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

April 6, 2012

Mr. Jerry Wickham
Senior Hazardous Materials Specials
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

RE: First Quarter 2012 Semi-Annual Groundwater Monitoring Report
800, 726, and 706 Harrison Street, Oakland, California
Fuel Leak Case No.: RO000231. RO0000321, RO0000484

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
First Quarter 2012 Semi-Annual Groundwater Monitoring 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

ENVIRONMENT

Mr. Jerry Wickham
Senior Hazardous Materials Specialist
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Subject:
First Quarter 2012 Semi-Annually Groundwater Monitoring Report Submittal

Date:
April 6, 2012

Contact:
Katherine Brandt

Phone:
510.596.9675

Email:
Katherine.Brandt@arcadis-us.com

Our ref:
B0047339.2012

Dear Mr. Wickham:

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

Facility No.	**Case No.**	**Location**
0752/YEE/GIN Comingled Plume	RO0000231	706/726/800 Harrison St Oakland, California

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

Sincerely,

ARCADIS

Katherine Brandt
Certified Project Manager

Micheal Fleischner
Principal Engineer

Copies:
Ms. Cherie McCaulou, CRWQCB – San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, California 94612 (CD)
Ms. Roya Kambin, Union Oil of California (electronic copy only)

Mr. Muhammad Usman and Mr. Mahmood M. Ali, Property Owners - 800 Harrison Street, Oakland, California

Mr. Peter Yee and Mr. Kin Chan, 726 Harrison Street Property Owners

Mr. Bo Gin, 726 Harrison Street Property Owner – 342 Lester Avenue, Oakland, California 94606

UNION OIL OF CALIFORNIA
SEMI-ANNUALLY MONITORING REPORT
FIRST QUARTER 2012
April 6, 2012

Facility No.: 0752/Yee/Gin Comingled Plume Address: 706/726/800 Harrison Street, Oakland, California

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

Primary Agency/Contact Person/Regulatory ID No.: Alameda County Environmental Health (ACEH) / Mr. Jerry Wickham / Case No. RO0000231

WORK PERFORMED DURING THIS REPORTING PERIOD (First Quarter – 2012) :

1. TRC Solutions (TRC) and AquaScience Engineers conducted groundwater monitoring and sampling on February 7, 2012. Field data sheets and general procedures are included as **Attachment A**. Eight (8) groundwater monitoring wells associated with the former Unocal station no. 0752, seven (7) groundwater monitoring wells associated with 706 Harrison Street (YEE), and six (6) groundwater monitoring wells associated with 726 Harrison Street (GIN) were gauged and sampled during this monitoring event.

   Groundwater samples were analyzed for total purgeable petroleum hydrocarbons (TPPH) by Environmental Protection Agency (EPA) Method 8015B-GC/MS; benzene, toluene, ethylbenzene, and total xylenes (BTEX, collectively), methyl tert-butyl ether (MTBE), 1,2-dibromoethane (EDB), and 1,2-dichloroethane (EDC) by EPA Method 8260B. The groundwater samples collected from MW-1 (800 Harrison Street) were sampled for additional analytes that include the full volatile organic compound (VOC) suite and dissolved metals (cadmium, chromium, lead, nickel, and zinc).

   The site location map, the site plan, and the groundwater contour map are presented on **Figures 1** through **3**. Concentration maps for TPPH, benzene, and MTBE are on **Figures 4** through **6**. Current Groundwater Gauging and Analytical Results are summarized in **Table 1**, Additional Groundwater Analytical Results are summarized in **Tables 2** and **3**, and Historical Groundwater Results from TRC are included as **Attachment B**. A copy of the laboratory analytical report and chain-of-custody documentation is included as **Attachment C.**

WORK PROPOSED FOR THE NEXT REPORTING PERIOD (Third Quarter – 2012):

1. Perform groundwater monitoring and related reporting during third quarter 2012.

Current Phase of Project:	Groundwater Monitoring
Site Use:	Active 76 branded service station/parking lots(YEE/GIN)
Frequency of Sampling:	Groundwater – Semi-Annually
Frequency of Monitoring:	Groundwater – Semi-Annually
Are Separate-Phase Hydrocarbons (SPH) Present On-Site:	No
Cumulative SPH Recovered to Date:	None
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:	San Francisco Bay (approximately 300 ft west)
Groundwater Use Designation:	Potential Drinking Water Source
Current Remediation Techniques:	None at this time
Permits for Discharge (No.):	None
Approximate Depth to Groundwater:	18.02 (MW-6) – 20.00 (MW-1) feet below top of casing

UNION OIL OF CALIFORNIA
SEMI-ANNUALLY MONITORING REPORT
FIRST QUARTER 2012
April 6, 2012

Facility No.: 0752/Yee/Gin Comingled Plume Address: 706/726/800 Harrison Street, Oakland, California

		Measured X	Estimated	
Groundwater Gradient:	0.007 ft/ft	(Magnitude)	Southwest	(Direction)

DISCUSSION:

Groundwater conditions during the first quarter 2012 remained generally consistent with previous quarters.

706 Harrison Street:

The maximum dissolved concentrations of TPPH (36,000 micrograms per liter [µg/L]) and MTBE (1,600 µg/L) were detected in the samples collected from MW-2. The maximum dissolved concentrations of benzene (1,100 µg/L), toluene (3,600 µg/L), ethylbenzene (990 µg/L), and total xylenes (4,200 µg/L) were also detected in the samples collected from MW-2. EDB and EDC were not detected above the laboratory reporting limits for all wells sampled.

726 Harrison Street:

The maximum dissolved concentrations of TPPH (19,000 µg/L) and MTBE (17,000 µg/L) were detected in the samples collected from MW-5. The maximum dissolved concentrations of benzene (890 µg/L), toluene (410 µg/L), ethylbenzene (360 µg/L), and total xylenes (990 µg/L) were also detected in the samples collected from MW-5. EDB and EDC were not detected above the laboratory reporting limits for all wells sampled with the exception MW-6, EDC was detected at 0.79 µg/L.

800 Harrison Street:

The maximum dissolved concentrations of TPPH (1,800 µg/L) and MTBE (1,600 µg/L) were detected in the samples collected from MW-3. The maximum dissolved concentrations of benzene (58 µg/L), toluene (11 µg/L), ethylbenzene (3.0 µg/L), and total xylenes (25 µg/L) were detected in the samples collected from MW-5. EDB and EDC were not detected above the laboratory reporting limits for all wells sampled. No additional VOCs or dissolved metals were detected this sampling event.

Groundwater elevations at the site vary by approximately three feet, creating a relatively gentle hydraulic gradient of 0.007 foot per foot in the southwest direction.

CONCLUSIONS AND RECOMMENDATIONS:

Dissolved constituents of concern concentrations have remained relatively consistent with previous quarters. ARCADIS recommends continued groundwater monitoring. ARCADIS completed the additional site assessment addendum field work on March 28, 2012. The associated report will be submitted to ACEH by the approved due date of May 11, 2012.

ATTACHMENTS:

Figure 1: Site Location Map
Figure 2: Site Plan
Figure 3: Groundwater Contour Map
Figure 4: TPPH Concentration Map
Figure 5: Benzene Concentration Map
Figure 6: MTBE Concentration Map

Table 1: Current Groundwater Gauging and Analytical Results
Table 2: Additional Groundwater Analytical Results - VOCs
Table 3: Additional Groundwater Analytical Results - Metals

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., OAKLAND WEST, CALIFORNIA, 1993.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.

UNION OIL OF CALIFORNIA
STATION NO. 0752/YEE/GIN COMMINGLED
706/726/800 HARRISON STREET
OAKLAND, CALIFORNIA

SITE LOCATION MAP

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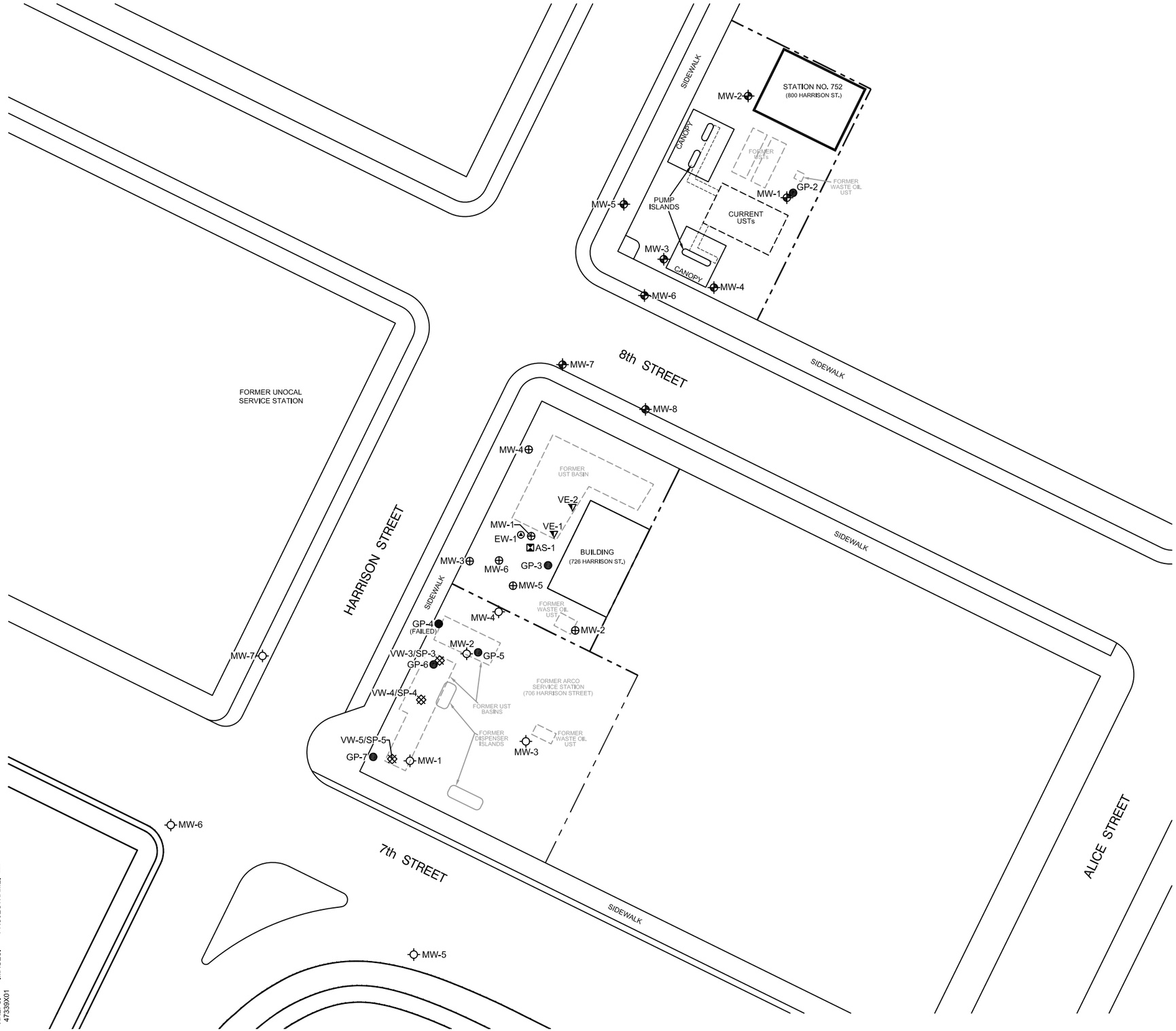
FIGURE 1



LEGEND

- PROPERTY BOUNDARY
- PRODUCT PIPING
- MW-1 GROUNDWATER MONITORING WELL (UNOCAL)
- MW-1 GROUNDWATER MONITORING WELL (GIN)
- VW-3/SP-3 SOIL VAPOR/SPARGE WELL (UNABLE TO LOCATE) (GIN)
- MW-1 GROUNDWATER MONITORING WELL (YEE)
- AS-1 AIR SPARGE WELL (YEE)
- EW-1 EXTRACTION WELL (YEE)
- VE-1 DESTROYED WELL (YEE)
- GP-2 GEOPROBE™ (JUNE 2011)

NOTE:

1. BASE MAP PROVIDED BY MID COAST ENGINEERS, DATED 06/29/11, AT A SCALE OF 1"=50'. ADDITIONAL SITE FEATURES PROVIDED BY STANTEC, INC., DATED 03/05/10, AT A SCALE OF 1"=50'.
2. COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.

0 50' 100'

GRAPHIC SCALE

UNION OIL OF CALIFORNIA
STATION NO. 0752/YEE/GIN COMMINGLED
706/726/800 HARRISON STREET
OAKLAND, CALIFORNIA

SITE PLAN

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FIGURE 2

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS
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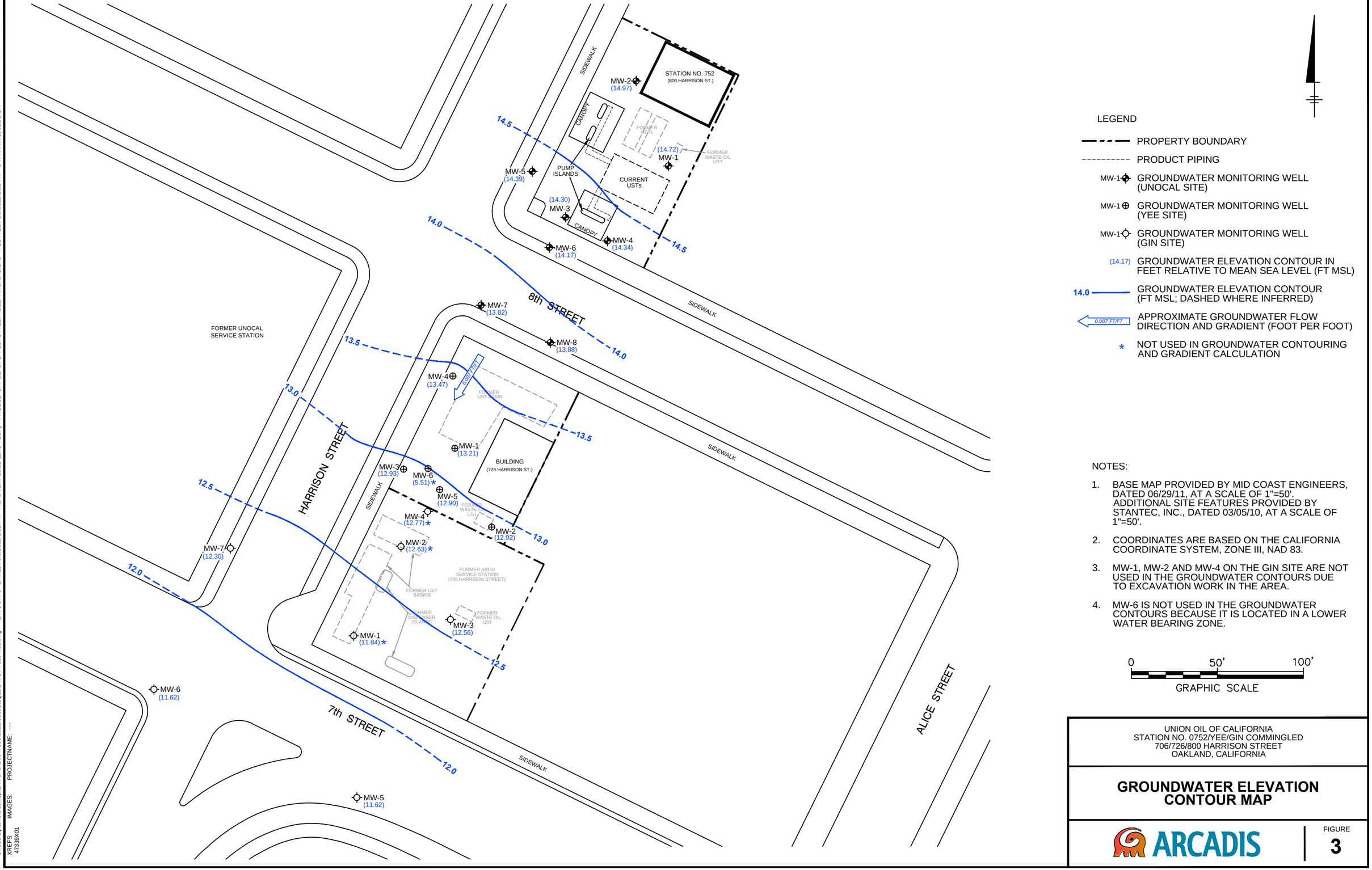

LEGEND

- PROPERTY BOUNDARY
- PRODUCT PIPING
- MW-1 ⊕ GROUNDWATER MONITORING WELL (UNOCAL SITE)
- MW-1 ⊕ GROUNDWATER MONITORING WELL (YEE SITE)
- MW-1 ○ GROUNDWATER MONITORING WELL (GIN SITE)
- (14.17) GROUNDWATER ELEVATION CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL (FT MSL)
- 14.0 GROUNDWATER ELEVATION CONTOUR (FT MSL; DASHED WHERE INFERRED)
- 0.007 FT/FT APPROXIMATE GROUNDWATER FLOW DIRECTION AND GRADIENT (FOOT PER FOOT)
- * NOT USED IN GROUNDWATER CONTOURING AND GRADIENT CALCULATION

NOTES:

1. BASE MAP PROVIDED BY MID COAST ENGINEERS, DATED 06/29/11, AT A SCALE OF 1"=50'. ADDITIONAL SITE FEATURES PROVIDED BY STANTEC, INC., DATED 03/05/10, AT A SCALE OF 1"=50'.
2. COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.
3. MW-1, MW-2 AND MW-4 ON THE GIN SITE ARE NOT USED IN THE GROUNDWATER CONTOURS DUE TO EXCAVATION WORK IN THE AREA.
4. MW-6 IS NOT USED IN THE GROUNDWATER CONTOURS BECAUSE IT IS LOCATED IN A LOWER WATER BEARING ZONE.

0 50' 100'

GRAPHIC SCALE

UNION OIL OF CALIFORNIA
STATION NO. 0752/YEE/GIN COMMINGLED
706/726/800 HARRISON STREET
OAKLAND, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR MAP

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FIGURE 3

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS
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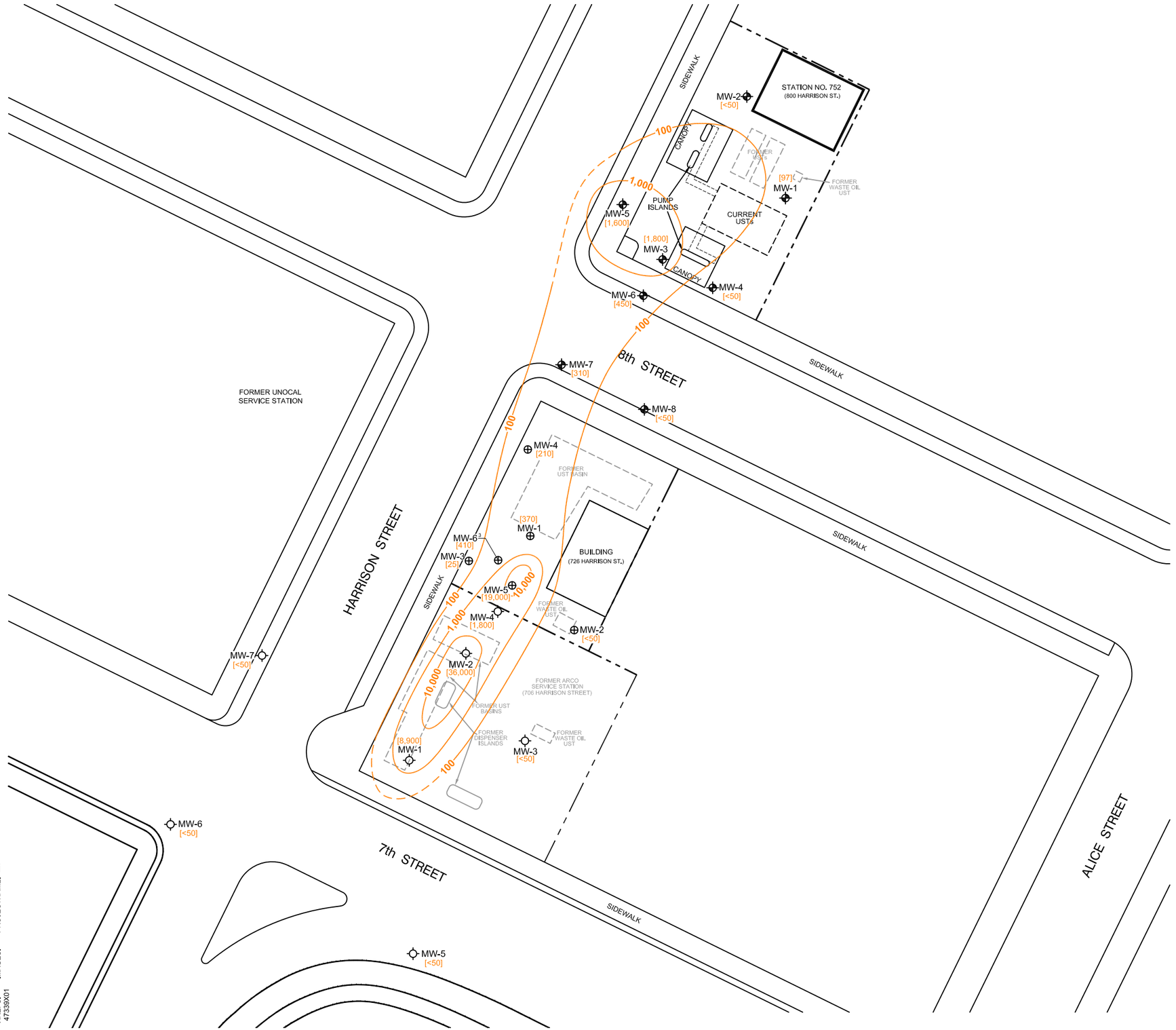

LEGEND

- PROPERTY BOUNDARY
- PRODUCT PIPING
- MW-1 GROUNDWATER MONITORING WELL (UNOCAL SITE)
- MW-1 GROUNDWATER MONITORING WELL (YEE SITE)
- MW-1 GROUNDWATER MONITORING WELL (GIN SITE)
- [TPPH] TOTAL PURGEABLE PETROLEUM HYDROCARBONS CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 100 TPPH ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT

NOTES:

1. BASE MAP PROVIDED BY MID COAST ENGINEERS, DATED 06/29/11, AT A SCALE OF 1"=50'. ADDITIONAL SITE FEATURES PROVIDED BY STANTEC, INC., DATED 03/05/10, AT A SCALE OF 1"=50'.
2. COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.
3. MW-6 IS NOT USED IN CONTOURING BECAUSE IT IS LOCATED IN A LOWER WATER BEARING ZONE.

0 50' 100'
GRAPHIC SCALE

UNION OIL OF CALIFORNIA
STATION NO. 0752/YEE/GIN COMMINGLED
706/726/800 HARRISON STREET
OAKLAND, CALIFORNIA

TPPH ISOCONCENTRATION CONTOUR MAP

ARCADIS

FIGURE 4

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS
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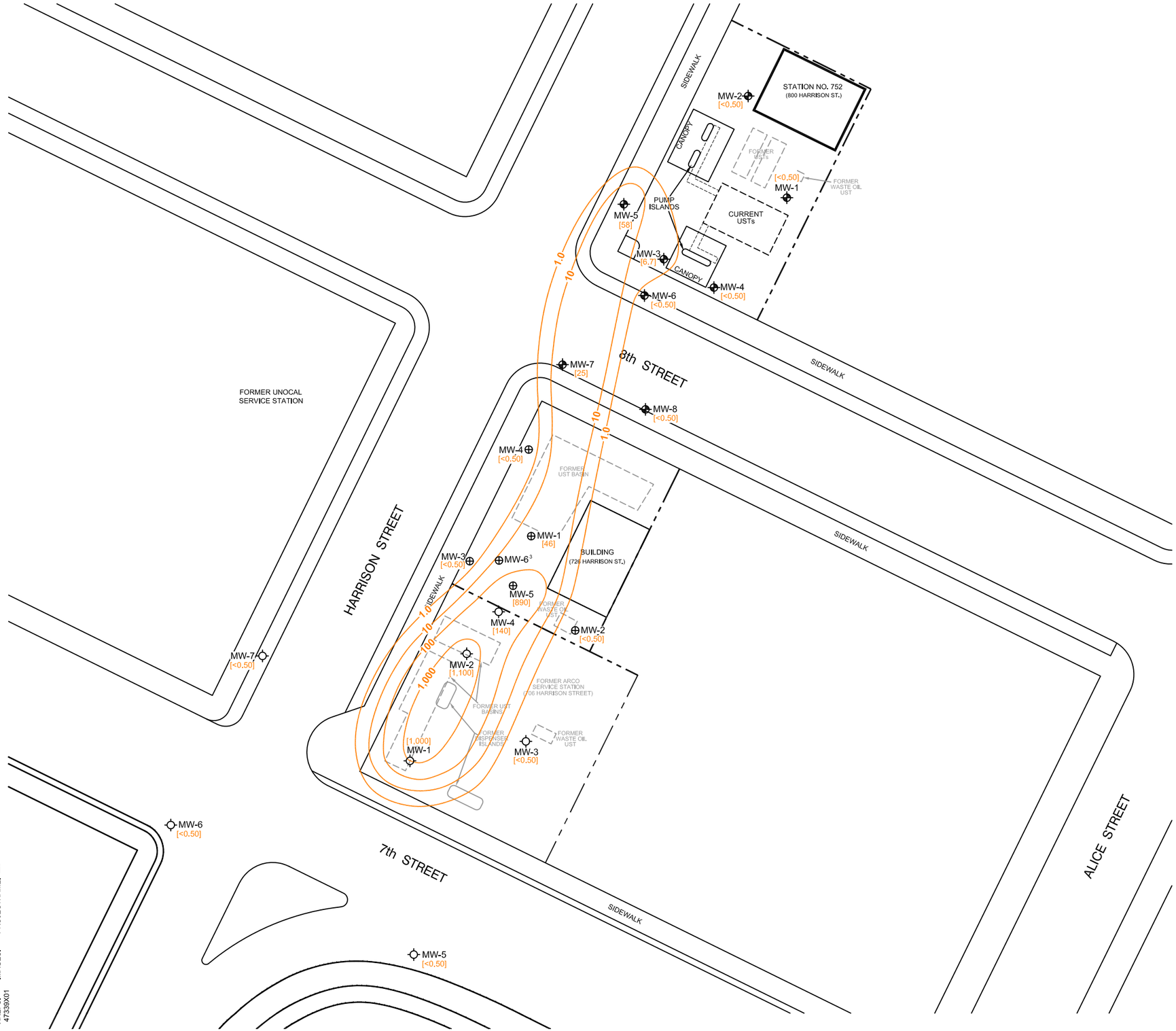

LEGEND

- PROPERTY BOUNDARY
- PRODUCT PIPING
- MW-1 ⊕ GROUNDWATER MONITORING WELL (UNOCAL SITE)
- MW-1 ⊕ GROUNDWATER MONITORING WELL (YEE SITE)
- MW-1 ○ GROUNDWATER MONITORING WELL (GIN SITE)
- [BENZ] BENZENE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 100 BENZENE ISOCONCENTRATION CONTOUR (µg/L; DASHED WHERE INFERRED)
- < DENOTES LESS THAN LABORATORY REPORTING LIMIT

NOTES:

1. BASE MAP PROVIDED BY MID COAST ENGINEERS, DATED 06/29/11, AT A SCALE OF 1"=50'. ADDITIONAL SITE FEATURES PROVIDED BY STANTEC, INC., DATED 03/05/10, AT A SCALE OF 1"=50'.
2. COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.
3. MW-6 IS NOT USED IN CONTOURING BECAUSE IT IS LOCATED IN A LOWER WATER BEARING ZONE.

0 50' 100'

GRAPHIC SCALE

UNION OIL OF CALIFORNIA
STATION NO. 0752/YEE/GIN COMMINGLED
706/726/800 HARRISON STREET
OAKLAND, CALIFORNIA

BENZENE ISOCONCENTRATION CONTOUR MAP

ARCADIS

FIGURE 5

CITY: PETALUMA, CA DIV/GROUP: ENV DB: J. HARRIS
C:\Users\jharris\Desktop\ENVCAD\B0047339\2012\000021\Q12\DWG\47339C02.dwg LAYOUT: 5 SAVED: 3/9/2012 2:26 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: SETUP! PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 3/9/2012 2:26 PM BY: HARRIS, JESSICA
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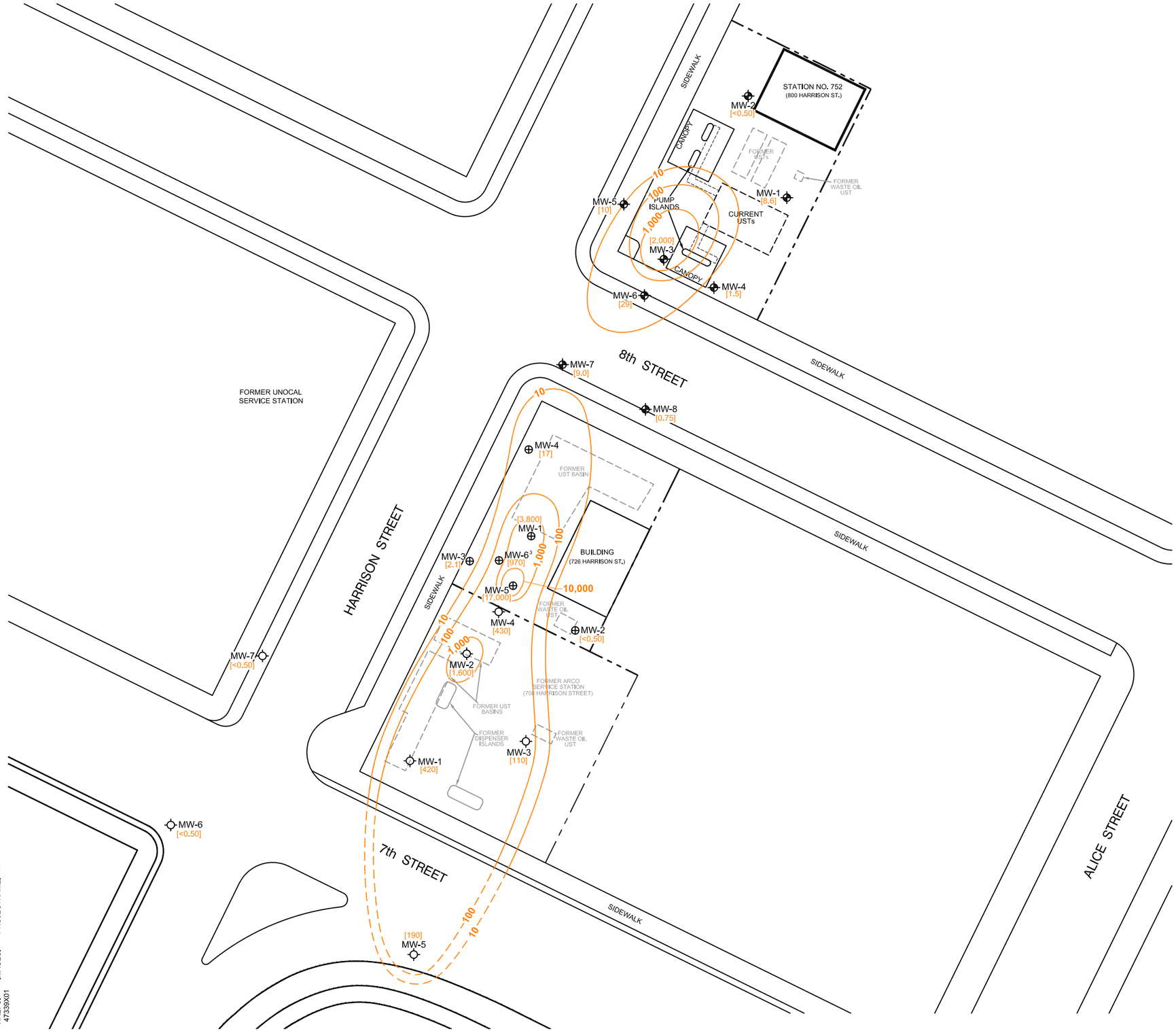
47339X01



LEGEND

- PROPERTY BOUNDARY
- PRODUCT PIPING
- MW-1 ⊕ GROUNDWATER MONITORING WELL (UNOCAL SITE)
- MW-1 ⊕ GROUNDWATER MONITORING WELL (YEE SITE)
- MW-1 ○ GROUNDWATER MONITORING WELL (GIN SITE)
- [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

NOTES:

1. BASE MAP PROVIDED BY MID COAST ENGINEERS, DATED 06/29/11, AT A SCALE OF 1"=50'. ADDITIONAL SITE FEATURES PROVIDED BY STANTEC, INC., DATED 03/05/10, AT A SCALE OF 1"=50'.
2. COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.
3. MW-6 IS NOT USED IN CONTOURING BECAUSE IT IS LOCATED IN A LOWER WATER BEARING ZONE.

0 50' 100'
GRAPHIC SCALE

UNION OIL OF CALIFORNIA
STATION NO. 0752/YEE/GIN COMMINGLED
706/726/800 HARRISON STREET
OAKLAND, CALIFORNIA

MTBE CONCENTRATION MAP

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FIGURE
6

Tables

Table 1
Current Groundwater Gauging and Analytical Results
76 Station 0752/YEE/GIN Commingled Plume
706/726/800 Harrison Street Oakland, California

Well ID	Date Sampled	TOC Elevation (feet AMSL)	DTW (feet bgs)	LPH Thickness (feet)	GW Elevation (feet	TPPH (8015B-GC/MC)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	EDB	EDC	Comments
800 Harrison Street														
MW-1	2/7/2012	34.72	20.00	0.00	14.72	97	<0.50	<0.50	<0.50	<1.0	8.6	<0.50	<0.50	
MW-2	2/7/2012	34.74	19.77	0.00	14.97	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	
MW-3	2/7/2012	33.18	18.88	0.00	14.30	1,800	6.7	<1.0	1.9	<2.0	1,600	<0.50	<0.50	A01
MW-4	2/7/2012	32.72	18.38	0.00	14.34	<50	<0.50	<0.50	<0.50	<1.0	1.5	<0.50	<0.50	
MW-5	2/7/2012	32.98	18.59	0.00	14.39	1,600	58	11	3.0	25	10	<0.50	<0.50	A01
MW-6	2/7/2012	32.19	18.02	0.00	14.17	450	<0.50	<0.50	<0.50	<1.0	29	<0.50	<0.50	
MW-7	2/7/2012	32.22	18.40	0.00	13.82	310	25	2	<0.50	3.2	9.0	<0.50	<0.50	
MW-8	2/7/2012	32.03	18.15	0.00	13.88	<50	<0.50	<0.50	<0.50	<1.0	0.75	<0.50	<0.50	
706 Harrison Street														
MW-1	2/7/2012	29.17	17.33	0.00	11.84	8,900	1,000	260	230	610	420	<0.50	<0.50	A01
MW-2	2/7/2012	30.53	17.90	0.00	12.63	36,000	1,100	3,600	990	4,200	1,600	<5.0	<5.0	A01
MW-3	2/7/2012	29.79	17.23	0.00	12.56	<50	<0.50	<0.50	<0.50	<1.0	110	<0.50	<0.50	A01
MW-4	2/7/2012	31.20	18.43	0.00	12.77	1,800	140	15	21	32	430	<0.50	<0.50	A01
MW-5	2/7/2012	28.07	16.45	0.00	11.62	<50	<0.50	<0.50	<0.50	1.6	190	<0.50	<0.50	A01
MW-6	2/7/2012	29.13	17.51	0.00	11.62	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	
MW-7	2/7/2012	29.70	17.40	0.00	12.30	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	
726 Harrison Street														
MW-1	2/7/2012	31.98	18.77	0.00	13.21	370	46	1.7	4.2	4.5	3,800	<0.50	<0.50	A01
MW-2	2/7/2012	32.44	19.52	0.00	12.92	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	
MW-3	2/7/2012	31.64	18.71	0.00	12.93	25	<0.50	<0.50	<0.50	<1.0	2.1	<0.50	<0.50	J
MW-4	2/7/2012	32.56	19.09	0.00	13.47	210	<0.50	<0.50	<0.50	<1.0	17	<0.50	<0.50	
MW-5	2/7/2012	32.06	19.16	0.00	12.90	19,000	890	410	360	990	17,000	<6.2	<6.2	A01
MW-6	2/7/2012	32.04	26.53	0.00	5.51	410	<0.50	<0.50	<0.50	<1.0	970	<0.50	0.79	A01

Note

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

Standard Abbreviations

--	not analyzed, measured, or collected
<	not detected at or above laboratory detection limit
TOC	top of casing (surveyed reference elevation)
AMSL	above mean sealevel
DTW	depth to water
bgs	below ground surface
LPH	liquid-phase hydrocarbons
GW	groundwater
µg/l	micrograms per liter (approx. equivalent to parts per billion, ppb)

Analytes

TPPH	total purgeable petroleum hydrocarbons
MTBE	methyl tertiary butyl ether
EDB	1,2-dibromoethane
EDC	1,2-dichloroethane (same as ethylene dichloride)
8260B	EPA Method 8260B for Volatile Organic Compounds
GC/MS	gas chromatography–mass spectrometry for TPPH
A01	PQL's and MDL's are raised due to sample dilution.

Table 2
Additional Groundwater Analytical Results - VOCs
76 Station 0752
800 Harrison Street Oakland, California

Well ID	Date Sampled	Acenaphthene	Acenaphthylene	Aldrin	Aniline (Benzeneamine)	Anthracene	Benzidine	Benzo (a) anthracene	Benzo (b) Fluoranthene	Benzo (k) Fluoranthene	Benzo(a) Pyrene	Benzo (g,h,i) Perylene	Benzoic Acid	Benzyl Alcohol	Alpha-BHC	Beta-BHC	Delta-BHC	Gamma-BHC (Lindane)	bis (2-Chloroethoxy) methane	bis (2-Chloroethyl) ether	bis (2-Ethylhexyl) phthalate	4-Bromophenyl phenylether	4-Chloroaniline	2-Chloro naphthalene	4-Chlorophenyl phenyl ether	Chrysene	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dibenz (a,h) anthracene
800 Harrison Street																														
MW-1	2/7/2012	<2.0	<2.0	<2.0	<5.0	<2.0	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<3.0	<2.0	<3.0
MW-2	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Note

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

Standard Abbreviations

-- not analyzed, measured, or collected
< not detected at or above laboratory detection limit

Analytes

BHC
DDD
DDE
DDT

Table 2
Additional Groundwater Analytical Results - VOCs
76 Station 0752
800 Harrison Street Oakland, California

Well ID	Date Sampled	Dibenzofuran	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dieldrin	Diethylphthalate	Dimethylphthalate	Di-n-butylphthalate	2,4-Dinitrotoluene	2,6-Dinitrotoluene	Di-n-octylphthalate	1,2-Diphenylhydrazine	Endosulfan I (alpha-Endosulfa	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Fluoranthene	Fluorene	Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Hexachlorobutadiene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	2-Methylnaphthlalene	Naphthalene
800 Harrison Street																														
MW-1	2/7/2012	<2.0	<2.0	<2.0	<2.0	<3.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<10	<10	<3.0	<2.0	<10	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-2	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Note

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

Standard Abbreviations

-- not analyzed, measured, or collected
< not detected at or above laboratory detection limit

Analytes

BHC
DDD
DDE
DDT

Table 2
Additional Groundwater Analytical Results - VOCs
76 Station 0752
800 Harrison Street Oakland, California

Well ID	Date Sampled	2-Naphthaleneamine (2-Naphthylamine)	2-Nitroaniline (o-	3-Nitroaniline	4-Nitroaniline	Nitrobenzene	N-Nitrosodimethylami	N-Nitrosodi-n-	N-Nitrosodiphenylamin	Phenanthrene	Pyrene	1,2,4-Trichlorobenzene	p-Chloro-m-cresol	2-Chlorophenol (o-Chlorophenol)	2,4-Dichlorophenol	2,4-Dimethylphenol	4,6-Dinitro-2-methylphenol (4,6-Dinitro-o-cresol)	2,4-Dinitrophenol	2-Methylphenol (o-Cresol)	3-Methylphenol/4-Methylphenol	2-Nitrophenol (o-Nitrophenol)	4-Nitrophenol	Pentachlorophenol	Phenol
800 Harrison Street																								
MW-1	2/7/2012	<20	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0	<2.0	<10	<10	<2.0	<2.0	<2.0	<2.0	<10	<2.0
MW-2	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-5	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-7	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	2/7/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Note

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

Standard Abbreviations

--	not analyzed, measured, or collected
<	not detected at or above laboratory detection limit

Analytes

BHC
DDD
DDE
DDT

Table 3
Additional Groundwater Analytical Results - Metals
76 Station 0752
800 Harrison Street Oakland, California

Well ID	Date Sampled	Dissolved Cadmium	Dissolved Chromium	Dissolved Lead	Dissolved Nickel	Dissolved Zinc	Comments
800 Harrison Street							
MW-1	2/7/2012	<10	<10	<50	<10	<10	
MW-2	2/7/2012	--	--	--	--	--	
MW-3	2/7/2012	--	--	--	--	--	
MW-4	2/7/2012	--	--	--	--	--	
MW-5	2/7/2012	--	--	--	--	--	
MW-6	2/7/2012	--	--	--	--	--	
MW-7	2/7/2012	--	--	--	--	--	
MW-8	2/7/2012	--	--	--	--	--	

Note

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

Standard Abbreviations

µg/l micrograms per liter (approx. equivalent to parts per billion, ppb)

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: February 17, 2012

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

SITE: Unocal Site 0752
Facility 351646
800 Harrison Street, Oakland 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 February 7, 2012. 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 Parfan
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: R. RODRIGUEZ Job #/Task #: 189791.0035.1646 Date: 2/07/12

Site # 0752 Project Manager A. FARFAN 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-8	✓	0608	28.37	18.15	—	—	0745	2"
MW-4	✓	0614	32.28	18.38	—	—	0820	2"
MW-1	✓	0620	33.53	20.00	—	—	0845	2"
MW-6	✓	0628	30.88	18.02	—	—	0915	2"
MW-2	✓	0634	30.74	19.77	—	—	1000	2"
MW-3	✓	0640	30.50	18.88	—	—	1020	2"
MW-7	✓	0646	31.40	18.40	—	—	1053	2"
MW-5	✓	0653	31.65	18.59	—	—	1037	2"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

FIELD MONITORING DATA SHEET

Technician: Rgarlis Job #/Task #: 189791.0035.1646 Date: 2-7-12

Site # 0752 Project Manager AF Page 2 of 2

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
SP-1	—	—	—	—	—	—	N/S	unable to locate
SP-3	—	—	—	—	—	—	N/S	↓
SP-5	—	—	—	—	—	—	N/S	↓
AMW-6	✓	0549	25.90	17.51	—	—	0756	2"
A-MW7	✓	0557	27.74	17.40	—	—	0820	2"
A-MW-5	✓	1128	27.80	16.45	—	—	1145	2"
A-MW-3	✓	0615	27.50	17.23	—	—	0847	2"
A-MW-4	✓	0626	25.58	18.43	—	—	0914	2"
A MW-1	✓	0635	24.38	17.33	—	—	1006	2"
A MW-2	✓	0640	24.84	17.90	—	—	0934	2"

FIELD DATA COMPLETE QA/QC COC WELL BOX CONDITION SHEETS

MANIFEST DRUM INVENTORY TRAFFIC CONTROL

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: R. Rodriguez

Site: 0752 Project No.: 189791.0035.1646 Date: 2/07/12

Well No. MW-8 Purge Method: Sub

Depth to Water (feet): 18.15 Depth to Product (feet): —

Total Depth (feet) 28.37 LPH & Water Recovered (gallons): —

Water Column (feet): 10.22 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 20.19 1 Well Volume (gallons): 2

Pump Depth

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									
0733		23ft	2	465.5	16.5	6.67			
		↓	4	365.6	18.3	6.68			
	0738	↓	6	338.4	19.2	6.66			
	↓		8	326.3	19.4	6.67			

Static at Time Sampled	Total Gallons Purged	Sample Time
18.39	8	0745

Comments:

Well No. MW-4 Purge Method: Sub

Depth to Water (feet): 18.38 Depth to Product (feet): —

Total Depth (feet) 32.28 LPH & Water Recovered (gallons): —

Water Column (feet): 13.90 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 21.16 1 Well Volume (gallons): 3

Pump Depth

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									
0807		23ft	3	252.1	17.3	7.04			
		↓	6	216.6	19.0	6.81			
	0813		9	219.1	19.2	6.67			
		↓	12	219.5	19.3	6.64			

Static at Time Sampled	Total Gallons Purged	Sample Time
18.90	12	0820

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: R. Rodriguez

Site: 0752 Project No.: 189791.0035.1646 Date: 2/07/12

Well No. MW-1 Purge Method: Sub

Depth to Water (feet): 20.00 Depth to Product (feet): —

Total Depth (feet) 33.53 LPH & Water Recovered (gallons): —

Water Column (feet): 13.53 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 22.71 1 Well Volume (gallons): 3

Time Start	Time Stop	~~Depth to~~ Pump Depth Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0832		25 Ft	3	139.8	17.5	6.87			
		↓	6	128.9	18.8	6.80			
	0839	↓	9	131.1	19.2	6.76			

Static at Time Sampled	Total Gallons Purged	Sample Time
20.40	9	0845

Comments:

Well No. MW-6 Purge Method: Sub

Depth to Water (feet): 18.02 Depth to Product (feet): —

Total Depth (feet) 30.88 LPH & Water Recovered (gallons): —

Water Column (feet): 12.86 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 20.59 1 Well Volume (gallons): 3

Time Start	Time Stop	~~Depth to~~ Pump Depth Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
Pre-Purge									
0903		25 Ft	3	231.9	17.0	6.78			
		↓	6	219.9	18.9	6.81			
	0907	↓	9	209.8	19.5	6.81			

Static at Time Sampled	Total Gallons Purged	Sample Time
18.45	9	0915

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: R. Rodriguez

Site: 0752 Project No.: 189791.0035.1616 Date: 2/07/12

Well No. MW-2 Purge Method: Sub

Depth to Water (feet): 19.77 Depth to Product (feet): —

Total Depth (feet) 30.74 LPH & Water Recovered (gallons): —

Water Column (feet): 10.97 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 21.96 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									
0949			2	668.5	18.5	6.93			
			4	601.4	18.3	6.90			
	0954		6	581.4	19.1	6.90			

Static at Time Sampled	Total Gallons Purged	Sample Time
20.41	6	1000

Comments:

Well No. MW-3 Purge Method: Sub

Depth to Water (feet): 18.88 Depth to Product (feet): —

Total Depth (feet) 30.50 LPH & Water Recovered (gallons): —

Water Column (feet): 11.62 Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 21.20 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									
1013			2	721.9	16.2	6.68			
			4	654.5	18.7	6.66			
	1016		6	647.9	19.5	6.67			

Static at Time Sampled	Total Gallons Purged	Sample Time
19.10	6	1020

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: R. Bobrigue

Site: 0752 Project No.: 189791.0033.1646 Date: 2/07/12

Well No. MW-7 Purge Method: Sub

Depth to Water (feet): 18.40 Depth to Product (feet): —

Total Depth (feet) 31.40 LPH & Water Recovered (gallons): —

Water Column (feet): 13.00 Casing Diameter (inches): 2"

80% Recharge Depth(feet): 21.00 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									
1042			3	316.9	18.2	7.03			
			6	321.4	19.6	6.98			
	1047		9	307.8	19.8	6.90			

Static at Time Sampled	Total Gallons Purged	Sample Time
19.00	9	1053

Comments:

Well No. MW-5 Purge Method: Sub

Depth to Water (feet): 18.59 Depth to Product (feet): —

Total Depth (feet) 31.65 LPH & Water Recovered (gallons): —

Water Column (feet): 13.06 Casing Diameter (inches): 2"

80% Recharge Depth(feet): 21.20 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									
1024			3	355.2	17.5	7.53			
			6	332.1	19.1	7.32			
	1028		9	310.6	19.7	7.17			

Static at Time Sampled	Total Gallons Purged	Sample Time
19.40	9	1037

Comments: Purge + Sample by Bailio

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Bailey

Site: 0752 Project No.: 189791.0035.1646 Date: 2-7-12

Well No. A-MW-6 Purge Method: ~~BP~~ ~~Sub~~ HB

Depth to Water (feet): 17.51 Depth to Product (feet): —

Total Depth (feet) 25.90 LPH & Water Recovered (gallons): —

Water Column (feet): 8.39 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 19.18 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									
0738			2	613.6	18.2	7.92			
			4	578.4	19.3	7.37			
	0747		6	524.8	19.3	6.94			

Static at Time Sampled	Total Gallons Purged	Sample Time
18.10	6	0756

Comments:

Well No. A-MW-7 Purge Method: HB

Depth to Water (feet): 17.40 Depth to Product (feet): —

Total Depth (feet) 27.74 LPH & Water Recovered (gallons): —

Water Column (feet): 10.34 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 19.46 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									
0807			2	900.9	18.9	7.02			
			4	908.6	19.8	6.85			
	0815		6	892.5	19.2	6.92			

Static at Time Sampled	Total Gallons Purged	Sample Time
18.21	6	0820

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Rasulw

Site: 0752 Project No.: 189791.0035.1646 Date: 2-7-12

Well No. A-MW-3 Purge Method: Sub

Depth to Water (feet): 17.23 Depth to Product (feet): —

Total Depth (feet) 27.50 LPH & Water Recovered (gallons): —

Water Column (feet): 10.27 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 19.28 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									
0837			2	422.3	13.8	7.54			
			4	423.7	16.5	7.44			
	0841		6	421.4	17.6	7.35			

Static at Time Sampled	Total Gallons Purged	Sample Time
17.95	6	0847

Comments:

Well No. A-MW-4 Purge Method: HB

Depth to Water (feet): 18.43 Depth to Product (feet): —

Total Depth (feet) 25.58 LPH & Water Recovered (gallons): —

Water Column (feet): 7.15 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 19.86 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									
0900			2	691.7	17.7	7.06			
			4	688.5	18.8	6.80			
	0909		6	644.2	19.2	6.32			

Static at Time Sampled	Total Gallons Purged	Sample Time
18.94	6	0914

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Bailey

Site: 0752 Project No.: 189791.0035.1646 Date: 2-7-12

Well No. A-MW-1 Purge Method: ~~3R HB~~ Sub

Depth to Water (feet): 17.33 Depth to Product (feet): —

Total Depth (feet) 24.38 LPH & Water Recovered (gallons): —

Water Column (feet): 7.05 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 18.74 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									
0956			2	561.2	15.0	7.22			
			4	770.0	17.3	7.12			
			6	843.1	18.3	6.84			
	1001		8	867.4	19.0	6.72			

Static at Time Sampled	Total Gallons Purged	Sample Time
18.10	8	1006

Comments:

Well No. A-MW-2 Purge Method: HB

Depth to Water (feet): 17.90 Depth to Product (feet): —

Total Depth (feet) 24.84 LPH & Water Recovered (gallons): —

Water Column (feet): 6.94 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 19.28 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									
0919			2	814.6	17.3	6.86			
			4	950.6	18.9	6.67			
	0928		6	958.2	19.5	6.56			

Static at Time Sampled	Total Gallons Purged	Sample Time
18.13	6	0934

Comments:

TRC

GROUNDWATER SAMPLING FIELD NOTES

Technician: Basilio

Site: 0752 Project No.: 189791.0035.1646 Date: 2-7-12

Well No. A-MW-5 Purge Method: SUB

Depth to Water (feet): 16.45 Depth to Product (feet): —

Total Depth (feet) 27.80 LPH & Water Recovered (gallons): —

Water Column (feet): 11.35 Casing Diameter (Inches): 2

80% Recharge Depth(feet): 18.72 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									
1134			2	445.1	16.0	7.63			
			4	467.4	17.7	7.49			
	1138		6	477.7	19.0	7.42			

Static at Time Sampled	Total Gallons Purged	Sample Time
17.82	6	1145

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: 2-7-12 SITE ID: 0752

TECH: _____ CALLED SUPERVISOR: (YES) / NO

CALLED PM: (YES) / NO NAME OF PM: Anju Sharma

WELL ID: SP-4 Unable to Locate

SP-3

SP-5 ↓

WELL ID: _____

WELL ID: _____

TRC

WELL BOX CONDITION REPORT

SITE NO. 0752

ADDRESS 800 HARRISON ST, OAKLAND

DATE 2/07/12

PERFOMED BY: R. RODRIGUEZ

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-8	8"	3														X	X			OK
MW-4	12"	2																		OK
MW-1	12"	2																		OK
MW-6	8"	3					X									X	X			OK
MW-2	8"	2	1																	
MW-3	12"	2					X													OK
MW-7	12"	2														X	X			OK
MW-5	12"	2																		OK

TRC

WELL BOX CONDITION REPORT

SITE NO. 0752

ADDRESS 800 Harrison St.

DATE 2-7-12

PERFOMED BY: [signature]

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
SP-4	0												X							
SP-3													X							
SP-5													X							
A-MW6	~~12"~~ 0	0														X				christy Lid
A-MW-7	~~12"~~ 0	0														X				christy Lid
AMW 5																X				
A-MW3	8"	3																		
A-MW4	8"	3																		
A-MW1	8"	~~3~~																		
A-MW-2	8"	3																		

TRC

CHAIN OF CUSTODY FORM

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

COC 2 of 2

Union Oil Site ID:	Union Oil Consultant:
Site Global ID:	Consultant Contact:
Site Address:	Consultant Phone No.:
	Sampling Company: TRC
Union Oil PM:	Sampled By (PRINT):
Union Oil PM Phone No.:	
Charge Code: NWRTB- 0 ____ -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

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							Notes / Comments
	W-S-A							X			X	X					
	W-S-A																
	W-S-A												X	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																
	W-S-A																

Relinquished By / Company / Date / Time:	Relinquished By / Company / Date / Time :	Relinquished By / Company / Date / Time:
Received By / Company / Date / Time: Jenny Bogan BC LABS 2/7/12 1405	Received 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 2

Union Oil Site ID:	Union Oil Consultant:
Site Global ID:	Consultant Contact:
Site Address:	Consultant Phone No.:
Union Oil PM:	Sampling Company: TRC
Union Oil PM Phone No.:	Sampled By (PRINT):
Charge Code: NWRTB- 0 _____ -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

ANALYSES REQUIRED

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

Special Instructions

SAMPLE ID						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							Notes / Comments
Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers												
A-MW-6	W-S-A		120702	1056	6	X		X		X							
A-MW-4	W-S-A			0820													
A-MW-5	W-S-A			1145													
A-MW-3	W-S-A			0917													
A-MW-11	W-S-A			1211													
A-MW-1	W-S-A			1006													
A-MW-2	W-S-A		↓	0734	↓	↓		↓		↓							
	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 :
[signature]	TRC	2-7-12 1315			
Received By	Company	Date / Time:	Received By	Company	Date / Time :
[signature]	BCLabs	2/7/12 1405			

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

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

23-Jan-12

Site ID:	0752	**Project No.:**	189791.0035.1646 / 00TA01
Address	800 Harrison Street	**Client:**	Roya Kambin
City:	Oakland	**Contact #:**	925-790-6270
Cross Street:	8th Street	**PM:**	Kathy Brandt Arcadis
		PM Contact #:	510-596-9675

Total number of wells:	18	**Min. Well Diameter (in.):**	2	**# of Techs, # of Hrs:**	2, 6
Depth to Water (ft.):	16	**Max. Well Diameter (in.):**	2	**Travel Time (hrs):**	
		Max. Well Depth (ft):	33		

ACTIVITIES:		**Frequency**	**Notes**
Gauging:	☑	Semi Q1/Q3	
Purge/Sampling:	☑	Semi Q1/Q3	
No Purge/Sample	☐		

RELATED ACTIVITIES		**Notes**
Drums:	☑	
Other Activities:	☑	No Parking signs
Traffic Control:	☑	City of Oakland

Permit Needed

PERMIT INFORMATION:

No parking signs to be posted 48 hours before event.

NOTIFICATIONS:

Chinatown 76: 510-893-2356

SITE INFORMATION:

Coordinated event with 726 Harrison St. - DO NOT SAMPLE THESE WELLS.

Well MW-8 is in front of a driveway to a business. Try to finish well before 6AM.

Purging cannot begin until all sites in the coordinated event have finished gauging. Gauging should be complete before 6:30 AM.

Fromer ARCO wells incorported into the 76 Station 3Q11.

TRC SOLUTIONS

TECHNICAL SERVICES REQUEST FORM

23-Jan-12

Site ID.: 0752
Address 800 Harrison Street
City: Oakland
Cross Street 8th Street

			Gauging				Sampling				Field Measurements			
Well IDs	Benz.	MTBE	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Pre-Purge	Post-Purge	Type	**Comments**
SP-4			☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		
SP-3			☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		
SP-5			☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		
A-MW-6	0	0	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		
A-MW-7	0	0	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		
MW-8	0	1.6	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		2" casing
MW-4	0	12	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		2" casing
MW-1	0	44	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		2" casing
MW-6	0	89	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		2" casing
A-MW-5	0	360	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		
A-MW-3	0.53	200	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		
MW-2	6.7	14	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		2" casing
MW-3	9.7	2000	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		2" casing
MW-7	20	27	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		2" casing
MW-5	58	40	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		2" casing
A-MW-4	98	260	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		
A-MW-1	720	810	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		
A-MW-2	940	1500	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐		

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 02-07-12

WELL ID. MW-1 SAMPLER DA

TOTAL DEPTH OF WELL 27.2 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 18.77 TIME OF MEASUREMENT 0700

PRODUCT THICKNESS ~~0~~

DEPTH OF WELL CASING IN WATER 8.43

NUMBER OF GALLONS PER WELL CASING VOLUME 1.34

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 4

EQUIPMENT USED TO PURGE WELL (NEW DISPOSABLE BAILER)

TIME EVACUATION STARTED 0822 TIME EVACUATION COMPLETED 0830

TIME SAMPLES WERE COLLECTED 0832

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 4

SAMPLING DEVICE (NEW DISPOSABLE BAILER)

SAMPLE COLOR LT GRAY ODOR/SEDIMENT MOD HC / SLIGHT

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	19.2	6.5	540
2	19.3	6.4	540
3	19.3	6.4	540

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-1	3	40 ml VOA	8260B	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 02-07-12

WELL ID. MW-2 SAMPLER DA

TOTAL DEPTH OF WELL 28.0 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 19.52 TIME OF MEASUREMENT 0654

PRODUCT THICKNESS ~~0~~

DEPTH OF WELL CASING IN WATER 8.48

NUMBER OF GALLONS PER WELL CASING VOLUME 1.35

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 4

EQUIPMENT USED TO PURGE WELL (NEW DISPOSABLE BAILER)

TIME EVACUATION STARTED 0720 TIME EVACUATION COMPLETED 0728

TIME SAMPLES WERE COLLECTED 0730

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 4

SAMPLING DEVICE (NEW DISPOSABLE BAILER)

SAMPLE COLOR LT BRN ODOR/SEDIMENT NO / SLIGHT

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	19.2	6.8	410
2	19.3	6.9	390
3	19.3	6.8	390

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-2	3	40 ml VOA	8260B	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 02-07-12

WELL ID. MW-3 SAMPLER DA

TOTAL DEPTH OF WELL 29.2 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 18.71 TIME OF MEASUREMENT 0656

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 10.49

NUMBER OF GALLONS PER WELL CASING VOLUME 1.7

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 5

EQUIPMENT USED TO PURGE WELL (NEW DISPOSABLE BAILER)

TIME EVACUATION STARTED 0805 TIME EVACUATION COMPLETED 0815

TIME SAMPLES WERE COLLECTED 0816

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 5

SAMPLING DEVICE (NEW DISPOSABLE BAILER)

SAMPLE COLOR LT BRN ODOR/SEDIMENT TR HC / SLIGHT

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	19.5	6.6	410
2	19.6	6.5	440
3	19.6	6.5	440

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-3	3	40 ml VOA	8260B	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 02-07-12

WELL ID. MW-4 SAMPLER DA

TOTAL DEPTH OF WELL 29.7 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 19.09 TIME OF MEASUREMENT 0658

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 10.61

NUMBER OF GALLONS PER WELL CASING VOLUME 1.7

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 5

EQUIPMENT USED TO PURGE WELL (NEW DISPOSABLE BAILER)

TIME EVACUATION STARTED 0840 TIME EVACUATION COMPLETED 0850

TIME SAMPLES WERE COLLECTED 0852

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 5

SAMPLING DEVICE (NEW DISPOSABLE BAILER)

SAMPLE COLOR LT GRAY ODOR/SEDIMENT SL HC/SLIGHT

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	19.4	5.2	580
2	19.4	5.2	570
3	19.5	5.2	570

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-4	3	40 ml VOA	8260B	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 02-07-12

WELL ID. MW-5 SAMPLER DA

TOTAL DEPTH OF WELL 28.5 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 19.16 TIME OF MEASUREMENT 0702

PRODUCT THICKNESS ~~0~~

DEPTH OF WELL CASING IN WATER 9.34

NUMBER OF GALLONS PER WELL CASING VOLUME 1.5

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 4.5

EQUIPMENT USED TO PURGE WELL (NEW DISPOSABLE BAILER)

TIME EVACUATION STARTED 0738 TIME EVACUATION COMPLETED 0747

TIME SAMPLES WERE COLLECTED 0748

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 4.5

SAMPLING DEVICE (NEW DISPOSABLE BAILER)

SAMPLE COLOR LT GRAY ODOR/SEDIMENT MOD HC/SLIGHT

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	19.3	6.5	1120
2	19.3	6.4	1120
3	19.4	6.5	1130

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-5	3	40 ml VOA	8260B	✓

AQUA SCIENCE ENGINEERS

WELL SAMPLING FIELD LOG

PROJECT NAME YEE

JOB NUMBER 3412 DATE OF SAMPLING 02.07.12

WELL ID. MW-6 SAMPLER DA

TOTAL DEPTH OF WELL 49.1 WELL DIAMETER 2

DEPTH TO WATER PRIOR TO PURGING 26.53 TIME OF MEASUREMENT 0704

PRODUCT THICKNESS 0

DEPTH OF WELL CASING IN WATER 22.57

NUMBER OF GALLONS PER WELL CASING VOLUME 13.54

NUMBER OF WELL CASING VOLUMES TO BE REMOVED 3 SCREENS PLUS ISOL.O

REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING 8.5

EQUIPMENT USED TO PURGE WELL (NEW DISPOSABLE BAILER)

TIME EVACUATION STARTED 0749 TIME EVACUATION COMPLETED 0759

TIME SAMPLES WERE COLLECTED 0800

DID WELL GO DRY NO AFTER HOW MANY GALLONS —

VOLUME OF GROUNDWATER PURGED 8

SAMPLING DEVICE (NEW DISPOSABLE BAILER)

SAMPLE COLOR CLEAR ODOR/SEDIMENT NO / NO

CHEMICAL DATA

VOLUME PURGED	TEMPERATURE	PH	CONDUCTIVITY
1	19.4	7.1	400
2	19.4	7.0	410
3	19.5	7.0	400

SAMPLES COLLECTED

SAMPLE	# OF CONTAINERS	SIZE AND TYPE OF CONTAINER	ANALYSIS	PRESERVED
MW-6	3	40 ML VOA	8260 B	✓

ARCADIS

Attachment B

Historical Groundwater Results from TRC

Table 2
HISTORICAL GROUNDWATER RESULTS

August 3, 2011
76 Station 0752

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														
6/5/1991	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
9/30/1991	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
12/30/1991	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
4/2/1992	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
6/30/1992	34.94	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
9/15/1992	34.94	--	--	--	--	76	--	1.0	ND	ND	ND	--	--	
12/21/1992	34.94	21.17	0.00	13.77	--	95	--	0.69	ND	ND	1.0	--	--	
4/28/1993	34.94	--	--	--	--	920	--	3.1	2.3	1.2	9.7	--	--	
7/23/1993	34.94	20.13	0.00	14.81	--	ND	--	0.5	0.66	ND	ND	--	--	
10/5/1993	34.69	20.30	0.00	14.39	-0.42	92	--	1.5	ND	ND	0.72	--	--	
1/3/1994	34.69	20.52	0.00	14.17	-0.22	ND	--	ND	ND	ND	ND	--	--	
4/2/1994	34.69	20.16	0.00	14.53	0.36	ND	--	ND	ND	ND	ND	--	--	
7/5/1994	34.69	19.27	0.00	15.42	0.89	250	--	4.8	13	1.2	7.3	--	--	
10/6/1994	34.69	20.87	0.00	13.82	-1.60	540	--	1.4	ND	0.66	11	--	--	
1/2/1995	34.69	19.67	0.00	15.02	1.20	140	--	ND	ND	ND	ND	--	--	
4/3/1995	34.69	17.61	0.00	17.08	2.06	580	--	3.6	0.8	ND	4.0	--	--	
7/14/1995	34.69	18.58	0.00	16.11	-0.97	260	--	2.1	ND	ND	1.2	--	--	
10/10/1995	34.69	19.60	0.00	15.09	-1.02	220	--	2.0	ND	25	5.6	29	--	
1/3/1996	34.69	19.69	0.00	15.00	-0.09	190	--	2.4	ND	0.71	1.2	--	--	
4/10/1996	34.69	17.65	0.00	17.04	2.04	540	--	8.9	1.7	1.5	7.4	50	--	
7/9/1996	34.69	18.52	0.00	16.17	-0.87	490	--	3.0	1.4	1.3	2.5	150	--	
1/24/1997	34.69	17.72	0.00	16.97	0.80	760	--	27	0.89	5.2	10	510	--	
7/23/1997	34.69	19.42	0.00	15.27	-1.70	ND	--	ND	ND	ND	ND	550	--	
1/26/1998	34.69	17.46	0.00	17.23	1.96	1800	--	ND	ND	ND	ND	4800	--	
7/3/1998	34.69	18.61	0.00	16.08	-1.15	ND	--	ND	ND	ND	ND	1800	--	
1/14/1999	34.69	18.92	0.00	15.77	-0.31	83	--	ND	ND	ND	ND	230	--	
7/15/1999	34.69	17.84	0.00	16.85	1.08	110	--	ND	ND	ND	1.0	290	--	
1/7/2000	34.69	19.13	0.00	15.56	-1.29	ND	--	ND	ND	ND	ND	260	--	
7/19/2000	34.69	20.27	0.00	14.42	-1.14	ND	--	ND	ND	ND	ND	648	--	
1/2/2001	34.69	20.04	0.00	14.65	0.23	ND	--	ND	ND	ND	ND	119	--	
5/23/2001	34.69	18.27	0.00	16.42	1.77	84	--	ND	ND	ND	ND	760	--	
7/30/2001	34.69	18.56	0.00	16.13	-0.29	<50	--	<0.50	<0.50	<0.50	<0.50	350	--	
10/15/2001	34.69	18.72	0.00	15.97	-0.16	96	--	<0.50	<0.50	<0.50	<0.50	160	--	

Table 2
HISTORICAL GROUNDWATER 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
1/14/2002	34.69	16.78	0.00	17.91	1.94	450	--	<2.5	<2.5	<2.5	3.3	4100	--	
4/15/2002	34.69	17.35	0.00	17.34	-0.57	<1000	--	<10	<10	<10	<10	10000	--	
7/15/2002	34.69	17.63	0.00	17.06	-0.28	2100	--	<10	<10	<10	<20	--	2100	
1/18/2003	34.69	17.04	0.00	17.65	0.59	<25000	--	<250	<250	<250	<500	--	29000	
7/11/2003	34.69	17.91	0.00	16.78	-0.87	4000	--	<25	<25	<25	<50	--	6300	
2/4/2004	34.69	17.98	0.00	16.71	-0.07	--	8000	<50	<50	<50	<100	--	8500	
8/11/2004	34.69	17.84	0.00	16.85	0.14	--	1100	<10	<10	<10	<20	--	1500	
3/31/2005	34.69	15.71	0.00	18.98	2.13	--	<2000	<0.50	<0.50	0.54	2.2	--	4900	
9/30/2005	34.69	17.65	0.00	17.04	-1.94	--	190	<0.50	<0.50	<0.50	<1.0	--	160	
3/27/2006	34.69	15.03	0.00	19.66	2.62	--	760	<0.50	<0.50	<0.50	<1.0	--	1000	
9/27/2006	34.69	18.45	0.00	16.24	-3.42	--	170	<0.50	<0.50	<0.50	0.61	--	73	
3/27/2007	34.69	18.84	0.00	15.85	-0.39	--	120	<0.50	<0.50	<0.50	<0.50	--	99	
9/28/2007	34.69	19.73	0.00	14.96	-0.89	--	68	<0.50	<0.50	<0.50	<0.50	--	15	
3/26/2008	34.69	19.32	0.00	15.37	0.41	--	200	<0.50	<0.50	<0.50	1.0	--	47	
7/28/2008	34.69	20.15	0.00	14.54	-0.83	--	<50	<0.50	<0.50	<0.50	<1.0	--	8.7	
1/26/2009	34.69	20.74	0.00	13.95	-0.59	--	<50	<0.50	<0.50	<0.50	<1.0	--	5.2	
8/3/2009	34.72	20.10	0.00	14.62	0.67	--	76	<0.50	<0.50	<0.50	<1.0	--	12	
1/25/2010	34.72	19.78	0.00	14.94	0.32	--	<50	<0.50	<0.50	<0.50	<1.0	--	14	
8/3/2010	34.72	19.47	0.00	15.25	0.31	--	210	<0.50	<0.50	<0.50	<1.0	--	37	
2/17/2011	34.72	19.50	0.00	15.22	-0.03	--	150	<0.50	<0.50	<0.50	<1.0	--	17	
8/3/2011	34.72	18.96	0.00	15.76	0.54	--	230	<0.50	<0.50	<0.50	<1.0	--	44	
MW-2														
6/5/1991	34.97	--	--	--	--	49	--	ND	ND	ND	ND	--	--	
9/30/1991	34.97	--	--	--	--	130	--	18	0.53	14	9.6	--	--	
12/30/1991	34.97	--	--	--	--	91	--	16	0.89	11	1.9	--	--	
4/2/1992	34.97	--	--	--	--	88	--	12	0.32	6.3	7.2	--	--	
6/30/1992	34.97	--	--	--	--	76	--	9.3	0.76	4.8	6.9	--	--	
9/15/1992	34.97	--	--	--	--	1300	--	91	5.7	80	110	--	--	
12/21/1992	34.97	20.85	0.00	14.12	--	960	--	97	3.2	74	96	--	--	
4/28/1993	34.97	--	--	--	--	1300	--	76	1.9	130	87	--	--	
7/23/1993	34.97	19.81	0.00	15.16	--	66	--	1.8	ND	2.5	2.0	--	--	
10/5/1993	34.72	19.95	0.00	14.77	-0.39	120	--	12	ND	2.1	12	--	--	
1/3/1994	34.72	20.21	0.00	14.51	-0.26	260	--	25	ND	5.5	26	--	--	
4/2/1994	34.72	19.88	0.00	14.84	0.33	ND	--	0.65	ND	ND	0.99	--	--	

Table 2
HISTORICAL GROUNDWATER 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
7/5/1994	34.72	19.07	0.00	15.65	0.81	160	--	16	ND	0.73	10	--	--	
10/6/1994	34.72	20.55	0.00	14.17	-1.48	170	--	15	ND	1.4	11	--	--	
1/2/1995	34.72	19.25	0.00	15.47	1.30	190	--	27	ND	0.95	11	--	--	
4/3/1995	34.72	17.49	0.00	17.23	1.76	2400	--	65	6.6	19	63	--	--	
7/14/1995	34.72	18.30	0.00	16.42	-0.81	750	--	270	ND	ND	13	--	--	
10/10/1995	34.72	19.25	0.00	15.47	-0.95	50	--	1.6	ND	ND	ND	200	--	
1/3/1996	34.72	19.40	0.00	15.32	-0.15	ND	--	ND	ND	ND	ND	--	--	
4/10/1996	34.72	17.35	0.00	17.37	2.05	300	--	42	ND	2.4	9	620	--	
7/9/1996	34.72	18.22	0.00	16.50	-0.87	760	--	230	ND	1.3	2.4	1500	--	
1/24/1997	34.72	17.59	0.00	17.13	0.63	2900	--	400	350	190	720	1300	--	
7/23/1997	34.72	19.13	0.00	15.59	-1.54	ND	--	ND	ND	ND	ND	65	--	
1/26/1998	34.72	17.12	0.00	17.60	2.01	ND	--	ND	ND	ND	0.58	13	--	
7/3/1998	34.72	18.20	0.00	16.52	-1.08	140	--	26	ND	0.95	5.0	330	--	
1/14/1999	34.72	18.56	0.00	16.16	-0.36	ND	--	0.54	ND	ND	ND	350	--	
7/15/1999	34.72	17.39	0.00	17.33	1.17	ND	--	0.88	ND	ND	ND	39	--	
1/7/2000	34.72	18.78	0.00	15.94	-1.39	ND	--	ND	ND	ND	ND	24	--	
7/19/2000	34.72	19.68	0.00	15.04	-0.90	ND	--	1.45	ND	ND	ND	117	--	
1/2/2001	34.72	19.73	0.00	14.99	-0.05	ND	--	ND	ND	ND	ND	11.4	--	
5/23/2001	34.72	18.16	0.00	16.56	1.57	ND	--	ND	ND	ND	ND	33	--	
7/30/2001	34.72	18.34	0.00	16.38	-0.18	<50	--	<0.50	<0.50	<0.50	<0.50	67	--	
10/15/2001	34.72	18.52	0.00	16.20	-0.18	<50	--	<0.50	<0.50	<0.50	<0.50	31	--	
1/14/2002	34.72	16.72	0.00	18.00	1.80	<50	--	<0.50	<0.50	<0.50	0.56	11	--	
4/15/2002	34.72	17.26	0.00	17.46	-0.54	<50	--	<0.50	<0.50	<0.50	<0.50	110	--	
7/15/2002	34.72	17.46	0.00	17.26	-0.20	270	--	21	<0.50	3.8	4.0	--	73	
1/18/2003	34.72	16.93	0.00	17.79	0.53	<50	--	<0.50	<0.50	<0.50	<1.0	--	22	
7/11/2003	34.72	17.68	0.00	17.04	-0.75	130	--	3.0	<0.50	<0.50	<1.0	--	89	
2/4/2004	34.72	17.36	0.00	17.36	0.32	--	61	2.9	<0.50	<0.50	<1.0	--	22	
8/11/2004	34.72	17.61	0.00	17.11	-0.25	--	140	<0.50	0.60	<0.50	<1.0	--	94	
3/31/2005	34.72	15.56	0.00	19.16	2.05	--	<50	<0.50	<0.50	<0.50	<1.0	--	14	
9/30/2005	34.72	17.31	0.00	17.41	-1.75	--	<50	<0.50	<0.50	<0.50	<1.0	--	9.1	
3/27/2006	34.72	14.91	0.00	19.81	2.40	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.7	
9/27/2006	34.72	18.15	0.00	16.57	-3.24	--	<50	<0.50	<0.50	<0.50	<0.50	--	7.7	
3/27/2007	34.72	18.57	0.00	16.15	-0.42	--	<50	<0.50	<0.50	<0.50	<0.50	--	1.4	
9/28/2007	34.72	18.38	0.00	16.34	0.19	--	<50	<0.50	<0.50	<0.50	<0.50	--	<0.50	

Table 2
HISTORICAL GROUNDWATER 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
3/26/2008	34.72	19.06	0.00	15.66	-0.68	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
7/28/2008	34.72	19.90	0.00	14.82	-0.84	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
1/26/2009	34.72	20.50	0.00	14.22	-0.60	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
8/3/2009	34.74	19.92	0.00	14.82	0.60	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
1/25/2010	34.74	19.70	0.00	15.04	0.22	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
8/3/2010	34.74	19.26	0.00	15.48	0.44	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
2/17/2011	34.74	19.32	0.00	15.42	-0.06	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
8/3/2011	34.74	18.74	0.00	16.00	0.58	--	77	6.7	<0.50	<0.50	<1.0	--	14	
MW-3														
6/5/1991	33.39	--	--	--	--	5800	--	1200	40	140	97	--	--	
9/30/1991	33.39	--	--	--	--	6800	--	1400	130	290	240	--	--	
12/30/1991	33.39	--	--	--	--	7200	--	2100	690	410	550	--	--	
4/2/1992	33.39	--	--	--	--	8000	--	1400	200	300	310	--	--	
6/30/1992	33.39	--	--	--	--	8900	--	1900	210	430	550	--	--	
9/15/1992	33.39	--	--	--	--	10000	--	1900	330	400	580	--	--	
12/21/1992	33.39	20.02	0.00	13.37	--	8500	--	1500	150	310	330	--	--	
4/28/1993	33.39	--	--	--	--	2600	--	220	7.6	41	27	--	--	
7/23/1993	33.39	19.00	0.00	14.39	--	4400	--	660	26	160	82	--	--	
10/5/1993	33.14	19.20	0.00	13.94	-0.45	9200	--	720	88	140	140	--	--	
1/3/1994	33.14	19.40	0.00	13.74	-0.20	4900	--	830	100	170	150	--	--	
4/2/1994	33.14	19.01	0.00	14.13	0.39	6000	--	800	30	140	110	--	--	
7/5/1994	33.14	18.14	0.00	15.00	0.87	25000	--	ND	ND	ND	ND	--	--	
10/6/1994	33.14	19.73	0.00	13.41	-1.59	49000	--	1300	200	280	300	--	--	
1/2/1995	33.14	18.36	0.00	14.78	1.37	480	--	1.6	ND	1.4	ND	--	--	
4/3/1995	33.14	16.38	0.00	16.76	1.98	8100	--	65	ND	ND	ND	--	--	
7/14/1995	33.14	17.49	0.00	15.65	-1.11	ND	--	1300	ND	ND	ND	--	--	
10/10/1995	33.14	18.50	0.00	14.64	-1.01	3100	--	1400	36	50	53	190000	--	
1/3/1996	33.14	18.54	0.00	14.60	-0.04	ND	--	2300	110	150	140	--	--	
7/9/1996	33.14	17.43	0.00	15.71	1.11	ND	--	2000	ND	150	160	140000	--	
1/24/1997	33.14	16.57	0.00	16.57	0.86	540	--	8.0	ND	11	9.9	45	--	
7/23/1997	33.14	18.38	0.00	14.76	-1.81	7400	--	1900	180	140	340	45000	--	
1/26/1998	33.14	16.22	0.00	16.92	2.16	250	--	2.2	1.9	0.87	1.9	4.0	--	
7/3/1998	33.14	17.46	--	15.68	-1.24	230	--	1.8	2.5	1.5	3.4	6.3	--	
1/14/1999	33.14	17.73	--	15.41	-0.27	400	--	8.2	2.7	0.90	5.9	140	--	

Table 2
HISTORICAL GROUNDWATER 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
7/15/1999	33.14	16.58	--	16.56	1.15	290	--	3.3	3.6	1.7	2.5	13	--	
1/7/2000	33.14	17.84	--	15.30	-1.26	ND	--	890	91	100	480	20000	--	
7/19/2000	33.14	18.92	--	14.22	-1.08	354	--	3.87	2.61	0.646	ND	13.7	--	
1/2/2001	33.14	19.07	--	14.07	-0.15	464	--	ND	3.69	3.91	ND	21.1	--	
5/23/2001	33.14	17.12	--	16.02	1.95	420	--	7.6	3.1	3.0	5.1	1900	--	
7/30/2001	33.14	17.38	--	15.76	-0.26	290	--	4.6	4.1	<0.50	3.4	23	--	
10/15/2001	33.14	17.61	--	15.53	-0.23	400	--	<0.50	<0.50	<0.50	<0.50	13	--	
1/14/2002	33.14	15.53	--	17.61	2.08	130	--	0.50	0.61	1.1	<0.50	9.9	--	
4/15/2002	33.14	16.12	--	17.02	-0.59	280	--	9.9	1.6	3.3	6.8	1400	--	
7/15/2002	33.14	16.48	--	16.66	-0.36	64	--	<0.50	<0.50	<0.50	<1.0	33	--	
1/18/2003	33.14	15.81	--	17.33	0.67	420	--	0.54	<0.50	<0.50	<1.0	130	--	
7/11/2003	33.14	16.74	--	16.40	-0.93	--	300	2.3	<0.50	<0.50	<1.0	--	31	
2/4/2004	33.14	16.15	0.00	16.99	0.59	--	130	7.9	<0.50	<0.50	<1.0	--	63	
8/11/2004	33.14	16.64	0.00	16.50	-0.49	--	<20000	<200	<200	<200	<400	--	20000	
3/31/2005	33.14	14.53	0.00	18.61	2.11	--	<20000	330	<200	<200	<400	--	78000	
9/30/2005	33.14	16.55	0.00	16.59	-2.02	--	12000	360	40	<25	50	--	20000	
3/27/2006	33.14	13.66	0.00	19.48	2.89	--	10000	150	<25	53	99	--	15000	
9/27/2006	33.14	17.40	0.00	15.74	-3.74	--	<12000	<120	<120	<120	<120	--	12000	
3/27/2007	33.14	17.55	0.00	15.59	-0.15	--	8700	180	<12	60	57	--	8900	
9/28/2007	33.14	18.59	0.00	14.55	-1.04	--	9000	55	<50	<50	<50	--	11000	
3/26/2008	33.14	18.19	0.00	14.95	0.40	--	450	13	1.3	0.84	1.4	--	7200	
7/28/2008	33.14	19.00	0.00	14.14	-0.81	--	8300	<50	<50	<50	<100	--	13000	
1/26/2009	33.14	19.54	0.00	13.60	-0.54	--	8800	27	<12	<12	<25	--	13000	
8/3/2009	33.18	18.90	0.00	14.28	0.68	--	9300	56	<50	<50	<100	--	8000	
1/25/2010	33.18	18.54	0.00	14.64	0.36	--	4900	79	7.3	5.4	13	--	8100	
8/3/2010	33.18	18.35	0.00	14.83	0.19	--	2500	30	<12	<12	<25	--	4600	
2/17/2011	33.18	18.30	0.00	14.88	0.05	--	3800	11	<5.0	<5.0	<10	--	4700	
8/3/2011	33.18	17.87	0.00	15.31	0.43	--	2,600	9.7	0.8	3.1	1.4	--	2,000	
MW-4														
10/19/1992	--	--	--	--	--	480	--	0.51	2.1	2.8	6.8	--	--	
12/21/1992	33.12	19.73	--	13.39	--	220	--	ND	ND	0.97	0.74	--	--	
4/28/1993	33.12	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
7/23/1993	33.12	18.72	--	14.40	--	85	--	ND	ND	ND	ND	--	--	
10/5/1993	32.71	18.74	--	13.97	-0.43	130	--	ND	ND	ND	ND	--	--	

Table 2
HISTORICAL GROUNDWATER RESULTS

August 3, 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
1/3/1994	32.71	18.93	--	13.78	-0.19	210	--	ND	ND	0.76	1.6	--	--	
4/2/1994	32.71	18.53	--	14.18	0.40	89	--	ND	ND	ND	ND	--	--	
7/5/1994	32.71	17.67	--	15.04	0.86	190	--	ND	ND	ND	ND	--	--	
10/6/1994	32.71	19.25	--	13.46	-1.58	170	--	0.85	ND	ND	0.74	--	--	
1/2/1995	32.71	17.75	--	14.96	1.50	ND	--	ND	ND	ND	ND	--	--	
4/3/1995	32.71	15.87	--	16.84	1.88	98	--	ND	ND	ND	ND	--	--	
7/14/1995	32.71	17.01	--	15.70	-1.14	ND	--	ND	ND	ND	ND	--	--	
10/10/1995	32.71	18.03	--	14.68	-1.02	ND	--	ND	ND	ND	ND	120	--	
1/3/1996	32.71	18.05	--	14.66	-0.02	ND	--	ND	ND	ND	ND	--	--	
4/10/1996	32.71	16.00	--	16.71	2.05	ND	--	ND	ND	ND	ND	240	--	
7/9/1996	32.71	16.96	--	15.75	-0.96	ND	--	ND	ND	ND	ND	480	--	
1/24/1997	32.71	16.04	0.00	16.67	0.92	ND	--	ND	ND	ND	ND	270	--	
7/23/1997	32.71	17.87	0.00	14.84	-1.83	ND	--	ND	ND	ND	ND	460	--	
1/26/1998	32.71	16.05	--	16.66	1.82	ND	--	ND	ND	ND	ND	17	--	
7/3/1998	32.71	16.95	--	15.76	-0.90	ND	--	ND	ND	ND	ND	3.8	--	
1/14/1999	32.71	17.34	--	15.37	-0.39	ND	--	ND	ND	ND	ND	4600	--	
7/15/1999	32.71	16.36	--	16.35	0.98	ND	--	ND	ND	ND	ND	ND	--	
1/7/2000	32.71	17.81	--	14.90	-1.45	ND	--	ND	ND	ND	ND	450	--	
7/19/2000	32.71	18.94	--	13.77	-1.13	ND	--	ND	ND	ND	ND	ND	--	
1/2/2001	32.71	18.85	--	13.86	0.09	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	32.71	16.82	--	15.89	2.03	ND	--	ND	ND	ND	ND	ND	--	
7/30/2001	32.71	16.88	--	15.83	-0.06	<50	--	<0.50	<0.50	<0.50	<0.50	4.9	--	
10/15/2001	32.71	17.08	--	15.63	-0.20	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	
1/14/2002	32.71	14.97	--	17.74	2.11	<50	--	<0.50	<0.50	<0.50	<0.50	30	--	
4/15/2002	32.71	15.48	--	17.23	-0.51	<50	--	<0.50	<0.50	<0.50	<0.50	180	--	
7/15/2002	32.71	15.90	--	16.81	-0.42	<50	--	<0.50	<0.50	<0.50	<1.0	50	--	
1/18/2003	32.71	15.39	--	17.32	0.51	<50	--	<0.50	<0.50	<0.50	<1.0	<2.0	--	
7/11/2003	32.71	16.17	--	16.54	-0.78	--	200	<0.50	<0.50	<0.50	<1.0	--	52	
2/4/2004	32.71	16.12	0.00	16.59	0.05	--	1300	<10	<10	<10	<20	--	1700	
8/11/2004	32.71	16.16	0.00	16.55	-0.04	--	<5000	<50	<50	<50	<100	--	6400	
3/31/2005	32.71	14.15	0.00	18.56	2.01	--	<1300	<0.50	<0.50	<0.50	<1.0	--	1600	
9/30/2005	32.71	16.91	0.00	15.80	-2.76	--	900	<0.50	<0.50	<0.50	<1.0	--	3800	
3/27/2006	32.71	13.94	0.00	18.77	2.97	--	870	<0.50	<0.50	<0.50	<1.0	--	2000	
9/27/2006	32.71	16.91	0.00	15.80	-2.97	--	<1000	<10	<10	<10	<10	--	1600	

Table 2
HISTORICAL GROUNDWATER 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
3/27/2007	32.71	17.15	0.00	15.56	-0.24	--	1500	<2.5	<2.5	<2.5	<2.5	--	1700	
9/28/2007	32.71	18.13	0.00	14.58	-0.98	--	590	<5.0	<5.0	<5.0	<5.0	--	1400	
3/26/2008	32.71	17.66	0.00	15.05	0.47	--	390	<0.50	<0.50	<0.50	<1.0	--	1400	
7/28/2008	32.71	18.34	0.00	14.37	-0.68	--	480	<1.0	<1.0	<1.0	<2.0	--	950	
1/26/2009	32.71	18.80	0.00	13.91	-0.46	--	500	<0.50	<0.50	<0.50	<1.0	--	830	
8/3/2009	32.72	18.43	0.00	14.29	0.38	--	640	<5.0	6.6	<5.0	<10	--	570	
1/25/2010	32.72	18.02	0.00	14.70	0.41	--	190	<0.50	<0.50	<0.50	<1.0	--	400	
8/3/2010	32.72	17.83	0.00	14.89	0.19	--	58	<0.50	<0.50	<0.50	<1.0	--	110	
2/17/2011	32.72	17.85	0.00	14.87	-0.02	--	<50	<0.50	<0.50	<0.50	<1.0	--	12	
8/3/2011	32.72	17.36	0.00	15.36	0.49	--	<50	<0.50	<0.50	<0.50	<1.0	--	12	
MW-5														
10/19/1992	--	--	--	--	--	2700	--	61	5.0	100	61	--	--	
12/21/1992	33.25	19.75	--	13.50	--	1700	--	51	4.7	83	34	--	--	
4/28/1993	33.25	--	--	--	--	6700	--	200	190	250	430	--	--	
7/23/1993	33.25	18.74	--	14.51	--	2000	--	122	8.0	68	47	--	--	
10/5/1993	32.95	18.83	--	14.12	-0.39	1700	--	70	6.2	54	40	--	--	
1/3/1994	32.95	19.05	--	13.90	-0.22	1500	--	44	ND	42	46	--	--	
4/2/1994	32.95	18.68	--	14.27	0.37	1800	--	46	5.1	38	35	--	--	
7/5/1994	32.95	17.90	--	15.05	0.78	2200	--	97	8.4	37	36	--	--	
10/6/1994	32.95	19.37	--	13.58	-1.47	1600	--	79	5.7	28	22	--	--	
1/2/1995	32.95	17.92	--	15.03	1.45	1700	--	50	8.6	30	28	--	--	
4/3/1995	32.95	16.15	--	16.80	1.77	5400	--	190	240	170	420	--	--	
7/14/1995	32.95	17.18	--	15.77	-1.03	3800	--	210	100	130	190	--	--	
10/10/1995	32.95	18.15	--	14.80	-0.97	1300	--	92	14	15	39	1100	--	
1/3/1996	32.95	18.20	--	14.75	-0.05	630	--	53	4.4	8.3	13	--	--	
4/10/1996	32.95	16.05	--	16.90	2.15	500	--	25	18	7.0	20	640	--	
7/9/1996	32.95	17.11	--	15.84	-1.06	1000	--	44	20	10	34	150	--	
1/24/1997	32.95	16.36	0.00	16.59	0.75	4000	--	190	400	160	430	600	--	
7/23/1997	32.95	18.08	0.00	14.87	-1.72	1700	--	200	23	18	45	2500	--	
1/26/1998	32.95	16.27	--	16.68	1.81	ND	--	ND	ND	ND	ND	ND	--	
7/3/1998	32.95	17.27	--	15.68	-1.00	ND	--	ND	ND	ND	ND	ND	--	
1/14/1999	32.95	17.55	--	15.40	-0.28	330	--	61	4.1	2.2	2.9	560	--	
7/15/1999	32.95	16.41	--	16.54	1.14	1100	--	170	ND	ND	27	660	--	
1/7/2000	32.95	17.85	--	15.10	-1.44	1000	--	180	6.3	ND	14	430	--	

Table 2
HISTORICAL GROUNDWATER 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
7/19/2000	32.95	18.87	--	14.08	-1.02	2980	--	289	57.3	65.3	43.4	976	--	
1/2/2001	32.95	18.47	--	14.48	0.40	1150	--	87.2	17.8	7.97	9.32	368	--	
5/23/2001	32.95	17.38	--	15.57	1.09	840	--	42	10	13	7.1	130	--	
7/30/2001	32.95	17.12	--	15.83	0.26	1900	--	82	24	6.9	13	370	--	
10/15/2001	32.95	17.33	--	15.62	-0.21	26000	--	390	230	58	1300	<500	--	
1/14/2002	32.95	15.33	--	17.62	2.00	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
4/15/2002	32.95	15.89	--	17.06	-0.56	310	--	20	6.7	11	7.7	77	--	
7/15/2002	32.95	16.21	--	16.74	-0.32	1500	--	40	22	60	28	170	--	
1/18/2003	32.95	15.68	--	17.27	0.53	<50	--	0.75	<0.50	<0.50	<1.0	81	--	
7/11/2003	32.95	16.29	--	16.66	-0.61	--	<50	<0.50	<0.50	<0.50	<1.0	--	3.6	
2/4/2004	32.95	16.08	0.00	16.87	0.21	--	82	16	1.6	0.65	<1.0	--	16	
8/11/2004	32.95	16.38	0.00	16.57	-0.30	--	900	81	14	2.8	11	--	120	
3/31/2005	32.95	14.30	0.00	18.65	2.08	--	5000	160	84	65	72	--	140	
9/30/2005	32.95	16.19	0.00	16.76	-1.89	--	1200	26	5.8	2.4	9.2	--	38	
3/27/2006	32.95	13.90	0.00	19.05	2.29	--	1100	13	12	4.7	16	--	8.8	
9/27/2006	32.95	17.06	0.00	15.89	-3.16	--	1300	20	11	2.3	15	--	21	
3/27/2007	32.95	17.43	0.00	15.52	-0.37	--	960	15	7.8	2.2	11	--	14	
9/28/2007	32.95	18.25	0.00	14.70	-0.82	--	1300	13	6.0	2.3	15	--	8.4	
3/26/2008	32.95	17.82	0.00	15.13	0.43	--	1200	7.6	3.3	1.8	11	--	2.7	
7/28/2008	32.95	18.70	0.00	14.25	-0.88	--	2000	12	4.9	3.2	17	--	<0.50	
1/26/2009	32.95	19.25	0.00	13.70	-0.55	--	1400	7.4	3.3	2.5	11	--	3.3	
8/3/2009	32.98	18.62	0.00	14.36	0.66	--	1500	17	9.0	3.5	22	--	7.3	
1/25/2010	32.98	18.34	0.00	14.64	0.28	--	1600	7.6	3.6	2.4	15	--	1.7	
8/3/2010	32.98	18.07	0.00	14.91	0.27	--	2200	32	32	10	48	--	10	
2/17/2011	32.98	18.05	0.00	14.93	0.02	--	1800	33	7.4	<0.50	11	--	15	
8/3/2011	32.98	17.57	0.00	15.41	0.48	--	2,500	58	23	12	34	--	40	
MW-6														
10/19/1992	--	--	--	--	--	3900	--	420	12	60	28	--	--	
12/21/1992	32.42	19.17	--	13.25	--	2300	--	370	11	39	15	--	--	
4/28/1993	32.42	--	--	--	--	1200	--	54	1.5	11	5.3	--	--	
7/23/1993	32.42	18.17	--	14.25	--	580	--	19	0.99	3.4	2.7	--	--	
10/5/1993	32.16	18.35	--	13.81	-0.44	1400	--	34	ND	5.3	7.3	--	--	
1/3/1994	32.16	18.54	--	13.62	-0.19	1400	--	57	ND	8.5	11	--	--	
4/2/1994	32.16	18.15	--	14.01	0.39	5300	--	ND	ND	ND	ND	--	--	

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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
7/5/1994	32.16	17.25	--	14.91	0.90	ND	--	ND	ND	ND	ND	--	--	
10/6/1994	32.16	18.85	--	13.31	-1.60	11000	--	ND	ND	ND	ND	--	--	
1/2/1995	32.16	17.51	--	14.65	1.34	550	--	18	0.92	2.0	1.8	--	--	
4/3/1995	32.16	15.48	--	16.68	2.03	6600	--	ND	ND	ND	ND	--	--	
7/14/1995	32.16	16.63	--	15.53	-1.15	ND	--	ND	ND	ND	ND	--	--	
10/10/1995	32.16	17.68	--	14.48	-1.05	ND	--	81	ND	ND	ND	75000	--	
1/3/1996	32.16	17.66	--	14.50	0.02	70	--	9.9	0.58	ND	0.81	--	--	
4/10/1996	32.16	15.56	--	16.60	2.10	300	--	258	4.7	0.94	2.7	53000	--	
7/9/1996	32.16	16.59	--	15.57	-1.03	1800	--	410	ND	12	ND	76000	--	
1/24/1997	32.16	15.69	0.00	16.47	0.90	ND	--	0.80	ND	ND	ND	390	--	
7/23/1997	32.16	17.53	0.00	14.63	-1.84	5700	--	1100	240	240	700	16000	--	
1/26/1998	32.16	15.44	--	16.72	2.09	ND	--	ND	ND	ND	ND	ND	--	
7/3/1998	32.16	16.58	--	15.58	-1.14	ND	--	ND	ND	ND	ND	ND	--	
1/14/1999	32.16	17.02	--	15.14	-0.44	ND	--	ND	ND	ND	ND	14	--	
7/15/1999	32.16	15.95	--	16.21	1.07	ND	--	ND	ND	ND	ND	2.8	--	
1/7/2000	32.16	16.96	--	15.20	-1.01	78	--	24	ND	0.66	17	280	--	
7/19/2000	32.16	18.04	--	14.12	-1.08	ND	--	ND	1.32	ND	0.974	ND	--	
1/2/2001	32.16	18.10	--	14.06	-0.06	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	32.16	16.42	--	15.74	1.68	ND	--	ND	ND	ND	ND	ND	--	
7/30/2001	32.16	16.49	--	15.67	-0.07	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
10/15/2001	32.16	16.67	--	15.49	-0.18	<50	--	<0.50	0.62	<0.50	<0.50	<5.0	--	
1/14/2002	32.16	14.60	--	17.56	2.07	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
4/15/2002	32.16	15.07	--	17.09	-0.47	<50	--	<0.50	<0.50	<0.50	0.73	<5.0	--	
7/15/2002	32.16	15.56	--	16.60	-0.49	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	
1/18/2003	32.16	15.80	--	16.36	-0.24	<50	--	<0.50	<0.50	<0.50	<1.0	<2.0	--	
7/11/2003	32.16	15.74	--	16.42	0.06	--	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	
2/4/2004	32.16	15.49	0.00	16.67	0.25	--	<50	2.6	<0.50	<0.50	<1.0	--	2.4	
8/11/2004	32.16	15.81	0.00	16.35	-0.32	--	7900	95	<50	<50	<100	--	9100	
3/31/2005	32.16	13.70	0.00	18.46	2.11	--	<5000	2.5	<0.50	<0.50	<1.0	--	7600	
9/30/2005	32.16	15.48	0.00	16.68	-1.78	--	4300	140	37	28	41	--	5800	
3/27/2006	32.16	13.02	0.00	19.14	2.46	--	7200	34	0.66	0.96	18	--	9900	
9/27/2006	32.16	16.56	0.00	15.60	-3.54	--	1800	<12	<12	<12	<12	--	3300	
3/27/2007	32.16	16.73	0.00	15.43	-0.17	--	1600	2.8	<2.5	<2.5	<2.5	--	1800	
9/28/2007	32.16	17.75	0.00	14.41	-1.02	--	830	<5.0	<5.0	<5.0	<5.0	--	1600	

Table 2
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3/26/2008	32.16	17.31	0.00	14.85	0.44	--	940	45	5.9	2.0	5.3	--	1300	
7/28/2008	32.16	18.50	0.00	13.66	-1.19	--	500	<1.0	<1.0	<1.0	<2.0	--	750	
1/26/2009	32.16	18.46	0.00	13.70	0.04	--	570	<0.50	<0.50	<0.50	<1.0	--	500	
8/3/2009	32.19	18.01	0.00	14.18	0.48	--	800	<5.0	<5.0	<5.0	<10	--	690	
1/25/2010	32.19	17.64	0.00	14.55	0.37	--	410	4.8	0.63	<0.50	1.4	--	390	
8/3/2010	32.19	17.48	0.00	14.71	0.16	--	480	2.0	<0.50	<0.50	<1.0	--	520	
2/17/2011	32.19	17.48	0.00	14.71	0.00	--	290	<0.50	<0.50	<0.50	<1.0	--	130	
8/3/2011	32.19	17.02	0.00	15.17	0.46	--	330	<0.50	<0.50	<0.50	<1.0	--	89	
MW-7														
10/19/1992	--	--	--	--	--	--	--	--	--	--	--	--	--	
4/28/1993	32.49	--	--	--	--	110	--	2.8	1.3	1.4	1.7	--	--	
7/23/1993	32.49	18.60	--	13.89	--	790	--	23	3.3	28	5.4	--	--	
10/5/1993	32.20	18.76	--	13.44	-0.45	360	--	10	1.2	0.91	0.99	--	--	
1/3/1994	32.20	18.91	--	13.29	-0.15	ND	--	0.93	ND	0.75	1.9	--	--	
4/2/1994	32.20	18.50	--	13.70	0.41	360	--	2.0	ND	ND	0.8	--	--	
7/5/1994	32.20	17.52	--	14.68	0.98	ND	--	ND	ND	ND	ND	--	--	
10/6/1994	32.20	19.25	--	12.95	-1.73	340	--	5.6	0.85	ND	1.2	--	--	
1/2/1995	32.20	17.67	--	14.53	1.58	ND	--	ND	ND	ND	ND	--	--	
4/3/1995	32.20	15.81	--	16.39	1.86	570	--	24	ND	3.4	5.8	--	--	
7/14/1995	32.20	17.05	--	15.15	-1.24	ND	--	14	ND	ND	ND	--	--	
10/10/1995	32.20	18.08	--	14.12	-1.03	740	--	170	ND	ND	ND	13000	--	
1/3/1996	32.20	18.02	--	14.18	0.06	360	--	16	1.3	2.7	1.4	--	--	
4/10/1996	32.20	15.81	--	16.39	2.21	120	--	4.1	1.5	ND	0.88	3200	--	
7/9/1996	32.20	16.99	--	15.21	-1.18	ND	--	ND	ND	ND	ND	3400	--	
1/24/1997	32.20	16.08	0.00	16.12	0.91	ND	--	16	ND	ND	ND	6600	--	
7/23/1997	32.20	17.99	0.00	14.21	-1.91	ND	--	16	ND	ND	0.62	10000	--	
1/26/1998	32.20	15.56	--	16.64	2.43	ND	--	ND	ND	ND	0.56	ND	--	
7/3/1998	32.20	17.04	--	15.16	-1.48	ND	--	ND	ND	ND	ND	ND	--	
1/14/1999	32.20	--	--	--	--	--	--	--	--	--	--	--	--	essible-parke
7/15/1999	32.20	15.72	--	16.48	--	ND	--	ND	ND	ND	ND	290	--	
1/7/2000	32.20	16.80	--	15.40	-1.08	ND	--	7.7	ND	ND	4.4	98	--	
7/19/2000	32.20	17.88	--	14.32	-1.08	ND	--	ND	1.27	ND	0.979	ND	--	
1/2/2001	32.20	17.97	--	14.23	-0.09	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	32.20	16.81	--	15.39	1.16	ND	--	ND	ND	ND	ND	ND	--	

Table 2
HISTORICAL GROUNDWATER RESULTS

August 3, 2011
76 Station 0752

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
7/30/2001	32.20	16.79	--	15.41	0.02	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
10/15/2001	32.20	16.98	--	15.22	-0.19	<50	--	<0.50	0.58	<0.50	<0.50	<5.0	--	
1/14/2002	32.20	14.85	--	17.35	2.13	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
4/15/2002	32.20	15.29	--	16.91	-0.44	<50	--	<0.50	<0.50	<0.50	0.70	<5.0	--	
7/15/2002	32.20	15.92	--	16.28	-0.63	<50	--	<0.50	<0.50	<0.50	<1.0	<0.50	--	
1/18/2003	32.20	15.11	--	17.09	0.81	<50	--	<0.50	<0.50	<0.50	<1.0	<2.0	--	
7/11/2003	32.20	15.89	--	16.31	-0.78	--	<50	<0.50	<0.50	<0.50	<1.0	--	19	
2/4/2004	32.20	15.90	0.00	16.30	-0.01	--	<50	3.6	<0.50	<0.50	<1.0	--	3.2	
8/11/2004	32.20	16.12	0.00	16.08	-0.22	--	<5000	120	<50	<50	<100	--	5100	
3/31/2005	32.20	13.99	0.00	18.21	2.13	--	<5000	190	<50	<50	<100	--	8400	
9/30/2005	32.20	15.93	0.00	16.27	-1.94	--	<50	<0.50	<0.50	<0.50	<1.0	--	<0.50	
3/27/2006	32.20	13.40	0.00	18.80	2.53	--	2500	160	10	11	26	--	5600	
9/27/2006	32.20	16.96	0.00	15.24	-3.56	--	2800	180	<12	15	44	--	4200	
3/27/2007	32.20	17.30	0.00	14.90	-0.34	--	920	66	2.9	3.4	4.5	--	970	
9/28/2007	32.20	18.10	0.00	14.10	-0.80	--	4000	440	15	17	59	--	3300	
3/26/2008	32.20	17.64	0.00	14.56	0.46	--	390	39	3.3	0.85	7.5	--	96	
7/28/2008	32.20	18.50	0.00	13.70	-0.86	--	64	3.3	<0.50	<0.50	<1.0	--	8.7	
1/26/2009	32.20	18.90	0.00	13.30	-0.40	--	80	7.9	0.58	<0.50	<1.0	--	10	
8/3/2009	32.22	18.29	0.00	13.93	0.63	--	2100	220	14	10	31	--	750	
1/25/2010	32.22	17.49	0.00	14.73	0.80	--	490	25	3.5	0.54	6.9	--	16	
8/3/2010	32.22	17.84	0.00	14.38	-0.35	--	240	45	1.8	1.2	1.7	--	290	
2/17/2011	32.22	17.83	0.00	14.39	0.01	--	370	53	2.0	<0.50	2.1	--	12	
8/3/2011	32.22	17.42	0.00	14.80	0.41	--	390	20	1.8	<0.50	1.6	--	27	
MW-8														
4/28/1993	32.33	--	--	--	--	450	--	18	1.8	1.8	1.4	--	--	
7/23/1993	32.33	18.45	--	13.88	--	260	--	5.1	ND	0.6	ND	--	--	
10/5/1993	32.00	18.57	--	13.43	-0.45	120	--	1.7	ND	ND	ND	--	--	
1/3/1994	32.00	18.73	--	13.27	-0.16	ND	--	ND	ND	ND	ND	51	--	
4/2/1994	32.00	18.30	--	13.70	0.43	150	--	1.2	ND	ND	ND	--	--	
7/5/1994	32.00	17.41	--	14.59	0.89	730	--	17	ND	1.6	ND	--	--	
10/6/1994	32.00	18.98	--	13.02	-1.57	140	--	ND	ND	ND	ND	--	--	
1/2/1995	32.00	17.58	--	14.42	1.40	440	--	18	0.72	2.0	1.8	--	--	
4/3/1995	32.00	15.54	--	16.46	2.04	960	--	11	ND	ND	ND	--	--	
7/14/1995	32.00	16.81	--	15.19	-1.27	280	--	4.2	2.6	1.1	3.3	--	--	

Table 2
HISTORICAL GROUNDWATER RESULTS

August 3, 2011
76 Station 0752

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
10/10/1995	32.00	17.85	--	14.15	-1.04	110	--	1.3	0.62	0.67	ND	170	--	
1/3/1996	32.00	17.82	--	14.18	0.03	63	--	ND	0.51	ND	1.8	--	--	
4/10/1996	32.00	15.70	--	16.30	2.12	ND	--	1.1	0.61	ND	ND	60	--	
7/9/1996	32.00	16.78	--	15.22	-1.08	72	--	1.0	ND	ND	ND	140	--	
1/24/1997	32.00	15.79	0.00	16.21	0.99	ND	--	ND	ND	ND	ND	76	--	
7/23/1997	32.00	17.69	0.00	14.31	-1.90	ND	--	ND	ND	ND	ND	270	--	
1/26/1998	32.00	15.50	--	16.50	2.19	ND	--	ND	ND	ND	0.76	2.9	--	
7/3/1998	32.00	16.80	--	15.20	-1.30	ND	--	ND	ND	ND	ND	ND	--	
1/14/1999	32.00	17.13	--	14.87	-0.33	ND	--	ND	ND	ND	ND	11	--	
7/15/1999	32.00	15.85	--	16.15	1.28	ND	--	ND	ND	ND	ND	ND	--	
1/7/2000	32.00	16.94	--	15.06	-1.09	ND	--	ND	ND	ND	ND	11	--	
7/19/2000	32.00	18.06	--	13.94	-1.12	ND	--	ND	2.99	0.521	ND	ND	--	
1/2/2001	32.00	18.12	--	13.88	-0.06	ND	--	ND	ND	ND	ND	ND	--	
5/23/2001	32.00	16.96	--	15.04	1.16	ND	--	ND	ND	ND	ND	ND	--	
7/30/2001	32.00	16.52	--	15.48	0.44	<50	--	<0.50	<0.50	<0.50	<0.50	2.7	--	
10/15/2001	32.00	16.72	--	15.28	-0.20	<50	--	<0.50	0.65	<0.50	<0.50	<5.0	--	
1/14/2002	32.00	14.53	--	17.47	2.19	<50	--	<0.50	<0.50	<0.50	<0.50	<2.5	--	
4/15/2002	32.00	14.96	--	17.04	-0.43	<50	--	<0.50	<0.50	<0.50	<0.50	<5.0	--	
7/15/2002	32.00	15.60	--	16.40	-0.64	<50	--	<0.50	<0.50	<0.50	<1.0	11	--	
1/18/2003	32.00	14.78	--	17.22	0.82	<50	--	<0.50	<0.50	<0.50	<1.0	<2.0	--	
2/4/2004	32.00	15.65	0.00	16.35	-0.87	--	52	2.3	<0.50	<0.50	<1.0	--	2.4	
8/11/2004	32.00	15.86	0.00	16.14	-0.21	--	350	<2.5	<2.5	<2.5	<5.0	--	310	
3/31/2005	32.00	13.73	0.00	18.27	2.13	--	<2000	<0.50	<0.50	<0.50	<1.0	--	2100	
9/30/2005	32.00	15.94	0.00	16.06	-2.21	--	1200	<0.50	0.50	<0.50	<1.0	--	6900	
3/27/2006	32.00	13.13	0.00	18.87	2.81	--	460	<0.50	<0.50	<0.50	<1.0	--	820	
9/27/2006	32.00	16.75	0.00	15.25	-3.62	--	520	<5.0	<5.0	<5.0	8.2	--	870	
3/27/2007	32.00	16.87	0.00	15.13	-0.12	--	1400	<0.50	<0.50	<0.50	<0.50	--	3600	
9/28/2007	32.00	17.91	0.00	14.09	-1.04	--	280	<2.5	<2.5	<2.5	<2.5	--	670	
3/26/2008	32.00	17.45	0.00	14.55	0.46	--	110	<0.50	<0.50	<0.50	<1.0	--	210	
7/28/2008	32.00	18.50	0.00	13.50	-1.05	--	<50	<0.50	<0.50	<0.50	<1.0	--	11	
1/26/2009	32.00	18.65	0.00	13.35	-0.15	--	<50	<0.50	<0.50	<0.50	<1.0	--	22	
8/3/2009	32.03	18.11	0.00	13.92	0.57	--	67	<0.50	<0.50	<0.50	<1.0	--	64	
1/25/2010	32.03	17.67	0.00	14.36	0.44	--	<50	<0.50	<0.50	<0.50	<1.0	--	10	
8/3/2010	32.03	17.58	0.00	14.45	0.09	--	<50	<0.50	<0.50	<0.50	<1.0	--	10	

Table 2
HISTORICAL GROUNDWATER RESULTS

August 3, 2011
76 Station 0752

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
2/17/2011	32.03	17.53	0.00	14.50	0.05	--	<50	<0.50	<0.50	<0.50	<1.0	--	2.5	
8/3/2011	32.03	17.18	0.00	14.85	0.35	--	<50	<0.50	<0.50	<0.50	<1.0	--	1.6	

ARCADIS

Attachment C

Laboratory Reports and Chain-of-Custody Documentation

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 02/15/2012

Robert Kitay

Aqua Science Engineers, Inc.
55 Oak Court, Ste. 220
Danville, CA 94526

Project:	Yee
BC Work Order:	1202338
Invoice ID:	B116454

Enclosed are the results of analyses for samples received by the laboratory on 2/9/2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Linda Phoudamneun

Contact Person: Linda Phoudamneun
Client Service Rep

Authorized Signature

Table of Contents

Aqua Science Engineers, Inc.
55 Oak Court, Suite 220
Danville, CA 94526
(925) 820-9391
FAX (925) 837-4853

Chain of Custody

12-02338

PAGE 1 of 1

SAMPLER (SIGNATURE) David Allen

PROJECT NAME YEE PROPERTY JOB NO. 3412

ADDRESS 726 HARRISON STREET, OAKLAND, CA

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

	SAMPLE ID.	DATE	TIME	MATRIX	QUANTITY	TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	TPH-DIESEL (EPA 3510/8015)	TPH-DIESEL & MOTOR OIL (EPA 3510/8015)	CAM 17 METALS (EPA 6010+7000)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	Pb (TOTAL or DISSOLVED) (EPA 6010)	PESTICIDES (EPA 8081)	FUEL OXYGENATES (EPA 8260)	PURGEABLE HALOCARBONS (EPA 601/8010)	TPH-G/BTEX/5 OXYS (EPA METHOD 8260)	MULTI-RANGE HYDROCARBONS WITH SILICA GEL CLEANUP (EPA 8015)	VOLATILE ORGANICS (EPA 624/8240/8260)	LUFT METALS (5) (EPA 6010+7000)	COMPOSITE 4:1	EDF	TPH-G/BTEX/MTBE/ 1,2-DCA, EDB (EPA 8260)
1	MW-1	2/7/12	0832	W	3															X	X
2	MW-2		0730 0846																	X	X
3	MW-3		0816																	X	X
4	MW-4		0852																	X	X
5	MW-5		0748																	X	X
6	MW-6		0800																	X	X

CHK BY BLT

DISTRIBUTION

SUB-OUT

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:	COMMENTS:
(signature) 1456 (time)	(signature) 1405 (time)	(signature) 1900 (time)	(signature) (time)	
DAVID ALLEN 2/7/12 (printed name) (date)	GARY BOGAN 2/8/12 (printed name) (date)	GARY BOGAN (printed name) (date)	(printed name) (date)	TURN AROUND TIME: STANDARD 24Hr 48Hr 72Hr
Company-ASE, INC.	Company-	Company- BC LABS 2/8/12	Company-	OTHER:

REC. RLRuyle 2-8-12 1930 REL. RLRuyle 2-8-12 2300 KOMA 2-8-12 2300

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

Chain of Custody and Cooler Receipt Form for 1202338 Page 2 of 2

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

Submission #: 12-02338

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: IDA Thermometer ID: 177

Temperature: A 5.2 °C / C 5.5 °C

Date/Time 2/9/12 0010

Analyst Init: MA

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A3	A3	A3	A3	A3	A3	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: NO Time on Samples

Sample Numbering Completed By: _____ Date/Time: 2/9/12 1626

A = Actual / C = Corrected

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

Aqua Science Engineers, Inc.
55 Oak Court, Ste. 220
Danville, CA 94526

Reported: 02/15/2012 15:53
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1202338-01	**COC Number:**	---	**Receive Date:**	02/08/2012 23:00
	Project Number:	Yee Property	**Sampling Date:**	02/07/2012 08:32
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-1	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Drinking Water
	Delivery Work Order:			
	Global ID: T0600102122			
	Location ID (FieldPoint): MW-1			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1202338-02	**COC Number:**	---	**Receive Date:**	02/08/2012 23:00
	Project Number:	Yee Property	**Sampling Date:**	02/07/2012 07:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Drinking Water
	Delivery Work Order:			
	Global ID: T0600102122			
	Location ID (FieldPoint): MW-2			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1202338-03	**COC Number:**	---	**Receive Date:**	02/08/2012 23:00
	Project Number:	Yee Property	**Sampling Date:**	02/07/2012 08:16
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Drinking Water
	Delivery Work Order:			
	Global ID: T0600102122			
	Location ID (FieldPoint): MW-3			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			

Aqua Science Engineers, Inc.
55 Oak Court, Ste. 220
Danville, CA 94526

Reported: 02/15/2012 15:53
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1202338-04	**COC Number:**	---	**Receive Date:**	02/08/2012 23:00
	Project Number:	Yee Property	**Sampling Date:**	02/07/2012 08:52
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-4	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Drinking Water
	Delivery Work Order:			
	Global ID: T0600102122			
	Location ID (FieldPoint): MW-4			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1202338-05	**COC Number:**	---	**Receive Date:**	02/08/2012 23:00
	Project Number:	Yee Property	**Sampling Date:**	02/07/2012 07:48
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-5	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Drinking Water
	Delivery Work Order:			
	Global ID: T0600102122			
	Location ID (FieldPoint): MW-5			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1202338-06	**COC Number:**	---	**Receive Date:**	02/08/2012 23:00
	Project Number:	Yee Property	**Sampling Date:**	02/07/2012 08:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-6	**Lab Matrix:**	Water
	Sampled By:	ASED	**Sample Type:**	Drinking Water
	Delivery Work Order:			
	Global ID: T0600102122			
	Location ID (FieldPoint): MW-6			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			

Aqua Science Engineers, Inc.
55 Oak Court, Ste. 220
Danville, CA 94526

Reported: 02/15/2012 15:53
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202338-01 | **Client Sample Name:** Yee Property, MW-1, 2/7/2012 8:32:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**46**	**ug/L**	**0.50**	**0.083**	**EPA-8260**	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Ethylbenzene	**4.2**	**ug/L**	**0.50**	**0.098**	**EPA-8260**	ND		1
Methyl t-butyl ether	**3800**	**ug/L**	**25**	**5.5**	**EPA-8260**	ND	**A01**	2
Toluene	**1.7**	**ug/L**	**0.50**	**0.093**	**EPA-8260**	ND		1
Total Xylenes	**4.5**	**ug/L**	**1.0**	**0.36**	**EPA-8260**	ND		1
p- & m-Xylenes	**4.0**	**ug/L**	**0.50**	**0.28**	**EPA-8260**	ND		1
o-Xylene	**0.52**	**ug/L**	**0.50**	**0.082**	**EPA-8260**	ND		1
Total Purgeable Petroleum Hydrocarbons	**370**	**ug/L**	**50**	**7.2**	**Luft-GC/MS**	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.6	%	76 - 114 (LCL - UCL)		EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	93.2	%	76 - 114 (LCL - UCL)		EPA-8260			2
Toluene-d8 (Surrogate)	96.5	%	88 - 110 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	93.3	%	88 - 110 (LCL - UCL)		EPA-8260			2
4-Bromofluorobenzene (Surrogate)	103	%	86 - 115 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	108	%	86 - 115 (LCL - UCL)		EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/10/12	02/10/12 15:42	JMC	MS-V12	1	BVB0806
2	EPA-8260	02/10/12	02/14/12 13:13	JMC	MS-V12	50	BVB0806

Aqua Science Engineers, Inc.
55 Oak Court, Ste. 220
Danville, CA 94526

Reported: 02/15/2012 15:53
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202338-02 | **Client Sample Name:** Yee Property, MW-2, 2/7/2012 7:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	7.2	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	90.1	%	76 - 114 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	94.6	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	110	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/10/12	02/13/12 15:21	JMC	MS-V12	1	BVB0691

Aqua Science Engineers, Inc.
55 Oak Court, Ste. 220
Danville, CA 94526

Reported: 02/15/2012 15:53
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202338-03 | **Client Sample Name:** Yee Property, MW-3, 2/7/2012 8:16:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260	ND		1
Methyl t-butyl ether	**2.1**	**ug/L**	**0.50**	**0.11**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**25**	**ug/L**	**50**	**7.2**	**Luft-GC/MS**	ND	**J**	1
1,2-Dichloroethane-d4 (Surrogate)	91.2	%	76 - 114 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	90.7	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/10/12	02/10/12 15:06	JMC	MS-V12	1	BVB0691

Aqua Science Engineers, Inc.
55 Oak Court, Ste. 220
Danville, CA 94526

Reported: 02/15/2012 15:53
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202338-04 | **Client Sample Name:** Yee Property, MW-4, 2/7/2012 8:52:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260	ND		1
Methyl t-butyl ether	**17**	**ug/L**	**0.50**	**0.11**	**EPA-8260**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**210**	**ug/L**	**50**	**7.2**	**Luft-GC/MS**	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.4	%	76 - 114 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	97.0	%	88 - 110 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	105	%	86 - 115 (LCL - UCL)		EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/10/12	02/10/12 14:49	JMC	MS-V12	1	BVB0691

Aqua Science Engineers, Inc.
55 Oak Court, Ste. 220
Danville, CA 94526

Reported: 02/15/2012 15:53
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202338-05 | **Client Sample Name:** Yee Property, MW-5, 2/7/2012 7:48:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**890**	**ug/L**	**100**	**17**	**EPA-8260**	ND	**A01**	1
1,2-Dibromoethane	ND	ug/L	6.2	2.0	EPA-8260	ND	A01	2
1,2-Dichloroethane	ND	ug/L	6.2	2.1	EPA-8260	ND	A01	2
Ethylbenzene	**360**	**ug/L**	**6.2**	**1.2**	**EPA-8260**	ND	**A01**	2
Methyl t-butyl ether	**17000**	**ug/L**	**100**	**22**	**EPA-8260**	ND	**A01**	1
Toluene	**410**	**ug/L**	**6.2**	**1.2**	**EPA-8260**	ND	**A01**	2
Total Xylenes	**990**	**ug/L**	**12**	**4.5**	**EPA-8260**	ND	**A01**	2
p- & m-Xylenes	**830**	**ug/L**	**6.2**	**3.5**	**EPA-8260**	ND	**A01**	2
o-Xylene	**160**	**ug/L**	**6.2**	**1.0**	**EPA-8260**	ND	**A01**	2
Total Purgeable Petroleum Hydrocarbons	**19000**	**ug/L**	**620**	**90**	**Luft-GC/MS**	ND	**A01**	2
1,2-Dichloroethane-d4 (Surrogate)	92.5	%	76 - 114 (LCL - UCL)		EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	91.9	%	76 - 114 (LCL - UCL)		EPA-8260			2
Toluene-d8 (Surrogate)	95.4	%	88 - 110 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	96.5	%	88 - 110 (LCL - UCL)		EPA-8260			2
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)		EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/10/12	02/13/12 16:13	JMC	MS-V12	200	BVB0691
2	EPA-8260	02/10/12	02/10/12 14:31	JMC	MS-V12	12.500	BVB0691

Aqua Science Engineers, Inc.
55 Oak Court, Ste. 220
Danville, CA 94526

Reported: 02/15/2012 15:53
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202338-06 | **Client Sample Name:** Yee Property, MW-6, 2/7/2012 8:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-8260	ND		1
1,2-Dichloroethane	**0.79**	**ug/L**	**0.50**	**0.17**	**EPA-8260**	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-8260	ND		1
Methyl t-butyl ether	**970**	**ug/L**	**10**	**2.2**	**EPA-8260**	ND	**A01**	2
Toluene	ND	ug/L	0.50	0.093	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	0.36	EPA-8260	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-8260	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**410**	**ug/L**	**50**	**7.2**	**Luft-GC/MS**	ND	**A90**	1
1,2-Dichloroethane-d4 (Surrogate)	91.7	%	76 - 114 (LCL - UCL)		EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	92.2	%	76 - 114 (LCL - UCL)		EPA-8260			2
Toluene-d8 (Surrogate)	95.8	%	88 - 110 (LCL - UCL)		EPA-8260			1
Toluene-d8 (Surrogate)	97.6	%	88 - 110 (LCL - UCL)		EPA-8260			2
4-Bromofluorobenzene (Surrogate)	103	%	86 - 115 (LCL - UCL)		EPA-8260			1
4-Bromofluorobenzene (Surrogate)	106	%	86 - 115 (LCL - UCL)		EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/10/12	02/10/12 14:13	JMC	MS-V12	1	BVB0691
2	EPA-8260	02/10/12	02/13/12 15:55	JMC	MS-V12	20	BVB0691

Aqua Science Engineers, Inc.
55 Oak Court, Ste. 220
Danville, CA 94526

Reported: 02/15/2012 15:53
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

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: BVB0691						
Benzene	BVB0691-BLK1	ND	ug/L	0.50	0.083	
1,2-Dibromoethane	BVB0691-BLK1	ND	ug/L	0.50	0.16	
1,2-Dichloroethane	BVB0691-BLK1	ND	ug/L	0.50	0.17	
Ethylbenzene	BVB0691-BLK1	ND	ug/L	0.50	0.098	
Methyl t-butyl ether	BVB0691-BLK1	ND	ug/L	0.50	0.11	
Toluene	BVB0691-BLK1	ND	ug/L	0.50	0.093	
Total Xylenes	BVB0691-BLK1	ND	ug/L	1.0	0.36	
p- & m-Xylenes	BVB0691-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVB0691-BLK1	ND	ug/L	0.50	0.082	
Total Purgeable Petroleum Hydrocarbons	BVB0691-BLK1	ND	ug/L	50	7.2	
1,2-Dichloroethane-d4 (Surrogate)	BVB0691-BLK1	96.4	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVB0691-BLK1	97.1	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVB0691-BLK1	98.5	%	86 - 115 (LCL - UCL)		
QC Batch ID: BVB0806						
Benzene	BVB0806-BLK1	ND	ug/L	0.50	0.083	
1,2-Dibromoethane	BVB0806-BLK1	ND	ug/L	0.50	0.16	
1,2-Dichloroethane	BVB0806-BLK1	ND	ug/L	0.50	0.17	
Ethylbenzene	BVB0806-BLK1	ND	ug/L	0.50	0.098	
Methyl t-butyl ether	BVB0806-BLK1	ND	ug/L	0.50	0.11	
Toluene	BVB0806-BLK1	ND	ug/L	0.50	0.093	
Total Xylenes	BVB0806-BLK1	ND	ug/L	1.0	0.36	
p- & m-Xylenes	BVB0806-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BVB0806-BLK1	ND	ug/L	0.50	0.082	
Total Purgeable Petroleum Hydrocarbons	BVB0806-BLK1	ND	ug/L	50	7.2	
1,2-Dichloroethane-d4 (Surrogate)	BVB0806-BLK1	93.2	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVB0806-BLK1	96.8	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVB0806-BLK1	101	%	86 - 115 (LCL - UCL)		

Aqua Science Engineers, Inc.
55 Oak Court, Ste. 220
Danville, CA 94526

Reported: 02/15/2012 15:53
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

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: BVB0691										
Benzene	BVB0691-BS1	LCS	21.880	25.000	ug/L	87.5		70 - 130		
Toluene	BVB0691-BS1	LCS	20.370	25.000	ug/L	81.5		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVB0691-BS1	LCS	9.3300	10.000	ug/L	93.3		76 - 114		
Toluene-d8 (Surrogate)	BVB0691-BS1	LCS	9.6500	10.000	ug/L	96.5		88 - 110		
4-Bromofluorobenzene (Surrogate)	BVB0691-BS1	LCS	10.320	10.000	ug/L	103		86 - 115		
QC Batch ID: BVB0806										
Benzene	BVB0806-BS1	LCS	24.920	25.000	ug/L	99.7		70 - 130		
Toluene	BVB0806-BS1	LCS	22.900	25.000	ug/L	91.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVB0806-BS1	LCS	9.2600	10.000	ug/L	92.6		76 - 114		
Toluene-d8 (Surrogate)	BVB0806-BS1	LCS	9.6000	10.000	ug/L	96.0		88 - 110		
4-Bromofluorobenzene (Surrogate)	BVB0806-BS1	LCS	10.130	10.000	ug/L	101		86 - 115		

Aqua Science Engineers, Inc.
55 Oak Court, Ste. 220
Danville, CA 94526

Reported: 02/15/2012 15:53
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

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: BVB0691	Used client sample: N										
Benzene	MS	1201079-51	ND	24.390	25.000	ug/L		97.6		70 - 130	
	MSD	1201079-51	ND	22.110	25.000	ug/L	9.8	88.4	20	70 - 130	
Toluene	MS	1201079-51	ND	23.100	25.000	ug/L		92.4		70 - 130	
	MSD	1201079-51	ND	21.180	25.000	ug/L	8.7	84.7	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1201079-51	ND	9.3700	10.000	ug/L		93.7		76 - 114	
	MSD	1201079-51	ND	9.4000	10.000	ug/L	0.3	94.0		76 - 114	
Toluene-d8 (Surrogate)	MS	1201079-51	ND	9.6500	10.000	ug/L		96.5		88 - 110	
	MSD	1201079-51	ND	9.8300	10.000	ug/L	1.8	98.3		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1201079-51	ND	10.240	10.000	ug/L		102		86 - 115	
	MSD	1201079-51	ND	10.080	10.000	ug/L	1.6	101		86 - 115	
QC Batch ID: BVB0806	Used client sample: N										
Benzene	MS	1202328-02	ND	20.090	25.000	ug/L		80.4		70 - 130	
	MSD	1202328-02	ND	23.470	25.000	ug/L	15.5	93.9	20	70 - 130	
Toluene	MS	1202328-02	ND	21.420	25.000	ug/L		85.7		70 - 130	
	MSD	1202328-02	ND	22.650	25.000	ug/L	5.6	90.6	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1202328-02	ND	9.0600	10.000	ug/L		90.6		76 - 114	
	MSD	1202328-02	ND	8.6800	10.000	ug/L	4.3	86.8		76 - 114	
Toluene-d8 (Surrogate)	MS	1202328-02	ND	9.8400	10.000	ug/L		98.4		88 - 110	
	MSD	1202328-02	ND	9.8700	10.000	ug/L	0.3	98.7		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1202328-02	ND	10.300	10.000	ug/L		103		86 - 115	
	MSD	1202328-02	ND	10.430	10.000	ug/L	1.3	104		86 - 115	

Aqua Science Engineers, Inc.
55 Oak Court, Ste. 220
Danville, CA 94526

Reported: 02/15/2012 15:53
Project: Yee
Project Number: 3412
Project Manager: Robert Kitay

Notes And Definitions

J	Estimated Value (CLP Flag)
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.

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 02/24/2012

Kathy Brandt

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Project:	0752
BC Work Order:	1202467
Invoice ID:	B116924

Enclosed are the results of analyses for samples received by the laboratory on 2/7/2012. 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

Table of Contents

CHAIN OF CUSTODY FORM

12-024607

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

COC 1 of ✓

Union Oil Site ID: 0752	Union Oil Consultant: Arcadis
Site Global ID: T0600101486	Consultant Contact: Kathy Brandt
Site Address: 800 Harrison St Oakland	Consultant Phone No.: 510-596-9675
	Sampling Company: TRC
Union Oil PM: Roya Rambin	Sampled By (PRINT): Basilio
Union Oil PM Phone No.: 925-790-6270	Sampler Signature:
Charge Code: NWRTB-0 351646-0-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: 8015-Gas, No 8015-Diesel. per Rick. MM 2/8

SAMPLE ID: Field Point Name	Matrix	DTW	Date (yymmdd)	Sample Time	# of Containers	TPH-Diesel by EPA 8015	TPH-G by GC/MS 8015B (C6-C12)	BTEX/MTBE/GC/MS by EPA 8260B	Ethanol by EPA 8260B	EPA 8260B Full List with OXYS	EDB/EDC by 8260B	Notes / Comments
A-MW-6	W-S-A	-1	2-7-12	0756	6	X	X	X			X	
A-MW-7	W-S-A	-2		0820		↓	↓	↓			↓	
A-MW-5	W-S-A	-3		1145								
A-MW-3	W-S-A	-4		0847								
A-MW-4	W-S-A	-5		0914								
A-MW-1	W-S-A	-6		1006								
A-MW-2	W-S-A	-7	↓	0934	↓	↓	↓	↓			↓	
	W-S-A											
	W-S-A											
	W-S-A											
	W-S-A											
	W-S-A											

CHK BY: [signature] DISTRIBUTION: WHITE ☑ YELLOW ☑ PINK ☑ SUB-OUT ☐

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time:
[signature]	TRC	2-7-12 1315	Gary Logan	BCLabs	2-7-12 1900	RL Rumbin	BCL	2-7-12 2140
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time:**
Gary Logan	BCLabs	2/7/12 1405	RL Rumbin	BCL	2-7-12 1900	[signature]	BCL	2-7-12 2140

CHAIN OF CUSTODY FORM

#12-02467 Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583 COC 1 of 2

Union Oil Site ID: 0752	Union Oil Consultant: ARCADIS
Site Global ID: T0600101486	Consultant Contact: KATHY BRANDT
Site Address: 800 HARRISON ST, OAKLAND	Consultant Phone No.: 510-596-9675
Union Oil PM: KOYA KAMBIN	Sampling Company: TRC
Union Oil PM Phone No.: 925-790-6270	Sampled By (PRINT): Rick Rodriguez
Charge Code: NWRTB-0 351646 -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

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	TPH-G by 8015B (C6-C12)	8260B/EDC by 8260B	STLC's by 8260	Dissolved Metals (CD,CR,PB,NI) by 6010	ZN by 6010		Notes / Comments
MW-8	W-S-A	-8	12/02/07	0745	6			X			X	X					
MW-4	W-S-A	-9		0820	6												
MW-1	W-S-A	-10		0845	9								X	X	X		
MW-6	W-S-A	-11		0915	6												
MW-2	W-S-A	-12		1000	6												
MW-3	W-S-A	-13		1020	6												
MW-7	W-S-A	-14		1053	6												
MW-5	W-S-A	-15		1037	6												
	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	2/07/12 - 1300	Gary Bogan	BCLABS	2/7/12 1900	R.L. Ruy	BCC	2.7.12 2140
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time :**	**Received By**	**Company**	**Date / Time:**
Gary Bogan	BCLABS	2/7/12 1405	R.L. Ruy	BCC	2.7.12 1900		BCL	2-7-12 2140

Chain of Custody and Cooler Receipt Form for 1202467 Page 3 of 4

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 2

Submission #: 12-024607

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: 0+A Thermometer ID: 177

Temperature: A 0.3 °C / C 0.7 °C

Date/Time 2-7-12 Analyst Init JNW 2125

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED						B BT 2/10				B
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 16	A 16	A 16	A 16	A 16	A 16	A 16	A 16	A 16	A 16
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						C,D BT 2/10				C,D
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: BLT Date/Time: 2/10/12@1620
A = Actual / C = Corrected

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

Chain of Custody and Cooler Receipt Form for 1202467 Page 4 of 4

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 2 Of 2

Submission #: 12-02467

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: 8TA Thermometer ID: 177
Temperature: A 0.2 °C / C 0.7 °C

Date/Time 2-7-12
Analyst Init JNW 2125

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 16	A 16	A 16	A 16	A 16	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:
Sample Numbering Completed By: BLT Date/Time: 2/10/12 @ 1020
A = Actual / C = Corrected

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

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/24/2012 16:12
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1202467-01	**COC Number:**	---	**Receive Date:**	02/07/2012 21:40
	Project Number:	0752	**Sampling Date:**	02/07/2012 07:56
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	A-MW-6-W-120207	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T0600101486			
	Location ID (FieldPoint): A-MW-6			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1202467-02	**COC Number:**	---	**Receive Date:**	02/07/2012 21:40
	Project Number:	0752	**Sampling Date:**	02/07/2012 08:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	A-MW-7-W-120207	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T0600101486			
	Location ID (FieldPoint): A-MW-7			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1202467-03	**COC Number:**	---	**Receive Date:**	02/07/2012 21:40
	Project Number:	0752	**Sampling Date:**	02/07/2012 11:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	A-MW-5-W-120207	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T0600101486			
	Location ID (FieldPoint): A-MW-5			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/24/2012 16:12
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1202467-04	**COC Number:**	---	**Receive Date:**	02/07/2012 21:40
	Project Number:	0752	**Sampling Date:**	02/07/2012 08:47
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	A-MW-3-W-120207	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101486	
			Location ID (FieldPoint): A-MW-3	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1202467-05	**COC Number:**	---	**Receive Date:**	02/07/2012 21:40
	Project Number:	0752	**Sampling Date:**	02/07/2012 09:14
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	A-MW-4-W-120207	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101486	
			Location ID (FieldPoint): A-MW-4	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1202467-06	**COC Number:**	---	**Receive Date:**	02/07/2012 21:40
	Project Number:	0752	**Sampling Date:**	02/07/2012 10:06
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	A-MW-1-W-120207	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101486	
			Location ID (FieldPoint): A-MW-1	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/24/2012 16:12
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1202467-07	**COC Number:**	---	**Receive Date:**	02/07/2012 21:40
	Project Number:	0752	**Sampling Date:**	02/07/2012 09:34
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	A-MW-2-W-120207	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101486	
			Location ID (FieldPoint): A-MW-2	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1202467-08	**COC Number:**	---	**Receive Date:**	02/07/2012 21:40
	Project Number:	0752	**Sampling Date:**	02/07/2012 07:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-8-W-120207	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101486	
			Location ID (FieldPoint): MW-8	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1202467-09	**COC Number:**	---	**Receive Date:**	02/07/2012 21:40
	Project Number:	0752	**Sampling Date:**	02/07/2012 08:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-4-W-120207	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101486	
			Location ID (FieldPoint): MW-4	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/24/2012 16:12
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1202467-10	**COC Number:**	---	**Receive Date:** 02/07/2012 21:40
	Project Number:	0752	**Sampling Date:** 02/07/2012 08:45
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1-W-120207	**Lab Matrix:** Water
	Sampled By:	TRCI	**Sample Type:** Water
			Metal Analysis: 2-Lab Filtered and Acidified
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): MW-1
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1202467-11	**COC Number:**	---	**Receive Date:** 02/07/2012 21:40
	Project Number:	0752	**Sampling Date:** 02/07/2012 09:15
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-6-W-120207	**Lab Matrix:** Water
	Sampled By:	TRCI	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): MW-6
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1202467-12	**COC Number:**	---	**Receive Date:** 02/07/2012 21:40
	Project Number:	0752	**Sampling Date:** 02/07/2012 10:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-2-W-120207	**Lab Matrix:** Water
	Sampled By:	TRCI	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T0600101486
			Location ID (FieldPoint): MW-2
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/24/2012 16:12
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1202467-13	**COC Number:**	---	**Receive Date:**	02/07/2012 21:40
	Project Number:	0752	**Sampling Date:**	02/07/2012 10:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3-W-120207	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101486	
			Location ID (FieldPoint): MW-3	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1202467-14	**COC Number:**	---	**Receive Date:**	02/07/2012 21:40
	Project Number:	0752	**Sampling Date:**	02/07/2012 10:53
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-7-W-120207	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101486	
			Location ID (FieldPoint): MW-7	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1202467-15	**COC Number:**	---	**Receive Date:**	02/07/2012 21:40
	Project Number:	0752	**Sampling Date:**	02/07/2012 10:37
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-5-W-120207	**Lab Matrix:**	Water
	Sampled By:	TRCI	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101486	
			Location ID (FieldPoint): MW-5	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/24/2012 16:12
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202467-01 | **Client Sample Name:** 0752, A-MW-6-W-120207, 2/7/2012 7:56:00AM

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
1,2-Dichloroethane-d4 (Surrogate)	91.8	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	91.7	%	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	02/13/12	02/13/12 14:07	JMC	MS-V12	1	BVB0937

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/24/2012 16:12
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1202467-01 | **Client Sample Name:** 0752, A-MW-6-W-120207, 2/7/2012 7:56:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	78.8	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/10/12	02/13/12 18:47	jjh	GC-V4	1	BVB0841

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/24/2012 16:12
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202467-02 | **Client Sample Name:** 0752, A-MW-7-W-120207, 2/7/2012 8:20:00AM

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	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
1,2-Dichloroethane-d4 (Surrogate)	90.9	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	92.6	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	105	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/13/12	02/13/12 13:49	JMC	MS-V12	1	BVB0937

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/24/2012 16:12
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1202467-02 | **Client Sample Name:** 0752, A-MW-7-W-120207, 2/7/2012 8:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	85.5	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/10/12	02/13/12 21:04	jjh	GC-V4	1	BVB0841

Arcadis
1900 Powell Street 12th Floor
Emeryville, CA 94608

Reported: 02/24/2012 16:12
Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202467-03 | **Client Sample Name:** 0752, A-MW-5-W-120207, 2/7/2012 11:45:00AM

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	**190**	**ug/L**	**1.0**	**EPA-8260**	ND	**A01**	2
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**1.6**	**ug/L**	**1.0**	**EPA-8260**	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.5	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	90.2	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	95.6	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	93.5	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/13/12	02/13/12 13:31	JMC	MS-V12	1	BVB0937
2	EPA-8260	02/13/12	02/14/12 12:55	JMC	MS-V12	2	BVB0937

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1202467-03 | **Client Sample Name:** 0752, A-MW-5-W-120207, 2/7/2012 11:45:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	77.8	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/10/12	02/13/12 21:26	jjh	GC-V4	1	BVB0841

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202467-04 | **Client Sample Name:** 0752, A-MW-3-W-120207, 2/7/2012 8:47:00AM

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	**110**	**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
1,2-Dichloroethane-d4 (Surrogate)	91.6	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	94.7	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	93.2	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	87.7	%	88 - 110 (LCL - UCL)	EPA-8260		S09	2
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	106	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/13/12	02/13/12 13:14	JMC	MS-V12	1	BVB0937
2	EPA-8260	02/13/12	02/14/12 12:38	JMC	MS-V12	2	BVB0937

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Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1202467-04 | **Client Sample Name:** 0752, A-MW-3-W-120207, 2/7/2012 8:47:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	79.4	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/10/12	02/13/12 21:48	jjh	GC-V4	1	BVB0841

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202467-05 | **Client Sample Name:** 0752, A-MW-4-W-120207, 2/7/2012 9:14:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**140**	**ug/L**	**5.0**	**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	**21**	**ug/L**	**0.50**	**EPA-8260**	ND		2
Methyl t-butyl ether	**430**	**ug/L**	**5.0**	**EPA-8260**	ND	**A01**	1
Toluene	**15**	**ug/L**	**0.50**	**EPA-8260**	ND		2
Total Xylenes	**32**	**ug/L**	**1.0**	**EPA-8260**	ND		2
1,2-Dichloroethane-d4 (Surrogate)	91.0	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	90.7	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	92.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	94.9	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	109	%	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	02/13/12	02/14/12 12:20	JMC	MS-V12	10	BVB0937
2	EPA-8260	02/13/12	02/13/12 12:56	JMC	MS-V12	1	BVB0937

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1202467-05 | **Client Sample Name:** 0752, A-MW-4-W-120207, 2/7/2012 9:14:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**1800**	**ug/L**	**50**	**EPA-8015B**	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	98.1	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/10/12	02/13/12 22:11	jjh	GC-V4	1	BVB0841

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Project: 0752
Project Number: 351646
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202467-06 | **Client Sample Name:** 0752, A-MW-1-W-120207, 2/7/2012 10:06:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**1000**	**ug/L**	**10**	**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	**230**	**ug/L**	**5.0**	**EPA-8260**	ND	**A01**	2
Methyl t-butyl ether	**420**	**ug/L**	**5.0**	**EPA-8260**	ND	**A01**	2
Toluene	**260**	**ug/L**	**5.0**	**EPA-8260**	ND	**A01**	2
Total Xylenes	**610**	**ug/L**	**10**	**EPA-8260**	ND	**A01**	2
1,2-Dichloroethane-d4 (Surrogate)	92.1	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	90.4	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	94.2	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	93.5	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	105	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	110	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/13/12	02/14/12 12:03	JMC	MS-V12	20	BVB0937
2	EPA-8260	02/13/12	02/14/12 11:10	JMC	MS-V12	10	BVB0937

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Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1202467-06 | **Client Sample Name:** 0752, A-MW-1-W-120207, 2/7/2012 10:06:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**8900**	**ug/L**	**1000**	**EPA-8015B**	ND	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	95.5	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/10/12	02/13/12 22:34	jjh	GC-V4	20	BVB0841

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202467-07 | **Client Sample Name:** 0752, A-MW-2-W-120207, 2/7/2012 9:34:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**1100**	**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	**990**	**ug/L**	**5.0**	**EPA-8260**	ND	**A01**	2
Methyl t-butyl ether	**1600**	**ug/L**	**25**	**EPA-8260**	ND	**A01**	1
Toluene	**3600**	**ug/L**	**25**	**EPA-8260**	ND	**A01**	1
Total Xylenes	**4200**	**ug/L**	**50**	**EPA-8260**	ND	**A01**	1
1,2-Dichloroethane-d4 (Surrogate)	94.3	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	94.5	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	96.1	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	95.1	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	106	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	106	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/13/12	02/14/12 11:45	JMC	MS-V12	50	BVB0937
2	EPA-8260	02/13/12	02/13/12 12:21	JMC	MS-V12	10	BVB0937

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1202467-07 | **Client Sample Name:** 0752, A-MW-2-W-120207, 2/7/2012 9:34:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**36000**	**ug/L**	**2500**	**EPA-8015B**	ND	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	103	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/10/12	02/13/12 22:58	jjh	GC-V4	50	BVB0841

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Project Number: 351646
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202467-08 | **Client Sample Name:** 0752, MW-8-W-120207, 2/7/2012 7:45:00AM

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	**0.75**	**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
1,2-Dichloroethane-d4 (Surrogate)	91.5	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	92.0	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/13/12	02/13/12 12:04	JMC	MS-V12	1	BVB0938

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1202467-08 | **Client Sample Name:** 0752, MW-8-W-120207, 2/7/2012 7:45:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	78.5	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/10/12	02/13/12 23:21	jjh	GC-V4	1	BVB0841

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202467-09 | **Client Sample Name:** 0752, MW-4-W-120207, 2/7/2012 8:20:00AM

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	**1.5**	**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
1,2-Dichloroethane-d4 (Surrogate)	88.8	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	92.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/13/12	02/13/12 11:46	JMC	MS-V12	1	BVB0937

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1202467-09 | **Client Sample Name:** 0752, MW-4-W-120207, 2/7/2012 8:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	83.2	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/10/12	02/13/12 23:44	jjh	GC-V4	1	BVB0841

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Project: 0752
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202467-10 | **Client Sample Name:** 0752, MW-1-W-120207, 2/7/2012 8:45:00AM

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	**8.6**	**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
1,2-Dichloroethane-d4 (Surrogate)	92.6	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	92.0	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	106	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/13/12	02/13/12 11:29	JMC	MS-V12	1	BVB0937

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Project: 0752
Project Number: 351646
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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1202467-10 | **Client Sample Name:** 0752, MW-1-W-120207, 2/7/2012 8:45:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	5.0	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	EPA-8270C	ND		1

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Project: 0752
Project Number: 351646
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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1202467-10 | **Client Sample Name:** 0752, MW-1-W-120207, 2/7/2012 8:45:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	EPA-8270C	ND		1

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Project: 0752
Project Number: 351646
Project Manager: Kathy Brandt

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 1202467-10 | **Client Sample Name:** 0752, MW-1-W-120207, 2/7/2012 8:45:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	49.0	%	20 - 120 (LCL - UCL)	EPA-8270C			1
Phenol-d5 (Surrogate)	29.6	%	10 - 110 (LCL - UCL)	EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	106	%	55 - 150 (LCL - UCL)	EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	92.0	%	51 - 130 (LCL - UCL)	EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	89.0	%	44 - 160 (LCL - UCL)	EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	91.6	%	30 - 160 (LCL - UCL)	EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	02/14/12	02/17/12 06:05	SKC	MS-B2	1	BVB1042

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1202467-10 | **Client Sample Name:** 0752, MW-1-W-120207, 2/7/2012 8:45:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**97**	**ug/L**	**50**	**EPA-8015B**	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	80.2	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/10/12	02/14/12 00:07	jjh	GC-V4	1	BVB0841

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Water Analysis (Metals)

BCL Sample ID: 1202467-10 | **Client Sample Name:** 0752, MW-1-W-120207, 2/7/2012 8:45:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Dissolved Cadmium	ND	ug/L	10	EPA-6010B	ND		1
Dissolved Chromium	ND	ug/L	10	EPA-6010B	ND		1
Dissolved Lead	ND	ug/L	50	EPA-6010B	ND		1
Dissolved Nickel	ND	ug/L	10	EPA-6010B	ND		1
Dissolved Zinc	ND	ug/L	10	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	02/13/12	02/15/12 09:38	ARD	PE-OP1	1	BVB0968

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202467-11 | **Client Sample Name:** 0752, MW-6-W-120207, 2/7/2012 9:15:00AM

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	**29**	**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
1,2-Dichloroethane-d4 (Surrogate)	92.0	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	92.8	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	105	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/13/12	02/13/12 11:11	JMC	MS-V12	1	BVB0937

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Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1202467-11 | **Client Sample Name:** 0752, MW-6-W-120207, 2/7/2012 9:15:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**450**	**ug/L**	**50**	**EPA-8015B**	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	83.3	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/10/12	02/14/12 00:31	jjh	GC-V4	1	BVB0841

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202467-12 | **Client Sample Name:** 0752, MW-2-W-120207, 2/7/2012 10:00:00AM

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
1,2-Dichloroethane-d4 (Surrogate)	91.2	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	88.3	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	103	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/13/12	02/13/12 10:54	JMC	MS-V12	1	BVB0937

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1202467-12 | **Client Sample Name:** 0752, MW-2-W-120207, 2/7/2012 10:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50	EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	76.7	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/14/12	02/14/12 18:23	jjh	GC-V4	1	BVB0952

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Project: 0752
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202467-13 | **Client Sample Name:** 0752, MW-3-W-120207, 2/7/2012 10:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**6.7**	**ug/L**	**1.0**	**EPA-8260**	ND	**A01**	1
1,2-Dibromoethane	ND	ug/L	1.0	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	ug/L	1.0	EPA-8260	ND	A01	1
Ethylbenzene	**1.9**	**ug/L**	**1.0**	**EPA-8260**	ND	**A01**	1
Methyl t-butyl ether	**1600**	**ug/L**	**12**	**EPA-8260**	ND	**A01**	2
Toluene	ND	ug/L	1.0	EPA-8260	ND	A01	1
Total Xylenes	ND	ug/L	2.0	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	90.9	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	91.4	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	89.6	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	93.2	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	109	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	109	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/13/12	02/13/12 10:37	JMC	MS-V12	2	BVB0937
2	EPA-8260	02/13/12	02/14/12 11:28	JMC	MS-V12	25	BVB0937

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1202467-13 | **Client Sample Name:** 0752, MW-3-W-120207, 2/7/2012 10:20:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**1800**	**ug/L**	**500**	**EPA-8015B**	ND	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	84.2	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/14/12	02/15/12 17:12	jjh	GC-V4	10	BVB0952

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202467-14 | **Client Sample Name:** 0752, MW-7-W-120207, 2/7/2012 10:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**25**	**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	**9.0**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	**2.0**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Total Xylenes	**3.2**	**ug/L**	**1.0**	**EPA-8260**	ND		1
1,2-Dichloroethane-d4 (Surrogate)	90.5	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	92.3	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	108	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/13/12	02/13/12 10:19	JMC	MS-V12	1	BVB0937

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1202467-14 | **Client Sample Name:** 0752, MW-7-W-120207, 2/7/2012 10:53:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**310**	**ug/L**	**50**	**EPA-8015B**	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	85.9	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/14/12	02/14/12 21:02	jjh	GC-V4	1	BVB0952

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1202467-15 | **Client Sample Name:** 0752, MW-5-W-120207, 2/7/2012 10:37:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**58**	**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	**3.0**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Methyl t-butyl ether	**10**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Toluene	**11**	**ug/L**	**0.50**	**EPA-8260**	ND		1
Total Xylenes	**25**	**ug/L**	**1.0**	**EPA-8260**	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.0	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	94.2	%	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	02/13/12	02/13/12 10:02	JMC	MS-V12	1	BVB0937

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Project Manager: Kathy Brandt

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1202467-15 | **Client Sample Name:** 0752, MW-5-W-120207, 2/7/2012 10:37:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**1600**	**ug/L**	**500**	**EPA-8015B**	ND	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	88.0	%	70 - 130 (LCL - UCL)	EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	02/14/12	02/15/12 17:35	jjh	GC-V4	10	BVB0952

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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: BVB0937						
Benzene	BVB0937-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BVB0937-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BVB0937-BLK1	ND	ug/L	0.50		
Ethylbenzene	BVB0937-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BVB0937-BLK1	ND	ug/L	0.50		
Toluene	BVB0937-BLK1	ND	ug/L	0.50		
Total Xylenes	BVB0937-BLK1	ND	ug/L	1.0		
1,2-Dichloroethane-d4 (Surrogate)	BVB0937-BLK1	92.0	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVB0937-BLK1	96.9	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVB0937-BLK1	104	%	86 - 115 (LCL - UCL)		
QC Batch ID: BVB0938						
Benzene	BVB0938-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BVB0938-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BVB0938-BLK1	ND	ug/L	0.50		
Ethylbenzene	BVB0938-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BVB0938-BLK1	ND	ug/L	0.50		
Toluene	BVB0938-BLK1	ND	ug/L	0.50		
Total Xylenes	BVB0938-BLK1	ND	ug/L	1.0		
1,2-Dichloroethane-d4 (Surrogate)	BVB0938-BLK1	91.2	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BVB0938-BLK1	94.8	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BVB0938-BLK1	105	%	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: BVB0937										
Benzene	BVB0937-BS1	LCS	22.260	25.000	ug/L	89.0		70 - 130		
Toluene	BVB0937-BS1	LCS	22.300	25.000	ug/L	89.2		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVB0937-BS1	LCS	8.9100	10.000	ug/L	89.1		76 - 114		
Toluene-d8 (Surrogate)	BVB0937-BS1	LCS	9.9600	10.000	ug/L	99.6		88 - 110		
4-Bromofluorobenzene (Surrogate)	BVB0937-BS1	LCS	10.590	10.000	ug/L	106		86 - 115		
QC Batch ID: BVB0938										
Benzene	BVB0938-BS1	LCS	26.690	25.000	ug/L	107		70 - 130		
Toluene	BVB0938-BS1	LCS	25.020	25.000	ug/L	100		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BVB0938-BS1	LCS	8.9700	10.000	ug/L	89.7		76 - 114		
Toluene-d8 (Surrogate)	BVB0938-BS1	LCS	9.8700	10.000	ug/L	98.7		88 - 110		
4-Bromofluorobenzene (Surrogate)	BVB0938-BS1	LCS	10.650	10.000	ug/L	106		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: BVB0937	Used client sample: Y - Description: MW-2-W-120207, 02/07/2012 10:00										
Benzene	MS	1202467-12	ND	25.040	25.000	ug/L		100		70 - 130	
	MSD	1202467-12	ND	25.720	25.000	ug/L	2.7	103	20	70 - 130	
Toluene	MS	1202467-12	ND	22.580	25.000	ug/L		90.3		70 - 130	
	MSD	1202467-12	ND	22.570	25.000	ug/L	0.0	90.3	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1202467-12	ND	9.0600	10.000	ug/L		90.6		76 - 114	
	MSD	1202467-12	ND	8.9100	10.000	ug/L	1.7	89.1		76 - 114	
Toluene-d8 (Surrogate)	MS	1202467-12	ND	9.3600	10.000	ug/L		93.6		88 - 110	
	MSD	1202467-12	ND	9.2900	10.000	ug/L	0.8	92.9		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1202467-12	ND	10.370	10.000	ug/L		104		86 - 115	
	MSD	1202467-12	ND	10.120	10.000	ug/L	2.4	101		86 - 115	
QC Batch ID: BVB0938	Used client sample: Y - Description: MW-8-W-120207, 02/07/2012 07:45										
Benzene	MS	1202467-08	ND	27.360	25.000	ug/L		109		70 - 130	
	MSD	1202467-08	ND	24.710	25.000	ug/L	10.2	98.8	20	70 - 130	
Toluene	MS	1202467-08	ND	24.130	25.000	ug/L		96.5		70 - 130	
	MSD	1202467-08	ND	22.130	25.000	ug/L	8.6	88.5	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1202467-08	ND	8.9100	10.000	ug/L		89.1		76 - 114	
	MSD	1202467-08	ND	9.0200	10.000	ug/L	1.2	90.2		76 - 114	
Toluene-d8 (Surrogate)	MS	1202467-08	ND	9.3300	10.000	ug/L		93.3		88 - 110	
	MSD	1202467-08	ND	9.4300	10.000	ug/L	1.1	94.3		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1202467-08	ND	10.400	10.000	ug/L		104		86 - 115	
	MSD	1202467-08	ND	10.190	10.000	ug/L	2.0	102		86 - 115	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVB1042						
Acenaphthene	BVB1042-BLK1	ND	ug/L	2.0		
Acenaphthylene	BVB1042-BLK1	ND	ug/L	2.0		
Aldrin	BVB1042-BLK1	ND	ug/L	2.0		
Aniline	BVB1042-BLK1	ND	ug/L	5.0		
Anthracene	BVB1042-BLK1	ND	ug/L	2.0		
Benzidine	BVB1042-BLK1	ND	ug/L	20		
Benzo[a]anthracene	BVB1042-BLK1	ND	ug/L	2.0		
Benzo[b]fluoranthene	BVB1042-BLK1	ND	ug/L	2.0		
Benzo[k]fluoranthene	BVB1042-BLK1	ND	ug/L	2.0		
Benzo[a]pyrene	BVB1042-BLK1	ND	ug/L	2.0		
Benzo[g,h,i]perylene	BVB1042-BLK1	ND	ug/L	2.0		
Benzoic acid	BVB1042-BLK1	ND	ug/L	10		
Benzyl alcohol	BVB1042-BLK1	ND	ug/L	2.0		
Benzyl butyl phthalate	BVB1042-BLK1	ND	ug/L	2.0		
alpha-BHC	BVB1042-BLK1	ND	ug/L	2.0		
beta-BHC	BVB1042-BLK1	ND	ug/L	2.0		
delta-BHC	BVB1042-BLK1	ND	ug/L	2.0		
gamma-BHC (Lindane)	BVB1042-BLK1	ND	ug/L	2.0		
bis(2-Chloroethoxy)methane	BVB1042-BLK1	ND	ug/L	2.0		
bis(2-Chloroethyl) ether	BVB1042-BLK1	ND	ug/L	2.0		
bis(2-Chloroisopropyl)ether	BVB1042-BLK1	ND	ug/L	2.0		
bis(2-Ethylhexyl)phthalate	BVB1042-BLK1	ND	ug/L	5.0		
4-Bromophenyl phenyl ether	BVB1042-BLK1	ND	ug/L	2.0		
4-Chloroaniline	BVB1042-BLK1	ND	ug/L	2.0		
2-Chloronaphthalene	BVB1042-BLK1	ND	ug/L	2.0		
4-Chlorophenyl phenyl ether	BVB1042-BLK1	ND	ug/L	2.0		
Chrysene	BVB1042-BLK1	ND	ug/L	2.0		
4,4'-DDD	BVB1042-BLK1	ND	ug/L	2.0		
4,4'-DDE	BVB1042-BLK1	ND	ug/L	3.0		
4,4'-DDT	BVB1042-BLK1	ND	ug/L	2.0		
Dibenzo[a,h]anthracene	BVB1042-BLK1	ND	ug/L	3.0		
Dibenzofuran	BVB1042-BLK1	ND	ug/L	2.0		
1,2-Dichlorobenzene	BVB1042-BLK1	ND	ug/L	2.0		
1,3-Dichlorobenzene	BVB1042-BLK1	ND	ug/L	2.0		

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVB1042						
1,4-Dichlorobenzene	BVB1042-BLK1	ND	ug/L	2.0		
3,3-Dichlorobenzidine	BVB1042-BLK1	ND	ug/L	10		
Dieldrin	BVB1042-BLK1	ND	ug/L	3.0		
Diethyl phthalate	BVB1042-BLK1	ND	ug/L	2.0		
Dimethyl phthalate	BVB1042-BLK1	ND	ug/L	2.0		
Di-n-butyl phthalate	BVB1042-BLK1	ND	ug/L	2.0		
2,4-Dinitrotoluene	BVB1042-BLK1	ND	ug/L	2.0		
2,6-Dinitrotoluene	BVB1042-BLK1	ND	ug/L	2.0		
Di-n-octyl phthalate	BVB1042-BLK1	ND	ug/L	2.0		
1,2-Diphenylhydrazine	BVB1042-BLK1	ND	ug/L	2.0		
Endosulfan I	BVB1042-BLK1	ND	ug/L	10		
Endosulfan II	BVB1042-BLK1	ND	ug/L	10		
Endosulfan sulfate	BVB1042-BLK1	ND	ug/L	3.0		
Endrin	BVB1042-BLK1	ND	ug/L	2.0		
Endrin aldehyde	BVB1042-BLK1	ND	ug/L	10		
Fluoranthene	BVB1042-BLK1	ND	ug/L	2.0		
Fluorene	BVB1042-BLK1	ND	ug/L	2.0		
Heptachlor	BVB1042-BLK1	ND	ug/L	2.0		
Heptachlor epoxide	BVB1042-BLK1	ND	ug/L	2.0		
Hexachlorobenzene	BVB1042-BLK1	ND	ug/L	2.0		
Hexachlorobutadiene	BVB1042-BLK1	ND	ug/L	2.0		
Hexachlorocyclopentadiene	BVB1042-BLK1	ND	ug/L	2.0		
Hexachloroethane	BVB1042-BLK1	ND	ug/L	2.0		
Indeno[1,2,3-cd]pyrene	BVB1042-BLK1	ND	ug/L	2.0		
Isophorone	BVB1042-BLK1	ND	ug/L	2.0		
2-Methylnaphthalene	BVB1042-BLK1	ND	ug/L	2.0		
Naphthalene	BVB1042-BLK1	ND	ug/L	2.0		
2-Naphthylamine	BVB1042-BLK1	ND	ug/L	20		
2-Nitroaniline	BVB1042-BLK1	ND	ug/L	2.0		
3-Nitroaniline	BVB1042-BLK1	ND	ug/L	2.0		
4-Nitroaniline	BVB1042-BLK1	ND	ug/L	5.0		
Nitrobenzene	BVB1042-BLK1	ND	ug/L	2.0		
N-Nitrosodimethylamine	BVB1042-BLK1	ND	ug/L	2.0		
N-Nitrosodi-N-propylamine	BVB1042-BLK1	ND	ug/L	2.0		

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVB1042						
N-Nitrosodiphenylamine	BVB1042-BLK1	ND	ug/L	2.0		
Phenanthrene	BVB1042-BLK1	ND	ug/L	2.0		
Pyrene	BVB1042-BLK1	ND	ug/L	2.0		
1,2,4-Trichlorobenzene	BVB1042-BLK1	ND	ug/L	2.0		
4-Chloro-3-methylphenol	BVB1042-BLK1	ND	ug/L	5.0		
2-Chlorophenol	BVB1042-BLK1	ND	ug/L	2.0		
2,4-Dichlorophenol	BVB1042-BLK1	ND	ug/L	2.0		
2,4-Dimethylphenol	BVB1042-BLK1	ND	ug/L	2.0		
4,6-Dinitro-2-methylphenol	BVB1042-BLK1	ND	ug/L	10		
2,4-Dinitrophenol	BVB1042-BLK1	ND	ug/L	10		
2-Methylphenol	BVB1042-BLK1	ND	ug/L	2.0		
3- & 4-Methylphenol	BVB1042-BLK1	ND	ug/L	2.0		
2-Nitrophenol	BVB1042-BLK1	ND	ug/L	2.0		
4-Nitrophenol	BVB1042-BLK1	ND	ug/L	2.0		
Pentachlorophenol	BVB1042-BLK1	ND	ug/L	10		
Phenol	BVB1042-BLK1	ND	ug/L	2.0		
2,4,5-Trichlorophenol	BVB1042-BLK1	ND	ug/L	5.0		
2,4,6-Trichlorophenol	BVB1042-BLK1	ND	ug/L	5.0		
2-Fluorophenol (Surrogate)	BVB1042-BLK1	56.3	%	20 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	BVB1042-BLK1	35.8	%	10 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BVB1042-BLK1	92.6	%	55 - 150 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BVB1042-BLK1	86.7	%	51 - 130 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BVB1042-BLK1	88.7	%	44 - 160 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BVB1042-BLK1	81.9	%	30 - 160 (LCL - UCL)		

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

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: BVB1042										
Acenaphthene	BVB1042-BS1	LCS	39.989	50.000	ug/L	80.0		53 - 125		
1,4-Dichlorobenzene	BVB1042-BS1	LCS	37.706	50.000	ug/L	75.4		46 - 120		
2,4-Dinitrotoluene	BVB1042-BS1	LCS	43.878	50.000	ug/L	87.8		42 - 132		
Hexachlorobenzene	BVB1042-BS1	LCS	43.669	50.000	ug/L	87.3		60 - 120		
Hexachlorobutadiene	BVB1042-BS1	LCS	33.806	50.000	ug/L	67.6		40 - 120		
Hexachloroethane	BVB1042-BS1	LCS	37.219	50.000	ug/L	74.4		36 - 127		
Nitrobenzene	BVB1042-BS1	LCS	40.438	50.000	ug/L	80.9		50 - 136		
N-Nitrosodi-N-propylamine	BVB1042-BS1	LCS	29.746	50.000	ug/L	59.5		52 - 133		
Pyrene	BVB1042-BS1	LCS	40.111	50.000	ug/L	80.2		50 - 163		
1,2,4-Trichlorobenzene	BVB1042-BS1	LCS	35.788	50.000	ug/L	71.6		45 - 120		
4-Chloro-3-methylphenol	BVB1042-BS1	LCS	38.868	50.000	ug/L	77.7		56 - 126		
2-Chlorophenol	BVB1042-BS1	LCS	38.498	50.000	ug/L	77.0		46 - 116		
2-Methylphenol	BVB1042-BS1	LCS	31.688	50.000	ug/L	63.4		41 - 110		
3- & 4-Methylphenol	BVB1042-BS1	LCS	59.612	100.00	ug/L	59.6		40 - 110		
4-Nitrophenol	BVB1042-BS1	LCS	19.825	50.000	ug/L	39.6		25 - 71		
Pentachlorophenol	BVB1042-BS1	LCS	42.258	50.000	ug/L	84.5		34 - 135		
Phenol	BVB1042-BS1	LCS	15.037	50.000	ug/L	30.1		18 - 62		
2,4,6-Trichlorophenol	BVB1042-BS1	LCS	40.015	50.000	ug/L	80.0		53 - 138		
2-Fluorophenol (Surrogate)	BVB1042-BS1	LCS	40.113	80.000	ug/L	50.1		20 - 120		
Phenol-d5 (Surrogate)	BVB1042-BS1	LCS	28.295	80.000	ug/L	35.4		10 - 110		
Nitrobenzene-d5 (Surrogate)	BVB1042-BS1	LCS	70.991	80.000	ug/L	88.7		55 - 150		
2-Fluorobiphenyl (Surrogate)	BVB1042-BS1	LCS	71.749	80.000	ug/L	89.7		51 - 130		
2,4,6-Tribromophenol (Surrogate)	BVB1042-BS1	LCS	80.000	80.000	ug/L	100		44 - 160		
p-Terphenyl-d14 (Surrogate)	BVB1042-BS1	LCS	34.699	40.000	ug/L	86.7		30 - 160		

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

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: BVB1042	Used client sample: N										
Acenaphthene	MS	1110024-92	ND	38.080	50.000	ug/L		76.2		54 - 120	
	MSD	1110024-92	ND	38.888	50.000	ug/L	2.1	77.8	30	54 - 120	
1,4-Dichlorobenzene	MS	1110024-92	ND	33.978	50.000	ug/L		68.0		47 - 120	
	MSD	1110024-92	ND	38.244	50.000	ug/L	11.8	76.5	30	47 - 120	
2,4-Dinitrotoluene	MS	1110024-92	ND	41.964	50.000	ug/L		83.9		50 - 130	
	MSD	1110024-92	ND	43.661	50.000	ug/L	4.0	87.3	30	50 - 130	
Hexachlorobenzene	MS	1110024-92	ND	43.269	50.000	ug/L		86.5		62 - 120	
	MSD	1110024-92	ND	44.424	50.000	ug/L	2.6	88.8	30	62 - 120	
Hexachlorobutadiene	MS	1110024-92	ND	25.487	50.000	ug/L		51.0		40 - 120	
	MSD	1110024-92	ND	31.844	50.000	ug/L	22.2	63.7	30	40 - 120	
Hexachloroethane	MS	1110024-92	ND	31.718	50.000	ug/L		63.4		40 - 121	
	MSD	1110024-92	ND	36.786	50.000	ug/L	14.8	73.6	30	40 - 121	
Nitrobenzene	MS	1110024-92	ND	38.508	50.000	ug/L		77.0		55 - 133	
	MSD	1110024-92	ND	39.471	50.000	ug/L	2.5	78.9	30	55 - 133	
N-Nitrosodi-N-propylamine	MS	1110024-92	ND	30.728	50.000	ug/L		61.5		56 - 126	
	MSD	1110024-92	ND	31.302	50.000	ug/L	1.9	62.6	30	56 - 126	
Pyrene	MS	1110024-92	ND	39.117	50.000	ug/L		78.2		34 - 156	
	MSD	1110024-92	ND	40.784	50.000	ug/L	4.2	81.6	30	34 - 156	
1,2,4-Trichlorobenzene	MS	1110024-92	ND	30.001	50.000	ug/L		60.0		43 - 120	
	MSD	1110024-92	ND	33.739	50.000	ug/L	11.7	67.5	30	43 - 120	
4-Chloro-3-methylphenol	MS	1110024-92	ND	38.027	50.000	ug/L		76.1		50 - 120	
	MSD	1110024-92	ND	38.393	50.000	ug/L	1.0	76.8	30	50 - 120	
2-Chlorophenol	MS	1110024-92	ND	39.307	50.000	ug/L		78.6		50 - 120	
	MSD	1110024-92	ND	40.297	50.000	ug/L	2.5	80.6	30	50 - 120	
2-Methylphenol	MS	1110024-92	ND	31.819	50.000	ug/L		63.6		40 - 110	
	MSD	1110024-92	ND	32.213	50.000	ug/L	1.2	64.4	30	40 - 110	
3- & 4-Methylphenol	MS	1110024-92	ND	60.350	100.00	ug/L		60.4		38 - 110	
	MSD	1110024-92	ND	61.778	100.00	ug/L	2.3	61.8	30	38 - 110	
4-Nitrophenol	MS	1110024-92	ND	19.498	50.000	ug/L		39.0		21 - 70	
	MSD	1110024-92	ND	19.972	50.000	ug/L	2.4	39.9	30	21 - 70	
Pentachlorophenol	MS	1110024-92	ND	41.692	50.000	ug/L		83.4		39 - 125	
	MSD	1110024-92	ND	42.509	50.000	ug/L	1.9	85.0	30	39 - 125	
Phenol	MS	1110024-92	ND	14.897	50.000	ug/L		29.8		19 - 59	
	MSD	1110024-92	ND	15.123	50.000	ug/L	1.5	30.2	30	19 - 59	
2,4,6-Trichlorophenol	MS	1110024-92	ND	39.161	50.000	ug/L		78.3		60 - 140	
	MSD	1110024-92	ND	41.121	50.000	ug/L	4.9	82.2	30	60 - 140	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

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: BVB1042	Used client sample: N										
2-Fluorophenol (Surrogate)	MS	1110024-92	ND	42.102	80.000	ug/L		52.6		20 - 120	
	MSD	1110024-92	ND	45.247	80.000	ug/L	7.2	56.6		20 - 120	
Phenol-d5 (Surrogate)	MS	1110024-92	ND	28.193	80.000	ug/L		35.2		10 - 110	
	MSD	1110024-92	ND	29.046	80.000	ug/L	3.0	36.3		10 - 110	
Nitrobenzene-d5 (Surrogate)	MS	1110024-92	ND	69.139	80.000	ug/L		86.4		55 - 150	
	MSD	1110024-92	ND	69.315	80.000	ug/L	0.3	86.6		55 - 150	
2-Fluorobiphenyl (Surrogate)	MS	1110024-92	ND	68.247	80.000	ug/L		85.3		51 - 130	
	MSD	1110024-92	ND	71.272	80.000	ug/L	4.3	89.1		51 - 130	
2,4,6-Tribromophenol (Surrogate)	MS	1110024-92	ND	78.389	80.000	ug/L		98.0		44 - 160	
	MSD	1110024-92	ND	79.654	80.000	ug/L	1.6	99.6		44 - 160	
p-Terphenyl-d14 (Surrogate)	MS	1110024-92	ND	33.779	40.000	ug/L		84.4		30 - 160	
	MSD	1110024-92	ND	34.277	40.000	ug/L	1.5	85.7		30 - 160	

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVB0841						
Gasoline Range Organics (C6 - C12)	BVB0841-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BVB0841-BLK1	74.5	%	70 - 130 (LCL - UCL)		
QC Batch ID: BVB0952						
Gasoline Range Organics (C6 - C12)	BVB0952-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BVB0952-BLK1	80.1	%	70 - 130 (LCL - UCL)		

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Purgeable Aromatics and 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: BVB0841										
Gasoline Range Organics (C6 - C12)	BVB0841-BS1	LCS	1025.1		ug/L			85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BVB0841-BS1	LCS	34.322	40.000	ug/L	85.8		70 - 130		
QC Batch ID: BVB0952										
Gasoline Range Organics (C6 - C12)	BVB0952-BS1	LCS	971.48		ug/L			85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BVB0952-BS1	LCS	36.173	40.000	ug/L	90.4		70 - 130		

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Project: 0752
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Purgeable Aromatics and 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: BVB0841	Used client sample: N										
Gasoline Range Organics (C6 - C12)	MS	1201079-45	ND	1057.0		ug/L				70 - 130	
	MSD	1201079-45	ND	1048.6		ug/L	0.8		20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1201079-45	ND	34.741	40.000	ug/L		86.9		70 - 130	
	MSD	1201079-45	ND	35.282	40.000	ug/L	1.5	88.2		70 - 130	
QC Batch ID: BVB0952	Used client sample: N										
Gasoline Range Organics (C6 - C12)	MS	1201079-46	ND	1061.7		ug/L				70 - 130	
	MSD	1201079-46	ND	1041.1		ug/L	2.0		20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1201079-46	ND	35.280	40.000	ug/L		88.2		70 - 130	
	MSD	1201079-46	ND	36.156	40.000	ug/L	2.5	90.4		70 - 130	

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Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BVB0968						
Dissolved Cadmium	BVB0968-BLK1	ND	ug/L	10		
Dissolved Chromium	BVB0968-BLK1	ND	ug/L	10		
Dissolved Lead	BVB0968-BLK1	ND	ug/L	50		
Dissolved Nickel	BVB0968-BLK1	ND	ug/L	10		
Dissolved Zinc	BVB0968-BLK1	ND	ug/L	10		

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Water Analysis (Metals)

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: BVB0968										
Dissolved Cadmium	BVB0968-BS1	LCS	192.25	200.00	ug/L	96.1		85 - 115		
Dissolved Chromium	BVB0968-BS1	LCS	196.53	200.00	ug/L	98.3		85 - 115		
Dissolved Lead	BVB0968-BS1	LCS	397.29	400.00	ug/L	99.3		85 - 115		
Dissolved Nickel	BVB0968-BS1	LCS	399.96	400.00	ug/L	100		85 - 115		
Dissolved Zinc	BVB0968-BS1	LCS	504.00	500.00	ug/L	101		85 - 115		

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Water Analysis (Metals)

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: BVB0968	Used client sample: N										
Dissolved Cadmium	DUP	1202585-04	ND	ND		ug/L			20		
	MS	1202585-04	ND	213.43	204.08	ug/L		105		75 - 125	
	MSD	1202585-04	ND	217.03	204.08	ug/L	1.7	106	20	75 - 125	
Dissolved Chromium	DUP	1202585-04	ND	ND		ug/L			20		
	MS	1202585-04	ND	213.93	204.08	ug/L		105		75 - 125	
	MSD	1202585-04	ND	218.98	204.08	ug/L	2.3	107	20	75 - 125	
Dissolved Lead	DUP	1202585-04	ND	ND		ug/L			20		
	MS	1202585-04	ND	423.11	408.16	ug/L		104		75 - 125	
	MSD	1202585-04	ND	426.05	408.16	ug/L	0.7	104	20	75 - 125	
Dissolved Nickel	DUP	1202585-04	ND	ND		ug/L			20		
	MS	1202585-04	ND	415.85	408.16	ug/L		102		75 - 125	
	MSD	1202585-04	ND	427.08	408.16	ug/L	2.7	105	20	75 - 125	
Dissolved Zinc	DUP	1202585-04	ND	ND		ug/L			20		
	MS	1202585-04	ND	550.47	510.20	ug/L		108		75 - 125	
	MSD	1202585-04	ND	558.75	510.20	ug/L	1.5	110	20	75 - 125	

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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.
S09	The surrogate recovery on the sample for this compound was not within the control limits.