1/2011	371.58	77.86	0.00	293.72	301.42	-7.70	--	--	--	--	--	--	--	--	--	
MW-4	12/1/2011	371.58	79.48	0.00	292.10	293.72	-1.62	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	
MW-5	9/1/2011	366.04	67.75	0.00	298.29	301.33	-3.04	4,800	9,100	1,800	49	550	130	2,600	<5.0	<5.0	A01
MW-5	12/2/2011	366.04	69.15	0.00	296.89	298.29	-1.40	5,900	10,000	1,500	69	470	130	3,100	<0.50	<0.50	A01, A52
MW-6	9/1/2011	366.22	81.25	0.00	284.97	295.33	-10.36	--	--	--	--	--	--	--	--	--	
MW-6	12/1/2011	366.22	76.95	0.00	289.27	284.97	4.30	<40	<50	<0.50	<0.50	<0.50	<1.0	15	<0.50	3.4	
MW-7	9/1/2011	358.67	65.10	0.00	293.57	299.42	-5.85	200	1,500	120	<2.5	9.2	<5.0	490	<2.5	<2.5	A01
MW-7	12/2/2011	358.67	65.10	0.00	293.57	293.57	0.00	220	1,400	15	<0.50	1.4	<1.0	17	15	<0.50	A52
MW-8	9/1/2011	365.07	69.57	0.00	295.50	301.16	-5.66	<40	470	<2.5	<2.5	<2.5	<5.0	490	<2.5	<2.5	A01, A90
MW-8	12/2/2011	365.07	70.14	0.00	294.93	295.50	-0.57	73	390	<0.50	<0.50	<0.50	<1.0	880	<0.50	<0.50	A01, A52
MW-9	9/1/2011	357.67	64.38	0.00	293.29	299.65	-6.36	--	--	--	--	--	--	--	--	--	
MW-9	12/1/2011	357.67	63.74	0.00	293.93	293.29	0.64	<40	<50	<0.50	<0.50	<0.50	<1.0	5.2	<0.50	<0.50	
MW-10	9/1/2011	365.42	80.62	0.00	284.80	295.07	-10.27	--	--	--	--	--	--	--	--	--	
MW-10	12/2/2011	365.42	76.14	0.00	289.28	284.80	4.48	<40	<50	<0.50	<0.50	<0.50	<1.0	6.4	<0.50	<0.50	
MW-11	9/1/2011	357.44	64.40	0.00	293.04	299.34	-6.30	--	--	--	--	--	--	--	--	--	
MW-11	12/1/2011	357.44	63.78	0.00	293.66	293.04	0.62	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	
MW-12	9/1/2011	356.89	64.02	0.00	292.87	299.29	-6.42	--	--	--	--	--	--	--	--	--	
MW-12	12/1/2011	356.89	63.20	0.00	293.69	292.87	0.82	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	
MW-13	9/1/2011	365.66	71.75	0.00	293.91	296.56	-2.65	<40	<50	<0.50	<0.50	<0.50	<1.0	12	<0.50	<0.50	
MW-13	12/2/2011	365.66	71.48	0.00	294.18	293.91	0.27	<40	<50	<0.50	<0.50	<0.50	<1.0	8.4	<0.50	<0.50	

Table 1
Current Groundwater Gauging and Analytical Results
76 Station 7376
4191 First Street, Pleasanton, California

Note

Analytical results given in micrograms per liter (µg/l) unless otherwise stated

Standard Abbreviations

--	not analyzed, measured, or collected
<	not detected at or above laboratory detection limit
TOC	top of casing (surveyed reference elevation)
feet MSL	feet relative to mean sea level
DTW	depth to water
BTOC	below top of casing
LPH	liquid-phase hydrocarbons
GW	groundwater
GWE	groundwater elevation

Analytes

TPH-d	total petroleum hydrocarbons with diesel (C12-C24)
TPH-g	total petroleum hydrocarbons with gasoline (C6-C12)
MTBE	methyl tertiary butyl ether
EDB	1,2-dibromoethane (same as ethylene dibromide)
EDC	1,2-dichloroethane (same as ethylene dichloride)
8015B	EPA Method 8015B for TPH-d
Luft-GC/MS	Luft Method GC/MS for TPH-g
GC/MS	gas chromatography–mass spectrometry
8260B	EPA Method 8260B for BTEX/MTBE/EDB/EDC

Laboratory Qualifiers

A01	PQL's and MDL's are raised due to sample dilution.
PQL	practical quantitation limit
MDL	method detection limit
A52	Chromatogram not typical of diesel.
A90	TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.
TPPH	total purgeable petroleum hydrocarbons

Table 2
Historic Groundwater Gauging and Analytical Results
76 Station 7376
4191 First Street, Pleasanton, California

Well ID	Date Sampled	TOC (feet MSL)	DTW (feet BTOC)	LPH Thickness (feet)	GW Elevation (feet MSL)	Previous Quarter GWE (feet MSL)	Change in Elevation (feet)	TPH-d (8015B)	TPH-g (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Comments
MW-1B	6/23/2011	369.28	74.14	0.00	295.14	289.92	5.22	73	81	<0.50	<0.50	<0.50	1.0	200	<0.50	<0.50	A01, A90
MW-1B	9/1/2011	369.28	79.69	0.00	289.59	295.14	-5.55	--	81	<0.50	<0.50	<0.50	<1.0	72	<0.50	<0.50	A90
MW-1B	12/2/2011	369.28	79.72	0.00	289.56	289.59	-0.03	<40	72	<0.50	<0.50	<0.50	<1.0	140	<0.50	<0.50	A01, A90
MW-2C	6/23/2011	368.48	73.92	0.00	294.56	288.61	5.95	130	<50	<0.50	<0.50	<0.50	1.2	60	<0.50	1.6	
MW-2C	9/1/2011	368.48	--	--	--	294.56	--	--	--	--	--	--	--	--	--	--	
MW-2C	12/2/2011	368.48	79.27	0.00	289.21	--	--	<40	<50	<0.50	<0.50	<0.50	<1.0	10	<0.50	1.3	
MW-3B	6/23/2011	369.85	74.77	0.00	295.08	288.65	6.43	80	<50	<0.50	<0.50	<0.50	1.2	6.2	<0.50	2.6	A52
MW-3B	9/1/2011	369.85	82.13	0.00	287.72	295.08	-7.36	--	--	--	--	--	--	--	--	--	
MW-3B	12/2/2011	369.85	80.65	0.00	289.20	287.72	1.48	<40	<50	<0.50	<0.50	<0.50	<1.0	4.5	<0.50	3.2	
MW-4	6/23/2011	371.58	70.16	0.00	301.42	293.17	8.25	76	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	A52
MW-4	9/1/2011	371.58	77.86	0.00	293.72	301.42	-7.70	--	--	--	--	--	--	--	--	--	
MW-4	12/1/2011	371.58	79.48	0.00	292.10	293.72	-1.62	<40	<50*	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	
MW-5	6/23/2011	366.04	64.71	0.00	301.33	297.42	3.91	7,100	10,000	1, 700	68	430	130	3,700	<0.50	<0.50	A01, A52
MW-5	9/1/2011	366.04	67.75	0.00	298.29	301.33	-3.04	4,800	9,100	1,800	49	550	130	2,600	<5.0	<5.0	A01
MW-5	12/2/2011	366.04	69.15	0.00	296.89	298.29	-1.40	5,900	10,000	1,500	69	470	130	3,100	<0.50	<0.50	A01, A52
MW-6	6/23/2011	366.22	70.89	0.00	295.33	288.67	6.66	<44	52	<0.50	<0.50	<0.50	<1.0	5.4	<0.50	<0.50	
MW-6	9/1/2011	366.22	81.25	0.00	284.97	295.33	-10.36	--	--	--	--	--	--	--	--	--	
MW-6	12/1/2011	366.22	76.95	0.00	289.27	284.97	4.30	<40	<50	<0.50	<0.50	<0.50	<1.0	15	<0.50	3.4	
MW-7	6/23/2011	358.67	59.25	0.00	299.42	293.05	6.37	160	1,800	72	<0.50	5.4	1.3	120	<0.50	<0.50	A01, A52
MW-7	9/1/2011	358.67	65.10	0.00	293.57	299.42	-5.85	200	1,500	120	<2.5	9.2	<5.0	490	<2.5	<2.5	A01
MW-7	12/2/2011	358.67	65.10	0.00	293.57	293.57	0.00	220	1,400	15	<0.50	1.4	<1.0	17	15	<0.50	A52
MW-8	6/23/2011	365.07	63.91	0.00	301.16	294.83	6.33	<40	230	<0.50	<0.50	<0.50	<1.0	680	<0.50	<0.50	A01, A90
MW-8	9/1/2011	365.07	69.57	0.00	295.50	301.16	-5.66	<40	470	<2.5	<2.5	<2.5	<5.0	490	<2.5	<2.5	A01, A90
MW-8	12/2/2011	365.07	70.14	0.00	294.93	295.50	-0.57	73	390	<0.50	<0.50	<0.50	<1.0	880	<0.50	<0.50	A01, A52
MW-9	6/23/2011	357.67	58.02	0.00	299.65	293.45	6.20	<44	<50	<0.50	<0.50	<0.50	<1.0	3.9	<0.50	<0.50	
MW-9	9/1/2011	357.67	64.38	0.00	293.29	299.65	-6.36	--	--	--	--	--	--	--	--	--	
MW-9	12/1/2011	357.67	63.74	0.00	293.93	293.29	0.64	<40	<50	<0.50	<0.50	<0.50	<1.0	5.2	<0.50	<0.50	
MW-10	6/23/2011	365.42	70.35	0.00	295.07	288.65	6.42	66	<50	<0.50	<0.50	<0.50	1.5	8.0	<0.50	<0.50	A52
MW-10	9/1/2011	365.42	80.62	0.00	284.80	295.07	-10.27	--	--	--	--	--	--	--	--	--	
MW-10	12/2/2011	365.42	76.14	0.00	289.28	284.80	4.48	<40	<50	<0.50	<0.50	<0.50	<1.0	6.4	<0.50	<0.50	

Table 2
Historic Groundwater Gauging and Analytical Results
76 Station 7376
4191 First Street, Pleasanton, California

Well ID	Date Sampled	TOC (feet MSL)	DTW (feet BTOC)	LPH Thickness (feet)	GW Elevation (feet MSL)	Previous Quarter GWE (feet MSL)	Change in Elevation (feet)	TPH-d (8015B)	TPH-g (GC/MS)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Comments
MW-11	6/23/2011	357.44	58.10	0.00	299.34	293.81	5.53	52	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	A52
MW-11	9/1/2011	357.44	64.40	0.00	293.04	299.34	-6.30	--	--	--	--	--	--	--	--	--	
MW-11	12/1/2011	357.44	63.78	0.00	293.66	293.04	0.62	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	
MW-12	6/23/2011	356.89	57.60	0.00	299.29	293.27	6.02	170	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	A52
MW-12	9/1/2011	356.89	64.02	0.00	292.87	299.29	-6.42	--	--	--	--	--	--	--	--	--	
MW-12	12/1/2011	356.89	63.20	0.00	293.69	292.87	0.82	<40	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	
MW-13	6/23/2011	365.66	69.10	0.00	296.56	293.95	2.61	<40	<50	<0.50	<0.50	<0.50	<1.0	14	<0.50	<0.50	
MW-13	9/1/2011	365.66	71.75	0.00	293.91	296.56	-2.65	<40	<50	<0.50	<0.50	<0.50	<1.0	12	<0.50	<0.50	
MW-13	12/2/2011	365.66	71.48	0.00	294.18	293.91	0.27	<40	<50	<0.50	<0.50	<0.50	<1.0	8.4	<0.50	<0.50	

Note

Analytical results given in micrograms per liter (µg/l) unless otherwise stated

Standard Abbreviations

--	not analyzed, measured, or collected
<	not detected at or above laboratory detection limit
TOC	top of casing (surveyed reference elevation)
feet MSL	feet relative to mean sea level
DTW	depth to water
BTOC	below top of casing
LPH	liquid-phase hydrocarbons
GW	groundwater
GWE	groundwater elevation

Analytes

TPH-d	total petroleum hydrocarbons with diesel (C12-C24)
TPH-g	total petroleum hydrocarbons with gasoline (C4-C12)
MTBE	methyl tertiary butyl ether
EDB	1,2-dibromoethane (same as ethylene dibromide)
EDC	1,2-dichloroethane (same as ethylene dichloride)
8015B	EPA Method 8015B for TPH-d
Luft-GC/MS	Luft Method GC/MS for TPH-g
GC/MS	gas chromatography–mass spectrometry
8260B	EPA Method 8260B for BTEX/MTBE/EDB/EDC

Laboratory Qualifiers

A01	PQL's and MDL's are raised due to sample dilution.
PQL	practical quantitation limit
MDL	method detection limit
A52	Chromatogram not typical of diesel.
A90	TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.
TPPH	total purgeable petroleum hydrocarbons

ARCADIS

Attachment A

Field Data Sheets and General Procedures

123 Technology Drive West
Irvine, CA 92618

949.727.9336 PHONE
949.727.7399 FAX

www.TRCsolutions.com

DATE: September 12, 2011

TO: Katherine Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, California 94608

SITE: Unocal Site 7376
Facility 351617
4191 First Street, Pleasanton, CA

RE: Transmittal of Groundwater Monitoring Data

Dear Ms. Brandt,

Please find attached the field data sheets, chain of custody (COC) forms, and technical services request (TSR) form for the monitoring event that was completed on September 1, 2011. Field measurements and collection of samples submitted to the laboratory were completed in general accordance with our usual groundwater monitoring protocol which is also attached for your reference.

Please call me at 949-341-7440 if you have questions.

Sincerely,

TRC

Anju Farfan
Groundwater Program Operations Manager

GENERAL FIELD PROCEDURES

Groundwater Gauging and Sampling Assignments

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

Fluid Level Measurements (Gauging)

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

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

Unless otherwise instructed, a well that is found to contain a measureable amount of LPH (0.01 foot) is not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed.

Purging and Groundwater Parameter Measurement

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

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

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

Groundwater Sample Collection

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

GENERAL FIELD PROCEDURES

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

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

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

Sequence of Gauging, Purging and Sampling

The sequence in which monitoring activities are conducted is specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well. If wells must be gauged or sampled out of order, alternate interface probes and/or pumps are utilized and are noted in field documentation.

Decontamination

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

Purge Water Disposal

Purge water is generally collected in labeled drums for disposal as non-hazardous waste. Drums may be left on site for disposal by others, or transported to a collection location at a TRC field office, in either Fullerton, California or Concord, California, for eventual transfer to a licensed treatment or recycling facility. Alternatively, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

Exceptions

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

FIELD MONITORING DATA SHEET

Technician: A. Vickers Job #/Task #: 183487.0035.1617 Date: 9/1/11

Site # 7376 Project Manager AF Page 1 of 2

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-4	✓	0622	93.08	77.86	—	—	N/S	2" Monitor Only
MW-6	✓	0630	88.28	81.25	—	—	N/S	2" ↓
MW-3B	✓	0639	82.63	82.13	—	—	N/S	2" Dry
MW-10	✓	0647	92.17	80.62	—	—	N/S	2" Monitor Only
MW-2C	✓	0655	81.97	—	—	—	N/S	2" Dry
MW-1B	✓	0701	82.27	79.69	—	—	1009	2"
MW-8	✓	0709	84.84	69.57	—	—	0912	2"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

FIELD MONITORING DATA SHEET

Technician: Bailey Job #/Task #: 183487.0035, 1617 Date: 9-1-11

Site # 7376 Project Manager Anja Page 2 of 2

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-12	✓	0630	88.85	64.02	—	—	N/S	2" Monitor
MW-11	✓	0650	84.94	64.40	—	—	N/S	2"
MW-9	✓	0710	74.62	64.38	—	—	N/S	2"
MW-13	✓	0716	76.45	71.75	—	—	0950	2"
MW-7	✓	0723	76.40	65.10	—	—	0900	2"
MW-5	✓	0734	72.52	67.75	—	—	0824	2"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Vickers

Site: 7376 Project No.: 183487.0035.1617 Date: 9/1/11

Well No. MW-1B Purge Method: HB

Depth to Water (feet): 79.69 Depth to Product (feet): —

Total Depth (feet) 82.27 LPH & Water Recovered (gallons): —

Water Column (feet): 2.58 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 80.21 1 Well Volume (gallons): 0.5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0800			.5	1204	20.1	6.75			
	0809		1	1216	20.1	6.76			
			1.5						

Static at Time Sampled	Total Gallons Purged	Sample Time
81.03	1	1009

Comments: Dry at 1 gallon. Did not recover in 2 hours. Went dry while sampling, see non-completion form.

Well No. MW-8 Purge Method: Sub

Depth to Water (feet): 69.57 Depth to Product (feet): —

Total Depth (feet) 84.84 LPH & Water Recovered (gallons): —

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

80% Recharge Depth(feet): 72.62 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0825			3	1010	18.1	6.43			
			6	1051	19.4	6.28			
	0832		9	1076	19.6	6.21			

Static at Time Sampled	Total Gallons Purged	Sample Time
72.62	9	0912

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Basilio

Site: 7376 Project No.: 183487.0035.1617 Date: 9-1-11

Well No. MW-13 Purge Method: HB

Depth to Water (feet): 71.75 Depth to Product (feet): —

Total Depth (feet) 76.45 LPH & Water Recovered (gallons): —

Water Column (feet): 4.70 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 72.69 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F ©)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0749			1	1099	19.0	5.66			
	0754		2	1069	19.1	5.60			
			3	—	—	—			

Static at Time Sampled	Total Gallons Purged	Sample Time
72.60	2	0950

Comments: Dry at 2 GL.

Well No. MW-5 Purge Method: HB

Depth to Water (feet): 67.75 Depth to Product (feet): —

Total Depth (feet) 72.52 LPH & Water Recovered (gallons): —

Water Column (feet): 4.77 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 68.70 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F ©)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0800			1	1509	19.1	6.01			
			2	1557	19.3	5.96			
	0806		3	1602	19.4	5.97			

Static at Time Sampled	Total Gallons Purged	Sample Time
68.70	3	0824

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Bailey

Site: 7376 Project No.: 183487.0035.1617 Date: 9-1-11

Well No. MW-7 Purge Method: Sub

Depth to Water (feet): 65.10 Depth to Product (feet): —

Total Depth (feet) 76.40 LPH & Water Recovered (gallons): —

Water Column (feet): 11.30 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 67.36 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0847			2	1669	18.2	6.88			
			4	1455	18.4	6.48			
	0851		6	1487	18.8	6.12			

Static at Time Sampled	Total Gallons Purged	Sample Time
65.80	6	0900

Comments:

Well No. Purge Method:

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

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

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

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

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									

Static at Time Sampled	Total Gallons Purged	Sample Time

Comments:

TRC

STATEMENT OF NON-COMPLETION OF JOB

DATE OF EVENT: 9/1/11 SITE ID: 7376

TECH: A. Vidovs CALLED SUPERVISOR: (YES) NO

CALLED PM: YES / NO NAME OF PM:

WELL ID: MW-3B, MW-2C

Dry wells.

WELL ID: MW-1B

Well did not recover in 2 hours, Went dry while sampling. Unable to collect sample for TPH-d.

WELL ID:

TRC

WELL BOX CONDITION REPORT

SITE NO. 7376

ADDRESS 4191 First st. Pleasanton, CA

DATE 9/1/11

PERFOMED BY: A Vidners

Well Name	Current Well Box Size	# of Ears	# of Stripped Ears	# of Broken Ears	# of Broken Bolts	# of Missing Bolts	Seal Damaged	Missing Lid	Broken Lid	Well Box is Exposed	Well Box is Below Grade	Unable to Access	Unable to Locate	Foundation Damaged	Paved Over	Street Well	Saw Cut Needed	System Well	USA Marked Well	Comments
MW-4	8"	2	0	0	0	0	N	N	N	N	N	N	N	Y	N	N	Y	N	Y	
MW-6	8"	2	0	0	0	0	N	N	N	N	N	N	N	N	N	N	N	N	N	
MW-3B	12"	2	0	0	0	0	N	N	N	N	N	N	N	N	N	N	N	N	N	
MW-10	8"	2	0	0	0	0	N	N	N	N	N	N	N	Y	N	N	Y	N	Y	
MW-2C	12"	2	0	0	0	0	N	N	N	N	N	N	N	N	N	N	N	N	N	
MW-1B	12"	2	0	0	0	0	N	N	N	N	N	N	N	N	N	N	N	N	N	
MW-8	8"	2	0	0	0	0	Y	N	N	N	N	N	N	N	N	N	N	N	N	
MW-1A														Y						Destroyed well, tripping hazard
CWA-3	12"	2	0	0	0	0	N	N	N	Y	N	N	N	Y	N	N	N	Y		
MW-1														Y						Destroyed well, tripping hazard

TRC

WELL BOX CONDITION REPORT

SITE NO. 7376

ADDRESS 4191 First St.

DATE 9-1-11

PERFOMED BY: Bailey

PAGE 2 OF 2

Well Name	Current Well Box Size	# of Ears	# of Stripped Ears	# of Broken Ears	# of Broken Bolts	# of Missing Bolts	Seal Damaged	Missing Lid	Broken Lid	Well Box is Exposed	Well Box is Below Grade	Unable to Access	Unable to Locate	Foundation Damaged	Paved Over	Street Well	Saw Cut Needed	System Well	USA Marked Well	Comments
MW12	8"	3	3	N	N	2	Y	N	N	N	N	N	N	N	N	N	N	N	N	Repaired
MW11	8"	3	2	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	Repaired
MW9	—	—		N																Monument well
MW13	12"	2	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
MW7	—	—																		Monument well
MW5	8"	3		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	

TRC

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: 7376	Union Oil Consultant: Arcadis
Site Global ID: T0600100101	Consultant Contact: Kathy Brandt
Site Address: 4191 First St. Pleasanton, CA	Consultant Phone No.: 510 596-9675
	Sampling Company: TRC
Union Oil PM: Reza Kamtin	Sampled By (PRINT): Andrew Vickers
Union Oil PM Phone No.: 925 790 6270	Sampler Signature:
Charge Code: NWRTB- 0 3516 17 -0- LAB	**BC Laboratories, Inc.**
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	**Project Manager: Molly Meyers** 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

ANALYSES REQUIRED

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

Special Instructions

SAMPLE ID						ANALYSES REQUIRED											
Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	EDB/EDC by 8260B						Notes / Comments
MW-13	W-S-A		110901	0950	5	X	X	X			X						
MW-18	W-S-A			1009	3												
MW-8	W-S-A			0912	5	X											
MW-7	W-S-A			0900	5	X											
MW-5	W-S-A			0824	5	X											
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																

Relinquished By: [signature]	Company: TRC	Date / Time: 9/1/11 1200
Received By: RLRuy	Company: BC	Date / Time: 9-1-11 1340

Relinquished By	Company	Date / Time :
Received By	Company	Date / Time :

Relinquished By	Company	Date / Time:
Received By	Company	Date / Time:

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: 7376	Union Oil Consultant: Arcadis
Site Global ID: T0600100101	Consultant Contact: Kathy Brandt
Site Address: 4191 First St. Pleasanton, CA	Consultant Phone No.: 510 596 9075
	Sampling Company: TRC
Union Oil PM: Roya Kamfiin	Sampled By (PRINT): Andrew Vidners
Union Oil PM Phone No.: 925 790 0270	
Charge Code: NWRTB- 0 351617 -0- LAB	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: Please send samples to Zymax

SAMPLE ID						ANALYSES REQUIRED											
Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	PIANO	PAH biomarkers and the isotopes					Notes / Comments
MW-5	W-S-A		110901	0824	5						X	X					
MW-7	W-S-A		"	0900	5						X	X					
MW-8	W-S-A		"	0912	5						X	X					
MW-1B	W-S-A		"	1009	4						X	X					
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																

Relinquished By: [signature] Company: TRC Date / Time: 9/01/11 1340	Relinquished By Company Date / Time :	Relinquished By Company Date / Time:
Received By: RLRuy Company: BC Date / Time: 9.1.11 1340	Received By Company Date / Time :	Received By Company Date / Time:

updated TSR

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

30-Aug-11

Site ID:	7376	**Project No.:**	183487.0035.1617 / 00TA01
Address	4191 First Street	**Client:**	Roya Kambin
City:	Pleasanton	**Contact #:**	925-790-6270
Cross Street:	Ray Street	**PM:**	Kathy Brandt Arcadis
		PM Contact #:	510-596-9675

Total number of wells:	13	**Min. Well Diameter (in.):**	2	**# of Techs, # of Hrs:**	2, 5
Depth to Water (ft.):	71	**Max. Well Diameter (in.):**	2	**Travel Time (hrs):**	
		Max. Well Depth (ft):	94		

ACTIVITIES:		**Frequency**	**Notes**
Gauging:	☑	Quarterly	
Purge/Sampling:	☑	Quarterly	
No Purge/Sample	☐		

RELATED ACTIVITIES		**Note**
Drums:	☑	
Other Activities:	☐	
Traffic Control:	☑	City of Pleasanton

PERMIT INFORMATION:

24 hour notification to PW Inspection 925-931-5680

NOTIFICATIONS:

Delong Oil: 925-485-4448

SITE INFORMATION:

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

30-Aug-11

Site ID:	7376	**Project No.:**	183487.0035.1617 / 00TA01
Address	4191 First Street	**Client:**	Roya Kambin
City:	Pleasanton	**Contact #:**	925-790-6270
Cross Street:	Ray Street	**PM:**	Kathy Brandt Arcadis
		PM Contact #:	510-596-9675

LAB INFORMATION:

Global ID: T0600100101

Lab WO: 351617

Lab Used: BC Labs

Lab Notes: Lab Analyses:
TPH-D by 8015M [Containers: two 1Qt amber unpreserved]
TPH-G by GC/MS, BTEX/MTBE by 8260B, EDB/EDC by 8260B [Containers: 3 voas w/ HCl]

Additional Analyses: MW-5, MW-7, MW-8 and MW-1B (3)
PIANO, PAH biomarkers and the isotopes (Containers: two 40ml HCl preserved voas and (TWO) 1L unpreserved amber)

BC labs will be handling the shipping of the samples. Please keep the Isotope COC separate and put them on hold.

Per Molly make sure you put send these samples to Zymax

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

30-Aug-11

Site ID.: 7376
Address 4191 First Street
City: Pleasanton
Cross Street Ray Street

			Gauging				Sampling				Field Measurements			
Well IDs	Benz.	MTBE	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Pre-Purge	Post-Purge	Type	**Comments**
MW-4	0	0	☑	☑	☑	☑	☐	☑	☐	☑	☐	☐		2" casing
MW-12	0	0	☑	☑	☑	☑	☐	☑	☐	☑	☐	☐		2" casing
MW-11	0	0	☑	☑	☑	☑	☐	☑	☐	☑	☐	☐		2" casing
MW-9	0	3.9	☑	☑	☑	☑	☐	☑	☐	☑	☐	☐		2" casing/monument well
MW-6	0	5.4	☑	☑	☑	☑	☐	☑	☐	☑	☐	☐		2" casing
MW-3B	0	6.2	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-10	0	8	☑	☑	☑	☑	☐	☑	☐	☑	☐	☐		2" casing
MW-13	0	14	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-2C	0	60	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-1B	0	200	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-8	0	680	☑	☑	☑	☑	☐	☑	☑	☑	☐	☐		2" casing
MW-7	72	120	☑	☑	☑	☑	☐	☑	☑	☑	☐	☐		2" casing/Monument well
MW-5	1700	3700	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		2" casing

123 Technology Drive West
Irvine, CA 92618

949.727.9336 PHONE
949.727.7399 FAX

www.TRCsolutions.com

DATE: December 8, 2011

TO: Katherine Brandt
ARCADIS U.S., Inc.
1900 Powell Street, 12th Floor
Emeryville, California 94608

SITE: Unocal Site 7376
Facility 351617
4191 First Street, Pleasanton, CA

RE: Transmittal of Groundwater Monitoring Data

Dear Ms. Brandt,

Please find attached the field data sheets, chain of custody (COC) forms, and technical services request (TSR) form for the monitoring event that was completed on December 1, 2011. Field measurements and collection of samples submitted to the laboratory were completed in general accordance with our usual groundwater monitoring protocol which is also attached for your reference.

Please call me at 949-341-7440 if you have questions.

Sincerely,

TRC

Anju Farfan
Groundwater Program Operations Manager

GENERAL FIELD PROCEDURES

Groundwater Gauging and Sampling Assignments

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

Fluid Level Measurements (Gauging)

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

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

Unless otherwise instructed, a well that is found to contain a measureable amount of LPH (0.01 foot) is not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed.

Purging and Groundwater Parameter Measurement

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps. The pump intake is initially set at about 5 feet below the level of water in the casing, and is lowered as needed to compensate for falling water level. Pump depths are recorded in Field Notes.

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

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

Groundwater Sample Collection

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

GENERAL FIELD PROCEDURES

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

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

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

Sequence of Gauging, Purging and Sampling

The sequence in which monitoring activities are conducted is specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well. If wells must be gauged or sampled out of order, alternate interface probes and/or pumps are utilized and are noted in field documentation.

Decontamination

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

Purge Water Disposal

Purge water is generally collected in labeled drums for disposal as non-hazardous waste. Drums may be left on site for disposal by others, or transported to a collection location at a TRC field office, in either Fullerton, California or Concord, California, for eventual transfer to a licensed treatment or recycling facility. Alternatively, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

Exceptions

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

FIELD MONITORING DATA SHEET

Technician: Bambo Job #/Task #: 183487.2035.1617 Date: 12/1/11

Site # 7376 Project Manager A. F Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-4	✓	0652	93.10	79.48	—	—	1300	2"
MW-11	✓	0708	84.95	63.78	—	—	1035	2"
MW-12	✓	0715	88.85	63.20	—	—	1112	2"
MW-9	✓	0732	74.62	63.74	—	—	1147	2"
MW-6	✓	0741	88.28	76.95	—	—	1230	2"
MW-3B	✓	0750	82.15	80.65	—	—	1050	2" Purged/Sampled 12/2/11
MW-10	✓	0758	92.17	76.14	—	—	0757	2"
MW-13	✓	0810	76.45	71.48	—	—	1150	2"
MW-2C	✓	0819	81.97	79.27	—	—	1107	2"
MW-1B	✓	0826	82.27	79.72	—	—	1120	2"
MW-8	✓	0839	84.85	70.14	—	—	1203	2"
MW-7	✓	0849	76.40	65.10	—	—	1004	2"
MW-5	✓	0858	72.52	69.15	—	—	1230	2"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Baulin

Site: 7376 Project No.: 183487.0035.1617 Date: 12-1-11

Well No. MW-4 Purge Method: SUB

Depth to Water (feet): 79.48 Depth to Product (feet): —

Total Depth (feet) 93.10 LPH & Water Recovered (gallons): —

Water Column (feet): 13.62 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 82.20 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0947			3	808.0	15.6	8.26			
	0950		6	818.3	17.9	7.86			
1006	1010		9	836.9	18.6	7.29			

Static at Time Sampled	Total Gallons Purged	Sample Time
82.27	9	1300

Comments: Dry at 6 bbls. Completed Purge. Did not recover in 2 hrs.

Well No. MW-11 Purge Method: SUB

Depth to Water (feet): 63.78 Depth to Product (feet): —

Total Depth (feet) 84.95 LPH & Water Recovered (gallons): —

Water Column (feet): 21.17 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 68.01 1 Well Volume (gallons): 4

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
1023			4	918.1	17.7	7.55			
			8	994.2	18.1	7.20			
	1028		12	998.9	18.3	7.09			

Static at Time Sampled	Total Gallons Purged	Sample Time
63.84	12	1035

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Basilio

Site: 7376 Project No.: 183487.0035.1617 Date: 12-1-11

Well No. MW-12 Purge Method: Sub

Depth to Water (feet): 63.20 Depth to Product (feet): —

Total Depth (feet) 88.85 LPH & Water Recovered (gallons): —

Water Column (feet): 25.65 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 68.33 1 Well Volume (gallons): 5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
1054			5	859.4	17.5	7.00			
			10	879.3	18.2	6.85			
	1102		15	896.7	18.4	6.78			

Static at Time Sampled	Total Gallons Purged	Sample Time
63.27	15	1112

Comments:

Well No. MW-9 Purge Method: Sub

Depth to Water (feet): 63.74 Depth to Product (feet): —

Total Depth (feet) 74.62 LPH & Water Recovered (gallons): —

Water Column (feet): 10.88 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 65.91 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
1136			2	1057	16.6	7.19			
			4	1002	17.7	7.14			
	1140		6	1004	18.2	6.96			

Static at Time Sampled	Total Gallons Purged	Sample Time
63.90	6	1147

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Basilio

Site: 7376 Project No.: 183487.0035.1617 Date: 12-1-11

Well No. MW-6 Purge Method: Sub

Depth to Water (feet): 76.95 Depth to Product (feet): —

Total Depth (feet) 88.28 LPH & Water Recovered (gallons): —

Water Column (feet): 11.33 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 79.21 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
1215			2	1072	17.2	7.64			
			4	1074	18.3	7.34			
	1219		6	1074	19.0	6.97			

Static at Time Sampled	Total Gallons Purged	Sample Time
76.95	6	1230

Comments:

Well No. MW-10 Purge Method: Sub

Depth to Water (feet): 76.14 Depth to Product (feet): —

Total Depth (feet) 92.17 LPH & Water Recovered (gallons): —

Water Column (feet): 16.03 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 79.34 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0744			3	1067.5	16.2	7.39			
			6	1019	18.3	7.55			
	0749		9	1017	18.9	7.21			

Static at Time Sampled	Total Gallons Purged	Sample Time
76.14	9	0757 12/2/11

Comments: Purged and sampled 12-2-11

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Basilio

Site: 7376 Project No.: 183487.0035.1617 Date: 12/2/11

Well No. MW-3B Purge Method: HB

Depth to Water (feet): 80.65 Depth to Product (feet): —

Total Depth (feet) 82.15 LPH & Water Recovered (gallons): —

Water Column (feet): 1.50 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 80.95 1 Well Volume (gallons): 0.5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0819	0824		0.5	1122	19.5	6.99			
			1.0	—	—	—			
			1.5	—	—	—			

Static at Time Sampled	Total Gallons Purged	Sample Time
80.48	0.5	1050

Comments: Dry at 0.5 GL.

Well No. MW-12C Purge Method: HB

Depth to Water (feet): 79.27 Depth to Product (feet): —

Total Depth (feet) 81.97 LPH & Water Recovered (gallons): —

Water Column (feet): 2.70 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 79.81 1 Well Volume (gallons): 0.5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0828			0.5	1360	18.8	7.41			
			1.0	1327	19.3	7.19			
	0834		1.5	1319	19.1	7.17			

Static at Time Sampled	Total Gallons Purged	Sample Time
79.27	1.5	1107

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Barlow

Site: 7376 Project No.: 183487.0035.1617 Date: 12/2/11

Well No. MW-18 Purge Method: HB

Depth to Water (feet): 79.72 Depth to Product (feet): —

Total Depth (feet) 82.27 LPH & Water Recovered (gallons): —

Water Column (feet): 2.55 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 80.23 1 Well Volume (gallons): 0.5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0838	0845		0.5	1175	18.6	7.80			
			1.0	1182	18.9	7.85			
			1.5	—	—	—			

Static at Time Sampled	Total Gallons Purged	Sample Time
80.18	1	1120

Comments: Dry at 1 Gls.

Well No. MW-13 Purge Method: HB

Depth to Water (feet): 71.48 Depth to Product (feet): —

Total Depth (feet) 76.45 LPH & Water Recovered (gallons): —

Water Column (feet): 4.97 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 72.47 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0903			1	1066	17.1	8.20			
	0908		2	1059	18.2	7.36			
			3	—	—	—			

Static at Time Sampled	Total Gallons Purged	Sample Time
71.85	2	1150

Comments: Dry at 2 Gls.

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Basilio

Site: 7376 Project No.: 183487.0035.1617 Date: 12/2/11

Well No. MW-8 Purge Method: Sub

Depth to Water (feet): 70.14 Depth to Product (feet): —

Total Depth (feet) 84.85 LPH & Water Recovered (gallons): —

Water Column (feet): 14.71 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 73.08 1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, ©)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0925			3	1069	17.3	8.21			
			6	1032	18.1	7.70			
	0930		9	1029	18.5	7.12			

Static at Time Sampled	Total Gallons Purged	Sample Time
70.48	9	1203

Comments:

Well No. MW-7 Purge Method: Sub

Depth to Water (feet): 65.10 Depth to Product (feet): —

Total Depth (feet) 76.40 LPH & Water Recovered (gallons): —

Water Column (feet): 11.30 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 67.36 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, ©)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0952			2	1466	16.4	7.02			
			4	1429	17.8	6.98			
	0956		6	1452	17.9	6.88			

Static at Time Sampled	Total Gallons Purged	Sample Time
65.96	6	1004

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Banks

Site: 7376 Project No.: 183487.0035.1617 Date: 12/2/11

Well No. MW-5 Purge Method: HB

Depth to Water (feet): 69.15 Depth to Product (feet): —

Total Depth (feet) 72.52 LPH & Water Recovered (gallons): —

Water Column (feet): 3.37 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 69.82 1 Well Volume (gallons): 1

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
1022			1	1634	19.1	7.34			
			2	1623	19.4	7.01			
	1032		3	—	—	—			

Static at Time Sampled	Total Gallons Purged	Sample Time
69.22	2	1230

Comments: Dry at 2 Gls

Well No. Purge Method:

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

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

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

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

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F , C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									

Static at Time Sampled	Total Gallons Purged	Sample Time

Comments:

TRC

WELL BOX CONDITION REPORT

SITE NO. 7376

ADDRESS 4191 First St.

DATE 12/1/11

PERFOMED BY: Barbo

PAGE 1 OF 1

Well Name	Current Well Box Size	# of Ears	# of Stripped Ears	# of Broken Ears	# of Broken Bolts	# of Missing Bolts	Seal Damaged	Missing Lid	Broken Lid	Well Box is Exposed	Well Box is Below Grade	Unable to Access	Unable to Locate	Foundation Damaged	Paved Over	Street Well	Saw Cut Needed	System Well	USA Marked Well	Comments
MW-4	8"	2																		
MW-11	8"	3																		
MW-12	8"	3																		
MW-9	—	0																		Monument
MW-6	8"	2																		
MW-3B	12"	2																		
MW-10	8"	2																		
MW-13	12"	2																		
MW-2C	12"	2																		
MW-1B	12"	2																		
MW-8	8"	2																		
MW-7	—	0																		Monument
MW-5	8"	3																		

TRC

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: 7376	Union Oil Consultant: Arcadis
Site Global ID: T0600100101	Consultant Contact: Leah Bakerman
Site Address: 4191 First Street, Pleasanton	Consultant Phone No.: 925-296-7828
	Sampling Company: TRC
Union Oil PM: Roya Kambin	Sampled By (PRINT): Basilio
Union Oil PM Phone No.: 925 790-6270	Sampler Signature: [signature]
Charge Code: NWRTB- 0 351617 -0- LAB	**BC Laboratories, Inc.** **Project Manager: Molly Meyers** 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	

ANALYSES REQUIRED

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

Special Instructions

SAMPLE ID

Field Point Name	Matrix	DTW	Date (~~yymmdd~~)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS (C6-C12)	BTEX/MTBE/~~OXYS~~ by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	EDB/EDC by 8260B						Notes / Comments
MW-4	W-S-A		12-1-11	1300	5	X	X	X			X						
MW-11	W-S-A		↓	1035	↓	↓	↓	↓			↓						
MW-12	W-S-A		↓	1112	↓	↓	↓	↓			↓						
MW-9	W-S-A		↓	1147	↓	↓	↓	↓			↓						
MW-6	W-S-A		↓	1230	↓	↓	↓	↓			↓						
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time :	Relinquished By	Company	Date / Time:
[signature]	TRC	12/1/11 1450						
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time :**	**Received By**	**Company**	**Date / Time:**
[signature]	BC Labs	12-1-11 1450						

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: 7376	Union Oil Consultant: Arcadis
Site Global ID: T0600100101	Consultant Contact: Leah Ackerman
Site Address: 4191 First Street Pleasanton	Consultant Phone No.: 925-276-7828
	Sampling Company: TRC
Union Oil PM: [illegible]	Sampled By (PRINT): Barolin
Union Oil PM Phone No.: 925-790-6270	Sampler Signature: [signature]
Charge Code: NWRTB- 0 351617 -0- LAB	**BC Laboratories, Inc.** **Project Manager: Molly Meyers** 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.

ANALYSES REQUIRED

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

Special Instructions: [illegible handwriting]

SAMPLE ID

Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS (C6-C12)	BTEX/MTBE/OXYS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	EDB/EDC by 8260B						Notes / Comments
MW-3B	W-S-A		12/2/11	1050	4	X	X	X			X						
MW-10	W-S-A		↓	0757	5	↓	↓	↓			↓						
MW-13	W-S-A			1150	5												
MW-2C	W-S-A			1107	5												
MW-1B	W-S-A			1120	4												
MW-8	W-S-A			1203	5												
MW-7	W-S-A			1004	5												
MW-5	W-S-A		↓	1230	4	↓	↓	↓			↓						
	W-S-A																
	W-S-A																
	W-S-A																
	W-S-A																

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time :	Relinquished By	Company	Date / Time:
[signature]	TRC	12/2/11 1400						
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time :**	**Received By**	**Company**	**Date / Time:**
[illegible]		[illegible]						

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

21-Nov-11

Site ID:	7376	**Project No.:**	183487.0035.1617 / 00TA01
Address	4191 First Street	**Client:**	Roya Kambin
City:	Pleasanton	**Contact #:**	925-790-6270
Cross Street:	Ray Street	**PM:**	Leah Ackerman Arcadis
		PM Contact #:	925-296-7828

Total number of wells:	13	**Min. Well Diameter (in.):**	2	**# of Techs, # of Hrs:**	2, 5
Depth to Water (ft.):	71	**Max. Well Diameter (in.):**	2	**Travel Time (hrs):**	
		Max. Well Depth (ft):	94		

ACTIVITIES:		**Frequency**	**Notes**
Gauging:	☑	Quarterly	
Purge/Sampling:	☑	Quarterly	
No Purge/Sample	☐		

RELATED ACTIVITIES		**Notes**
Drums:	☑	
Other Activities:	☐	
Traffic Control:	☑	City of Pleasanton permit attached

PERMIT INFORMATION:

24 hour notification to PW inspection 925-931-5680

NOTIFICATIONS:

De Long Oil: 925-485-4448

SITE INFORMATION:

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

21-Nov-11

Site ID:	7376	**Project No.:**	183487.0035.1617 / 00TA01
Address	4191 First Street	**Client:**	Roya Kambin
City:	Pleasanton	**Contact #:**	925-790-6270
Cross Street:	Ray Street	**PM:**	Leah Ackerman Arcadis
		PM Contact #:	925-296-7828

LAB INFORMATION:

Global ID: T0600100101

Lab WO: 351617

Lab Used: BC Labs

Lab Notes: Lab Analyses:
TPH-D by 8015M [Containers: two 1Qt amber unpreserved]
TPH-G by GC/MS (C6 - C12), BTEX/MTBE by 8260B, EDB/EDC by 8260B [Containers: 3 voas w/ HCl]

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

21-Nov-11

Site ID.: 7376
Address 4191 First Street
City: Pleasanton
Cross Street Ray Street

			Gauging				Sampling				Field Measurements			
Well IDs	**Benz.**	**MTBE**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Pre-Purge**	**Post-Purge**	**Type**	**Comments**
MW-4	0	0	☑	☑	☑	☑	☐	☑	☐	☑	☐	☐		2" casing
MW-12	0	0	☑	☑	☑	☑	☐	☑	☐	☑	☐	☐		2" casing
MW-11	0	0	☑	☑	☑	☑	☐	☑	☐	☑	☐	☐		2" casing
MW-9	0	3.9	☑	☑	☑	☑	☐	☑	☐	☑	☐	☐		2" casing/monument well
MW-6	0	5.4	☑	☑	☑	☑	☐	☑	☐	☑	☐	☐		2" casing
MW-3B	0	6.2	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-10	0	8	☑	☑	☑	☑	☐	☑	☐	☑	☐	☐		2" casing
MW-13	0	12	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-2C	0	60	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-1B	0	72	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		
MW-8	0	490	☑	☑	☑	☑	☐	☑	☐	☑	☐	☐		2" casing
MW-7	120	0	☑	☑	☑	☑	☐	☑	☐	☑	☐	☐		2" casing/Monument well
MW-5	1800	2600	☑	☑	☑	☑	☑	☑	☑	☑	☐	☐		2" casing

FIELD MONITORING DATA SHEET

Technician: Basil Job #/Task #: 183487.0035.1617 Date: 11/4/11

Site # 7376 Project Manager A.F. Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-5	✓	1156	72.50	69.50	—	—	N/S	2"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

ARCADIS

Attachment B

Historical Groundwater Results from TRC

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

December 1987 Through March 2011

76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1			**(Screen Interval in feet: 65.0-95.0)**											
12/8/1987	--	--	--	--	--	50	--	58	8.0	ND	10	--	--	
12/7/1994	366.99	81.04	0.00	285.95	--	ND	--	ND	ND	ND	ND	--	--	
3/1/1995	366.99	80.09	0.00	286.90	0.95	ND	--	ND	1.1	ND	1.3	--	--	
6/1/1995	366.99	77.53	0.00	289.46	2.56	130	--	1.0	2.9	0.79	4.5	--	--	
9/6/1995	366.99	79.00	0.00	287.99	-1.47	ND	--	ND	ND	ND	ND	--	--	
12/12/1995	366.99	77.55	0.00	289.44	1.45	ND	--	ND	ND	ND	ND	--	--	
3/1/1996	366.99	75.09	0.00	291.90	2.46	ND	--	ND	ND	ND	ND	370	--	
6/15/1996	366.99	75.07	0.00	291.92	0.02	ND	--	ND	ND	ND	ND	270	--	
9/18/1996	366.99	79.90	0.00	287.09	-4.83	ND	--	ND	ND	ND	ND	590	--	
12/21/1996	366.99	78.96	0.00	288.03	0.94	ND	--	ND	ND	ND	ND	150	--	
3/7/1997	366.99	71.49	0.00	295.50	7.47	ND	--	ND	ND	ND	ND	220	--	
6/27/1997	366.99	80.05	0.00	286.94	-8.56	ND	--	ND	ND	ND	ND	17	--	
9/29/1997	366.99	80.04	0.00	286.95	0.01	ND	--	ND	ND	ND	ND	24	--	
12/15/1997	366.99	80.07	0.00	286.92	-0.03	ND	--	ND	ND	ND	ND	25	--	
3/16/1998	366.99	71.00	0.00	295.99	9.07	ND	--	ND	0.52	ND	0.71	190	--	
6/26/1998	366.98	79.29	0.00	287.69	-8.30	59	--	0.90	ND	ND	ND	570	--	
8/18/1998	366.98	79.93	0.00	287.05	-0.64	--	--	--	--	--	--	--	--	
9/22/1998	366.98	79.99	0.00	286.99	-0.06	ND	--	ND	ND	ND	ND	170	--	
12/15/1998	366.98	80.02	0.00	286.96	-0.03	ND	--	ND	ND	ND	ND	63	--	
12/23/1998	366.98	80.02	0.00	286.96	0.00	--	--	--	--	--	--	--	--	
3/15/1999	366.98	78.95	0.00	288.03	1.07	ND	--	ND	ND	ND	ND	520	--	
3/23/1999	366.98	78.69	0.00	288.29	0.26	--	--	--	--	--	--	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1 continued														
6/7/1999	366.98	79.82	0.00	287.16	-1.13	ND	--	ND	ND	ND	ND	310	--	
9/3/1999	366.98	79.74	0.00	287.24	0.08	ND	--	ND	ND	ND	ND	67	55.2	
12/6/1999	366.98	79.74	0.00	287.24	0.00	ND	--	ND	ND	ND	ND	120	--	
3/10/2000	366.98	79.66	0.00	287.32	0.08	ND	--	ND	ND	ND	ND	100	--	
6/8/2000	366.98	79.57	0.00	287.41	0.09	ND	--	ND	ND	ND	ND	98.9	--	
9/25/2000	366.98	79.48	0.00	287.50	0.09	ND	--	ND	ND	ND	ND	145	--	
12/19/2000	366.98	79.64	0.00	287.34	-0.16	ND	--	ND	ND	ND	ND	330	--	
3/5/2001	366.98	80.03	0.00	286.95	-0.39	ND	--	ND	ND	ND	ND	711	--	
6/14/2001	366.98	79.52	0.00	287.46	0.51	ND	--	ND	ND	ND	ND	680	--	
9/17/2001	366.98	79.76	0.00	287.22	-0.24	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	11	--	
9/25/2001	366.98	79.71	0.00	287.27	0.05	--	--	--	--	--	--	--	--	
12/17/2001	366.98	80.73	0.00	286.25	-1.02	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	210	240	
3/15/2002	366.98	79.51	0.00	287.47	1.22	ND<500	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1200	--	
6/20/2002	366.98	79.60	0.00	287.38	-0.09	--	580	ND<5.0	ND<5.0	ND<5.0	ND<10	--	810	
9/27/2002	366.98	80.76	0.00	286.22	-1.16	--	67	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	71	
12/30/2002	366.98	81.28	0.00	285.70	-0.52	--	ND<200	ND<2.0	ND<2.0	ND<2.0	ND<4.0	--	360	
3/26/2003	366.98	79.48	0.00	287.50	1.80	--	1300	ND<10	ND<10	ND<10	ND<20	--	2000	
6/10/2003	366.98	80.29	0.00	286.69	-0.81	--	ND<2000	ND<20	ND<20	ND<20	ND<40	--	2800	
9/9/2003	366.98	84.54	0.00	282.44	-4.25	--	1000	ND<10	ND<10	ND<10	ND<20	--	1900	
12/10/2003	366.98	80.01	0.00	286.97	4.53	--	ND<2000	ND<20	ND<20	ND<20	ND<40	--	2700	
3/9/2004	366.98	79.48	0.00	287.50	0.53	--	540	ND<5.0	ND<5.0	ND<5.0	ND<10	--	840	
6/21/2004	366.98	79.49	0.00	287.49	-0.01	--	650	ND<5.0	ND<5.0	ND<5.0	ND<10	--	620	
9/8/2004	366.98	79.43	0.00	287.55	0.06	--	93	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	120	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1 continued														
12/14/2004	366.98	79.45	0.00	287.53	-0.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	150	
3/17/2005	366.98	79.36	0.00	287.62	0.09	--	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<10	--	830	
6/15/2005	366.98	78.21	0.00	288.77	1.15	--	ND<1300	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2800	
9/20/2005	366.98	79.18	0.00	287.80	-0.97	--	540	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1400	
12/29/2005	366.98	70.69	0.00	296.29	8.49	--	460	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1400	
3/15/2006	366.98	65.59	0.00	301.39	5.10	--	540	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2500	
6/28/2006	366.98	66.15	0.00	300.83	-0.56	--	630	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3900	
9/28/2006	366.98	70.13	0.00	296.85	-3.98	--	730	3.1	ND<2.5	ND<2.5	ND<2.5	--	2100	
12/11/2006	366.98	63.29	0.00	303.69	6.84	--	180	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1400	
3/19/2007	366.98	57.52	0.00	309.46	5.77	--	740	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	990	
6/15/2007	366.98	66.79	0.00	300.19	-9.27	--	1400	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	1900	
9/24/2007	366.98	69.64	0.00	297.34	-2.85	--	1100	ND<10	ND<10	ND<10	ND<10	--	900	
12/27/2007	366.98	60.34	0.00	306.64	9.30	--	240	ND<0.50	0.63	ND<0.50	ND<1.0	--	560	
3/25/2008	366.98	60.85	0.00	306.13	-0.51	--	620	ND<5.0	ND<5.0	ND<5.0	ND<10	--	910	
6/6/2008	366.98	61.10	0.00	305.88	-0.25	--	830	ND<5.0	ND<5.0	ND<5.0	ND<10	--	1000	
9/5/2008	366.98	73.10	0.00	293.88	-12.00	--	200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	590	
12/8/2008	366.98	71.60	0.00	295.38	1.50	--	180	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	300	
3/26/2009	366.98	64.10	0.00	302.88	7.50	--	180	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	330	
6/22/2009	366.98	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
9/1/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed
MW-1B			**(Screen Interval in feet: 80.0-82.0)**											
9/1/2009	369.28	79.78	0.00	289.50	--	--	230	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	220	
12/17/2009	369.28	79.50	0.00	289.78	0.28	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	230	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1B continued														
2/4/2010	369.28	79.56	0.00	289.72	-0.06	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	370	
6/18/2010	369.28	78.17	0.00	291.11	1.39	--	200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	330	
9/10/2010	369.28	79.20	0.00	290.08	-1.03	--	200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	350	
12/28/2010	369.28	79.39	0.00	289.89	-0.19	--	63	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	150	
3/16/2011	369.28	79.36	0.00	289.92	0.03	--	84	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	140	
MW-2			**(Screen Interval in feet: --)**											
12/8/1987	--	--	--	--	--	1800	--	910	800	260	1200	--	--	Damaged
12/7/1994	--	--	--	--	--	--	--	--	--	--	--	--	--	
3/1/1995	--	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed
MW-2B			**(Screen Interval in feet: 65.0-85.0)**											
3/1/1995	365.05	80.80	0.00	284.25	--	ND	--	ND	ND	ND	ND	--	--	
6/1/1995	365.05	75.69	0.00	289.36	5.11	350	--	19	5.8	ND	7.7	--	--	
9/6/1995	365.05	77.54	0.00	287.51	-1.85	ND	--	90	ND	ND	ND	--	--	
12/12/1995	365.05	75.96	0.00	289.09	1.58	1200	--	630	ND	15	57	--	--	
3/1/1996	365.05	73.27	0.00	291.78	2.69	1000	--	620	ND	ND	5.3	4300	--	
6/15/1996	365.05	73.21	0.00	291.84	0.06	910	--	350	ND	ND	ND	3700	--	
9/18/1996	365.05	81.08	0.00	283.97	-7.87	1200	--	95	ND	ND	ND	5200	--	
12/21/1996	365.05	77.35	0.00	287.70	3.73	330	--	57	ND	ND	ND	2900	--	
3/7/1997	365.05	69.67	0.00	295.38	7.68	190	--	28	0.64	ND	1.5	4300	--	
6/27/1997	365.05	82.40	0.00	282.65	-12.73	98	--	3.4	1.0	0.53	ND	3100	--	
9/29/1997	365.05	82.72	0.00	282.33	-0.32	ND	--	ND	ND	ND	ND	3000	--	
12/15/1997	365.05	82.57	0.00	282.48	0.15	54	--	ND	ND	ND	ND	4100	--	
3/16/1998	365.05	69.13	0.00	295.92	13.44	ND	--	17	ND	ND	ND	4400	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-2B continued														
6/26/1998	365.05	77.78	0.00	287.27	-8.65	ND	--	ND	ND	ND	ND	4000	--	
8/18/1998	365.05	83.99	0.00	281.06	-6.21	--	--	--	--	--	--	--	--	
9/22/1998	365.05	83.89	0.00	281.16	0.10	ND	--	ND	ND	ND	21	4600	--	
12/15/1998	365.05	82.84	0.00	282.21	1.05	ND	--	ND	ND	ND	ND	5100	--	
12/23/1998	365.05	82.55	0.00	282.50	0.29	--	--	--	--	--	--	--	--	
3/15/1999	365.05	77.31	0.00	287.74	5.24	ND	--	ND	ND	ND	ND	4300	4800	
3/23/1999	365.05	77.06	0.00	287.99	0.25	--	--	--	--	--	--	--	--	
6/7/1999	365.05	82.96	0.00	282.09	-5.90	ND	--	ND	ND	ND	ND	5100	--	
9/3/1999	365.05	84.16	0.00	280.89	-1.20	ND	--	ND	ND	ND	ND	6300	4400	
12/6/1999	365.05	84.41	0.00	280.64	-0.25	ND	--	ND	ND	ND	ND	4400	--	
3/10/2000	365.05	82.42	0.00	282.63	1.99	ND	--	ND	ND	ND	ND	6900	--	
6/8/2000	365.05	82.73	0.00	282.32	-0.31	ND	--	ND	ND	ND	ND	7780	--	
9/25/2000	365.05	84.24	0.00	280.81	-1.51	52.9	--	8.83	6.58	0.932	5.60	12200	--	
12/19/2000	365.05	84.39	0.00	280.66	-0.15	ND	--	ND	ND	ND	ND	6000	--	
3/5/2001	365.05	84.61	0.00	280.44	-0.22	ND	--	ND	ND	ND	ND	5890	--	
6/14/2001	365.05	83.53	0.00	281.52	1.08	ND	--	ND	ND	ND	ND	6600	--	
9/17/2001	365.05	84.55	0.00	280.50	-1.02	ND<200	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	5100	--	
9/25/2001	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
12/17/2001	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/15/2002	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
6/20/2002	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
9/27/2002	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/30/2002	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Dry well

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-2B continued														
3/26/2003	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
6/10/2003	365.05	83.17	0.00	281.88	--	--	ND<5000	ND<50	ND<50	ND<50	ND<100	6400	--	
9/9/2003	365.05	84.56	0.00	280.49	-1.39	--	--	--	--	--	--	--	--	Car parked over well
12/10/2003	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/9/2004	365.05	84.13	0.00	280.92	--	--	ND<5000	ND<50	ND<50	ND<50	ND<100	--	5200	
6/21/2004	365.05	83.71	0.00	281.34	0.42	--	3400	ND<25	ND<25	ND<25	ND<50	--	4600	
9/8/2004	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/14/2004	365.05	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/17/2005	365.05	79.55	0.00	285.50	--	--	ND<5000	ND<0.50	ND<0.50	0.83	ND<1.0	--	7800	
6/15/2005	365.05	76.89	0.00	288.16	2.66	--	ND<5000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6400	
9/20/2005	--	83.24	0.00	--	--	--	3200	ND<12	ND<12	ND<12	ND<25	--	6000	Casing elevation modified on 6/22/2005
12/29/2005	--	--	--	--	--	--	--	--	--	--	--	--	--	Car parked over well
3/15/2006	--	64.03	0.00	--	--	--	ND<5000	ND<50	ND<50	ND<50	ND<100	--	5700	
6/28/2006	--	61.22	0.00	--	--	--	3000	ND<5.0	ND<5.0	ND<5.0	ND<10	--	11000	
9/28/2006	--	66.35	0.00	--	--	--	3100	ND<10	ND<10	ND<10	ND<10	--	9800	
12/11/2006	--	61.20	0.00	--	--	--	330	1.3	ND<0.50	1.9	1.6	--	10000	
3/19/2007	--	55.75	0.00	--	--	--	8600	ND<25	ND<25	ND<25	ND<25	--	11000	
6/15/2007	--	65.21	0.00	--	--	--	4700	ND<10	ND<10	ND<10	ND<10	--	9300	
9/24/2007	--	63.41	0.00	--	--	--	--	--	--	--	--	--	--	LPH in casing well
12/27/2007	--	58.75	0.00	--	--	--	1500	0.66	1.2	0.64	1.5	--	7900	
3/25/2008	--	59.27	0.00	--	--	--	ND<5000	ND<50	ND<50	ND<50	ND<100	--	5700	
6/6/2008	--	59.50	0.00	--	--	--	6400	ND<50	ND<50	ND<50	ND<100	--	7400	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-2B continued														
9/5/2008	--	73.50	0.00	--	--	--	2200	ND<10	ND<10	ND<10	ND<20	--	4000	
12/8/2008	--	69.99	0.01	--	--	--	3100	ND<25	ND<25	ND<25	ND<50	--	4200	LPH in well
3/26/2009	--	62.48	0.00	--	--	--	630	18	ND<6.2	6.5	19	--	5200	
6/22/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
9/1/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed
MW-2C			**(Screen Interval in feet: 80.0-82.0)**											
9/1/2009	368.48	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/17/2009	368.48	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
2/4/2010	368.48	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
6/18/2010	368.48	77.20	0.00	291.28	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	11	
9/10/2010	368.48	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/28/2010	368.48	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/16/2011	368.48	79.87	0.00	288.61	--	--	74	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	99	
MW-3			**(Screen Interval in feet: 76.5-96.5)**											
12/8/1987	--	--	--	--	--	24000	--	2600	1300	160	660	--	--	
12/7/1994	367.01	85.54	0.00	281.47	--	ND	--	ND	ND	ND	ND	--	--	
3/1/1995	367.01	83.20	0.00	283.81	2.34	ND	--	ND	1.1	ND	1.1	--	--	
6/1/1995	367.01	77.60	0.00	289.41	5.60	62	--	7.8	0.90	ND	1.6	--	--	
9/6/1995	367.01	79.28	0.00	287.73	-1.68	4100	--	380	490	130	710	--	--	
12/12/1995	367.01	77.73	0.00	289.28	1.55	19000	--	600	380	2100	5300	--	--	
3/1/1996	367.01	75.18	0.00	291.83	2.55	3400	--	950	3.2	1900	290	59	--	
6/15/1996	367.01	75.13	0.00	291.88	0.05	780	--	190	8.8	3.8	4.0	630	--	
9/18/1996	367.01	82.84	0.00	284.17	-7.71	2800	--	340	12	11	110	2500	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-3 continued														
12/21/1996	367.01	79.29	0.00	287.72	3.55	51	--	1.3	ND	ND	0.53	20	--	
3/7/1997	367.01	71.58	0.00	295.43	7.71	1400	--	53	14	29	68	220	--	
6/27/1997	367.01	83.27	0.00	283.74	-11.69	ND	--	ND	ND	ND	ND	27	--	
9/29/1997	367.01	83.33	0.00	283.68	-0.06	ND	--	ND	ND	ND	ND	11	--	
12/15/1997	367.01	83.35	0.00	283.66	-0.02	ND	--	ND	ND	ND	ND	19	--	
3/16/1998	367.01	71.07	0.00	295.94	12.28	130	--	6.5	1.9	1.5	1.6	210	--	
6/26/1998	367.03	79.65	0.00	287.38	-8.56	400	--	15	ND	ND	1.9	490	--	
8/18/1998	367.03	83.29	0.00	283.74	-3.64	--	--	--	--	--	--	--	--	
9/22/1998	367.03	83.33	0.00	283.70	-0.04	ND	--	ND	ND	ND	ND	24	--	
12/15/1998	367.03	83.29	0.00	283.74	0.04	ND	--	ND	ND	ND	ND	18	--	
12/23/1998	367.03	83.28	0.00	283.75	0.01	--	--	--	--	--	--	--	--	
3/15/1999	367.03	79.19	0.00	287.84	4.09	26000	--	3100	270	2200	3100	1300	--	
3/23/1999	367.03	78.92	0.00	288.11	0.27	--	--	--	--	--	--	--	--	
6/7/1999	367.03	83.22	0.00	283.81	-4.30	ND	--	ND	ND	0.63	ND	29	--	
9/3/1999	367.03	83.31	0.00	283.72	-0.09	23000	--	770	ND	980	6400	280	82.4	
12/6/1999	367.03	83.41	0.00	283.62	-0.10	41000	--	3200	3500	1300	8300	ND	--	
3/10/2000	367.03	83.23	0.00	283.80	0.18	5100	--	340	ND	97	450	200	--	
6/8/2000	367.03	83.22	0.00	283.81	0.01	1200	--	52.0	ND	41.7	356	55.8	--	
9/25/2000	367.03	83.37	0.00	283.66	-0.15	3400	--	305	ND	25.4	512	137	--	
12/19/2000	367.03	83.27	0.00	283.76	0.10	6800	--	260	ND	120	950	130	--	
3/5/2001	367.03	83.34	0.00	283.69	-0.07	16800	--	1100	48.6	637	4260	224	--	
6/14/2001	367.03	83.39	0.00	283.64	-0.05	1800	--	260	ND	5.5	25	83	--	
9/17/2001	367.03	84.10	0.00	282.93	-0.71	ND<50	--	0.50	ND<0.50	ND<0.50	ND<0.50	71	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-3 continued														
9/25/2001	367.03	84.23	0.00	282.80	-0.13	--	--	--	--	--	--	--	--	
12/17/2001	367.03	83.32	0.00	283.71	0.91	1800	--	120	ND<5.0	45	270	80	91	
3/15/2002	367.03	83.27	0.00	283.76	0.05	15000	--	160	ND<50	140	4400	ND<250	--	
6/20/2002	367.03	83.74	0.00	283.29	-0.47	--	3700	98	0.69	4.0	2.3	--	92	
9/27/2002	367.03	84.20	0.00	282.83	-0.46	--	210	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	67	
12/30/2002	367.03	83.24	0.00	283.79	0.96	--	5900	320	ND<5.0	80	1500	--	160	
3/26/2003	367.03	83.27	0.00	283.76	-0.03	--	7200	95	6.3	140	1500	--	130	
6/10/2003	367.03	83.59	0.00	283.44	-0.32	--	360	2.1	ND<0.50	1.1	1.0	--	54	
9/9/2003	367.01	83.75	0.00	283.26	-0.18	--	220	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	63	
12/10/2003	367.01	83.21	0.00	283.80	0.54	--	980	32	ND<1.0	7.0	160	--	90	
3/9/2004	367.01	83.23	0.00	283.78	-0.02	--	1300	4.2	0.67	6.4	91	--	83	
6/21/2004	367.01	83.31	0.00	283.70	-0.08	--	96	ND<0.50	0.62	ND<0.50	ND<1.0	--	59	
9/8/2004	367.01	83.81	0.00	283.20	-0.50	--	170	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	82	
12/14/2004	367.01	83.20	0.00	283.81	0.61	--	1800	44	0.83	22	310	--	120	
3/17/2005	367.01	81.33	0.00	285.68	1.87	--	11000	110	1.3	38	1100	--	57	
6/15/2005	367.01	78.31	0.00	288.70	3.02	--	910	0.92	ND<0.50	1.0	ND<1.0	--	59	
9/20/2005	367.01	83.28	0.00	283.73	-4.97	--	94	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	150	
12/29/2005	367.01	70.73	0.00	296.28	12.55	--	2100	27	ND<0.50	91	260	--	64	
3/15/2006	367.01	65.91	0.00	301.10	4.82	--	860	7.5	ND<0.50	3.3	ND<1.0	--	98	
6/28/2006	367.01	66.16	0.00	300.85	-0.25	--	2200	430	14	25	17	--	380	
9/28/2006	367.01	70.15	0.00	296.86	-3.99	--	410	110	ND<0.50	0.52	ND<0.50	--	79	
12/11/2006	367.01	63.33	0.00	303.68	6.82	--	370	14	ND<0.50	ND<0.50	ND<0.50	--	70	
3/19/2007	367.01	57.35	0.00	309.66	5.98	--	820	4.2	ND<0.50	ND<0.50	0.88	--	69	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-3 continued														
6/15/2007	367.01	66.79	0.00	300.22	-9.44	--	1500	130	1.3	7.8	8.8	--	400	
9/24/2007	367.01	69.70	0.00	297.31	-2.91	--	330	1.1	ND<0.50	ND<0.50	ND<0.50	--	51	
12/27/2007	367.01	60.35	0.00	306.66	9.35	--	210	0.54	0.98	ND<0.50	1.4	--	52	
3/25/2008	367.01	60.87	0.00	306.14	-0.52	--	1500	69	ND<0.50	41	55	--	840	
6/6/2008	367.01	61.14	0.00	305.87	-0.27	--	1300	58	ND<5.0	ND<5.0	ND<10	--	840	
9/5/2008	367.01	73.10	0.00	293.91	-11.96	--	380	74	1.2	1.3	3.8	--	170	
12/8/2008	367.01	71.65	0.00	295.36	1.45	--	120	1.8	ND<0.50	ND<0.50	ND<1.0	--	31	
3/26/2009	367.01	64.12	0.00	302.89	7.53	--	490	0.84	0.53	ND<0.50	ND<1.0	--	33	
6/22/2009	367.01	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
9/1/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	Destroyed
MW-3B			**(Screen Interval in feet: 80.0-82.0)**											
9/1/2009	369.85	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/17/2009	369.85	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
2/4/2010	369.85	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
6/18/2010	369.85	78.83	0.00	291.02	--	--	86	11	7.9	2.2	11	--	28	
9/10/2010	369.85	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/28/2010	369.85	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/16/2011	369.85	81.20	0.00	288.65	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	
MW-4			**(Screen Interval in feet: 73.0-93.0)**											
9/18/1996	369.03	73.67	0.00	295.36	--	160	--	14	ND	ND	1.6	ND	--	
12/21/1996	369.03	77.69	0.00	291.34	-4.02	ND	--	ND	ND	ND	ND	ND	--	
3/7/1997	369.03	68.04	0.00	300.99	9.65	ND	--	1.9	0.99	ND	1.5	ND	--	
6/27/1997	369.03	79.06	0.00	289.97	-11.02	ND	--	ND	ND	ND	ND	ND	--	

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HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4 continued														
9/29/1997	369.03	85.83	0.00	283.20	-6.77	ND	--	ND	ND	ND	ND	ND	--	
12/15/1997	369.03	87.26	0.00	281.77	-1.43	ND	--	ND	ND	ND	ND	ND	--	
3/16/1998	369.03	75.09	0.00	293.94	12.17	ND	--	ND	0.69	ND	0.82	ND	--	
6/26/1998	368.81	73.81	0.00	295.00	1.06	100	--	62	ND	ND	ND	ND	--	
8/18/1998	368.81	78.75	0.00	290.06	-4.94	--	--	--	--	--	--	--	--	
9/22/1998	368.81	83.95	0.00	284.86	-5.20	ND	--	ND	ND	ND	ND	2.8	--	
12/15/1998	368.81	85.41	0.00	283.40	-1.46	ND	--	ND	ND	ND	ND	ND	--	
12/23/1998	368.81	84.95	0.00	283.86	0.46	--	--	--	--	--	--	--	--	
3/15/1999	368.81	78.47	0.00	290.34	6.48	ND	--	ND	ND	ND	ND	ND	--	
3/23/1999	368.81	77.37	0.00	291.44	1.10	--	--	--	--	--	--	--	--	
6/7/1999	368.81	76.60	0.00	292.21	0.77	ND	--	ND	ND	ND	ND	ND	--	
9/3/1999	368.81	87.23	0.00	281.58	-10.63	ND	--	ND	ND	ND	ND	ND	ND	
12/6/1999	368.81	92.23	0.00	276.58	-5.00	ND	--	ND	ND	ND	ND	ND	--	
3/10/2000	368.81	88.54	0.00	280.27	3.69	ND	--	ND	ND	ND	ND	ND	--	
6/8/2000	368.81	86.98	0.00	281.83	1.56	ND	--	ND	ND	ND	ND	ND	--	
9/25/2000	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/19/2000	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/5/2001	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
6/14/2001	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
9/17/2001	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
9/25/2001	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/17/2001	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/15/2002	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4 continued														
6/20/2002	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
9/27/2002	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/30/2002	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/26/2003	368.81	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
6/10/2003	368.81	89.76	0.00	279.05	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
9/9/2003	368.81	89.47	0.00	279.34	0.29	--	ND<50	ND<0.50	0.80	ND<0.50	ND<1.0	--	ND<2.0	
12/10/2003	368.81	90.44	0.00	278.37	-0.97	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
3/9/2004	368.81	84.89	0.00	283.92	5.55	--	ND<50	4.2	0.59	2.0	1.3	--	ND<2.0	
6/21/2004	368.81	81.90	0.00	286.91	2.99	--	ND<50	ND<0.50	0.68	ND<0.50	ND<1.0	--	ND<0.50	
9/8/2004	368.81	86.45	0.00	282.36	-4.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/14/2004	368.81	89.95	0.00	278.86	-3.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/17/2005	368.81	78.86	0.00	289.95	11.09	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/15/2005	368.81	73.07	0.00	295.74	5.79	--	ND<50	0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/20/2005	368.81	79.83	0.00	288.98	-6.76	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/29/2005	368.81	74.08	0.00	294.73	5.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/15/2006	368.81	62.45	0.00	306.36	11.63	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/28/2006	368.81	61.87	0.00	306.94	0.58	--	ND<50	2.9	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/28/2006	368.81	70.81	0.00	298.00	-8.94	--	ND<50	0.53	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/11/2006	368.81	64.10	0.00	304.71	6.71	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/19/2007	368.81	60.37	0.00	308.44	3.73	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
6/15/2007	368.81	62.13	0.00	306.68	-1.76	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
9/24/2007	368.81	71.59	0.00	297.22	-9.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/27/2007	368.81	62.18	0.00	306.63	9.41	--	ND<50	ND<0.50	1.1	ND<0.50	1.5	--	ND<0.50	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4 continued														
3/25/2008	368.81	55.19	0.00	313.62	6.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/6/2008	368.81	58.98	0.00	309.83	-3.79	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/5/2008	368.81	69.95	0.00	298.86	-10.97	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/8/2008	368.81	73.10	0.00	295.71	-3.15	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/26/2009	368.81	62.10	0.00	306.71	11.00	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/22/2009	368.81	68.55	0.00	300.26	-6.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/1/2009	371.58	81.18	0.00	290.40	-9.86	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
12/17/2009	371.58	84.23	0.00	287.35	-3.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
2/4/2010	371.58	81.64	0.00	289.94	2.59	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
6/18/2010	371.58	74.36	0.00	297.22	7.28	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/10/2010	371.58	80.74	0.00	290.84	-6.38	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
12/28/2010	371.58	82.36	0.00	289.22	-1.62	--	ND<50	ND<0.50	0.65	ND<0.50	1.3	--	ND<0.50	
3/16/2011	371.58	78.41	0.00	293.17	3.95	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
MW-5			**(Screen Interval in feet: 52.0-72.0)**											
9/18/1996	363.23	64.20	0.00	299.03	--	36000	--	6700	410	730	6500	4100	--	
12/21/1996	363.23	61.77	--	301.46	2.43	25000	--	3200	300	780	3600	2600	--	
3/7/1997	363.23	56.30	--	306.93	5.47	14000	--	1300	120	410	1200	1700	--	
6/27/1997	363.23	68.88	0.90	295.02	-11.91	--	--	--	--	--	--	--	--	LPH in well
9/29/1997	363.23	69.47	0.35	294.02	-1.00	--	--	--	--	--	--	--	--	LPH in well
12/15/1997	363.23	64.92	0.30	298.54	4.51	--	--	--	--	--	--	--	--	LPH in well
3/16/1998	363.23	49.63	0.09	313.67	15.13	--	--	--	--	--	--	--	--	LPH in well
6/26/1998	363.21	64.13	--	299.08	-14.59	490	--	6.3	2.8	4.2	5.1	10	--	
8/18/1998	363.21	70.40	0.01	292.81	-6.27	--	--	--	--	--	--	--	--	LPH in well

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-5 continued														
9/22/1998	363.21	69.10	0.06	294.15	1.34	--	--	--	--	--	--	--	--	LPH in well
12/15/1998	363.21	68.84	0.17	294.50	0.34	--	--	--	--	--	--	--	--	LPH in well
12/23/1998	363.21	68.42	0.50	295.16	0.67	--	--	--	--	--	--	--	--	LPH in well
3/15/1999	363.21	63.81	0.25	299.59	4.42	--	--	--	--	--	--	--	--	LPH in well
3/23/1999	363.21	63.59	0.13	299.72	0.13	--	--	--	--	--	--	--	--	LPH in well
6/7/1999	363.21	68.25	0.82	295.57	-4.14	210000	--	6700	3700	5000	20000	11000	4000	
9/3/1999	363.21	69.38	0.70	294.35	-1.22	--	--	--	--	--	--	--	--	LPH in well
12/6/1999	363.21	70.02	0.82	293.80	-0.55	--	--	--	--	--	--	--	--	LPH in well
3/10/2000	363.21	64.56	0.64	299.13	5.33	--	--	--	--	--	--	--	--	LPH in well
6/8/2000	363.21	66.47	0.51	297.12	-2.01	--	--	--	--	--	--	--	--	LPH in well
9/25/2000	363.21	69.02	0.60	294.64	-2.48	--	--	--	--	--	--	--	--	LPH in well
12/19/2000	363.21	68.31	0.14	295.01	0.36	--	--	--	--	--	--	--	--	LPH in well
3/5/2001	363.21	64.19	0.08	299.08	4.07	--	--	--	--	--	--	--	--	LPH in well
6/14/2001	363.21	64.02	0.11	299.27	0.19	--	--	--	--	--	--	--	--	LPH in well
9/17/2001	363.21	72.07	0.04	291.17	-8.10	--	--	--	--	--	--	--	--	LPH in well
9/25/2001	363.21	72.17	0.03	291.06	-0.11	--	--	--	--	--	--	--	--	LPH in well
12/17/2001	363.21	72.11	0.03	291.12	0.06	--	--	--	--	--	--	--	--	LPH in well
3/15/2002	363.21	66.93	0.22	296.45	5.32	--	--	--	--	--	--	--	--	LPH in well
6/20/2002	363.21	69.71	0.42	293.82	-2.63	--	--	--	--	--	--	--	--	LPH in well
9/27/2002	363.21	72.07	0.00	291.14	-2.68	--	--	--	--	--	--	--	--	Not enough water to sample
12/30/2002	363.21	71.91	0.00	291.30	0.16	--	--	--	--	--	--	--	--	Not enough water to sample
3/26/2003	363.21	67.55	0.15	295.77	4.47	--	--	--	--	--	--	--	--	LPH in well
6/10/2003	363.21	69.34	0.12	293.96	-1.81	--	--	--	--	--	--	--	--	LPH in well

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-5 continued														
9/9/2003	363.21	68.97	0.00	294.24	0.28	--	--	--	--	--	--	--	--	LPH in well
12/10/2003	363.21	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/9/2004	363.21	66.03	0.00	297.18	--	--	19000	7300	370	910	890	--	1400	
6/21/2004	363.21	67.50	0.00	295.71	-1.47	--	13000	3700	220	710	660	--	1900	
9/8/2004	363.21	70.62	0.02	292.61	-3.10	--	--	--	--	--	--	--	--	LPH in well
12/14/2004	363.21	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/17/2005	363.21	65.88	0.02	297.35	--	--	--	--	--	--	--	--	--	LPH in well
6/15/2005	363.21	63.20	0.02	300.02	2.68	--	--	--	--	--	--	--	--	LPH in well
9/20/2005	363.21	66.74	0.01	296.48	-3.55	--	--	--	--	--	--	--	--	LPH in well
12/29/2005	363.21	64.04	0.01	299.18	2.70	--	--	--	--	--	--	--	--	LPH in well
3/15/2006	363.21	57.95	0.01	305.27	6.09	--	--	--	--	--	--	--	--	LPH in well
6/28/2006	363.21	57.33	0.02	305.90	0.63	--	--	--	--	--	--	--	--	LPH in well
9/28/2006	363.21	60.65	0.01	302.57	-3.33	--	--	--	--	--	--	--	--	LPH in well
12/11/2006	363.21	56.92	0.02	306.30	3.74	--	--	--	--	--	--	--	--	LPH in well
3/19/2007	363.21	52.37	0.00	310.84	4.54	--	16000	620	31	330	320	--	1600	
6/15/2007	363.21	55.70	0.00	307.51	-3.33	--	13000	1400	37	430	180	--	4400	
9/24/2007	363.21	61.14	0.00	302.07	-5.44	--	17000	1500	34	490	130	--	4000	
12/27/2007	363.21	54.95	0.00	308.26	6.19	--	6500	1100	31	300	110	--	1400	
3/25/2008	363.21	52.33	0.00	310.88	2.62	--	14000	950	20	310	76	--	2600	
6/6/2008	363.21	54.12	0.00	309.09	-1.79	--	14000	1800	27	380	92	--	4900	
9/5/2008	363.21	62.72	0.00	300.49	-8.60	--	13000	1800	40	470	130	--	3700	
12/8/2008	363.21	64.14	0.00	299.07	-1.42	--	14000	3000	70	560	160	--	3800	
3/26/2009	363.21	58.55	0.00	304.66	5.59	--	19000	2700	57	630	170	--	2700	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-5 continued														
6/22/2009	363.21	63.90	0.00	299.31	-5.35	--	16000	2700	75	630	160	--	5000	
9/1/2009	366.04	69.38	0.00	296.66	-2.65	--	49000	1900	78	1400	260	--	2500	
12/17/2009	366.04	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
2/4/2010	366.04	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
6/18/2010	366.04	66.34	0.00	299.70	--	--	--	--	--	--	--	--	--	Trace of LPH in bailer
9/10/2010	366.04	68.50	0.00	297.54	-2.16	--	17000	2300	58	690	150	--	3500	
12/28/2010	366.04	69.90	0.00	296.14	-1.40	--	8400	1600	37	430	88	--	2500	
3/16/2011	366.04	68.62	0.00	297.42	1.28	--	14000	1700	39	520	100	--	5300	
MW-6			**(Screen Interval in feet: 68.0-88.0)**											
9/18/1996	363.12	79.07	0.00	284.05	--	160	--	5.4	ND	ND	ND	ND	--	
12/21/1996	363.12	75.40	0.00	287.72	3.67	300	--	96	1.3	ND	1.7	21	--	
3/7/1997	363.12	67.61	0.00	295.51	7.79	1800	--	920	18	ND	31	290	--	
6/27/1997	363.12	80.45	0.00	282.67	-12.84	ND	--	0.73	ND	ND	38	38	--	
9/29/1997	363.12	86.02	0.00	277.10	-5.57	62	--	ND	ND	ND	ND	43	--	
12/15/1997	363.12	84.03	0.00	279.09	1.99	78	--	ND	ND	ND	ND	39	--	
3/16/1998	363.12	67.15	0.00	295.97	16.88	210	--	36	2.5	ND	3.0	64	--	
6/26/1998	363.13	75.71	0.00	287.42	-8.55	530	--	300	8.3	2.8	8.7	81	--	
8/18/1998	363.13	74.86	0.00	288.27	0.85	--	--	--	--	--	--	--	--	
9/22/1998	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
12/15/1998	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
12/23/1998	363.13	80.80	0.00	282.33	--	120	--	1.1	ND	ND	0.78	25	--	
1/23/1999	363.13	80.68	0.00	282.45	0.12	ND	--	--	--	--	--	--	--	
3/15/1999	363.13	75.29	0.00	287.84	5.39	62	--	1.4	ND	ND	ND	23	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-6 continued														
3/23/1999	363.13	75.03	0.00	288.10	0.26	--	--	--	--	--	--	--	--	
6/7/1999	363.13	82.27	0.00	280.86	-7.24	ND	--	ND	ND	ND	ND	18	--	
9/3/1999	363.13	87.49	0.00	275.64	-5.22	--	--	--	--	--	--	--	--	Dry well
12/6/1999	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/10/2000	363.13	85.61	0.00	277.52	--	ND	--	ND	ND	ND	ND	64	--	
6/8/2000	363.13	87.36	0.00	275.77	-1.75	--	--	--	--	--	--	--	--	Dry well
9/25/2000	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/19/2000	363.13	87.73	--	275.40	--	--	--	--	--	--	--	--	--	Dry well
3/5/2001	363.13	87.82	--	275.31	-0.09	--	--	--	--	--	--	--	--	Dry well
6/14/2001	363.13	87.69	0.00	275.44	0.13	--	--	--	--	--	--	--	--	Dry well
9/17/2001	363.13	87.70	0.00	275.43	-0.01	--	--	--	--	--	--	--	--	Dry well
9/25/2001	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/17/2001	363.13	87.74	0.00	275.39	--	--	--	--	--	--	--	--	--	Dry well
3/15/2002	363.13	87.72	0.00	275.41	0.02	--	--	--	--	--	--	--	--	Dry well
6/20/2002	363.13	87.79	0.00	275.34	-0.07	--	--	--	--	--	--	--	--	Dry well
9/27/2002	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/30/2002	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/26/2003	363.13	87.67	0.00	275.46	--	--	--	--	--	--	--	--	--	Dry well
6/10/2003	363.13	87.13	0.00	276.00	0.54	--	--	--	--	--	--	--	--	Dry well
9/9/2003	363.13	87.29	0.00	275.84	-0.16	--	--	--	--	--	--	--	--	Not enough water to sample
12/10/2003	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/9/2004	363.13	83.53	0.00	279.60	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	37	
6/21/2004	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-6 continued														
9/8/2004	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/14/2004	363.13	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/17/2005	363.13	77.58	0.00	285.55	--	--	79	0.67	ND<0.50	ND<0.50	ND<1.0	--	23	
6/15/2005	363.13	74.44	0.00	288.69	3.14	--	ND<50	0.51	ND<0.50	ND<0.50	ND<1.0	--	18	
9/20/2005	--	81.92	0.00	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	13	Casing elevation modified on 6/22/2005
12/29/2005	--	67.19	0.00	--	--	--	53	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	29	
3/15/2006	--	61.88	0.00	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	27	
6/28/2006	--	62.52	0.00	--	--	--	ND<50	2.0	0.74	0.73	1.4	--	12	
9/28/2006	--	66.54	0.00	--	--	--	82	0.58	ND<0.50	ND<0.50	ND<0.50	--	9.7	
12/11/2006	--	59.64	0.00	--	--	--	59	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	11	
3/19/2007	--	53.75	0.00	--	--	--	ND<50	1.1	ND<0.50	ND<0.50	ND<0.50	--	22	
6/15/2007	--	63.00	0.00	--	--	--	82	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	13	
9/24/2007	--	66.10	0.00	--	--	--	110	ND<0.50	1.2	ND<0.50	0.85	--	8.8	
12/27/2007	--	56.75	0.00	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	8.4	
3/25/2008	--	57.16	0.00	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.6	
6/6/2008	--	57.50	0.00	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6.3	
9/5/2008	--	69.45	0.00	--	--	--	230	0.92	ND<0.50	ND<0.50	1.2	--	13	
12/8/2008	--	67.95	0.00	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	9.2	
3/26/2009	--	60.20	0.00	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.2	
6/22/2009	--	70.45	0.00	--	--	--	150	1.8	ND<0.50	ND<0.50	ND<1.0	--	16	
9/1/2009	366.22	87.60	0.00	278.62	--	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
12/17/2009	366.22	78.77	0.00	287.45	8.83	--	53	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	31	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-6 continued														
2/4/2010	366.22	78.80	0.00	287.42	-0.03	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
6/18/2010	366.22	74.90	0.00	291.32	3.90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	8.9	
9/10/2010	366.22	81.37	0.00	284.85	-6.47	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
12/28/2010	366.22	79.42	0.00	286.80	1.95	--	70	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	18	
3/16/2011	366.22	77.55	0.00	288.67	1.87	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
MW-7			**(Screen Interval in feet: 55.0-75.0)**											
6/26/1998	355.97	--	--	--	--	--	--	--	--	--	--	--	--	
8/18/1998	355.97	68.75	0.00	287.22	--	4000	--	1900	48	160	ND	1700	--	
9/22/1998	355.97	66.35	0.00	289.62	2.40	3200	--	1100	ND	22	ND	1500	--	
12/15/1998	355.97	65.03	0.00	290.94	1.32	1900	--	180	2.7	2.9	3.8	1400	--	
12/23/1998	355.97	64.82	0.00	291.15	0.21	--	--	--	--	--	--	--	--	
3/15/1999	355.97	60.44	0.00	295.53	4.38	2700	--	1100	ND	30	16	1400	970	
3/23/1999	355.97	60.43	0.00	295.54	0.01	--	--	--	--	--	--	--	--	
6/7/1999	355.97	64.48	0.00	291.49	-4.05	2600	--	180	21	ND	13	1200	--	
9/3/1999	355.97	69.98	0.00	285.99	-5.50	870	--	69	ND	ND	ND	1100	872	
12/6/1999	355.97	70.18	0.00	285.79	-0.20	1900	--	350	ND	ND	ND	1100	--	
3/10/2000	355.97	67.36	0.00	288.61	2.82	2900	--	1600	ND	40	54	1100	--	
6/8/2000	355.97	69.81	0.00	286.16	-2.45	625	--	30.8	ND	0.761	0.940	1290	--	
9/25/2000	355.97	70.15	0.00	285.82	-0.34	2180	--	423	ND	ND	ND	1510	--	
12/19/2000	355.97	70.11	0.00	285.86	0.04	5900	--	1000	ND	ND	ND	1300	--	
3/5/2001	355.97	68.72	0.00	287.25	1.39	13200	--	5070	195	306	385	1530	--	
6/14/2001	355.97	70.00	0.00	285.97	-1.28	6400	--	3300	85	96	170	1000	--	
9/17/2001	355.97	70.28	0.00	285.69	-0.28	11000	--	3000	ND<50	ND<50	ND<50	750	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-7 continued														
9/25/2001	355.97	70.49	0.00	285.48	-0.21	--	--	--	--	--	--	--	--	
12/17/2001	355.97	71.35	0.00	284.62	-0.86	5800	--	1100	ND<10	ND<10	ND<10	760	670	
3/15/2002	355.97	68.56	0.00	287.41	2.79	2800	--	850	22	74	39	360	540	
6/20/2002	355.97	70.01	0.00	285.96	-1.45	--	9900	3200	23	41	ND<40	--	390	
9/27/2002	355.97	71.50	0.00	284.47	-1.49	--	4200	710	ND<10	ND<10	ND<20	--	610	
12/30/2002	355.97	71.25	0.00	284.72	0.25	--	2400	620	ND<2.5	20	53	--	500	
3/26/2003	355.97	68.79	0.00	287.18	2.46	--	5300	1800	ND<10	13	ND<20	--	270	
6/10/2003	355.97	69.10	0.00	286.87	-0.31	--	1300	380	ND<5.0	ND<5.0	ND<10	--	--	
9/9/2003	355.97	70.04	0.00	285.93	-0.94	--	1900	240	ND<2.5	ND<2.5	ND<5.0	--	380	
12/10/2003	355.97	69.98	0.00	285.99	0.06	--	4500	500	ND<5.0	ND<5.0	ND<10	--	340	
3/9/2004	355.97	66.66	0.00	289.31	3.32	--	5600	1700	11	34	ND<20	--	280	
6/21/2004	355.97	67.82	0.00	288.15	-1.16	--	2300	260	ND<2.5	3.0	ND<5.0	--	300	
9/8/2004	355.97	70.05	0.00	285.92	-2.23	--	1400	72	ND<2.5	ND<2.5	ND<5.0	--	440	
12/14/2004	355.97	70.87	--	285.10	-0.82	--	2200	180	ND<1.0	1.8	ND<2.0	--	320	
3/17/2005	355.97	63.69	0.00	292.28	7.18	--	5700	1800	7.8	24	16	--	190	
6/15/2005	355.97	59.29	0.00	296.68	4.40	--	3900	230	ND<2.5	3.7	8.0	--	280	
9/20/2005	355.97	64.38	0.00	291.59	-5.09	--	1200	5.8	ND<5.0	ND<5.0	ND<10	--	260	
12/29/2005	355.97	57.43	0.00	298.54	6.95	--	450	1.6	ND<0.50	ND<0.50	ND<1.0	--	140	
3/15/2006	355.97	51.92	0.00	304.05	5.51	--	300	1.4	0.86	ND<0.50	ND<1.0	--	94	
6/28/2006	355.97	49.47	0.00	306.50	2.45	--	770	47	2.4	2.2	1.3	--	510	
9/28/2006	355.97	53.93	0.00	302.04	-4.46	--	610	13	1.1	0.82	0.66	--	370	
12/11/2006	355.97	49.87	0.00	306.10	4.06	--	180	1.2	ND<0.50	ND<0.50	ND<0.50	--	180	
3/19/2007	355.97	45.28	0.00	310.69	4.59	--	200	0.92	ND<0.50	ND<0.50	ND<0.50	--	98	

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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-7 continued														
6/15/2007	355.97	49.48	0.00	306.49	-4.20	--	170	1.0	ND<0.50	ND<0.50	0.60	--	72	
9/24/2007	355.97	54.05	0.00	301.92	-4.57	--	590	1.4	ND<0.50	ND<0.50	ND<0.50	--	330	
12/27/2007	355.97	47.98	0.00	307.99	6.07	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	84	
3/25/2008	355.97	46.00	0.00	309.97	1.98	--	92	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	74	
6/6/2008	355.97	47.38	0.00	308.59	-1.38	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	68	
9/5/2008	355.97	57.79	0.00	298.18	-10.41	--	320	3.4	ND<0.50	ND<0.50	ND<1.0	--	240	
12/8/2008	355.97	56.98	0.00	298.99	0.81	--	270	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	100	
3/26/2009	355.97	51.35	0.00	304.62	5.63	--	150	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	94	
6/22/2009	355.97	57.43	0.00	298.54	-6.08	--	230	3.9	ND<0.50	ND<0.50	ND<1.0	--	100	
9/1/2009	358.67	67.95	0.00	290.72	-7.82	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
12/17/2009	358.67	66.52	0.00	292.15	1.43	--	2300	6.6	ND<0.50	0.69	1.0	--	31	
2/4/2010	358.67	65.53	0.00	293.14	0.99	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
6/18/2010	358.67	61.76	0.00	296.91	3.77	--	710	10	ND<0.50	0.62	ND<1.0	--	62	
9/10/2010	358.67	66.83	0.00	291.84	-5.07	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
12/28/2010	358.67	66.37	0.00	292.30	0.46	--	2300	41	ND<0.50	3.4	ND<1.0	--	44	
3/16/2011	358.67	65.62	0.00	293.05	0.75	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
MW-8			**(Screen Interval in feet: 66.0-86.0)**											
6/26/1998	362.37	63.00	0.00	299.37	--	ND	--	6.0	ND	ND	ND	150	--	
8/18/1998	362.37	73.38	0.00	288.99	-10.38	--	--	--	--	--	--	--	--	
9/22/1998	362.37	70.89	0.00	291.48	2.49	ND	--	ND	ND	ND	ND	9.5	--	
12/15/1998	362.37	70.29	0.00	292.08	0.60	ND	--	ND	ND	ND	ND	3.0	--	
12/23/1998	362.37	70.03	0.00	292.34	0.26	--	--	--	--	--	--	--	--	
3/15/1999	362.37	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate

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MW-8 continued														
3/23/1999	361.83	64.86	0.00	296.97	--	ND	--	ND	0.77	ND	0.96	190	--	
6/7/1999	361.83	68.30	0.00	293.53	-3.44	ND	--	ND	ND	ND	ND	ND	--	
9/3/1999	361.83	73.92	0.00	287.91	-5.62	ND	--	ND	0.57	ND	ND	170	146	
12/6/1999	361.83	74.98	0.00	286.85	-1.06	ND	--	ND	ND	ND	ND	150	--	
3/10/2000	361.83	71.54	0.00	290.29	3.44	ND	--	ND	ND	ND	ND	150	--	
6/8/2000	361.83	72.60	0.00	289.23	-1.06	ND	--	ND	ND	ND	ND	42.8	--	
9/25/2000	361.83	75.31	0.00	286.52	-2.71	ND	--	ND	ND	ND	ND	227	--	
12/19/2000	361.83	75.54	0.00	286.29	-0.23	ND	--	ND	ND	ND	ND	160	--	
3/5/2001	361.83	75.91	0.00	285.92	-0.37	ND	--	ND	ND	ND	ND	125	--	
6/14/2001	361.83	75.51	0.00	286.32	0.40	ND	--	ND	ND	ND	ND	140	--	
9/17/2001	361.83	77.19	0.00	284.64	-1.68	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	110	--	
9/25/2001	361.83	77.17	0.00	284.66	0.02	--	--	--	--	--	--	--	--	
12/17/2001	361.83	79.94	0.00	281.89	-2.77	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	140	170	
3/15/2002	361.83	76.82	0.00	285.01	3.12	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	72	--	
6/20/2002	361.83	77.73	0.00	284.10	-0.91	--	83	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	80	
9/27/2002	361.83	78.94	0.00	282.89	-1.21	--	160	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	94	
12/30/2002	361.83	78.21	0.00	283.62	0.73	--	75	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	120	
3/26/2003	361.83	74.34	0.00	287.49	3.87	--	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	110	
6/10/2003	361.83	75.17	0.00	286.66	-0.83	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	31	
9/9/2003	361.83	74.11	0.00	287.72	1.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	150	
12/10/2003	361.83	73.59	0.00	288.24	0.52	--	150	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	180	
3/9/2004	361.83	70.32	0.00	291.51	3.27	--	130	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	180	
6/21/2004	361.83	70.30	0.00	291.53	0.02	--	150	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	200	

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MW-8 continued														
9/8/2004	361.83	73.83	0.00	288.00	-3.53	--	300	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	350	
12/14/2004	361.83	75.45	0.00	286.38	-1.62	--	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	210	
3/17/2005	361.83	67.85	0.00	293.98	7.60	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	290	
6/15/2005	361.83	62.74	0.00	299.09	5.11	--	ND<200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	290	
9/20/2005	--	68.11	0.00	--	--	--	180	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	310	Casing elevation modified on 6/22/2005
12/29/2005	--	62.32	0.00	--	--	--	210	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	390	
3/15/2006	--	56.89	0.00	--	--	--	140	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	310	
6/28/2006	--	54.53	0.00	--	--	--	190	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	550	
9/28/2006	--	59.02	0.00	--	--	--	210	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	460	
12/11/2006	--	55.02	0.00	--	--	--	260	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	580	
3/19/2007	--	51.00	0.00	--	--	--	340	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	480	
6/15/2007	--	54.60	0.00	--	--	--	350	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	540	
9/24/2007	--	58.59	0.00	--	--	--	420	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	590	
12/27/2007	--	53.40	0.00	--	--	--	240	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	510	
3/25/2008	--	50.96	0.00	--	--	--	65	ND<0.50	0.58	ND<0.50	1.1	--	82	
6/6/2008	--	52.66	0.00	--	--	--	400	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	550	
9/5/2008	--	60.90	0.00	--	--	--	240	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	590	
12/8/2008	--	62.46	0.00	--	--	--	330	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	640	
3/26/2009	--	56.72	0.00	--	--	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	510	
6/22/2009	--	62.00	0.00	--	--	--	520	ND<5.0	ND<5.0	ND<5.0	ND<10	--	820	
9/1/2009	365.07	72.23	0.00	292.84	--	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
12/17/2009	365.07	71.86	0.00	293.21	0.37	--	240	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	430	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-8 continued														
2/4/2010	365.07	70.55	0.00	294.52	1.31	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
6/18/2010	365.07	66.46	0.00	298.61	4.09	--	270	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	600	
9/10/2010	365.07	68.73	0.00	296.34	-2.27	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
12/28/2010	365.07	70.58	0.00	294.49	-1.85	--	250	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	400	
3/16/2011	365.07	70.24	0.00	294.83	0.34	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
MW-9			**(Screen Interval in feet: 55-75)**											
11/29/1999	354.85	74.50	0.00	280.35	--	--	--	--	--	--	--	--	--	
12/6/1999	354.85	74.35	0.00	280.50	0.15	ND	--	ND	ND	ND	ND	3.0	2.7	
3/10/2000	354.85	65.94	0.00	288.91	8.41	ND	--	ND	ND	ND	ND	2.5	--	
6/8/2000	354.85	70.77	0.00	284.08	-4.83	ND	--	ND	ND	ND	ND	ND	--	
9/25/2000	354.85	74.75	0.00	280.10	-3.98	ND	--	ND	0.516	ND	ND	10.5	--	
12/19/2000	354.85	74.43	0.00	280.42	0.32	ND	--	ND	ND	ND	ND	ND	--	
3/5/2001	354.85	74.63	0.00	280.22	-0.20	ND	--	ND	ND	ND	ND	ND	--	
6/14/2001	354.85	74.75	0.00	280.10	-0.12	ND	--	ND	ND	ND	ND	ND	--	
9/17/2001	354.85	74.78	0.00	280.07	-0.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
9/25/2001	354.85	74.83	0.00	280.02	-0.05	--	--	--	--	--	--	--	--	
12/17/2001	354.85	74.80	0.00	280.05	0.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0	
3/15/2002	354.85	74.83	0.00	280.02	-0.03	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
6/20/2002	354.85	74.88	0.00	279.97	-0.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.75	
9/27/2002	354.85	75.38	0.00	279.47	-0.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.6	
12/30/2002	354.85	73.33	0.00	281.52	2.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.2	
3/26/2003	354.85	71.21	0.00	283.64	2.12	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.1	
6/10/2003	354.85	71.83	0.00	283.02	-0.62	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-9 continued														
9/9/2003	362.62	71.85	0.00	290.77	7.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/10/2003	362.62	69.50	0.00	293.12	2.35	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
3/9/2004	362.62	65.24	0.00	297.38	4.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
6/21/2004	362.62	66.52	0.00	296.10	-1.28	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/8/2004	362.62	71.36	0.00	291.26	-4.84	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/14/2004	362.62	71.73	0.00	290.89	-0.37	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/17/2005	362.62	60.42	0.00	302.20	11.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/15/2005	362.62	57.63	0.00	304.99	2.79	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/20/2005	362.62	62.99	0.00	299.63	-5.36	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.55	
12/29/2005	362.62	55.38	0.00	307.24	7.61	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/15/2006	362.62	50.12	0.00	312.50	5.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.68	
6/28/2006	362.62	47.93	0.00	314.69	2.19	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/28/2006	362.62	52.33	0.00	310.29	-4.40	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.1	
12/11/2006	362.62	48.26	0.00	314.36	4.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.61	
3/19/2007	362.62	43.68	0.00	318.94	4.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
6/15/2007	362.62	48.35	0.00	314.27	-4.67	--	ND<50	ND<0.50	0.50	ND<0.50	0.74	--	0.59	
9/24/2007	362.62	52.52	0.00	310.10	-4.17	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/27/2007	362.62	46.26	0.00	316.36	6.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.56	
3/25/2008	362.62	44.83	0.00	317.79	1.43	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.99	
6/6/2008	362.62	45.88	0.00	316.74	-1.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/5/2008	362.62	54.63	0.00	307.99	-8.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/8/2008	362.62	55.44	0.00	307.18	-0.81	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/26/2009	362.62	49.68	0.00	312.94	5.76	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-9 continued														
6/22/2009	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Unable to locate
9/1/2009	357.67	67.52	0.00	290.15	--	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
12/17/2009	357.67	64.95	0.00	292.72	2.57	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.95	
2/4/2010	357.67	63.97	0.00	293.70	0.98	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
6/18/2010	357.67	60.63	0.00	297.04	3.34	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.1	
9/10/2010	357.67	65.90	0.00	291.77	-5.27	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
12/28/2010	357.67	64.96	0.00	292.71	0.94	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.7	
3/16/2011	357.67	64.22	0.00	293.45	0.74	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
MW-10			**(Screen Interval in feet: 83-100)**											
11/29/1999	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/6/1999	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/10/2000	362.62	85.04	0.00	277.58	--	ND	--	ND	ND	ND	ND	130	150	
6/8/2000	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
9/25/2000	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/19/2000	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/5/2001	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
6/14/2001	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
9/17/2001	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
9/25/2001	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/17/2001	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/15/2002	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
6/20/2002	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
9/27/2002	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-10 continued														
12/30/2002	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/26/2003	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
6/10/2003	362.62	89.70	0.00	272.92	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	24	
9/9/2003	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/10/2003	362.62	92.09	0.00	270.53	--	--	--	--	--	--	--	--	--	Insufficient recharge
3/9/2004	362.62	83.15	0.00	279.47	8.94	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	130	
6/21/2004	362.62	86.86	0.00	275.76	-3.71	--	420	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	490	
9/8/2004	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
12/14/2004	362.62	--	--	--	--	--	--	--	--	--	--	--	--	Dry well
3/17/2005	362.62	77.07	0.00	285.55	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	65	
6/15/2005	362.62	74.04	0.00	288.58	3.03	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	77	
9/20/2005	362.62	81.08	0.00	281.54	-7.04	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	210	
12/29/2005	362.62	66.31	0.00	296.31	14.77	--	51	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	84	
3/15/2006	362.62	61.26	0.00	301.36	5.05	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	91	
6/28/2006	362.62	61.88	0.00	300.74	-0.62	--	60	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	140	
9/28/2006	362.62	65.76	0.00	296.86	-3.88	--	ND<50	ND<0.50	ND<0.50	ND<0.50	0.77	--	53	
12/11/2006	362.62	58.96	0.00	303.66	6.80	--	85	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	83	
3/19/2007	362.62	53.02	0.00	309.60	5.94	--	78	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	100	
6/15/2007	362.62	62.50	0.00	300.12	-9.48	--	68	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	96	
9/24/2007	362.62	65.30	0.00	297.32	-2.80	--	86	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	76	
12/27/2007	362.62	55.95	0.00	306.67	9.35	--	63	ND<0.50	1.3	ND<0.50	1.6	--	81	
3/25/2008	362.62	56.59	0.00	306.03	-0.64	--	61	0.75	ND<0.50	ND<0.50	ND<1.0	--	78	
6/6/2008	362.62	56.76	0.00	305.86	-0.17	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	24	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-10 continued														
9/5/2008	362.62	68.75	0.00	293.87	-11.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	43	
12/8/2008	362.62	67.25	0.00	295.37	1.50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	20	
3/26/2009	362.62	59.73	0.00	302.89	7.52	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	27	
6/22/2009	362.62	69.98	0.00	292.64	-10.25	--	ND<50	0.82	ND<0.50	ND<0.50	ND<1.0	--	31	
9/1/2009	365.42	87.18	0.00	278.24	-14.40	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
12/17/2009	365.42	78.60	0.00	286.82	8.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	30	
2/4/2010	365.42	77.99	0.00	287.43	0.61	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
6/18/2010	365.42	74.13	0.00	291.29	3.86	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.65	
9/10/2010	365.42	82.43	0.00	282.99	-8.30	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
12/28/2010	365.42	78.64	0.00	286.78	3.79	--	ND<50	ND<0.50	0.71	ND<0.50	2.0	--	6.3	
3/16/2011	365.42	76.77	0.00	288.65	1.87	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
MW-11			**(Screen Interval in feet: 66-85)**											
9/25/2001	354.66	81.24	0.00	273.42	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.0	--	
12/17/2001	354.66	80.47	0.00	274.19	0.77	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	10	14	
3/15/2002	354.66	79.42	0.00	275.24	1.05	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.6	--	
6/20/2002	354.66	80.69	0.00	273.97	-1.27	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.7	
9/27/2002	354.66	81.58	0.00	273.08	-0.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.6	
12/30/2002	354.66	79.12	0.00	275.54	2.46	--	ND<50	ND<0.50	ND<0.50	2.0	6.1	--	6.9	
3/26/2003	354.66	73.70	0.00	280.96	5.42	--	ND<50	0.62	1.7	0.5	2.6	--	9.8	
6/10/2003	354.66	73.06	0.00	281.60	0.64	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.8	
9/9/2003	354.66	74.19	0.00	280.47	-1.13	--	ND<50	ND<0.50	0.66	ND<0.50	ND<1.0	--	4.4	
12/10/2003	354.66	70.99	0.00	283.67	3.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.4	
3/9/2004	354.66	66.61	0.00	288.05	4.38	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	

Table 2
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Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-11 continued														
6/21/2004	354.66	67.63	0.00	287.03	-1.02	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.89	
9/8/2004	354.66	72.69	0.00	281.97	-5.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	8.0	
12/14/2004	354.66	72.69	0.00	281.97	0.00	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	15	
3/17/2005	354.66	61.62	0.00	293.04	11.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.1	
6/15/2005	354.66	58.68	0.00	295.98	2.94	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/20/2005	354.66	63.81	0.00	290.85	-5.13	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/29/2005	354.66	55.96	0.00	298.70	7.85	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.64	
3/15/2006	354.66	50.73	0.00	303.93	5.23	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/28/2006	354.66	48.54	0.00	306.12	2.19	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/28/2006	354.66	52.78	0.00	301.88	-4.24	--	ND<50	ND<0.50	ND<0.50	ND<0.50	0.55	--	ND<0.50	
12/11/2006	354.66	48.64	0.00	306.02	4.14	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/19/2007	354.66	44.06	0.00	310.60	4.58	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
6/15/2007	354.66	48.70	0.00	305.96	-4.64	--	ND<50	ND<0.50	ND<0.50	ND<0.50	0.63	--	ND<0.50	
9/24/2007	354.66	52.77	0.00	301.89	-4.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/27/2007	354.66	46.51	0.00	308.15	6.26	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/25/2008	354.66	45.09	0.00	309.57	1.42	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/6/2008	354.66	46.21	0.00	308.45	-1.12	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/5/2008	354.66	54.97	0.00	299.69	-8.76	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/8/2008	354.66	55.63	0.00	299.03	-0.66	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/26/2009	354.66	49.90	0.00	304.76	5.73	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/22/2009	354.66	56.09	0.00	298.57	-6.19	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/1/2009	357.44	67.53	0.00	289.91	-8.66	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
12/17/2009	357.44	65.01	0.00	292.43	2.52	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-11 continued														
2/4/2010	357.44	63.98	0.00	293.46	1.03	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
6/18/2010	357.44	60.74	0.00	296.70	3.24	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/10/2010	357.44	66.02	0.00	291.42	-5.28	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
12/28/2010	357.44	65.01	0.00	292.43	1.01	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.6	
3/16/2011	357.44	63.63	0.00	293.81	1.38	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
MW-12			**(Screen Interval in feet: 78-88)**											
9/25/2001	354.08	80.78	0.00	273.30	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
12/17/2001	354.08	80.02	0.00	274.06	0.76	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0	
3/15/2002	354.08	78.88	0.00	275.20	1.14	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
6/20/2002	354.08	80.34	0.00	273.74	-1.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.83	
9/27/2002	354.08	81.50	0.00	272.58	-1.16	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/30/2002	354.08	78.20	0.00	275.88	3.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
3/26/2003	354.08	72.80	0.00	281.28	5.40	--	ND<50	0.57	1.6	ND<0.50	2.2	--	ND<2.0	
6/10/2003	354.08	72.31	0.00	281.77	0.49	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
9/9/2003	354.08	73.38	0.00	280.70	-1.07	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
12/10/2003	354.08	70.28	0.00	283.80	3.10	--	ND<50	ND<0.50	0.51	ND<0.50	1.1	--	ND<2.0	
3/9/2004	354.08	65.69	0.00	288.39	4.59	--	ND<50	ND<0.50	0.54	ND<0.50	1.4	--	ND<2.0	
6/21/2004	354.08	66.90	0.00	287.18	-1.21	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/8/2004	354.08	71.96	0.00	282.12	-5.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/14/2004	354.08	71.92	0.00	282.16	0.04	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/17/2005	354.08	60.49	0.00	293.59	11.43	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/15/2005	354.08	57.82	0.00	296.26	2.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	1.1	--	ND<0.50	
9/20/2005	354.08	63.02	0.00	291.06	-5.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-12 continued														
12/29/2005	354.08	55.01	0.00	299.07	8.01	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/15/2006	354.08	49.92	0.00	304.16	5.09	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/28/2006	354.08	47.91	0.00	306.17	2.01	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.56	
9/28/2006	354.08	52.05	0.00	302.03	-4.14	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/11/2006	354.08	47.83	0.00	306.25	4.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
3/19/2007	354.08	43.32	0.00	310.76	4.51	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
6/15/2007	354.08	48.26	0.00	305.82	-4.94	--	ND<50	ND<0.50	ND<0.50	ND<0.50	0.60	--	ND<0.50	
9/24/2007	354.08	52.60	0.00	301.48	-4.34	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
12/27/2007	354.08	45.83	0.00	308.25	6.77	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/25/2008	354.08	44.63	0.00	309.45	1.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/6/2008	354.08	45.51	0.00	308.57	-0.88	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/5/2008	354.08	54.27	0.00	299.81	-8.76	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/8/2008	354.08	54.92	0.00	299.16	-0.65	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/26/2009	354.08	49.25	0.00	304.83	5.67	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/22/2009	354.08	55.54	0.00	298.54	-6.29	--	ND<50	0.86	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/1/2009	356.89	67.51	0.00	289.38	-9.16	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
12/17/2009	356.89	64.35	0.00	292.54	3.16	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
2/4/2010	356.89	63.34	0.00	293.55	1.01	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
6/18/2010	356.89	60.17	0.00	296.72	3.17	--	ND<50	0.77	ND<0.50	ND<0.50	ND<1.0	--	15	
9/10/2010	356.89	66.12	0.00	290.77	-5.95	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only
12/28/2010	356.89	64.48	0.00	292.41	1.64	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/16/2011	356.89	63.62	0.00	293.27	0.86	--	--	--	--	--	--	--	--	Sampled Q2 and Q4 only

MW-13 **(Screen Interval in feet: 62-77)**

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
December 1987 Through March 2011
76 Station 7376

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-13 continued														
4/26/2010	365.66	--	--	--	--	--	67	ND<0.005	ND<0.005	ND<0.005	ND<0.01	--	68	Sampled by Delta
9/10/2010	365.66	73.35	0.00	292.31	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.3	
12/28/2010	365.66	72.36	0.00	293.30	0.99	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.5	
3/16/2011	365.66	71.71	0.00	293.95	0.65	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.9	

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-1												
12/8/1987	2100	--	--	--	--	--	--	--	--	--	--	--
3/1/1995	120	--	--	--	--	--	--	--	--	--	--	--
6/1/1995	54	--	--	--	--	--	--	--	--	--	--	--
9/6/1995	690	--	--	--	--	--	--	--	--	--	--	--
12/12/1995	190	--	--	--	--	--	--	--	--	--	--	--
3/1/1996	56	--	--	--	--	--	--	--	--	--	--	--
6/15/1996	ND	--	--	--	--	--	--	--	--	--	--	--
9/18/1996	130	--	--	--	--	--	--	--	--	--	--	--
12/21/1996	ND	--	--	--	--	--	--	--	--	--	--	--
3/7/1997	ND	--	--	--	--	--	--	--	--	--	--	--
6/27/1997	ND	--	--	--	--	--	--	--	--	--	--	--
9/29/1997	ND	--	--	--	--	--	--	--	--	--	--	--
12/15/1997	ND	--	--	--	--	--	--	--	--	--	--	--
3/16/1998	ND	--	--	--	--	--	--	--	--	--	--	--
6/26/1998	ND	--	--	--	--	--	--	--	--	--	--	--
9/22/1998	240	--	--	--	--	--	--	--	--	--	--	--
12/15/1998	ND	--	--	--	--	--	--	--	--	--	--	--
3/15/1999	67	--	--	--	--	--	--	--	--	--	--	--
6/7/1999	ND	--	--	--	--	--	--	--	--	--	--	--
9/3/1999	76	ND	ND	ND<2.0	--	--	ND	ND	ND	--	--	--
12/6/1999	ND	--	--	--	--	--	--	--	--	--	--	--
3/10/2000	51	--	--	--	--	--	--	--	--	--	--	--
6/8/2000	68.2	--	--	--	--	--	--	--	--	--	--	--
9/25/2000	ND	--	--	--	--	--	--	--	--	--	--	--
12/19/2000	ND	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-1 continued												
3/5/2001	505	--	--	--	--	--	--	--	--	--	--	--
6/14/2001	71	--	--	--	--	--	--	--	--	--	--	--
9/17/2001	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/17/2001	ND<53	ND<40	ND<1000	--	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--
3/15/2002	ND<52	--	--	--	--	--	--	--	--	--	--	--
6/20/2002	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/27/2002	ND<100	--	--	--	--	--	--	--	--	--	--	--
12/30/2002	52	ND<400	ND<2000	ND<8.0	--	ND<8.0	ND<8.0	ND<8.0	ND<8.0	--	--	--
3/26/2003	120	ND<2000	ND<10000	ND<40	--	ND<40	ND<40	ND<40	ND<40	--	--	--
6/10/2003	ND<50	ND<4000	ND<20000	ND<80	--	ND<80	ND<80	ND<80	ND<80	--	--	--
9/9/2003	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/10/2003	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/9/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/21/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/8/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/14/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/17/2005	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/15/2005	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/20/2005	ND<200	--	--	--	--	--	--	--	--	--	--	--
12/29/2005	ND<200	--	--	--	--	--	--	--	--	--	--	--
3/15/2006	ND<200	--	--	--	--	--	--	--	--	--	--	--
6/28/2006	ND<200	--	--	--	--	--	--	--	--	--	--	--
9/28/2006	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/11/2006	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/19/2007	170	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-1 continued												
6/15/2007	53	--	--	--	--	--	--	--	--	--	--	--
9/24/2007	76	--	--	--	--	--	--	--	--	--	--	--
12/27/2007	53	--	--	--	--	--	--	--	--	--	--	--
3/25/2008	59	--	--	--	--	--	--	--	--	--	--	--
6/6/2008	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/5/2008	ND<56	--	--	--	--	--	--	--	--	--	--	--
12/8/2008	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/26/2009	ND<50	--	--	--	--	--	--	--	--	--	--	--
MW-1B												
9/1/2009	ND<50	49	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--
12/17/2009	ND<50	--	--	--	--	--	--	--	--	--	--	--
2/4/2010	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/18/2010	50	--	--	ND<0.50	--	0.81	--	--	--	--	--	--
9/10/2010	ND<50	--	--	ND<0.50	ND<0.010	0.84	--	--	--	--	--	--
12/28/2010	ND<50	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--
3/16/2011	ND<50	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--
MW-2												
12/8/1987	620	--	--	--	--	--	--	--	--	--	--	--
MW-2B												
3/1/1995	320	--	--	--	--	--	--	--	--	--	--	--
6/1/1995	280	--	--	--	--	--	--	--	--	--	--	--
9/6/1995	ND	--	--	--	--	--	--	--	--	--	--	--
12/12/1995	850	--	--	--	--	--	--	--	--	--	--	--
3/1/1996	870	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-2B continued												
6/15/1996	420	--	--	--	--	--	--	--	--	--	--	--
9/18/1996	600	--	--	--	--	--	--	--	--	--	--	--
12/21/1996	470	--	--	--	--	--	--	--	--	--	--	--
3/7/1997	870	--	--	--	--	--	--	--	--	--	--	--
6/27/1997	680	--	--	--	--	--	--	--	--	--	--	--
9/29/1997	430	--	--	--	--	--	--	--	--	--	--	--
12/15/1997	490	--	--	--	--	--	--	--	--	--	--	--
3/16/1998	4000	--	--	--	--	--	--	--	--	--	--	--
6/26/1998	790	--	--	--	--	--	--	--	--	--	--	--
9/22/1998	930	--	--	--	--	--	--	--	--	--	--	--
12/15/1998	600	--	--	--	--	--	--	--	--	--	--	--
3/15/1999	390	3800	ND	--	--	--	13	ND	ND	--	--	--
6/7/1999	770	--	--	--	--	--	--	--	--	--	--	--
9/3/1999	870	3480	ND	--	--	--	ND	ND	ND	--	--	--
12/6/1999	850	--	--	--	--	--	--	--	--	--	--	--
3/10/2000	1500	--	--	--	--	--	--	--	--	--	--	--
9/25/2000	2900	--	--	--	--	--	--	--	--	--	--	--
12/19/2000	700	--	--	--	--	--	--	--	--	--	--	--
6/14/2001	570	--	--	--	--	--	--	--	--	--	--	--
6/10/2003	280	ND<10000	ND<50000	ND<200	--	ND<200	ND<200	ND<200	ND<200	--	--	--
6/21/2004	260	--	--	--	--	--	--	--	--	--	--	--
3/17/2005	280	--	--	--	--	--	--	--	--	--	--	--
6/15/2005	560	--	--	--	--	--	--	--	--	--	--	--
9/20/2005	340	--	--	--	--	--	--	--	--	--	--	--
3/15/2006	7200	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-2B continued												
6/28/2006	32000	--	--	--	--	--	--	--	--	--	--	--
9/28/2006	2300	--	--	--	--	--	--	--	--	--	--	--
12/11/2006	61000	--	--	--	--	--	--	--	--	--	--	--
3/19/2007	30000	--	--	--	--	--	--	--	--	--	--	--
6/15/2007	21000	--	--	--	--	--	--	--	--	--	--	--
12/27/2007	18000	--	--	--	--	--	--	--	--	--	--	--
3/25/2008	1200	--	--	--	--	--	--	--	--	--	--	--
6/6/2008	15000	--	--	--	--	--	--	--	--	--	--	--
9/5/2008	710	--	--	--	--	--	--	--	--	--	--	--
12/8/2008	7000	--	--	--	--	--	--	--	--	--	--	--
3/26/2009	11000	--	--	--	--	--	--	--	--	--	--	--
MW-2C												
6/18/2010	ND<56	--	--	ND<0.50	--	6.0	--	--	--	--	--	--
3/16/2011	ND<50	--	--	ND<0.50	--	1.7	--	--	--	--	--	--
MW-3												
12/8/1987	2300	--	--	--	--	--	--	--	--	--	--	--
3/1/1995	140	--	--	--	--	--	--	--	--	--	--	--
6/1/1995	140	--	--	--	--	--	--	--	--	--	--	--
9/6/1995	880	--	--	--	--	--	--	--	--	--	--	--
12/12/1995	3100	--	--	--	--	--	--	--	--	--	--	--
3/1/1996	1500	--	--	--	--	--	--	--	--	--	--	--
6/15/1996	400	--	--	--	--	--	--	--	--	--	--	--
9/18/1996	170	--	--	--	--	--	--	--	--	--	--	--
12/21/1996	64	--	--	--	--	--	--	--	--	--	--	--
3/7/1997	570	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-3 continued												
6/27/1997	ND	--	--	--	--	--	--	--	--	--	--	--
9/29/1997	ND	--	--	--	--	--	--	--	--	--	--	--
12/15/1997	ND	--	--	--	--	--	--	--	--	--	--	--
3/16/1998	670	--	--	--	--	--	--	--	--	--	--	--
6/26/1998	63	--	--	--	--	--	--	--	--	--	--	--
9/22/1998	95	--	--	--	--	--	--	--	--	--	--	--
12/15/1998	ND	--	--	--	--	--	--	--	--	--	--	--
3/15/1999	3500	--	--	--	--	--	--	--	--	--	--	--
6/7/1999	ND	--	--	--	--	--	--	--	--	--	--	--
9/3/1999	2900	ND	ND	--	--	--	ND	ND	ND	--	--	--
12/6/1999	4200	--	--	--	--	--	--	--	--	--	--	--
3/10/2000	2500	--	--	--	--	--	--	--	--	--	--	--
6/8/2000	489	--	--	--	--	--	--	--	--	--	--	--
9/25/2000	4380	--	--	--	--	--	--	--	--	--	--	--
12/19/2000	5600	--	--	--	--	--	--	--	--	--	--	--
3/5/2001	3790	--	--	--	--	--	--	--	--	--	--	--
6/14/2001	1300	--	--	--	--	--	--	--	--	--	--	--
9/17/2001	290	--	--	--	--	--	--	--	--	--	--	--
12/17/2001	700	26	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--
3/15/2002	3600	--	--	--	--	--	--	--	--	--	--	--
6/20/2002	1300	--	--	--	--	--	--	--	--	--	--	--
9/27/2002	ND<100	--	--	--	--	--	--	--	--	--	--	--
12/30/2002	1800	ND<1000	ND<5000	ND<20	--	ND<20	ND<20	ND<20	ND<20	--	--	--
3/26/2003	2600	ND<1000	ND<5000	ND<20	--	ND<20	ND<20	ND<20	ND<20	--	--	--
6/10/2003	350	ND<100	ND<500	ND<2.0	--	5.3	ND<2.0	ND<2.0	ND<2.0	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-3 continued												
9/9/2003	270	--	--	--	--	--	--	--	--	--	--	--
12/10/2003	800	--	--	--	--	--	--	--	--	--	--	--
3/9/2004	1100	--	--	--	--	--	--	--	--	--	--	--
6/21/2004	210	--	--	--	--	--	--	--	--	--	--	--
9/8/2004	130	--	--	--	--	--	--	--	--	--	--	--
12/14/2004	800	--	--	--	--	--	--	--	--	--	--	--
3/17/2005	2400	--	--	--	--	--	--	--	--	--	--	--
6/15/2005	410	--	--	--	--	--	--	--	--	--	--	--
9/20/2005	ND<200	--	--	--	--	--	--	--	--	--	--	--
12/29/2005	1400	--	--	--	--	--	--	--	--	--	--	--
3/15/2006	520	--	--	--	--	--	--	--	--	--	--	--
6/28/2006	920	--	--	--	--	--	--	--	--	--	--	--
9/28/2006	190	--	--	--	--	--	--	--	--	--	--	--
12/11/2006	520	--	--	--	--	--	--	--	--	--	--	--
3/19/2007	660	--	--	--	--	--	--	--	--	--	--	--
6/15/2007	1100	--	--	--	--	--	--	--	--	--	--	--
9/24/2007	770	--	--	--	--	--	--	--	--	--	--	--
12/27/2007	340	--	--	--	--	--	--	--	--	--	--	--
3/25/2008	940	--	--	--	--	--	--	--	--	--	--	--
6/6/2008	380	--	--	--	--	--	--	--	--	--	--	--
9/5/2008	240	--	--	--	--	--	--	--	--	--	--	--
12/8/2008	250	--	--	--	--	--	--	--	--	--	--	--
3/26/2009	210	--	--	--	--	--	--	--	--	--	--	--
MW-3B												
6/18/2010	ND<50	--	--	ND<0.50	--	5.0	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-3B continued												
3/16/2011	--	--	--	ND<0.50	--	2.1	--	--	--	--	--	--
MW-4												
9/18/1996	200	--	--	--	--	--	--	--	--	--	--	--
12/21/1996	ND	--	--	--	--	--	--	--	--	--	--	--
3/7/1997	ND	--	--	--	--	--	--	--	--	--	--	--
6/27/1997	ND	--	--	--	--	--	--	--	--	--	--	--
9/29/1997	ND	--	--	--	--	--	--	--	--	--	--	--
12/15/1997	ND	--	--	--	--	--	--	--	--	--	--	--
3/16/1998	ND	--	--	--	--	--	--	--	--	--	--	--
6/26/1998	630	--	--	--	--	--	--	--	--	--	--	--
9/22/1998	74	--	--	--	--	--	--	--	--	--	--	--
12/15/1998	ND	--	--	--	--	--	--	--	--	--	--	--
3/15/1999	ND	--	--	--	--	--	--	--	--	--	--	--
6/7/1999	ND	--	--	--	--	--	--	--	--	--	--	--
9/3/1999	66	ND	ND	--	--	--	ND	ND	ND	--	--	--
12/6/1999	95	--	--	--	--	--	--	--	--	--	--	--
3/10/2000	ND	--	--	--	--	--	--	--	--	--	--	--
6/8/2000	72.8	--	--	--	--	--	--	--	--	--	--	--
6/10/2003	ND<50	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--
9/9/2003	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/10/2003	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/9/2004	56	--	--	--	--	--	--	--	--	--	--	--
6/21/2004	59	--	--	--	--	--	--	--	--	--	--	--
9/8/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/14/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-4 continued												
3/17/2005	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/15/2005	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/20/2005	ND<200	--	--	--	--	--	--	--	--	--	--	--
12/29/2005	ND<200	--	--	--	--	--	--	--	--	--	--	--
3/15/2006	ND<200	--	--	--	--	--	--	--	--	--	--	--
6/28/2006	ND<200	--	--	--	--	--	--	--	--	--	--	--
9/28/2006	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/11/2006	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/19/2007	66	--	--	--	--	--	--	--	--	--	--	--
6/15/2007	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/24/2007	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/27/2007	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/25/2008	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/6/2008	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/5/2008	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/8/2008	ND<56	--	--	--	--	--	--	--	--	--	--	--
3/26/2009	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/22/2009	140	--	--	--	--	--	--	--	--	--	--	--
12/17/2009	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/18/2010	ND<50	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--
12/28/2010	ND<50	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--
MW-5												
9/18/1996	4700	--	--	--	--	--	--	--	--	--	--	--
12/21/1996	4700	--	--	--	--	--	--	--	--	--	--	--
3/7/1997	2100	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-5 continued												
6/26/1998	230000	--	--	--	--	--	--	--	--	--	--	--
6/7/1999	4700000	ND	ND	--	--	--	ND	ND	ND	--	--	--
3/9/2004	110000	--	--	--	--	--	--	--	--	--	--	--
6/21/2004	190000	--	--	--	--	--	--	--	--	--	--	--
3/19/2007	84000	--	--	--	--	--	--	--	--	--	--	--
6/15/2007	29000	--	--	--	--	--	--	--	--	--	--	--
9/24/2007	33000	--	--	--	--	--	--	--	--	--	--	--
12/27/2007	23000	--	--	--	--	--	--	--	--	--	--	--
3/25/2008	44000	--	--	--	--	--	--	--	--	--	--	--
6/6/2008	5100	--	--	--	--	--	--	--	--	--	--	--
9/5/2008	9000	--	--	--	--	--	--	--	--	--	--	--
12/8/2008	7500	--	--	--	--	--	--	--	--	--	--	--
3/26/2009	5400	--	--	--	--	--	--	--	--	--	--	--
6/22/2009	15000	--	--	--	--	--	--	--	--	--	--	--
9/10/2010	16000	--	--	ND<12	ND<0.010	ND<12	--	--	--	--	--	--
12/28/2010	--	--	--	ND<25	--	ND<25	--	--	--	--	--	--
3/16/2011	5900	--	--	ND<12	--	ND<12	--	--	--	--	--	--
MW-6												
9/18/1996	ND	--	--	--	--	--	--	--	--	--	--	--
12/21/1996	ND	--	--	--	--	--	--	--	--	--	--	--
3/7/1997	190	--	--	--	--	--	--	--	--	--	--	--
6/27/1997	73	--	--	--	--	--	--	--	--	--	--	--
9/29/1997	ND	--	--	--	--	--	--	--	--	--	--	--
12/15/1997	ND	--	--	--	--	--	--	--	--	--	--	--
3/16/1998	100	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-6 continued												
6/26/1998	180	--	--	--	--	--	--	--	--	--	--	--
1/23/1999	ND	--	--	--	--	--	--	--	--	--	--	--
3/15/1999	71	--	--	--	--	--	--	--	--	--	--	--
6/7/1999	160	--	--	--	--	--	--	--	--	--	--	--
3/10/2000	ND	--	--	--	--	--	--	--	--	--	--	--
3/9/2004	110	--	--	--	--	--	--	--	--	--	--	--
3/17/2005	150	--	--	--	--	--	--	--	--	--	--	--
6/15/2005	120	--	--	--	--	--	--	--	--	--	--	--
9/20/2005	ND<200	--	--	--	--	--	--	--	--	--	--	--
12/29/2005	ND<200	--	--	--	--	--	--	--	--	--	--	--
3/15/2006	ND<200	--	--	--	--	--	--	--	--	--	--	--
6/28/2006	ND<200	--	--	--	--	--	--	--	--	--	--	--
9/28/2006	85	--	--	--	--	--	--	--	--	--	--	--
12/11/2006	81	--	--	--	--	--	--	--	--	--	--	--
3/19/2007	90	--	--	--	--	--	--	--	--	--	--	--
6/15/2007	310	--	--	--	--	--	--	--	--	--	--	--
9/24/2007	130	--	--	--	--	--	--	--	--	--	--	--
12/27/2007	73	--	--	--	--	--	--	--	--	--	--	--
3/25/2008	77	--	--	--	--	--	--	--	--	--	--	--
6/6/2008	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/5/2008	73	--	--	--	--	--	--	--	--	--	--	--
12/8/2008	130	--	--	--	--	--	--	--	--	--	--	--
3/26/2009	55	--	--	--	--	--	--	--	--	--	--	--
6/22/2009	ND<56	--	--	--	--	--	--	--	--	--	--	--
6/18/2010	ND<59	--	--	ND<0.50	--	2.9	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-6 continued												
12/28/2010	ND<50	--	--	ND<0.50	--	3.1	--	--	--	--	--	--
MW-7												
8/18/1998	1400	--	--	--	--	--	--	--	--	--	--	--
9/22/1998	780	--	--	--	--	--	--	--	--	--	--	--
12/15/1998	350	--	--	--	--	--	--	--	--	--	--	--
3/15/1999	460	610	ND	--	--	--	4.3	ND	ND	--	--	--
6/7/1999	550	--	--	--	--	--	--	--	--	--	--	--
9/3/1999	550	460	ND	--	--	--	4.36	ND	ND	--	--	--
12/6/1999	220	--	--	--	--	--	--	--	--	--	--	--
3/10/2000	930	--	--	--	--	--	--	--	--	--	--	--
6/8/2000	463	--	--	--	--	--	--	--	--	--	--	--
9/25/2000	1810	--	--	--	--	--	--	--	--	--	--	--
12/19/2000	930	--	--	--	--	--	--	--	--	--	--	--
3/5/2001	801	--	--	--	--	--	--	--	--	--	--	--
6/14/2001	710	--	--	--	--	--	--	--	--	--	--	--
9/17/2001	860	--	--	--	--	--	--	--	--	--	--	--
12/17/2001	470	ND<200	ND<5000	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	--	--
3/15/2002	830	--	--	--	--	--	--	--	--	--	--	--
6/20/2002	710	--	--	--	--	--	--	--	--	--	--	--
9/27/2002	300	--	--	--	--	--	--	--	--	--	--	--
12/30/2002	220	ND<500	ND<2500	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	--	--
3/26/2003	560	ND<2000	ND<10000	ND<40	--	ND<40	ND<40	ND<40	ND<40	--	--	--
6/10/2003	610	ND<1000	ND<5000	ND<20	--	ND<20	ND<20	ND<20	ND<20	--	--	--
9/9/2003	430	--	--	--	--	--	--	--	--	--	--	--
12/10/2003	450	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-7 continued												
3/9/2004	640	--	--	--	--	--	--	--	--	--	--	--
6/21/2004	630	--	--	--	--	--	--	--	--	--	--	--
9/8/2004	270	--	--	--	--	--	--	--	--	--	--	--
12/14/2004	160	--	--	--	--	--	--	--	--	--	--	--
3/17/2005	380	--	--	--	--	--	--	--	--	--	--	--
6/15/2005	630	--	--	--	--	--	--	--	--	--	--	--
9/20/2005	280	--	--	--	--	--	--	--	--	--	--	--
12/29/2005	ND<200	--	--	--	--	--	--	--	--	--	--	--
3/15/2006	ND<200	--	--	--	--	--	--	--	--	--	--	--
6/28/2006	260	--	--	--	--	--	--	--	--	--	--	--
9/28/2006	140	--	--	--	--	--	--	--	--	--	--	--
12/11/2006	99	--	--	--	--	--	--	--	--	--	--	--
3/19/2007	140	--	--	--	--	--	--	--	--	--	--	--
6/15/2007	78	--	--	--	--	--	--	--	--	--	--	--
9/24/2007	140	--	--	--	--	--	--	--	--	--	--	--
12/27/2007	71	--	--	--	--	--	--	--	--	--	--	--
3/25/2008	630	--	--	--	--	--	--	--	--	--	--	--
6/6/2008	ND<56	--	--	--	--	--	--	--	--	--	--	--
9/5/2008	120	--	--	--	--	--	--	--	--	--	--	--
12/8/2008	110	--	--	--	--	--	--	--	--	--	--	--
3/26/2009	69	--	--	--	--	--	--	--	--	--	--	--
6/22/2009	110	--	--	--	--	--	--	--	--	--	--	--
6/18/2010	--	--	--	ND<0.50	--	ND<0.50	--	--	--	ND<0.50	ND<0.50	ND<0.50
12/28/2010	ND<50	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--

MW-8

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-8 continued												
6/26/1998	80	--	--	--	--	--	--	--	--	--	--	--
9/22/1998	120	--	--	--	--	--	--	--	--	--	--	--
12/15/1998	ND	--	--	--	--	--	--	--	--	--	--	--
3/23/1999	60	--	--	--	--	--	--	--	--	--	--	--
6/7/1999	ND	--	--	--	--	--	--	--	--	--	--	--
9/3/1999	130	ND	ND	--	--	--	12.4	ND	ND	--	--	--
12/6/1999	160	--	--	--	--	--	--	--	--	--	--	--
3/10/2000	61	--	--	--	--	--	--	--	--	--	--	--
6/8/2000	135	--	--	--	--	--	--	--	--	--	--	--
9/25/2000	518	--	--	--	--	--	--	--	--	--	--	--
12/19/2000	100	--	--	--	--	--	--	--	--	--	--	--
3/5/2001	161	--	--	--	--	--	--	--	--	--	--	--
6/14/2001	94	--	--	--	--	--	--	--	--	--	--	--
9/17/2001	60	--	--	--	--	--	--	--	--	--	--	--
12/17/2001	ND<52	77	ND<500	ND<1.0	--	ND<1.0	9.8	ND<1.0	ND<1.0	--	--	--
3/15/2002	69	--	--	--	--	--	--	--	--	--	--	--
6/20/2002	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/27/2002	130	--	--	--	--	--	--	--	--	--	--	--
12/30/2002	76	ND<100	ND<500	ND<2.0	--	ND<2.0	7.1	ND<2.0	ND<2.0	--	--	--
3/26/2003	120	ND<100	ND<500	ND<2.0	--	ND<2.0	7.1	ND<2.0	ND<2.0	--	--	--
6/10/2003	ND<50	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--
9/9/2003	58	--	--	--	--	--	--	--	--	--	--	--
12/10/2003	86	--	--	--	--	--	--	--	--	--	--	--
3/9/2004	92	--	--	--	--	--	--	--	--	--	--	--
6/21/2004	87	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-8 continued												
9/8/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/14/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/17/2005	56	--	--	--	--	--	--	--	--	--	--	--
6/15/2005	53	--	--	--	--	--	--	--	--	--	--	--
9/20/2005	ND<200	--	--	--	--	--	--	--	--	--	--	--
12/29/2005	ND<200	--	--	--	--	--	--	--	--	--	--	--
3/15/2006	ND<200	--	--	--	--	--	--	--	--	--	--	--
6/28/2006	ND<200	--	--	--	--	--	--	--	--	--	--	--
9/28/2006	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/11/2006	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/19/2007	60	--	--	--	--	--	--	--	--	--	--	--
6/15/2007	58	--	--	--	--	--	--	--	--	--	--	--
9/24/2007	53	--	--	--	--	--	--	--	--	--	--	--
12/27/2007	72	--	--	--	--	--	--	--	--	--	--	--
3/25/2008	50	--	--	--	--	--	--	--	--	--	--	--
6/6/2008	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/5/2008	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/8/2008	62	--	--	--	--	--	--	--	--	--	--	--
3/26/2009	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/22/2009	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/18/2010	--	--	--	ND<0.50	--	ND<0.50	--	--	--	ND<0.50	ND<0.50	ND<0.50
12/28/2010	ND<50	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--
MW-9												
12/6/1999	ND	ND	--	ND	--	ND	ND	ND	ND	--	--	--
3/10/2000	150	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-9 continued												
6/8/2000	67.8	--	--	--	--	--	--	--	--	--	--	--
9/25/2000	903	--	--	--	--	--	--	--	--	--	--	--
12/19/2000	ND	--	--	--	--	--	--	--	--	--	--	--
3/5/2001	96.5	--	--	--	--	--	--	--	--	--	--	--
6/14/2001	ND	--	--	--	--	--	--	--	--	--	--	--
9/17/2001	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/17/2001	ND<52	ND<20	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--
3/15/2002	ND<51	--	--	--	--	--	--	--	--	--	--	--
6/20/2002	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/27/2002	ND<110	--	--	--	--	--	--	--	--	--	--	--
12/30/2002	59	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--
3/26/2003	ND<50	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--
6/10/2003	ND<50	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--
9/9/2003	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/10/2003	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/9/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/21/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/8/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/14/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/17/2005	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/15/2005	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/20/2005	ND<200	--	--	--	--	--	--	--	--	--	--	--
12/29/2005	ND<200	--	--	--	--	--	--	--	--	--	--	--
3/15/2006	ND<200	--	--	--	--	--	--	--	--	--	--	--
6/28/2006	ND<200	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-9 continued												
9/28/2006	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/11/2006	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/19/2007	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/15/2007	52	--	--	--	--	--	--	--	--	--	--	--
9/24/2007	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/27/2007	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/25/2008	110	--	--	--	--	--	--	--	--	--	--	--
6/6/2008	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/5/2008	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/8/2008	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/26/2009	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/17/2009	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/18/2010	ND<50	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--
12/28/2010	ND<50	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--
MW-10												
3/10/2000	78	ND	--	ND	--	22	ND	ND	ND	--	--	--
6/10/2003	65	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--
3/9/2004	140	--	--	--	--	--	--	--	--	--	--	--
6/21/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/17/2005	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/15/2005	71	--	--	--	--	--	--	--	--	--	--	--
9/20/2005	ND<200	--	--	--	--	--	--	--	--	--	--	--
12/29/2005	ND<200	--	--	--	--	--	--	--	--	--	--	--
3/15/2006	ND<200	--	--	--	--	--	--	--	--	--	--	--
6/28/2006	ND<200	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-10 continued												
9/28/2006	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/11/2006	92	--	--	--	--	--	--	--	--	--	--	--
3/19/2007	190	--	--	--	--	--	--	--	--	--	--	--
6/15/2007	120	--	--	--	--	--	--	--	--	--	--	--
9/24/2007	130	--	--	--	--	--	--	--	--	--	--	--
12/27/2007	59	--	--	--	--	--	--	--	--	--	--	--
3/25/2008	74	--	--	--	--	--	--	--	--	--	--	--
6/6/2008	190	--	--	--	--	--	--	--	--	--	--	--
9/5/2008	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/8/2008	53	--	--	--	--	--	--	--	--	--	--	--
3/26/2009	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/22/2009	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/18/2010	ND<60	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--
12/28/2010	ND<50	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--
MW-11												
9/25/2001	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/17/2001	110	ND<20	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--
3/15/2002	140	--	--	--	--	--	--	--	--	--	--	--
6/20/2002	ND<60	--	--	--	--	--	--	--	--	--	--	--
9/27/2002	ND<110	--	--	--	--	--	--	--	--	--	--	--
12/30/2002	ND<50	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--
3/26/2003	54	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--
6/10/2003	ND<50	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--
9/9/2003	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/10/2003	ND<50	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-11 continued												
3/9/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/21/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/8/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/14/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/17/2005	85	--	--	--	--	--	--	--	--	--	--	--
6/15/2005	170	--	--	--	--	--	--	--	--	--	--	--
9/20/2005	210	--	--	--	--	--	--	--	--	--	--	--
12/29/2005	ND<200	--	--	--	--	--	--	--	--	--	--	--
3/15/2006	ND<200	--	--	--	--	--	--	--	--	--	--	--
6/28/2006	ND<200	--	--	--	--	--	--	--	--	--	--	--
9/28/2006	51	--	--	--	--	--	--	--	--	--	--	--
12/11/2006	74	--	--	--	--	--	--	--	--	--	--	--
3/19/2007	63	--	--	--	--	--	--	--	--	--	--	--
6/15/2007	70	--	--	--	--	--	--	--	--	--	--	--
9/24/2007	78	--	--	--	--	--	--	--	--	--	--	--
12/27/2007	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/25/2008	51	--	--	--	--	--	--	--	--	--	--	--
6/6/2008	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/5/2008	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/8/2008	87	--	--	--	--	--	--	--	--	--	--	--
3/26/2009	90	--	--	--	--	--	--	--	--	--	--	--
6/22/2009	76	--	--	--	--	--	--	--	--	--	--	--
12/17/2009	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/18/2010	ND<50	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--
12/28/2010	ND<50	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-12												
9/25/2001	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/17/2001	77	ND<20	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--
3/15/2002	ND<51	--	--	--	--	--	--	--	--	--	--	--
6/20/2002	ND<58	--	--	--	--	--	--	--	--	--	--	--
9/27/2002	ND<100	--	--	--	--	--	--	--	--	--	--	--
12/30/2002	ND<50	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--
3/26/2003	ND<50	ND<100	ND<500000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--
6/10/2003	ND<50	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--
9/9/2003	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/10/2003	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/9/2004	220	--	--	--	--	--	--	--	--	--	--	--
6/21/2004	180	--	--	--	--	--	--	--	--	--	--	--
9/8/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/14/2004	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/17/2005	350	--	--	--	--	--	--	--	--	--	--	--
6/15/2005	330	--	--	--	--	--	--	--	--	--	--	--
9/20/2005	250	--	--	--	--	--	--	--	--	--	--	--
12/29/2005	320	--	--	--	--	--	--	--	--	--	--	--
3/15/2006	240	--	--	--	--	--	--	--	--	--	--	--
6/28/2006	210	--	--	--	--	--	--	--	--	--	--	--
9/28/2006	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/11/2006	120	--	--	--	--	--	--	--	--	--	--	--
3/19/2007	99	--	--	--	--	--	--	--	--	--	--	--
6/15/2007	66	--	--	--	--	--	--	--	--	--	--	--
9/24/2007	71	--	--	--	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	TPH-D (µg/l)	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)
MW-12 continued												
12/27/2007	ND<50	--	--	--	--	--	--	--	--	--	--	--
3/25/2008	58	--	--	--	--	--	--	--	--	--	--	--
6/6/2008	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/5/2008	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/8/2008	50	--	--	--	--	--	--	--	--	--	--	--
3/26/2009	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/22/2009	ND<50	--	--	--	--	--	--	--	--	--	--	--
12/17/2009	ND<50	--	--	--	--	--	--	--	--	--	--	--
6/18/2010	ND<50	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--
12/28/2010	ND<50	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--
MW-13												
4/26/2010	ND<50	--	--	--	--	--	--	--	--	--	--	--
9/10/2010	--	--	--	ND<0.50	ND<0.010	ND<0.50	--	--	--	--	--	--
12/28/2010	--	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--
3/16/2011	ND<50	--	--	ND<0.50	--	ND<0.50	--	--	--	--	--	--

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	Bromo-form (µg/l)	Bromo-methane (µg/l)	n-Butyl-benzene (µg/l)	sec-Butyl-benzene (µg/l)	tert-Butyl benzene (µg/l)	Carbon Tetra-chloride (µg/l)	Chloro-benzene (µg/l)	Chloro-ethane (µg/l)	Chloroform (µg/l)	Chloro-methane (µg/l)	2-Chloro-toluene (µg/l)	4-Chloro-toluene (µg/l)
MW-7												
6/18/2010	ND<0.50	ND<1.0	ND<0.50	1.0	0.85	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-8												
6/18/2010	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Table 2 c
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	1,2Dibrom-3-chloro-propane (µg/l)	Dibromo-chloro-methane (µg/l)	Dibromo-methane (µg/l)	1,2-Dichloro-benzene (µg/l)	1,3-Dichloro-benzene (µg/l)	1,4-Dichloro-benzene (µg/l)	Dichloro-difluoro-methane (µg/l)	1,1-DCA (µg/l)	1,1-DCE (µg/l)	cis-1,2-DCE (µg/l)	trans-1,2-DCE (µg/l)	1,2-Dichloro-propane (µg/l)
MW-7												
6/18/2010	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-8												
6/18/2010	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Table 2 d
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	1,3-Dichloropropane (µg/l)	2,2-Dichloropropane (µg/l)	1,1-Dichloropropene (µg/l)	cis-1,3-Dichloropropene (µg/l)	trans-1,3-Dichloropropene (µg/l)	Hexachlorobutadiene (µg/l)	Isopropylbenzene (µg/l)	p-Isopropyltoluene (µg/l)	Methylene chloride (µg/l)	Naphthalene (µg/l)	n-Propylbenzene (µg/l)	Styrene (µg/l)
MW-7												
6/18/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.63	ND<0.50	ND<1.0	ND<0.50	0.51	ND<0.50
MW-8												
6/18/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50

Table 2 e
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	1,1,1,2-Tetrachloroethane (µg/l)	1,1,2,2-Tetrachloroethane (µg/l)	Tetrachloroethene (PCE) (µg/l)	Trichlorotrifluoroethane (µg/l)	1,2,4-Trichlorobenzene (µg/l)	1,2,3-Trichlorobenzene (µg/l)	1,1,1-Trichloroethane (µg/l)	1,1,2-Trichloroethane (µg/l)	Trichloroethene (TCE) (µg/l)	Trichlorofluoromethane (µg/l)	1,2,3-Trichloropropane (µg/l)	1,2,4-Trimethylbenzene (µg/l)
MW-7												
6/18/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50
MW-8												
6/18/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50

Table 2 f
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	1,3,5-Trimethyl-benzene (µg/l)	Vinyl chloride (µg/l)	Acena-phthene (µg/l)	Acena-phthylene (svoc) (µg/l)	Aldrin (µg/l)	Aniline (µg/l)	Anthra-cene (µg/l)	Benzidine (µg/l)	Benzo[a]-anthracene (µg/l)	Benzo[a]-pyrene (µg/l)	Benzo[b]-fluor-anthene (µg/l)	Benzo-[g,h,I]-perylene (µg/l)
MW-7												
6/18/2010	ND<0.50	ND<0.50	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<20	ND<2.0	ND<2.0	ND<2.0	ND<2.0
MW-8												
6/18/2010	ND<0.50	ND<0.50	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<20	ND<2.0	ND<2.0	ND<2.0	ND<2.0

Table 2 g
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	Benzo[k]-fluor-anthene (µg/l)	Benzoic Acid (µg/l)	Benzyl Alcohol (µg/l)	Bis(2-chloro-ethoxy) methane (µg/l)	Bis(2-chloro-ethyl) ether (µg/l)	Bis(2-chloro-isopropyl)-ether (µg/l)	Bis(2-ethyl-hexyl) phthalate (µg/l)	4-Bromo-pheny phe-nyl ether (µg/l)	Butyl-benzyl phthalate (µg/l)	alpha-BHC (µg/l)	beta-BHC (µg/l)	delta-BHC (µg/l)
MW-7												
6/18/2010	ND<2.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
MW-8												
6/18/2010	ND<2.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0

Table 2 h
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	gamma-BHC (µg/l)	4-Chloro-3-methyl-phenol (µg/l)	4-Chloro-aniline (µg/l)	2-Chloro-naphtha-lene (µg/l)	2-Chloro-phenol (µg/l)	4-Chloro-phenyl phenyl ether (µg/l)	Chrysene (µg/l)	4,4'-DDD (µg/l)	4,4'-DDE (µg/l)	4,4'-DDT (µg/l)	Dibenzo-[a,h]-anthracene (µg/l)	Dibenzo-furan (µg/l)
MW-7												
6/18/2010	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<3.0	ND<2.0	ND<3.0	ND<2.0
MW-8												
6/18/2010	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<3.0	ND<2.0	ND<3.0	ND<2.0

Table 2 i
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	1,2-Dichloro-benzene (svoc) (µg/l)	1,3-Dichloro-benzene (svoc) (µg/l)	1,4-Dichloro-benzene (svoc) (µg/l)	3,3-Dichloro-benzidine (µg/l)	Dieldrin (µg/l)	2,4-Dichloro-phenol (µg/l)	Diethyl phthalate (µg/l)	2,4-Dimethyl-phenol (µg/l)	Dimethyl phthalate (µg/l)	Di-n-butyl phthalate (µg/l)	2,4-Dinitro-phenol (µg/l)	2,4-Dinitro-toluene (µg/l)
MW-7												
6/18/2010	ND<2.0	ND<2.0	ND<2.0	ND<10	ND<3.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<10	ND<2.0
MW-8												
6/18/2010	ND<2.0	ND<2.0	ND<2.0	ND<10	ND<3.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<10	ND<2.0

Table 2 j
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	2,6-Dinitro-toluene (µg/l)	Di-n-octyl phthalate (µg/l)	1,2-Diphenyl hydrazine (µg/l)	Endosulfan I (µg/l)	Endosulfan II (µg/l)	Endosulfan sulfate (µg/l)	Endrin (µg/l)	Endrin aldehyde (µg/l)	Fluoran-thene (µg/l)	Fluorene (µg/l)	Heptachlor (µg/l)	Heptachlor epoxide (µg/l)
MW-7												
6/18/2010	ND<2.0	ND<2.0	ND<2.0	ND<10	ND<10	ND<3.0	ND<2.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<2.0
MW-8												
6/18/2010	ND<2.0	ND<2.0	ND<2.0	ND<10	ND<10	ND<3.0	ND<2.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<2.0

Table 2 k
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	Hexa-chloro-benzene (µg/l)	HCBD (svoc) (µg/l)	Hexachloro cyclopenta-diene (µg/l)	Hexachloro -ethane (µg/l)	Indeno-[1,2,3-c,d] pyrene (µg/l)	Isophorone (µg/l)	2-Methyl-4,6-dinitro-phenol (µg/l)	2-Methyl-naphtha-lene (µg/l)	2-Methyl-phenol (µg/l)	Naphtha-lene (svoc) (µg/l)	2-Naphthyl-amine (µg/l)	2-Nitro-aniline (µg/l)
MW-7												
6/18/2010	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<20	ND<2.0
MW-8												
6/18/2010	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<10	ND<2.0	ND<2.0	ND<2.0	ND<20	ND<2.0

Table 2 l
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	3-Nitro-aniline (µg/l)	4-Nitro-aniline (µg/l)	Nitro-benzene (µg/l)	2-Nitro-phenol (µg/l)	4-Nitro-phenol (µg/l)	N-Nitroso-dimethyl-amine (µg/l)	N-nitrosodi-n-propyl-amine (µg/l)	N-Nitro-sodiphenyl-amine (µg/l)	Penta-chloro-phenol (µg/l)	Phen-anthrene (µg/l)	Phenol (µg/l)	Pyrene (µg/l)
MW-7												
6/18/2010	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<10	ND<2.0	ND<2.0	ND<2.0
MW-8												
6/18/2010	ND<2.0	ND<5.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<10	ND<2.0	ND<2.0	ND<2.0

Table 2 m
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 7376

Date Sampled	1,2,4-Trichloro-benzene (svoc) (µg/l)	2,4,6-Trichloro-phenol (µg/l)	2,4,5-Trichloro-phenol (µg/l)
MW-7			
6/18/2010	ND<2.0	ND<5.0	ND<5.0
MW-8			
6/18/2010	ND<2.0	ND<5.0	ND<5.0

TABLE 3
LIQUID PHASE HYDROCARBON RECOVERY DATA
76 STATION 7376

WELL	DATE	LPH Recovered(Gallons)
MW-5	6/28/06	0.02
MW-5	7/12/06	0.00
MW-5	8/7/06	0.00
MW-5	9/15/06	0.00
MW-5	9/28/06	0.01
MW-5	10/10/06	0.00
MW-5	10/30/06	0.00
MW-5	11/10/06	0.00
MW-5	11/22/06	0.00
MW-5	12/11/06	0.02
MW-5	12/21/06	0.00
MW-5	1/5/07	0.01
MW-5	1/15/07	0.00
MW-5	2/5/07	0.00
MW-5	2/20/07	0.00
MW-5	3/8/07	0.00
MW-5	4/12/07	0.00
MW-5	4/30/07	0.03
MW-5	5/7/07	0.00
MW-5	5/23/07	0.00
MW-5	6/28/07	0.00
MW-5	7/19/07	0.00
MW-5	8/1/07	0.00
MW-5	8/13/07	0.00
MW-5	8/27/07	0.00
MW-5	9/14/07	0.00
MW-5	10/16/07	0.00
MW-5	10/29/07	0.00
MW-5	11/16/07	0.00
MW-5	12/7/07	0.00
MW-5	1/7/08	0.00
MW-5	1/28/08	0.00
MW-5	2/15/08	0.00
MW-5	2/29/08	0.00
MW-5	3/25/08	0.00
MW-5	4/11/08	0.00
MW-5	4/22/08	0.00
MW-5	5/5/08	0.00
MW-5	5/20/08	0.00
MW-5	6/6/08	0.00
MW-5	6/23/08	0.00
MW-5	7/1/08	0.00
MW-5	7/18/08	0.00

TABLE 3
LIQUID PHASE HYDROCARBON RECOVERY DATA
76 STATION 7376

WELL	DATE	LPH Recovered(Gallons)
MW-5	8/7/08	0.00
MW-5	8/26/08	0.04
MW-5	9/16/08	0.00
MW-5	10/3/08	0.00
MW-5	10/17/08	0.00
MW-5	11/5/08	0.00
MW-5	11/26/08	0.00
MW-5	12/8/08	0.01
MW-5	12/24/08	0.00
MW-5	1/15/09	0.00
MW-5	1/30/09	0.00
MW-5	2/6/09	0.00
MW-5	3/6/09	0.00
MW-5	3/26/09	0.00
MW-5	4/21/09	0.00
MW-5	5/7/09	0.00
MW-5	5/26/09	0.00
MW-5	6/12/09	0.00
MW-5	7/7/09	0.00
MW-5	7/27/09	0.00
MW-5	8/3/09	0.00
MW-5	8/19/09	0.00
MW-5	9/22/09	0.00
MW-5	10/6/09	0.00
MW-5	10/26/09	0.00
MW-5	11/3/09	0.00
MW-5	11/23/09	0.00
MW-5	12/10/09	0.00
MW-5	1/7/10	0.00
MW-5	1/18/10	0.00
MW-5	2/16/10	0.00
MW-5	3/9/10	0.00
MW-5	3/22/10	0.00
MW-5	4/9/10	0.00
MW-5	4/22/10	0.00
MW-5	5/7/10	0.00
MW-5	5/18/10	0.00
MW-5	6/3/10	0.00
MW-5	7/2/10	0.00
MW-5	8/6/10	0.00
MW-5	8/31/10	0.00
MW-5	9/20/10	0.00
MW-5	10/19/10	0.00

TABLE 3
LIQUID PHASE HYDROCARBON RECOVERY DATA
76 STATION 7376

WELL	DATE	LPH Recovered(Gallons)
MW-5	11/11/10	0.00
MW-5	11/29/10	0.00
MW-5	12/8/10	0.00
MW-5	1/6/11	0.00
MW-5	1/31/11	0.00
MW-5	2/14/11	0.00
MW-5	2/28/11	0.00
MW-5	3/22/11	0.00
Total LPH Recovered (gallons):		**0.14**

Table 4
FUEL FINGERPRINT RESULTS
76 Station 7376

Well No.	Monitoring Date	TPH - Light Naptha (µg/l)	TPH - Aviation Gas (µg/l)	TPH - Stoddard Solvent (µg/l)	TPH - Heavy Naptha (µg/l)	TPH - Gasoline (µg/l)	TPH - Jet Fuel (JP4) (µg/l)	TPH - Jet Fuel (JP5) (µg/l)	TPH - Jet Fuel (JP8) (µg/l)	TPH - Kerosene (µg/l)	TPH - Diesel (FFP) (µg/l)	TPH- Fuel Oil #6 (µg/l)	TPH- Crude Oil (µg/l)	TPH - Hydraulic Oil / Motor Oil (µg/l)	TPH - WD-40 (µg/l)
MW-6	12/17/2009	ND<200	ND<200	ND<50	ND<50	ND<200	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<200	ND<200	ND<50
MW-7	12/17/2009	ND<200	ND<200	ND<50	ND<50	670	ND<50	ND<50	ND<50	ND<50	150	ND<50	ND<200	ND<200	ND<50
MW-8	12/17/2009	ND<200	ND<200	ND<50	ND<50	ND<200	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<200	ND<200	ND<50
MW-10	12/17/2009	ND<200	ND<200	ND<50	ND<50	460	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<200	ND<200	ND<50
MW-7	6/18/2010	--	--	--	--	ND<200	--	--	--	--	110	ND<50	--	ND<200	--
MW-8	6/18/2010	--	--	--	--	ND<200	--	--	--	--	ND<50	ND<50	--	ND<200	--

ARCADIS

Attachment C

Laboratory Reports and Chain-of-Custody Documentation

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 09/22/2011

Kathy Brandt

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Project:	7376
BC Work Order:	1114185
Invoice ID:	B107860

Enclosed are the results of analyses for samples received by the laboratory on 9/1/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Table of Contents

~~H-14179~~ 11-14185

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: 7376	Union Oil Consultant: Arcadis
Site Global ID: T0600100101	Consultant Contact: Kathy Brandt
Site Address: 4191 First st. Pleasanton, CA	Consultant Phone No.: 510 596-9675
	Sampling Company: TRC
Union Oil PM: Reza Kambin	Sampled By (PRINT): Andrew Vilders
Union Oil PM Phone No.: 925 790 6270	Sampler Signature:
Charge Code: NWRTB-0 351617 -0- LAB	BC Laboratories, Inc.
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 861-327-4911

SAMPLE ID						ANALYSES REQUIRED												
Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS	BTEX/MTBE by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	EDB/EDC by 8260B							Notes / Comments
-5 MW-13 -1	W-S-A		110901	0950	5	X	X	X			X							
-4 MW-1B -2	W-S-A		↓	1009	3		↓	↓			↓							
-3 MW-8 -3	W-S-A			0912	5	X												
-2 MW-7 -4	W-S-A			0900	5	X												
-1 MW-5 -5	W-S-A		↓	0824	5	X	↓	↓			↓							
	W-S-A																	
	W-S-A																	
	W-S-A																	
	W-S-A																	
	W-S-A																	
	W-S-A																	
	W-S-A																	

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

Special Instructions

CHK BY [illegible] DISTRIBUTION WHITE YELLOW SUB-OUT ☐

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time:
[signature]	TRC	9/1/11 1200	RLRuy	BC	9-1-11 2045			
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**
RLRuy	BC	9-1-11 1340	Maya M	BC	9-1-11 2045			

Chain of Custody and Cooler Receipt Form for 1114185 Page 2 of 2

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

Submission #: 11-14185

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

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

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

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

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

COC Received ☑YES ☐ NO

Emissivity: 0.98 Container: QTA Thermometer ID: 177

Temperature: A 1.8 °C / C 1.6 °C

Date/Time 9-1-11

Analyst Init MM 0045

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

Comments:
Sample Numbering Completed By: CBR Date/Time: 9/1/11 0906
A = Actual / C = Corrected

(H:\DOCSWP60\LAB_DOCS\FORMS\SAMREC2.WPD)

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1114185-01	**COC Number:**	---	**Receive Date:**	09/01/2011 20:45
	Project Number:	7376	**Sampling Date:**	09/01/2011 09:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-13-W-110901	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600100101	
			Location ID (FieldPoint): MW-13	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1114185-02	**COC Number:**	---	**Receive Date:**	09/01/2011 20:45
	Project Number:	7376	**Sampling Date:**	09/01/2011 10:09
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-1B-W-110901	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600100101	
			Location ID (FieldPoint): MW-1B	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1114185-03	**COC Number:**	---	**Receive Date:**	09/01/2011 20:45
	Project Number:	7376	**Sampling Date:**	09/01/2011 09:12
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-8-W-110901	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600100101	
			Location ID (FieldPoint): MW-8	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1114185-04	**COC Number:**	---	**Receive Date:**	09/01/2011 20:45
	Project Number:	7376	**Sampling Date:**	09/01/2011 09:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-7-W-110901	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600100101	
			Location ID (FieldPoint): MW-7	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1114185-05	**COC Number:**	---	**Receive Date:**	09/01/2011 20:45
	Project Number:	7376	**Sampling Date:**	09/01/2011 08:24
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-5-W-110901	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600100101	
			Location ID (FieldPoint): MW-5	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1114185-01 | **Client Sample Name:** 7376, MW-13-W-110901, 9/1/2011 9:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**12**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	93.5	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.4	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.0	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	09/06/11	09/07/11 03:51	JCC	MS-V4	1	BUH2152

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Total Petroleum Hydrocarbons

BCL Sample ID: 1114185-01 | **Client Sample Name:** 7376, MW-13-W-110901, 9/1/2011 9:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	75.7	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	09/08/11	09/12/11 05:52	MWB	GC-5	1	BUI0932

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1114185-02 | **Client Sample Name:** 7376, MW-1B-W-110901, 9/1/2011 10:09:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**72**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**81**	**ug/L**	**50**	**Luft-GC/MS**	ND	**A90**	1
1,2-Dichloroethane-d4 (Surrogate)	94.3	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.6	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.6	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	09/06/11	09/07/11 04:20	JCC	MS-V4	1	BUH2152

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1114185-03 | **Client Sample Name:** 7376, MW-8-W-110901, 9/1/2011 9:12:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
Ethylbenzene	ND	ug/L	2.5	EPA-8260	ND	A01	1
Methyl t-butyl ether	**490**	**ug/L**	**2.5**	**EPA-8260**	ND	**A01**	1
Toluene	ND	ug/L	2.5	EPA-8260	ND	A01	1
Total Xylenes	ND	ug/L	5.0	EPA-8260	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	**470**	**ug/L**	**250**	**Luft-GC/MS**	ND	**A01,A90**	1
1,2-Dichloroethane-d4 (Surrogate)	93.9	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.7	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.5	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	09/06/11	09/07/11 05:47	JCC	MS-V4	5	BUH2152

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Total Petroleum Hydrocarbons

BCL Sample ID: 1114185-03 | **Client Sample Name:** 7376, MW-8-W-110901, 9/1/2011 9:12:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	77.6	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	09/08/11	09/12/11 06:07	MWB	GC-5	1	BUI0932

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1114185-04 | **Client Sample Name:** 7376, MW-7-W-110901, 9/1/2011 9:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**120**	**ug/L**	**2.5**	**EPA-8260**	ND	**A01**	1
1,2-Dibromoethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	ug/L	2.5	EPA-8260	ND	A01	1
Ethylbenzene	**9.2**	**ug/L**	**2.5**	**EPA-8260**	ND	**A01**	1
Methyl t-butyl ether	ND	ug/L	2.5	EPA-8260	ND	A01	1
Toluene	ND	ug/L	2.5	EPA-8260	ND	A01	1
Total Xylenes	ND	ug/L	5.0	EPA-8260	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	**1500**	**ug/L**	**250**	**Luft-GC/MS**	ND	**A01**	1
1,2-Dichloroethane-d4 (Surrogate)	91.9	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.9	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	09/06/11	09/07/11 19:40	JCC	MS-V4	5	BUH2152

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Total Petroleum Hydrocarbons

BCL Sample ID: 1114185-04 | **Client Sample Name:** 7376, MW-7-W-110901, 9/1/2011 9:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**200**	**ug/L**	**40**	**EPA-8015B/TPHd**	ND		1
Tetracosane (Surrogate)	66.0	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	09/08/11	09/12/11 04:26	MWB	GC-5	1	BUI0932

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1114185-05 | **Client Sample Name:** 7376, MW-5-W-110901, 9/1/2011 8:24:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**1800**	**ug/L**	**25**	**EPA-8260**	ND	**A01**	1
1,2-Dibromoethane	ND	ug/L	5.0	EPA-8260	ND	A01	2
1,2-Dichloroethane	ND	ug/L	5.0	EPA-8260	ND	A01	2
Ethylbenzene	**550**	**ug/L**	**5.0**	**EPA-8260**	ND	**A01**	2
Methyl t-butyl ether	**2600**	**ug/L**	**25**	**EPA-8260**	ND	**A01**	1
Toluene	**49**	**ug/L**	**5.0**	**EPA-8260**	ND	**A01**	2
Total Xylenes	**130**	**ug/L**	**10**	**EPA-8260**	ND	**A01**	2
Total Purgeable Petroleum Hydrocarbons	**9100**	**ug/L**	**500**	**Luft-GC/MS**	ND	**A01**	2
1,2-Dichloroethane-d4 (Surrogate)	90.2	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	92.0	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	98.8	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	95.9	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.8	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	09/06/11	09/08/11 20:37	JCC	MS-V4	50	BUH2152
2	EPA-8260	09/06/11	09/07/11 20:09	JCC	MS-V4	10	BUH2152

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Total Petroleum Hydrocarbons

BCL Sample ID: 1114185-05 | **Client Sample Name:** 7376, MW-5-W-110901, 9/1/2011 8:24:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**4800**	**ug/L**	**400**	**EPA-8015B/TPHd**	ND	**A01**	1
Tetracosane (Surrogate)	141	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	09/08/11	09/12/11 04:41	MWB	GC-5	10	BUI0932

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUH2152						
Benzene	BUH2152-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BUH2152-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BUH2152-BLK1	ND	ug/L	0.50		
Ethylbenzene	BUH2152-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BUH2152-BLK1	ND	ug/L	0.50		
Toluene	BUH2152-BLK1	ND	ug/L	0.50		
Total Xylenes	BUH2152-BLK1	ND	ug/L	1.0		
Total Purgeable Petroleum Hydrocarbons	BUH2152-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BUH2152-BLK1	99.3	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUH2152-BLK1	98.3	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BUH2152-BLK1	93.8	%	86 - 115 (LCL - UCL)		

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUH2152										
Benzene	BUH2152-BS1	LCS	25.090	25.000	ug/L	100		70 - 130		
Toluene	BUH2152-BS1	LCS	23.090	25.000	ug/L	92.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUH2152-BS1	LCS	9.8000	10.000	ug/L	98.0		76 - 114		
Toluene-d8 (Surrogate)	BUH2152-BS1	LCS	9.8400	10.000	ug/L	98.4		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUH2152-BS1	LCS	9.5000	10.000	ug/L	95.0		86 - 115		

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUH2152	Used client sample: N										
Benzene	MS	1113931-01	ND	24.910	25.000	ug/L		99.6		70 - 130	
	MSD	1113931-01	ND	25.350	25.000	ug/L	1.8	101	20	70 - 130	
Toluene	MS	1113931-01	ND	23.140	25.000	ug/L		92.6		70 - 130	
	MSD	1113931-01	ND	23.380	25.000	ug/L	1.0	93.5	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1113931-01	ND	9.9500	10.000	ug/L		99.5		76 - 114	
	MSD	1113931-01	ND	9.6300	10.000	ug/L	3.3	96.3		76 - 114	
Toluene-d8 (Surrogate)	MS	1113931-01	ND	10.050	10.000	ug/L		100		88 - 110	
	MSD	1113931-01	ND	10.010	10.000	ug/L	0.4	100		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1113931-01	ND	9.6100	10.000	ug/L		96.1		86 - 115	
	MSD	1113931-01	ND	9.4800	10.000	ug/L	1.4	94.8		86 - 115	

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUI0932						
Diesel Range Organics (C12 - C24)	BUI0932-BLK1	ND	ug/L	40		
Tetracosane (Surrogate)	BUI0932-BLK1	140	%	28 - 139 (LCL - UCL)		S09

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUI0932										
Diesel Range Organics (C12 - C24)	BUI0932-BS1	LCS	905.21	500.00	ug/L	181		48 - 125		Q03
Tetracosane (Surrogate)	BUI0932-BS1	LCS	34.242	20.000	ug/L	171		28 - 139		Q03

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 09/22/2011 12:11
Project: 7376
Project Number: 351617
Project Manager: Kathy Brandt

Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUI0932	Used client sample: N										
Diesel Range Organics (C12 - C24)	MS	1113168-79	ND	733.67	500.00	ug/L		147		36 - 130	Q03
	MSD	1113168-79	ND	747.68	500.00	ug/L	1.9	150	30	36 - 130	Q03
Tetracosane (Surrogate)	MS	1113168-79	ND	28.527	20.000	ug/L		143		28 - 139	Q03
	MSD	1113168-79	ND	28.751	20.000	ug/L	0.8	144		28 - 139	Q03

Arcadis	**Reported:** 09/22/2011 12:11
1900 Powell Street 12th Floor	Project: 7376
Emeryville, CA 94608	Project Number: 351617
	Project Manager: Kathy Brandt

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A90	TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.
Q03	Matrix spike recovery(s) is(are) not within the control limits.
S09	The surrogate recovery on the sample for this compound was not within the control limits.

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 12/14/2011

Leah Ackerman

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Project:	7376
BC Work Order:	1119780
Invoice ID:	B113047

Enclosed are the results of analyses for samples received by the laboratory on 12/1/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

CHAIN OF CUSTODY FORM

11-19780

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

COC 1 of 1

Union Oil Site ID: 7376	Union Oil Consultant: Arcadis
Site Global ID: T0600100101	Consultant Contact: Leah Ackerman
Site Address: 4191 First Street, Pleasanton	Consultant Phone No.: 925-296-7828
	Sampling Company: TRC
Union Oil PM: Roya Kamkar	Sampled By (PRINT): Basilio
Union Oil PM Phone No.: 925 790-6270	Sampler Signature:
Charge Code: NWRTB-0 351617-0-LAB	BC Laboratories, Inc.
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

SAMPLE ID						ANALYSES REQUIRED												
Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS (C6-C12)	BTEX/MTBE/~~8260~~ by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	EDB/EDC by 8260B						Turnaround Time (TAT): Standard ☑ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐	Special Instructions / Notes / Comments
MW-4	W-S-A	-1	12-1-11	1300	5	X	X	X			X							
MW-11	W-S-A	-2		1035														
MW-12	W-S-A	-3		1112														
MW-9	W-S-A	-4		1147														
MW-6	W-S-A	-5		1230														
	W-S-A																	
	W-S-A																	
	W-S-A																	
	W-S-A																	
	W-S-A																	
	W-S-A																	
	W-S-A																	

CHK BY: BLT

DISTRIBUTION: WHITE ☑ YELLOW ☑ SUB-OUT ☐

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time:
	TRC	12/1/11 14:30	Mary Bogan	BC Labs	12-1-11 1900		BCL	12-1-11 22:25
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**
Mary Bogan	BC Labs	12-1-11 14:30		BCL	12-1-11 1960		BCL	12-1-11 2225

Chain of Custody and Cooler Receipt Form for 1119780 Page 2 of 2

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

Submission #: 11-19780

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

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

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

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

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

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: QTA Thermometer ID: 177

Temperature: A 0.2 °C / C 0.2 °C

Date/Time 12-1-11 2330

Analyst Init SNW

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A 13	A 13	A 13	A 13	A 13	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER	BC	BC	BC	BC	BC					
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: BLT Date/Time: 12-1-11@1740
A = Actual / C = Corrected

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

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1119780-01	**COC Number:**	---	**Receive Date:** 12/02/2011 22:25
	Project Number:	7376	**Sampling Date:** 12/01/2011 13:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-4-W-111201	**Lab Matrix:** Water
	Sampled By:	TRCI	**Sample Type:**
			Delivery Work Order:
			Global ID: T0600100101
			Location ID (FieldPoint): MW-4
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1119780-02	**COC Number:**	---	**Receive Date:** 12/02/2011 22:25
	Project Number:	7376	**Sampling Date:** 12/01/2011 10:35
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-11-W-111201	**Lab Matrix:** Water
	Sampled By:	TRCI	**Sample Type:**
			Delivery Work Order:
			Global ID: T0600100101
			Location ID (FieldPoint): MW-11
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1119780-03	**COC Number:**	---	**Receive Date:** 12/02/2011 22:25
	Project Number:	7376	**Sampling Date:** 12/01/2011 11:12
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-12-W-111201	**Lab Matrix:** Water
	Sampled By:	TRCI	**Sample Type:**
			Delivery Work Order:
			Global ID: T0600100101
			Location ID (FieldPoint): MW-12
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1119780-04	**COC Number:**	---	**Receive Date:**	12/02/2011 22:25
	Project Number:	7376	**Sampling Date:**	12/01/2011 11:47
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-9-W-111201	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	
			Delivery Work Order:	
			Global ID: T0600100101	
			Location ID (FieldPoint): MW-9	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1119780-05	**COC Number:**	---	**Receive Date:**	12/02/2011 22:25
	Project Number:	7376	**Sampling Date:**	12/01/2011 12:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-6-W-111201	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	
			Delivery Work Order:	
			Global ID: T0600100101	
			Location ID (FieldPoint): MW-6	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1119780-01 | **Client Sample Name:** 7376, MW-4-W-111201, 12/1/2011 1:00:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.5	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.1	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	12/09/11	12/09/11 18:45	JMC	MS-V10	1	BUL0687

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Total Petroleum Hydrocarbons

BCL Sample ID: 1119780-01 | **Client Sample Name:** 7376, MW-4-W-111201, 12/1/2011 1:00:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	132	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	12/05/11	12/13/11 19:37	VH1	GC-5	1.053	BUL0760

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1119780-02 | **Client Sample Name:** 7376, MW-11-W-111201, 12/1/2011 10:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.9	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	91.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	12/09/11	12/09/11 18:26	JMC	MS-V10	1	BUL0687

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Total Petroleum Hydrocarbons

BCL Sample ID: 1119780-02 | **Client Sample Name:** 7376, MW-11-W-111201, 12/1/2011 10:35:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	113	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	12/05/11	12/13/11 19:51	VH1	GC-5	1	BUL0760

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1119780-03 | **Client Sample Name:** 7376, MW-12-W-111201, 12/1/2011 11:12:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	96.3	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	95.4	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	12/09/11	12/09/11 18:08	JMC	MS-V10	1	BUL0687

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Total Petroleum Hydrocarbons

BCL Sample ID: 1119780-03 | **Client Sample Name:** 7376, MW-12-W-111201, 12/1/2011 11:12:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	116	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	12/05/11	12/13/11 20:05	VH1	GC-5	0.960	BUL0760

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1119780-04 | **Client Sample Name:** 7376, MW-9-W-111201, 12/1/2011 11:47:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**5.2**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.7	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	93.3	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	12/09/11	12/09/11 17:49	JMC	MS-V10	1	BUL0687

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Total Petroleum Hydrocarbons

BCL Sample ID: 1119780-04 | **Client Sample Name:** 7376, MW-9-W-111201, 12/1/2011 11:47:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	116	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	12/05/11	12/13/11 20:20	VH1	GC-5	1	BUL0760

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1119780-05 | **Client Sample Name:** 7376, MW-6-W-111201, 12/1/2011 12:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	**3.4**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**15**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.5	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	12/09/11	12/09/11 17:31	JMC	MS-V10	1	BUL0687

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Total Petroleum Hydrocarbons

BCL Sample ID: 1119780-05 | **Client Sample Name:** 7376, MW-6-W-111201, 12/1/2011 12:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	108	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	12/05/11	12/13/11 20:34	VH1	GC-5	1	BUL0760

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUL0687						
Benzene	BUL0687-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BUL0687-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BUL0687-BLK1	ND	ug/L	0.50		
Ethylbenzene	BUL0687-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BUL0687-BLK1	ND	ug/L	0.50		
Toluene	BUL0687-BLK1	ND	ug/L	0.50		
Total Xylenes	BUL0687-BLK1	ND	ug/L	1.0		
Total Purgeable Petroleum Hydrocarbons (C6-(	BUL0687-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BUL0687-BLK1	102	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUL0687-BLK1	99.8	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BUL0687-BLK1	103	%	86 - 115 (LCL - UCL)		

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUL0687										
Benzene	BUL0687-BS1	LCS	22.150	25.000	ug/L	88.6		70 - 130		
Toluene	BUL0687-BS1	LCS	23.780	25.000	ug/L	95.1		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUL0687-BS1	LCS	9.8700	10.000	ug/L	98.7		76 - 114		
Toluene-d8 (Surrogate)	BUL0687-BS1	LCS	9.8800	10.000	ug/L	98.8		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUL0687-BS1	LCS	10.090	10.000	ug/L	101		86 - 115		

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Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUL0687	Used client sample: N										
Benzene	MS	1120102-04	ND	20.580	25.000	ug/L		82.3		70 - 130	
	MSD	1120102-04	ND	26.690	25.000	ug/L	25.9	107	20	70 - 130	Q02
Toluene	MS	1120102-04	ND	22.120	25.000	ug/L		88.5		70 - 130	
	MSD	1120102-04	ND	28.750	25.000	ug/L	26.1	115	20	70 - 130	Q02
1,2-Dichloroethane-d4 (Surrogate)	MS	1120102-04	ND	9.7300	10.000	ug/L		97.3		76 - 114	
	MSD	1120102-04	ND	9.7700	10.000	ug/L	0.4	97.7		76 - 114	
Toluene-d8 (Surrogate)	MS	1120102-04	ND	9.9900	10.000	ug/L		99.9		88 - 110	
	MSD	1120102-04	ND	10.010	10.000	ug/L	0.2	100		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1120102-04	ND	9.9500	10.000	ug/L		99.5		86 - 115	
	MSD	1120102-04	ND	10.090	10.000	ug/L	1.4	101		86 - 115	

Arcadis
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Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUL0760						
Diesel Range Organics (C12 - C24)	BUL0760-BLK1	ND	ug/L	40		
Tetracosane (Surrogate)	BUL0760-BLK1	101	%	28 - 139 (LCL - UCL)		

Arcadis
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Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUL0760										
Diesel Range Organics (C12 - C24)	BUL0760-BS1	LCS	453.74	500.00	ug/L	90.7		48 - 125		
Tetracosane (Surrogate)	BUL0760-BS1	LCS	23.187	20.000	ug/L	116		28 - 139		

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2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUL0760	Used client sample: N										
Diesel Range Organics (C12 - C24)	MS	1115418-30	ND	491.03	500.00	ug/L		98.2		36 - 130	
	MSD	1115418-30	ND	495.50	500.00	ug/L	0.9	99.1	30	36 - 130	
Tetracosane (Surrogate)	MS	1115418-30	ND	24.679	20.000	ug/L		123		28 - 139	
	MSD	1115418-30	ND	25.249	20.000	ug/L	2.3	126		28 - 139	

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Walnut Creek, CA 94596

Reported: 12/14/2011 9:17
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
Q02	Matrix spike precision is not within the control limits.

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 12/14/2011

Leah Ackerman

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Project: 7376
BC Work Order: 1119797
Invoice ID: B113120

Enclosed are the results of analyses for samples received by the laboratory on 12/2/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

11-19797

CHK BY AM | DISTRIBUTION WHITE YELLOW PINK | SUB-OUT

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: 7376	Union Oil Consultant: Arcadis
Site Global ID: T0600100101	Consultant Contact: Leah Ackerman
Site Address: 4191 First Street Pleasanton	Consultant Phone No.: 925-296-7828
	Sampling Company: TRC
Union Oil PM: Roya Kambin	Sampled By (PRINT): Barla
Union Oil PM Phone No.: 925-790-6270	Sampler Signature:
Charge Code: NWRTB-0 351617 -0- LAB	BC Laboratories, Inc.
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

ANALYSES REQUIRED

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

Special Instructions: 1 number only Lack of water for MW-3B MW-13 MW-5

	SAMPLE ID																
	Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS (C6-C12)	BTEX/MTBE/~~[illegible]~~ by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	EDB/EDC by 8260B					Notes / Comments
1	MW-3B	W-S-A		12/2/11	10:50	4	X	X	X			X					
2	MW-10	W-S-A			07:57	5											
3	MW-13	W-S-A			11:50	5											
4	MW-2C	W-S-A			11:07	5											
5	MW-1B	W-S-A			11:20	4											
6	MW-8	W-S-A			12:03	5											
7	MW-7	W-S-A			10:04	5											
8	MW-5	W-S-A			12:30	4											
		W-S-A															
		W-S-A															
		W-S-A															
		W-S-A															

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time:
	TRC	12/2/11 1400	Mary Began	BC Labs	12-2-11 1515		BCL	12-2-11
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**
Mary Began	BC Labs	12-2-11 1400		BCLABS	12-2-11 1515		BCL	12-2-11 925

Chain of Custody and Cooler Receipt Form for 1119797 Page 2 of 2

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

Submission #: 11-19797

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

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

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

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: V09 Thermometer ID: 177

Temperature: A 1.5 °C / C 1.5 °C

Date/Time 12/2/11 1925

Analyst Init JDW

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

Comments:_____
Sample Numbering Completed By: _____ Date/Time: 12/5/11 0725
A = Actual / C = Corrected

[H:\DOCS\WP60\LAB_DOCS\FORMS\SAMREC2.WPD]

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 14:41
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1119797-01	**COC Number:**	---	**Receive Date:**	12/02/2011 19:25
	Project Number:	7376	**Sampling Date:**	12/02/2011 10:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3B-W-111202	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600100101	
			Location ID (FieldPoint): MW-3B	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1119797-02	**COC Number:**	---	**Receive Date:**	12/02/2011 19:25
	Project Number:	7376	**Sampling Date:**	12/02/2011 07:57
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-10-W-111202	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600100101	
			Location ID (FieldPoint): MW-10	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1119797-03	**COC Number:**	---	**Receive Date:**	12/02/2011 19:25
	Project Number:	7376	**Sampling Date:**	12/02/2011 11:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-13-W-111202	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600100101	
			Location ID (FieldPoint): MW-13	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 14:41
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1119797-04	**COC Number:**	---	**Receive Date:**	12/02/2011 19:25
	Project Number:	7376	**Sampling Date:**	12/02/2011 11:07
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2C-W-111202	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600100101	
			Location ID (FieldPoint): MW-2C	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1119797-05	**COC Number:**	---	**Receive Date:**	12/02/2011 19:25
	Project Number:	7376	**Sampling Date:**	12/02/2011 11:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-1B-W-111202	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600100101	
			Location ID (FieldPoint): MW-1B	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1119797-06	**COC Number:**	---	**Receive Date:**	12/02/2011 19:25
	Project Number:	7376	**Sampling Date:**	12/02/2011 12:03
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-8-W-111202	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600100101	
			Location ID (FieldPoint): MW-8	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 14:41
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1119797-07	**COC Number:**	---	**Receive Date:**	12/02/2011 19:25
	Project Number:	7376	**Sampling Date:**	12/02/2011 10:04
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-7-W-111202	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600100101	
			Location ID (FieldPoint): MW-7	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1119797-08	**COC Number:**	---	**Receive Date:**	12/02/2011 19:25
	Project Number:	7376	**Sampling Date:**	12/02/2011 12:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-5-W-111202	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600100101	
			Location ID (FieldPoint): MW-5	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 14:41
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1119797-01 | **Client Sample Name:** 7376, MW-3B-W-111202, 12/2/2011 10:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	**3.2**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**4.5**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.0	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.2	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	12/09/11	12/10/11 06:38	JMC	MS-V10	1	BUL0690

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 14:41
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Total Petroleum Hydrocarbons

BCL Sample ID: 1119797-01 | **Client Sample Name:** 7376, MW-3B-W-111202, 12/2/2011 10:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	119	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	12/07/11	12/14/11 01:50	VH1	GC-5	1	BUL0883

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 14:41
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1119797-02 | **Client Sample Name:** 7376, MW-10-W-111202, 12/2/2011 7:57:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**6.4**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.9	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	95.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	12/09/11	12/10/11 06:20	JMC	MS-V10	1	BUL0690

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 14:41
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Total Petroleum Hydrocarbons

BCL Sample ID: 1119797-02 | **Client Sample Name:** 7376, MW-10-W-111202, 12/2/2011 7:57:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	148	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	12/07/11	12/14/11 02:05	VH1	GC-5	1	BUL0883

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 14:41
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1119797-03 | **Client Sample Name:** 7376, MW-13-W-111202, 12/2/2011 11:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**8.4**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.5	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	12/09/11	12/10/11 06:02	JMC	MS-V10	1	BUL0690

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 14:41
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Total Petroleum Hydrocarbons

BCL Sample ID: 1119797-03 | **Client Sample Name:** 7376, MW-13-W-111202, 12/2/2011 11:50:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	144	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	12/07/11	12/14/11 02:19	VH1	GC-5	1	BUL0883

Arcadis
2033 North Main Street, Suite 340
Walnut Creek, CA 94596

Reported: 12/14/2011 14:41
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1119797-04 | **Client Sample Name:** 7376, MW-2C-W-111202, 12/2/2011 11:07:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	**1.3**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**10**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.4	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.4	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	12/09/11	12/10/11 05:43	JMC	MS-V10	1	BUL0690

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Reported: 12/14/2011 14:41
Project: 7376
Project Number: 351617
Project Manager: Leah Ackerman

Total Petroleum Hydrocarbons

BCL Sample ID: 1119797-04 | **Client Sample Name:** 7376, MW-2C-W-111202, 12/2/2011 11:07:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	122	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	12/07/11	12/14/11 02:33	VH1	GC-5	0.980	BUL0883

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1119797-05 | **Client Sample Name:** 7376, MW-1B-W-111202, 12/2/2011 11:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**140**	**ug/L**	**1.0**	**EPA-8260**	ND	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	**72**	**ug/L**	**50**	**Luft-GC/MS**	ND	**A90**	1
1,2-Dichloroethane-d4 (Surrogate)	98.2	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	113	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	93.1	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	93.8	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	99.6	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	103	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	12/09/11	12/10/11 05:25	JMC	MS-V10	1	BUL0690
2	EPA-8260	12/09/11	12/12/11 19:02	JMC	MS-V10	2	BUL0690

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Total Petroleum Hydrocarbons

BCL Sample ID: 1119797-05 | **Client Sample Name:** 7376, MW-1B-W-111202, 12/2/2011 11:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	ug/L	40	EPA-8015B/TPHd	ND		1
Tetracosane (Surrogate)	118	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	12/07/11	12/14/11 02:48	VH1	GC-5	1	BUL0883

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1119797-06 | **Client Sample Name:** 7376, MW-8-W-111202, 12/2/2011 12:03:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	**880**	**ug/L**	**6.2**	**EPA-8260**	ND	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	**390**	**ug/L**	**50**	**Luft-GC/MS**	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	114	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	98.2	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	105	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	12/09/11	12/10/11 05:07	JMC	MS-V10	1	BUL0690
2	EPA-8260	12/09/11	12/12/11 18:44	JMC	MS-V10	12.500	BUL0690

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Total Petroleum Hydrocarbons

BCL Sample ID: 1119797-06 | **Client Sample Name:** 7376, MW-8-W-111202, 12/2/2011 12:03:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**73**	**ug/L**	**40**	**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	133	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	12/07/11	12/14/11 03:31	VH1	GC-5	0.960	BUL0883

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1119797-07 | **Client Sample Name:** 7376, MW-7-W-111202, 12/2/2011 10:04:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**15**	**ug/L**	**0.50**	**EPA-8260**	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	**1.4**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Methyl t-butyl ether	**17**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons (C6-C12)	**1400**	**ug/L**	**50**	**Luft-GC/MS**	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.2	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	109	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	12/09/11	12/12/11 17:32	JMC	MS-V10	1	BUL0690

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Project: 7376
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Total Petroleum Hydrocarbons

BCL Sample ID: 1119797-07 | **Client Sample Name:** 7376, MW-7-W-111202, 12/2/2011 10:04:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**220**	**ug/L**	**40**	**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	119	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	12/07/11	12/14/11 03:45	VH1	GC-5	1	BUL0883

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Reported: 12/14/2011 14:41
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1119797-08 | **Client Sample Name:** 7376, MW-5-W-111202, 12/2/2011 12:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**1500**	**ug/L**	**10**	**EPA-8260**	ND	**A01**	1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
Ethylbenzene	**470**	**ug/L**	**10**	**EPA-8260**	ND	**A01**	1
Methyl t-butyl ether	**3100**	**ug/L**	**25**	**EPA-8260**	ND	**A01**	3
Toluene	**69**	**ug/L**	**0.50**	**EPA-8260**	ND		2
Total Xylenes	**130**	**ug/L**	**1.0**	**EPA-8260**	ND		2
Total Purgeable Petroleum Hydrocarbons (C6-C12)	**10000**	**ug/L**	**1000**	**Luft-GC/MS**	ND	**A01**	1
1,2-Dichloroethane-d4 (Surrogate)	110	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			2
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)	EPA-8260			3
Toluene-d8 (Surrogate)	95.3	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)	EPA-8260			3
4-Bromofluorobenzene (Surrogate)	99.8	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.6	%	86 - 115 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	12/13/11	12/14/11 03:33	JMC	MS-V12	20	BUL0874
2	EPA-8260	12/09/11	12/10/11 04:30	JMC	MS-V10	1	BUL0690
3	EPA-8260	12/13/11	12/14/11 09:47	JMC	MS-V12	50	BUL0874

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Total Petroleum Hydrocarbons

BCL Sample ID: 1119797-08 | **Client Sample Name:** 7376, MW-5-W-111202, 12/2/2011 12:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	**5900**	**ug/L**	**400**	**EPA-8015B/TPHd**	ND	**A52**	1
Tetracosane (Surrogate)	174	%	28 - 139 (LCL - UCL)	EPA-8015B/TPHd		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B/TPHd	12/07/11	12/14/11 04:14	VH1	GC-5	9.800	BUL0883

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Project: 7376
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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUL0690						
Benzene	BUL0690-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BUL0690-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BUL0690-BLK1	ND	ug/L	0.50		
Ethylbenzene	BUL0690-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BUL0690-BLK1	ND	ug/L	0.50		
Toluene	BUL0690-BLK1	ND	ug/L	0.50		
Total Xylenes	BUL0690-BLK1	ND	ug/L	1.0		
Total Purgeable Petroleum Hydrocarbons (C6-(	BUL0690-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BUL0690-BLK1	96.5	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUL0690-BLK1	97.2	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BUL0690-BLK1	104	%	86 - 115 (LCL - UCL)		
QC Batch ID: BUL0874						
Benzene	BUL0874-BLK1	ND	ug/L	0.50		
Ethylbenzene	BUL0874-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BUL0874-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons (C6-(	BUL0874-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BUL0874-BLK1	105	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUL0874-BLK1	101	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BUL0874-BLK1	98.7	%	86 - 115 (LCL - UCL)		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUL0690										
Benzene	BUL0690-BS1	LCS	23.190	25.000	ug/L	92.8		70 - 130		
Toluene	BUL0690-BS1	LCS	24.890	25.000	ug/L	99.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUL0690-BS1	LCS	9.5900	10.000	ug/L	95.9		76 - 114		
Toluene-d8 (Surrogate)	BUL0690-BS1	LCS	10.000	10.000	ug/L	100		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUL0690-BS1	LCS	10.220	10.000	ug/L	102		86 - 115		
QC Batch ID: BUL0874										
Benzene	BUL0874-BS1	LCS	20.550	25.000	ug/L	82.2		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUL0874-BS1	LCS	10.140	10.000	ug/L	101		76 - 114		
Toluene-d8 (Surrogate)	BUL0874-BS1	LCS	10.130	10.000	ug/L	101		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUL0874-BS1	LCS	9.9900	10.000	ug/L	99.9		86 - 115		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUL0690	Used client sample: N										
Benzene	MS	1120102-01	ND	22.990	25.000	ug/L		92.0		70 - 130	
	MSD	1120102-01	ND	23.610	25.000	ug/L	2.7	94.4	20	70 - 130	
Toluene	MS	1120102-01	ND	24.520	25.000	ug/L		98.1		70 - 130	
	MSD	1120102-01	ND	25.300	25.000	ug/L	3.1	101	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1120102-01	ND	9.8300	10.000	ug/L		98.3		76 - 114	
	MSD	1120102-01	ND	9.5200	10.000	ug/L	3.2	95.2		76 - 114	
Toluene-d8 (Surrogate)	MS	1120102-01	ND	9.9400	10.000	ug/L		99.4		88 - 110	
	MSD	1120102-01	ND	9.9500	10.000	ug/L	0.1	99.5		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1120102-01	ND	10.200	10.000	ug/L		102		86 - 115	
	MSD	1120102-01	ND	10.180	10.000	ug/L	0.2	102		86 - 115	
QC Batch ID: BUL0874	Used client sample: N										
Benzene	MS	1119798-30	ND	19.380	25.000	ug/L		77.5		70 - 130	
	MSD	1119798-30	ND	20.370	25.000	ug/L	5.0	81.5	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1119798-30	ND	9.9800	10.000	ug/L		99.8		76 - 114	
	MSD	1119798-30	ND	10.170	10.000	ug/L	1.9	102		76 - 114	
Toluene-d8 (Surrogate)	MS	1119798-30	ND	10.170	10.000	ug/L		102		88 - 110	
	MSD	1119798-30	ND	10.160	10.000	ug/L	0.1	102		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1119798-30	ND	9.8000	10.000	ug/L		98.0		86 - 115	
	MSD	1119798-30	ND	9.8000	10.000	ug/L	0	98.0		86 - 115	

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Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUL0883						
Diesel Range Organics (C12 - C24)	BUL0883-BLK1	ND	ug/L	40		
Tetracosane (Surrogate)	BUL0883-BLK1	125	%	28 - 139 (LCL - UCL)		

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Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUL0883										
Diesel Range Organics (C12 - C24)	BUL0883-BS1	LCS	463.55	500.00	ug/L	92.7		48 - 125		
Tetracosane (Surrogate)	BUL0883-BS1	LCS	27.549	20.000	ug/L	138		28 - 139		

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Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUL0883	Used client sample: N										
Diesel Range Organics (C12 - C24)	MS	1115418-97	ND	454.19	500.00	ug/L		90.8		36 - 130	
	MSD	1115418-97	ND	426.96	500.00	ug/L	6.2	85.4	30	36 - 130	
Tetracosane (Surrogate)	MS	1115418-97	ND	27.446	20.000	ug/L		137		28 - 139	
	MSD	1115418-97	ND	26.028	20.000	ug/L	5.3	130		28 - 139	

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Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A52	Chromatogram not typical of diesel.
A90	TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.
S09	The surrogate recovery on the sample for this compound was not within the control limits.