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By Alameda County Environmental Health at 2:40 pm, Oct 30, 2013

Atlantic Richfield Company

Chuck Carmel

Remediation Management Project Manager

PO Box 1257
San Ramon, CA 94583
Phone: (925) 275-3804
Fax: (925) 275-3815
E-Mail: chuck.carmel@bp.com

October 29, 2013

Re: Third Quarter 2013 Monitoring Report
Atlantic Richfield Company Service Station #601
712 Lewelling Boulevard, San Leandro, California
ACEH Case #RO0000309

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Submitted by,



Chuck Carmel

Remediation Management Project Manager

Attachment



BROADBENT

875 Cotting Ln., Suite G, Vacaville, CA 95688

[T] 707-455-7290 [F] 707-455-7295

broadbentinc.com

CREATING SOLUTIONS. BUILDING TRUST.

October 29, 2013

Project No. 06-88-605

Atlantic Richfield Company
P.O. Box 1257
San Ramon, CA 94583
Submitted via ENFOS

Attn.: Mr. Chuck Carmel

Re: Third Quarter 2013 Monitoring Report, Atlantic Richfield Company Station No. 601,
712 Lewelling Boulevard, San Leandro, Alameda County, California;
ACEH Case #RO0000309

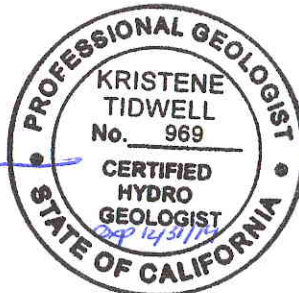
Dear Mr. Carmel:

Attached is the *Third Quarter 2013 Monitoring Report* for Atlantic Richfield Company Station No. 601 located at 712 Lewelling Boulevard in San Leandro, California (Site). Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (707) 455-7290.

Sincerely,
BROADBENT & ASSOCIATES, INC.


for
Alejandra Hernandez
Project Geologist


Kristene Tidwell, P.G., C.HG.
Senior Geologist



enclosures

cc: Ms. Dilan Roe, Alameda County Environmental Health (submitted via ACEH ftp site)
Mr. Karl Busche, City of San Leandro (Submitted via GeoTracker)
Electronic copy uploaded to GeoTracker

**THIRD QUARTER 2013
MONITORING REPORT
ATLANTIC RICHFIELD COMPANY STATION No. 601
SAN LEANDRO, CALIFORNIA**

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Third Quarter 2013 Monitoring Report* on behalf of Atlantic Richfield Company (a BP affiliated company) for Station No. 601 located at 712 Lewelling Boulevard in San Leandro, Alameda County, California (the Site). Monitoring activities at the Site were performed in accordance with the reporting requirements issued by the Alameda County Environmental Health (ACEH). Details of work performed, discussion of results, and recommendations are provided below.

Facility Name / Address:	Station No. 601 / 712 Lewelling Boulevard, San Leandro, California
Client Project Manager / Title:	Mr. Chuck Carmel / Remediation Management Project Manager
Broadbent Contact:	Kristene Tidwell, PG, CHG / (707) 455-7290
Broadbent Project No.:	06-88-605
Primary Regulatory Agency / ID No.:	ACEH / Case #RO0000309
Current phase of project:	Monitoring
List of Acronyms / Abbreviations:	See end of report text for list of acronyms/abbreviations used in report.

WORK PERFORMED THIS QUARTER (Third Quarter 2013):

1. Submitted *Second Quarter 2013 Status Report* on July 9, 2013.

WORK SCHEDULED FOR NEXT QUARTER (Fourth Quarter 2013):

1. Submit *Third Quarter 2013 Quarterly Monitoring Report* (contained herein).
2. Attend a meeting with ACEH regarding a *Conceptual Site Model and Case Closure Request* submitted on January 31, 2013.
3. No environmental work is scheduled for Fourth Quarter 2013.

GROUNDWATER MONITORING PLAN SUMMARY:

Groundwater level gauging:	MW-1 through MW-3 and MW-8 through MW-19	(1Q & 3Q)
Groundwater sample collection:	MW-1, MW-3, MW-10, MW-16, MW-17, and MW-18	(1Q & 3Q)
	MW-2, MW-8, MW-9, MW-14, MW-15, and MW-19	(3Q)
Biodegradation indicator parameter monitoring:	None	

QUARTERLY RESULTS SUMMARY:

LNAPL

LNAPL observed this quarter:	No	(yes/no)
LNAPL recovered this quarter:	N/A	(gal)
Cumulative LNAPL recovered:	N/A	(gal)

Groundwater Elevation and Gradient:

Depth to groundwater:	6.42 ft (MW-15) to 9.92 ft (MW-14)	(ft below TOC)
Gradient direction:	Southwest	(compass direction)
Gradient magnitude:	0.005	(ft/ft)
Average change in elevation:	0.93	(ft since last measurement)

Laboratory Analytical Data

Summary:

Analytical results are as follows:

- GRO were detected in five wells at a maximum concentration of 7,700 µg/L in well MW-3.
 - Benzene was detected in four wells at a maximum concentration of 46 µg/L in well MW-17.
 - Ethylbenzene was detected in four wells at a maximum concentration of 520 µg/L in well MW-3.
 - Toluene was detected in three wells at a maximum concentration of 7.3 µg/L in well MW-16.
 - Total Xylenes were detected in four wells at a maximum concentration of 140 µg/L in well MW-16.
 - MTBE was detected in four wells at a maximum concentration of 1.3 µg/L in wells MW-9 and MW-10.
-

ACTIVITIES CONDUCTED & RESULTS:

Third Quarter 2013 groundwater monitoring activities were conducted on July 30, 2013 by Broadbent personnel in accordance with the monitoring plan summary detailed above. Concurrent monitoring and sampling was not conducted with the nearby Former Shell Service Station No. 129460. Concurrent monitoring and sampling is performed during first quarter only. No irregularities were noted during water level gauging. Light Non-Aqueous Phase Liquid (LNAPL) was not measured during this event. Depth to groundwater measurements ranged from 6.42 ft at MW-15 to 9.92 ft at MW-14. Resulting groundwater surface elevations ranged from 14.81 ft at MW-10 to 16.41 ft at MW-4 and MW-6. Groundwater elevations are summarized in Table 1. Water level elevations yielded a potentiometric groundwater gradient to the southwest at approximately 0.005 ft/ft. Field methods used during groundwater monitoring are provided in Appendix A. Field data sheets are included in Appendix B. A Site Location Map is presented as Drawing 1. Potentiometric groundwater elevation contours are presented in Drawing 2.

Third Quarter 2013 groundwater sampling was performed consistent with the current ACEH approved monitoring schedule. No irregularities were reported during sampling. Samples were submitted under chain-of-custody protocol to TestAmerica Laboratories, Inc. of Irvine, California for analysis of GRO by 8015B; for BTEX, MTBE, ETBE, TAME, DIPE, EDB, 1,2-DCA, TBA, and Ethanol by EPA Method 8260. Sample MW-1 was also analyzed for SVOCs by EPA Method 8270. No significant irregularities were encountered during analysis of the samples. The laboratory analytical report, including chain-of-custody documentation, is provided in Appendix C.

Groundwater monitoring laboratory analytical results are summarized in Table 1 and Table 2. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 2. Groundwater monitoring data (GEO_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation receipts are provided in Appendix D.

Results of the sampling event are included in the laboratory analytical summary presented above. The results indicate that the highest overall concentrations of petroleum hydrocarbons are present in wells MW-1, MW-3, MW-16, and MW-17. All detected hydrocarbon concentrations were within historical ranges. Petroleum hydrocarbon concentrations were not detected above laboratory reporting limits in wells MW-2, MW-8, MW-9, MW-10, MW-14, MW-15, and MW-19, with the exception of minor (less than 1.3 µg/L) MTBE detections in wells MW-8, MW-9, and MW-10. Isoconcentration maps showing the distribution of GRO, benzene, and MTBE in groundwater are presented in Drawings 3, 4, and 5, respectively.

DISCUSSION:

Groundwater levels were between historic minimum and maximum elevations for all wells. Groundwater elevations yielded a potentiometric groundwater gradient to the southwest at approximately 0.005 ft/ft, consistent with the historic gradient data collected since 2003 (Table 3).

Results of current and historical groundwater data indicate that wells MW-3 and MW-16, contain the highest residual concentrations of petroleum hydrocarbons. No petroleum compounds were detected in wells MW-8, MW-9, MW-10, and MW-15, located downgradient and south of the current UST. Recent and historic laboratory analytical results are summarized in Table 1 and Table 2. Petroleum hydrocarbon concentrations from the Third Quarter 2013 monitoring event were within historical ranges. Historical analytical data indicates decreasing trends for Site wells.

RECOMMENDATIONS:

No environmental work activities are scheduled to be conducted at the Site during the Fourth Quarter 2013. The next quarterly monitoring event is scheduled for the First Quarter 2014. Broadbent submitted a *Conceptual Site Model and Closure Case Request* on January 31, 2013 awaiting review from ACEH. A meeting with the ACEH is scheduled to discuss this CSM in the Fourth Quarter 2013. Unless directed by ACEH, no change to the monitoring program at the Site is presently deemed warranted or recommended.

LIMITATIONS:

The findings presented in this report are based upon observations of field personnel, points investigated, results of laboratory tests performed by TestAmerica Laboratories, Inc. (Irving, California), and our understanding of ACEH requirements. Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of the Atlantic Richfield Company. It is possible that variations in soil or groundwater conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

ATTACHMENTS:

Drawing 1:	Site Location Map, Station #601, 712 Lewelling Boulevard, San Leandro, California
Drawing 2:	Groundwater Elevation Contours and Analytical Summary Map July 30, 2013
Drawing 3:	GRO Isoconcentration Contour Map July 30, 2013
Drawing 4:	Benzene Isoconcentration Contour Map July 30, 2013
Drawing 5:	MTBE Isoconcentration Contour Map July 30, 2013
Table 1:	Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
Table 2:	Summary of Fuel Additives Analytical Data
Table 3:	Historic Groundwater Gradient – Direction and Magnitude
Appendix A:	Field Methods
Appendix B:	Field Data Sheets
Appendix C:	Laboratory Report and Chain-of-Custody Documentation
Appendix D:	GeoTracker Upload Confirmation Receipts

LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

ACEH	Alameda County Environmental Health	LNAPL:	Light Non-Aqueous Phase Liquid
ARC:	Atlantic Richfield Company	MTBE:	Methyl Tertiary Butyl Ether
Broadbent:	Broadbent & Associates, Inc.	N/A:	Not applicable
BTEX:	Benzene, Toluene, Ethylbenzene, Total Xylenes	SVOCs	Semi-Volatile Organic Compounds
1,2-DCA:	1,2-Dichloroethane	TAME:	Tert-Amyl Methyl Ether
DIPE:	Di-Isopropyl Ether	TBA:	Tert-Butyl Alcohol
EDB:	1,2-Dibromomethane	TOC:	Top of Casing
ft:	foot	µg/L:	Micrograms Per Liter
ft/ft:	foot per foot	1Q:	First Quarter
gal:	gallons	3Q:	Third Quarter
GRO:	Gasoline Range Organics (C6-12)		

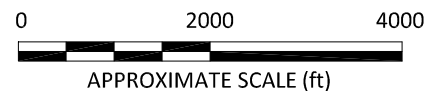
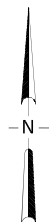
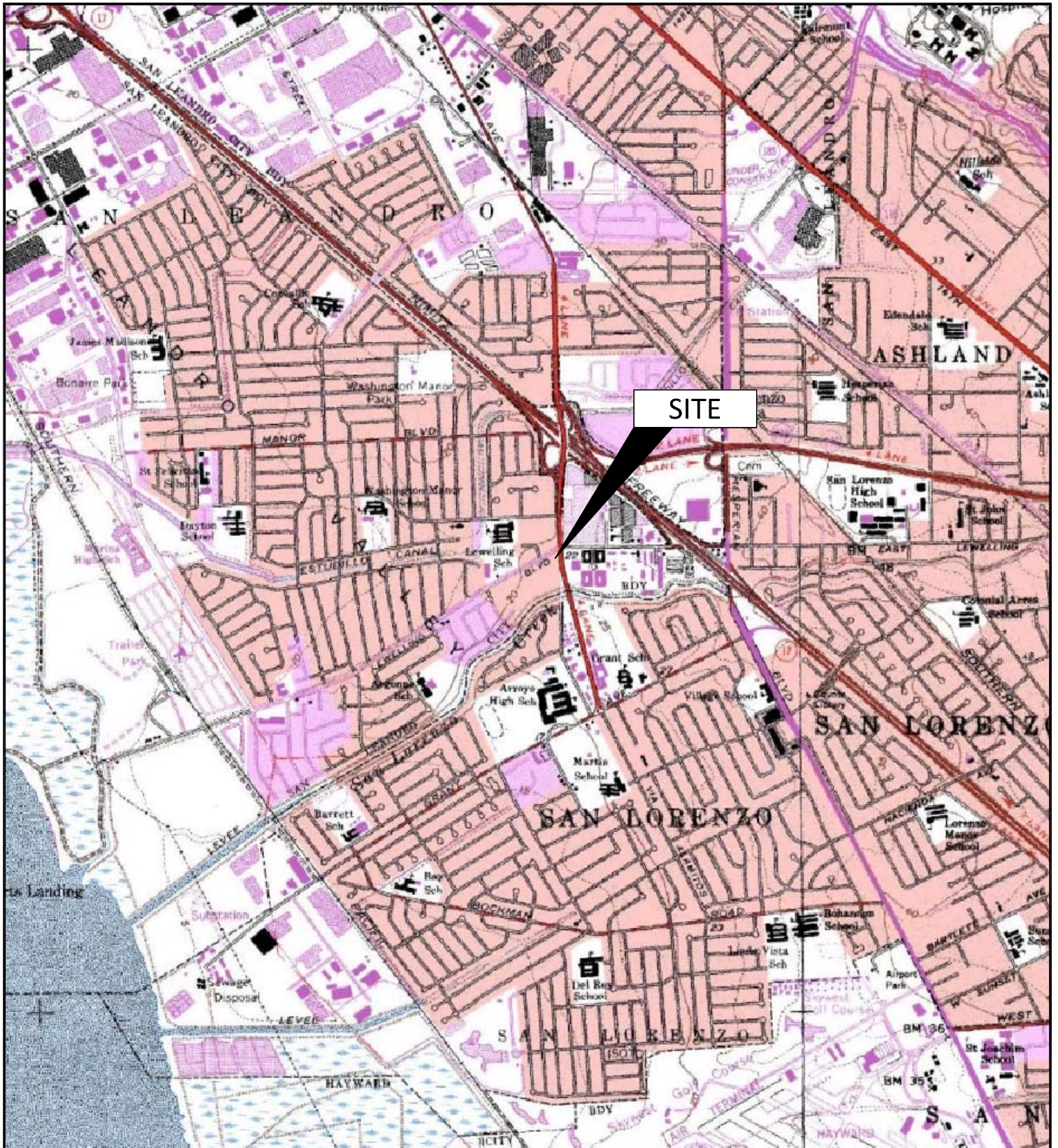


IMAGE SOURCE: USGS



1324 Mangrove Ave., Suite 212
Chico, California 95626

Project No.: 06-88-605 Date: 9/10/2013

Station No 601
712 Lewelling Boulevard
San Leandro, California

Site Location Map

Drawing

1

FORMER SHELL
STATION
#129460

S-8
NS

S-10
NS

MW-16
15.73
2,900
20
<0.50
SA(1,3)

S-12
NG

MW-4
16.41
GO

S-11
NG

MW-5
15.91
GO

MW-17
15.89
1,600
46
<0.50
SA(1,3)

MW-2
15.96
<50
<0.50
<0.50
A(3)

MW-13
16.25
GO

MW-11
16.06
GO

S-13
NG

MW-3
15.71
7,700
9.0
<5.0
SA(1,3)

MW-8
15.64
<50
<0.50
0.75
A(3)

MW-15
15.3
<50
<0.50
<0.50
A(3)

CHATEAU MANOR
APARTMENTS

MW-9
15.29
<50
<0.50
1.3
A(3)

MW-10
14.81
<50
<0.50
1.3
SA(1,3)

SG-10
SG-11
SG-12
SG-13
SG-14

MW-7
15.89
GO

MW-6
16.41
GO

MW-18
15.96
200
<0.50
1.2
SA(1,3)

MW-12
15.9
GO

MW-1
15.88
3,700
24
<0.50
SA(1,3)

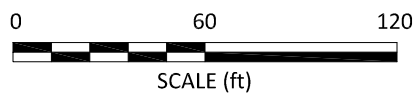
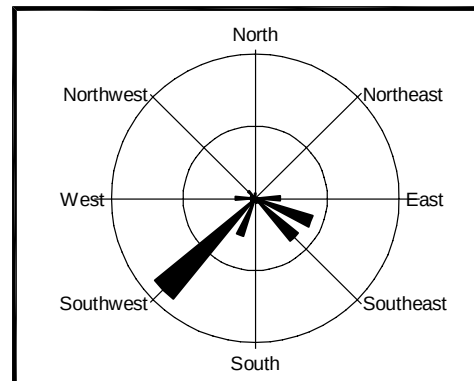
MW-19
15.74
<50
<0.50
<0.50
A(3)

MW-14
15.63
<50
<0.50
<0.50
A(3)

LEGEND

- Monitoring Well Location
- Soil-Gas Boring/Temporary Vapor Implant Location
- Soil Vapor Extraction Well Location
- ⊗ Hydropunch Location
- ⊙ Grab-Groundwater Sample Location
- Groundwater Elevation Contour (Feet Above Site Datum)
- 0.005 Groundwater Flow Direction and Magnitude (ft/ft)

WELL	Well Designation
ELEV	Groundwater Elevation (ft)
GRO	GRO, Benzene, and MTBE Concentrations (µg/L)
BZ	
MTBE	
A/SA	Sampling Frequency
A(1)	Sampled Annually, 1st Quarter
A(3)	Sampled Annually, 3rd Quarter
SA(1,3)	Sampled Semi-Annually, 1st and 3rd Quarter
GO/NG	Gauge Only/Not Gauged
NS	Not Sampled



NOTE: SITE MAP ADAPTED FROM DELTA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



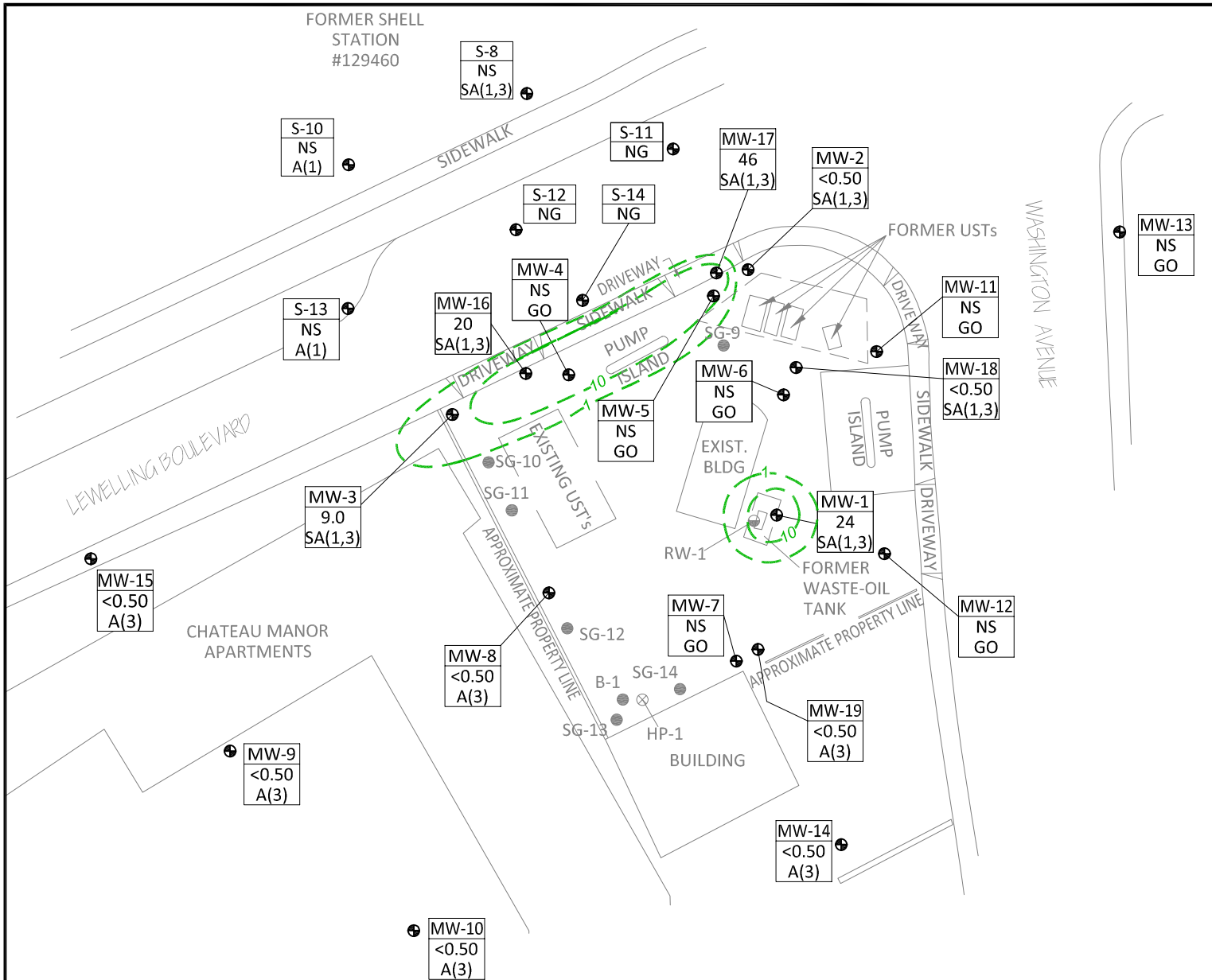
Project No.: 06-88-605 Date: 9/03/2013

Station # 601
712 Lewelling Boulevard
San Leandro, California

Groundwater Elevation Contours
and Analytical Summary Map
July 30, 2013

Drawing

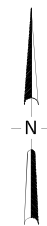
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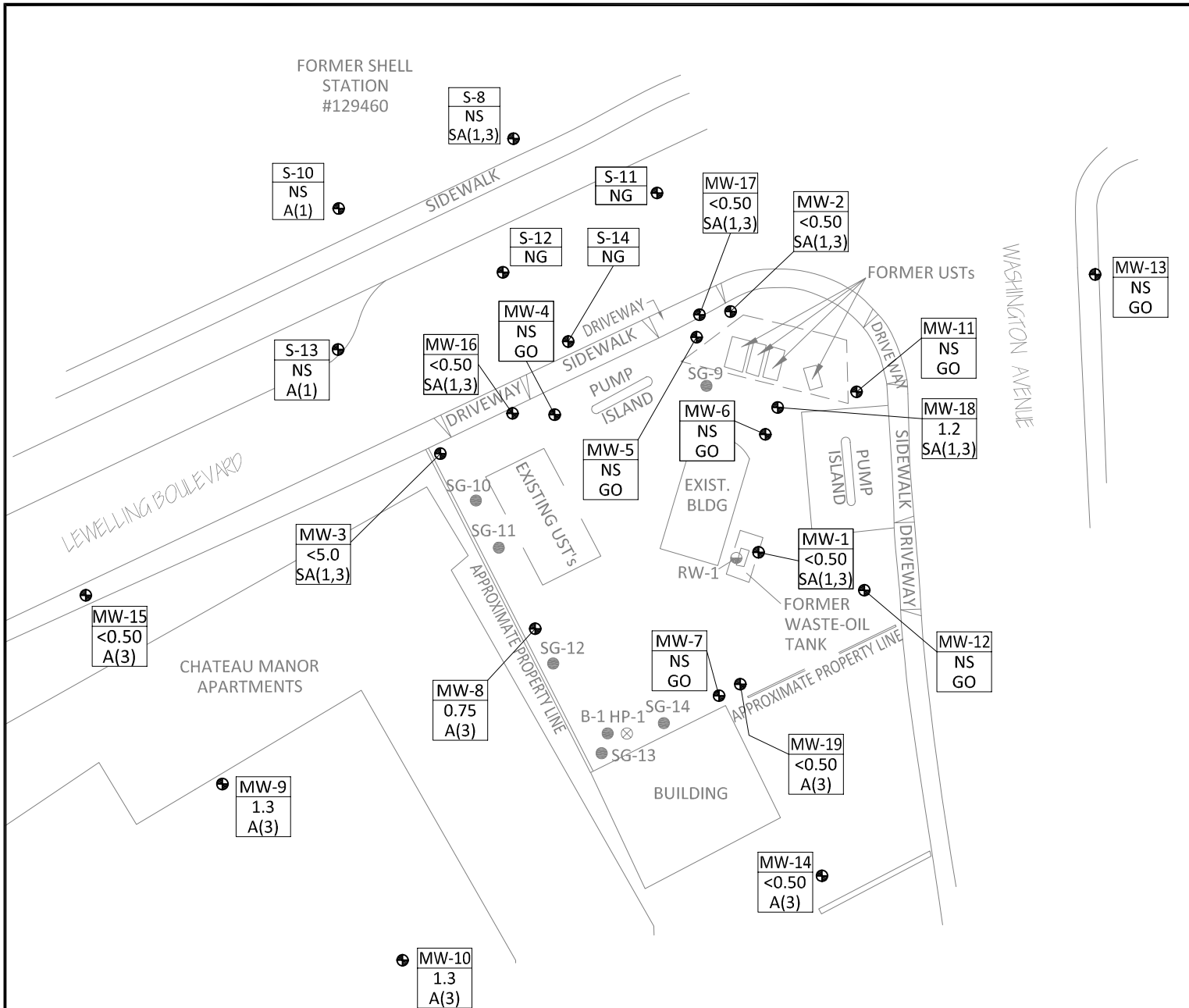


LEGEND

- ⊕ Monitoring Well Location
 - Soil-Gas Boring/Temporary Vapor Implant Location
 - ⊙ Soil Vapor Extraction Well Location
 - ⊗ Hydropunch Location
 - ⊙ Grab-Groundwater Sample Location
 - Benzene Isoconcentration (µg/L)
- | WELLID | Well Designation |
|---------|--|
| BZ | Benzene Concentration (µg/L) |
| A/SA | Sampling Frequency |
| A(1) | Sampled Annually, 1st Quarter |
| A(3) | Sampled Annually, 3rd Quarter |
| SA(1,3) | Sampled Semi-Annually, 1st and 3rd Quarter |
| GO/NG | Gauge Only/Not Gauged |
| NS | Not Sampled |

NOTE: SITE MAP ADAPTED FROM DELTA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.





LEGEND

- ⊕ Monitoring Well Location
 - Soil-Gas Boring/Temporary Vapor Implant Location
 - ⊖ Soil Vapor Extraction Well Location
 - ⊗ Hydropunch Location
 - ⊙ Grab-Groundwater Sample Location
- | | |
|---------|--|
| WELLID | Well Designation |
| MTBE | MTBE Concentration (µg/L) |
| A/SA | Sampling Frequency |
| A(1) | Sampled Annually, 1st Quarter |
| A(3) | Sampled Annually, 3rd Quarter |
| SA(1,3) | Sampled Semi-Annually, 1st and 3rd Quarter |
| GO/NG | Gauge Only/Not Gauged |
| NS | Not Sampled |

NOTE: SITE MAP ADAPTED FROM DELTA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

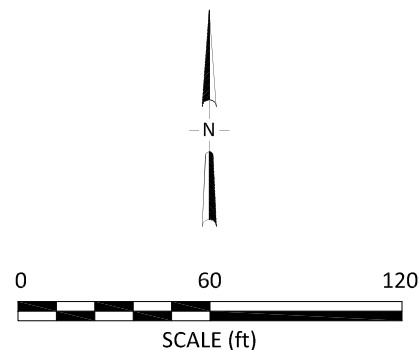


Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-1																
1/9/1991	--	22.98	7.00	12.00	9.47	13.51	--	--	--	--	--	--	--	--	--	i, l
4/16/1991	--		7.00	12.00	6.12	16.86	--	--	--	--	--	--	--	--	--	a
6/10/1991	--	22.26	7.00	12.00	9.00	13.26	--	--	--	--	--	--	--	--	--	a
10/10/1991	--		7.00	12.00	9.73	12.53	--	--	--	--	--	--	--	--	--	i, l
3/23/1992	--		7.00	12.00	7.40	14.86	--	--	--	--	--	--	--	--	--	a
6/8/1992	--		7.00	12.00	9.08	13.18	--	--	--	--	--	--	--	--	--	i, l
9/15/1992	--		7.00	12.00	9.18	13.08	--	--	--	--	--	--	--	--	--	l
11/16/1992	--		7.00	12.00	9.09	13.17	--	--	--	--	--	--	--	--	--	i, l
2/16/1993	--		7.00	12.00	7.03	15.23	--	--	--	--	--	--	--	--	--	i, l
5/13/1993	--		7.00	12.00	8.08	14.18	--	--	--	--	--	--	--	--	--	i, l
8/17/1993	--		7.00	12.00	8.81	13.45	--	--	--	--	--	--	--	--	--	i, l
11/8/1993	--		7.00	12.00	9.22	13.04	--	--	--	--	--	--	--	--	--	i, l
2/14/1994	--		7.00	12.00	7.72	14.54	--	--	--	--	--	--	--	--	--	a
5/5/1994	--		7.00	12.00	8.47	13.79	--	--	--	--	--	--	--	--	--	a
8/4/1994	--		7.00	12.00	8.72	13.54	--	--	--	--	--	--	--	--	--	a
11/20/1994	--		7.00	12.00	7.81	14.45	--	--	--	--	--	--	--	--	--	a
3/17/1995	--		7.00	12.00	6.57	15.69	120,000	5,300	370	1,500	13,000	--	--	--	--	
6/1/1995	--		7.00	12.00	7.87	14.39	250,000	7,100	950	3,500	21,000	--	--	--	--	
8/31/1995	--		7.00	12.00	8.12	14.14	--	--	--	--	--	--	--	--	--	i, l
11/27/1995	--		7.00	12.00	8.42	13.84	310,000	4,600	770	5,700	21,000	--	--	--	--	
2/22/1996	--		7.00	12.00	6.01	16.25	100,000	6,200	320	2,500	12,000	<1,000	--	--	--	j
5/20/1996	--		7.00	12.00	7.03	15.23	340,000	6,600	240	4,500	22,000	<1,000	--	--	--	
8/26/1996	--		7.00	12.00	8.16	14.10	210,000	7,900	320	3,400	15,000	<1,000	--	--	--	
11/20/1996	--		7.00	12.00	7.84	14.42	62,000	5,900	77	2,000	7,700	<300	--	--	--	
3/24/1997	--	19.19	7.00	12.00	8.05	11.14	170,000	6,500	<200	2,400	9,900	<1,000	--	--	--	
5/23/1997	--		7.00	12.00	8.42	10.77	83,000	6,200	84	2,500	9,000	<300	--	--	--	
8/19/1997	--		7.00	12.00	8.65	10.54	83,000	4,500	<100	2,200	8,100	<600	--	--	--	
11/19/1997	--		7.00	12.00	8.54	10.65	250,000	4,400	<500	3,800	9,900	<3,000	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-1 Cont.																
2/19/1998	--	19.19	7.00	12.00	5.57	13.62	74,000	2,500	120	2,200	4,100	<300	--	--	--	
4/23/1998	--		7.00	12.00	6.92	12.27	210,000	2,700	<500	4,200	8,300	<3,000	--	1.5	--	
7/27/1998	--		7.00	12.00	8.14	11.05	73,000	2,100	88	2,600	4,600	<300	--	1.0	--	
10/14/1998	--		7.00	12.00	8.58	10.61	47,000	2,900	<500	2,300	3,900	<300	--	1.5	--	
1/21/1999	--		7.00	12.00	7.48	11.71	45,000	1,400	64	2,100	2,400	<300	--	1.0	--	
5/6/1999	--		7.00	12.00	8.00	11.19	41,000	1,900	<20	2,800	3,400	<120	--	0.85	--	
8/23/1999	--		7.00	12.00	8.56	10.63	26,000	1,700	52	1,600	1,500	<75	--	0.72	--	
10/28/1999	--		7.00	12.00	8.92	10.27	38,000	2,500	35	2,400	2,500	<200	--	0.7	--	
2/4/2000	--		7.00	12.00	8.48	10.71	19,000	960	13	1,200	860	<60	--	2.11	--	
6/20/2000	--		7.00	12.00	8.20	10.99	23,000	2,400	50	1,800	680	<200	--	--	--	
9/29/2000	--		7.00	12.00	8.55	10.64	23,600	2,880	<50	2,130	871	<250	--	--	--	
12/17/2000	--		7.00	12.00	8.28	10.91	21,600	1,980	<50	1,610	664	<250	--	--	--	
3/28/2001	--		7.00	12.00	8.13	11.06	19,800	2,310	<100	2,010	517	<500	--	--	--	
6/20/2001	--		7.00	12.00	8.60	10.59	17,000	2,200	23	1,800	320	100	--	--	--	
9/22/2001	--		7.00	12.00	9.03	10.16	20,000	2,900	<200	2,500	270	<1000	--	--	--	
12/27/2001	--		7.00	12.00	7.93	11.26	15,000	2,000	<50	1,700	140	290	--	--	--	
3/15/2002	--		7.00	12.00	7.89	11.30	12,000	1,800	<50	1,400	79	<250	--	--	--	
4/18/2002	--		7.00	12.00	7.05	12.14	16,000	3,000	180	2,600	320	<250	--	1.26	--	
7/23/2002	NP		7.00	12.00	8.70	10.49	14,000	3,200	<50	2,100	<50	<250	--	0.9	6.8	e
10/16/2002	NP		7.00	12.00	9.12	10.07	14,000	2,100	<25	2,000	31	<120	--	0.8	7.1	d
1/23/2003	NP		7.00	12.00	7.45	11.74	6,000	680	<50	800	<50	<50	--	0.9	6.8	g
4/7/2003	--		7.00	12.00	7.68	11.51	6,400	940	6.6	810	11	69	--	1.1	6.9	
8/7/2003	--		7.00	12.00	8.75	10.44	12,000	1,500	27	1,700	42	160	--	--	6.4	a, k
10/23/2003	NP		7.00	12.00	8.96	10.23	14,000	1,700	<25	1,600	<25	220	1470	--	--	a
01/12/2004	P		7.00	12.00	7.99	11.20	8,800	1,100	<25	980	<25	140	1392	0.2	7.2	
04/20/2004	NP	24.78	7.00	12.00	8.87	15.91	12,000	1,600	<25	920	36	84	1780	1.5	6.6	a, r
07/01/2004	NP		7.00	12.00	9.31	15.47	9,700	830	<10	580	11	100	886	0.8	6.7	a
11/04/2004	NP		7.00	12.00	8.12	16.66	7,800	650	<5.0	300	12	130	1368	1.2	6.7	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-1 Cont.																
01/10/2005	NP	24.78	7.00	12.00	7.06	17.72	6,000	280	<5.0	130	12	12	1280	1.05	6.9	
04/14/2005	NP		7.00	12.00	7.20	17.58	4,500	160	<5.0	320	17	<5.0	--	2.1	7.0	
04/20/2005	NP		7.00	12.00	7.05	17.73	--	--	--	--	--	--	630	--	6.6	q
08/02/2005	NP		7.00	12.00	7.39	17.39	4,700	210	<5.0	210	11	15	1180	--	6.8	
10/21/2005	NP		7.00	12.00	8.31	16.47	9,700	600	5.5	210	11	64	1500	1.45	6.8	
01/04/2006	NP		7.00	12.00	7.10	17.68	5,000	240	5.2	120	18	<5.0	939	0.97	7.2	
04/28/2006	P		7.00	12.00	6.69	18.09	13,000	100	<5.0	270	7.0	<5.0	--	1.81	7.1	a
8/4/2006	NP		7.00	12.00	8.30	16.48	9,800	410	5.0	260	<5.0	14	840	0.84	7.0	
10/23/2006	P		7.00	12.00	8.71	16.07	12,000	440	5.6	260	11	16	--	--	6.92	
1/15/2007	--		7.00	12.00	7.95	16.83	--	--	--	--	--	--	--	1.23	6.90	l
4/17/2007	P		7.00	12.00	8.20	16.58	6,800	140	<10	280	<10	<10	--	2.14	7.19	a
7/9/2007	P		7.00	12.00	8.73	16.05	8,200	240	<5.0	220	180	81	1020	2.42	7.15	a, s
10/1/2007	P		7.00	12.00	8.94	15.84	13,000	260	<5.0	260	13	9.3	1,340	2.46	7.19	a, s
1/7/2008	P		7.00	12.00	7.43	17.35	8,000	56	<5.0	190	7.3	<5.0	1,000	0.95	7.03	u
4/1/2008	NP		7.00	12.00	7.64	17.16	9,300	70	<20	210	<20	<20	1,220	2.22	7.04	i, l
7/23/2008	P		7.00	12.00	8.82	15.96	19,000	190	<20	180	<20	<20	1,480	2.2	6.99	
10/22/2008	P		7.00	12.00	9.13	15.65	31,000	190	<20	210	<20	<20	2,132	0.31	6.87	a
1/21/2009	P		7.00	12.00	8.72	16.06	20,000	99	<20	190	<20	<20	3,000	1.06	7.01	a
4/21/2009	P		7.00	12.00	7.68	17.10	18,000	63	<20	50	<20	<20	1,617	0.40	6.98	a, u
7/21/2009	P		7.00	12.00	8.91	15.87	9,700	100	<20	120	<20	<20	1,610	10.85	7.10	u, v
1/12/2010	P		7.00	12.00	8.30	16.48	8,400	49	<10	85	<10	<10	950	0.98	6.48	u
6/3/2010	--		7.00	12.00	7.67	17.11	--	--	--	--	--	--	--	--	--	
7/22/2010	NP		7.00	12.00	8.43	16.35	15,000	54	<10	90	<10	<10	1,160	0.49	7.0	w
2/18/2011	NP		7.00	12.00	7.34	17.44	7,900	11	<2.0	83	2.8	<2.0	611	0.50	6.5	x (GRO)
8/25/2011	P		7.00	12.00	8.45	16.33	10,000	27	<2.5	83	3.2	<2.5	744	0.49	6.9	
1/17/2012	P		7.00	12.00	8.81	15.97	3,100	27	1.8	48	2.0	<1.0	444	0.36	6.65	x (GRO)
7/24/2012	P		7.00	12.00	8.41	16.37	6,500	38	2.5	70	2.9	<1.0	--	1.25	7.09	
1/31/2013	P		7.00	12.00	7.76	17.02	3,500	16	1.5	32	2.2	<0.50	--	1.27	7.45	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-1 Cont.																
7/30/2013	P	24.78	7.00	12.00	8.90	15.88	3,700	24	1.8	14	2.6	<0.50	--	3.18	7.01	
MW-2																
7/18/1990	--	22.06	8.00	12.00	7.86	14.20	35,000	3,800	2,900	690	3,600	--	--	--	--	
10/15/1990	--		8.00	12.00	8.61	13.45	6,400	650	290	110	560	--	--	--	--	
1/9/1991	--		8.00	12.00	8.43	13.63	13,000	1,500	970	390	1,500	--	--	--	--	
4/16/1991	--		8.00	12.00	6.97	15.09	54,000	5,200	9,000	1,500	7,700	--	--	--	--	
6/10/1991	--	21.33	8.00	12.00	7.91	13.42	26,000	3,000	2,500	880	4,200	--	--	--	--	
10/10/1991	--		8.00	12.00	8.82	12.51	10,000	1,600	910	280	1,400	--	--	--	--	
3/23/1992	--		8.00	12.00	6.86	14.47	33,000	4,100	5,000	1,100	5,300	--	--	--	--	
6/8/1992	--		8.00	12.00	7.95	13.38	18,000	1,200	980	330	1,800	--	--	--	--	
9/15/1992	--		8.00	12.00	8.71	12.62	13,000	430	500	340	1,800	--	--	--	--	
11/16/1992	--		8.00	12.00	7.93	13.40	13,000	900	940	300	1,400	--	--	--	--	
2/16/1993	--		8.00	12.00	6.02	15.31	20,000	1,800	1,200	530	2,700	--	--	--	--	
5/13/1993	--		8.00	12.00	6.99	14.34	13,000	1,000	470	370	1,900	--	--	--	--	
8/17/1993	--		8.00	12.00	7.85	13.48	9,100	770	160	310	1,500	--	--	--	--	
11/8/1993	--		8.00	12.00	8.12	13.21	9,200	380	62	130	630	--	--	--	--	
2/14/1994	--		8.00	12.00	6.88	14.45	8,700	670	370	50	1,400	--	--	--	--	
5/5/1994	--		8.00	12.00	7.51	13.82	5,600	390	140	120	480	--	--	--	--	
8/4/1994	--		8.00	12.00	8.00	13.33	2,300	180	<2.5	<2.5	230	--	--	--	--	n
11/20/1994	--		8.00	12.00	6.86	14.47	4,900	170	150	120	390	--	--	--	--	
3/17/1995	--		8.00	12.00	6.12	15.21	10,000	460	77	260	550	--	--	--	--	
6/1/1995	--		8.00	12.00	6.56	14.77	13,000	400	78	210	410	--	--	--	--	
8/31/1995	--		8.00	12.00	7.18	14.15	5,000	280	18	120	140	<50	--	--	--	
11/27/1995	--		8.00	12.00	7.39	13.94	3,200	230	12	77	90	--	--	--	--	
2/22/1996	--		8.00	12.00	5.78	15.55	11,000	290	67	190	330	<50	--	--	--	
5/20/1996	--		8.00	12.00	6.27	15.06	--	--	--	--	--	--	--	--	--	
8/26/1996	--		8.00	12.00	7.30	14.03	--	--	--	--	--	--	--	--	--	
11/20/1996	--		8.00	12.00	7.28	14.05	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-2 Cont.																
3/24/1997	--	21.12	8.00	12.00	7.11	14.01	4,800	570	6	71	32	67	--	--	--	
5/23/1997	--		8.00	12.00	7.44	13.68	--	--	--	--	--	--	--	--	--	
8/19/1997	--		8.00	12.00	7.64	13.48	--	--	--	--	--	--	--	--	--	
11/19/1997	--		8.00	12.00	7.70	13.42	--	--	--	--	--	--	--	--	--	
2/19/1998	--		8.00	12.00	5.22	15.90	2,000	160	50	66	230	25	--	--	--	
4/23/1998	--		8.00	12.00	6.24	14.88	--	--	--	--	--	--	--	--	--	
7/27/1998	--		8.00	12.00	7.02	14.10	--	--	--	--	--	--	--	--	--	
10/14/1998	--		8.00	12.00	7.54	13.58	--	--	--	--	--	--	--	--	--	
1/21/1999	--		8.00	12.00	7.15	13.97	1,700	84	4	31	10	13	--	0.5	--	
5/6/1999	--		8.00	12.00	6.95	14.17	--	--	--	--	--	--	--	--	--	
8/23/1999	--		8.00	12.00	7.49	13.63	--	--	--	--	--	--	--	0.68	--	
10/28/1999	--		8.00	12.00	7.92	13.20	--	--	--	--	--	--	--	--	--	
2/4/2000	--		8.00	12.00	6.61	14.51	--	--	--	--	--	--	--	--	--	
6/20/2000	--		8.00	12.00	7.12	14.00	--	--	--	--	--	--	--	--	--	
9/29/2000	--		8.00	12.00	7.60	13.52	--	--	--	--	--	--	--	--	--	
12/17/2000	--		8.00	12.00	7.42	13.70	--	--	--	--	--	--	--	--	--	
3/28/2001	--		8.00	12.00	6.84	14.28	838	18.1	<5.0	7.63	5.98	39.5	--	--	--	
6/20/2001	--		8.00	12.00	7.66	13.46	--	--	--	--	--	--	--	--	--	
9/22/2001	--		8.00	12.00	8.08	13.04	--	--	--	--	--	--	--	--	--	
12/27/2001	--		8.00	12.00	6.48	14.64	--	--	--	--	--	--	--	--	--	
3/15/2002	--		8.00	12.00	6.84	14.28	100	<0.5	<0.5	2.5	<0.5	75	--	--	--	
4/18/2002	--		8.00	12.00	6.19	14.93	--	--	--	--	--	--	--	--	--	
7/23/2002	--		8.00	12.00	7.73	13.39	--	--	--	--	--	--	--	--	--	
10/16/2002	--		8.00	12.00	8.10	13.02	--	--	--	--	--	--	--	--	--	
1/23/2003	P		8.00	12.00	6.52	14.60	<5,000	<50	<50	<50	<50	95	--	1.6	7.2	g
4/7/2003	--		8.00	12.00	7.22	13.90	--	--	--	--	--	--	--	--	--	
8/7/2003	--		8.00	12.00	7.84	13.28	--	--	--	--	--	--	--	--	--	
10/23/2003	P		8.00	12.00	7.95	13.17	<250	<2.5	<2.5	<2.5	4.2	68	--	--	--	m

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-2 Cont.																
01/12/2004	--	21.12	8.00	12.00	6.60	14.52	--	--	--	--	--	--	--	--	--	
04/20/2004	--	23.87	8.00	12.00	8.32	15.55	--	--	--	--	--	--	--	--	--	r
07/01/2004	P		8.00	12.00	8.96	14.91	72	<0.50	<0.50	<0.50	<0.50	72	--	2.1	6.9	o
11/04/2004	--		8.00	12.00	7.30	16.57	--	--	--	--	--	--	--	--	--	
01/10/2005	--		8.00	12.00	5.87	18.00	--	--	--	--	--	--	--	--	--	
04/14/2005	--		8.00	12.00	5.75	18.12	--	--	--	--	--	--	--	--	--	
08/02/2005	P		8.00	12.00	6.47	17.40	1,300	4.3	0.57	11	0.97	12	--	--	7.0	
10/21/2005	--		8.00	12.00	7.12	16.75	--	--	--	--	--	--	--	--	--	
01/04/2006	--		8.00	12.00	6.75	17.12	--	--	--	--	--	--	--	--	--	
04/28/2006	--		8.00	12.00	5.90	17.97	--	--	--	--	--	--	--	--	--	
8/4/2006	P		8.00	12.00	7.41	16.46	50	<0.50	<0.50	<0.50	<0.50	7.9	--	1.57	7.2	
10/23/2006	--		8.00	12.00	7.72	16.15	--	--	--	--	--	--	--	--	--	
1/15/2007	--		8.00	12.00	7.14	16.73	--	--	--	--	--	--	--	--	--	
4/17/2007	--		8.00	12.00	7.28	16.59	--	--	--	--	--	--	--	--	--	
7/9/2007	P		8.00	12.00	7.73	16.14	110	<0.50	<0.50	<0.50	<0.50	3.2	--	1.40	7.37	
10/1/2007	--		8.00	12.00	7.95	15.92	--	--	--	--	--	--	--	--	--	
1/7/2008	--		8.00	12.00	6.46	17.41	--	--	--	--	--	--	--	--	--	
4/1/2008	--		8.00	12.00	7.10	16.77	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		8.00	12.00	7.90	15.97	<50	<0.50	<0.50	<0.50	<0.50	0.78	--	3.1	7.25	
10/22/2008	--		8.00	12.00	8.10	15.77	--	--	--	--	--	--	--	--	--	
1/21/2009	--		8.00	12.00	7.70	16.17	--	--	--	--	--	--	--	--	--	
4/21/2009	--		8.00	12.00	7.16	16.71	--	--	--	--	--	--	--	--	--	
7/21/2009	NP		8.00	12.00	8.01	15.86	<50	<0.50	<0.50	<0.50	<0.50	0.83	--	11.67	7.47	v
1/12/2010	--		8.00	12.00	7.35	16.52	--	--	--	--	--	--	--	--	--	
6/3/2010	P		8.00	12.00	6.78	17.09	<50	<0.50	<0.50	<0.50	<0.50	1.2	--	--	7.06	
7/22/2010	P		8.00	12.00	7.47	16.40	420	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.03	7.1	w
2/18/2011	--		8.00	12.00	6.71	17.16	--	--	--	--	--	--	--	--	--	
8/25/2011	P		8.00	12.00	7.40	16.47	780	<0.50	<0.50	0.79	<0.50	<0.50	--	1.05	7.2	x (GRO)

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-2 Cont.																
1/17/2012	--	23.87	8.00	12.00	8.01	15.86	--	--	--	--	--	--	--	--	--	
7/24/2012	P		8.00	12.00	7.44	16.43	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	0.81	7.36	
1/31/2013	--		8.00	12.00	6.93	16.94	--	--	--	--	--	--	--	--	--	
7/30/2013	P		8.00	12.00	7.91	15.96	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	2.90	7.32	
MW-3																
7/18/1990	--	20.84	8.00	12.00	7.03	13.81	--	--	--	--	--	--	--	--	--	
10/15/1990	--		8.00	12.00	8.19	12.65	--	--	--	--	--	--	--	--	--	i, l
1/9/1991	--		8.00	12.00	7.46	13.38	--	--	--	--	--	--	--	--	--	i, l
4/16/1991	--		8.00	12.00	7.95	12.89	--	--	--	--	--	--	--	--	--	a
6/10/1991	--	20.11	8.00	12.00	7.14	12.97	--	--	--	--	--	--	--	--	--	a
10/10/1991	--		8.00	12.00	7.82	12.29	--	--	--	--	--	--	--	--	--	i, l
3/23/1992	--		8.00	12.00	5.75	14.36	--	--	--	--	--	--	--	--	--	a
6/8/1992	--		8.00	12.00	7.52	12.59	--	--	--	--	--	--	--	--	--	i, l
9/15/1992	--		8.00	12.00	8.01	12.10	--	--	--	--	--	--	--	--	--	i, l
11/16/1992	--		8.00	12.00	7.11	13.00	--	--	--	--	--	--	--	--	--	a
2/16/1993	--		8.00	12.00	5.93	14.18	--	--	--	--	--	--	--	--	--	i, l
5/13/1993	--		8.00	12.00	6.37	13.74	--	--	--	--	--	--	--	--	--	i, l
8/17/1993	--		8.00	12.00	7.00	13.11	--	--	--	--	--	--	--	--	--	i, l
11/8/1993	--		8.00	12.00	7.31	12.80	430,000	4,100	14,000	6,400	37,000	--	--	--	--	
2/14/1994	--		8.00	12.00	5.81	14.30	85,000	4,200	12,000	2,500	16,000	--	--	--	--	
5/5/1994	--		8.00	12.00	6.81	13.30	560,000	4,600	14,000	5,300	40,000	--	--	--	--	
8/4/1994	--		8.00	12.00	7.31	12.80	64,000	4,200	7,600	1,700	12,000	--	--	--	--	
11/20/1994	--		8.00	12.00	5.88	14.23	80,000	4,700	9,700	2,400	15,000	--	--	--	--	
3/17/1995	--		8.00	12.00	5.46	14.65	370,000	4,800	12,000	5,800	34,000	--	--	--	--	
6/1/1995	--		8.00	12.00	6.34	13.77	270,000	6,000	11,000	5,200	28,000	--	--	--	--	
8/31/1995	--		8.00	12.00	6.60	13.51	--	--	--	--	--	--	--	--	--	i, l
11/27/1995	--		8.00	12.00	6.76	13.35	150,000	5,100	8,800	3,900	21,000	--	--	--	--	
2/22/1996	--		8.00	12.00	5.14	14.97	150,000	4,400	7,600	4,100	22,000	<3,000	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-3 Cont.																
5/20/1996	--	20.11	8.00	12.00	5.17	14.94	410,000	4,700	8,000	6,300	36,000	<3,000	--	--	--	
8/26/1996	--		8.00	12.00	7.04	13.07	260,000	4,000	6,100	4,200	24,000	<2,000	--	--	--	
11/20/1996	--		8.00	12.00	6.26	13.85	190,000	3,200	5,800	3,300	20,000	<1,000	--	--	--	
3/24/1997	--	22.99	8.00	12.00	6.94	16.05	430,000	2,700	7,600	7,000	39,000	<5,000	--	--	--	
5/23/1997	--		8.00	12.00	6.98	16.01	130,000	2,100	4,300	3,500	19,000	<700	--	--	--	
8/19/1997	--		8.00	12.00	7.25	15.74	100,000	2,000	3,200	<100	19,000	<600	--	--	--	
11/19/1997	--		8.00	12.00	7.25	15.74	93,000	1,700	2,400	2,800	16,000	<600	--	--	--	
2/19/1998	--		8.00	12.00	5.24	17.75	80,000	620	1,200	2,500	13,000	<600	--	--	--	
4/23/1998	--		8.00	12.00	6.60	16.39	130,000	1,500	2,400	3,500	18,000	<600	--	3.5	--	
7/27/1998	--		8.00	12.00	7.00	15.99	140,000	920	1,500	2,400	13,000	<600	--	1.0	--	
10/14/1998	--		8.00	12.00	7.04	15.95	300,000	1,200	2,400	5,700	32,000	970	--	1.0	--	
1/21/1999	--		8.00	12.00	6.50	16.49	120,000	860	1,500	2,600	14,000	<600	--	0.5	--	
5/6/1999	--		8.00	12.00	6.90	16.09	49,000	670	1,400	2,500	11,000	170	--	1.03	--	
8/23/1999	--		8.00	12.00	6.53	16.46	51,000	440	930	2,200	9,200	<150	--	0.67	--	
10/28/1999	--		8.00	12.00	7.50	15.49	1,400,000	830	4,100	15,000	78,000	<5,000	--	0.77	--	
2/4/2000	--		8.00	12.00	6.21	16.78	<50	<0.5	<0.5	<0.5	<1	650	--	1.61	--	
6/20/2000	--		8.00	12.00	6.22	16.77	45,000	670	990	2,400	12,000	<500	--	--	--	
9/29/2000	--		8.00	12.00	7.20	15.79	51,000	860	1,120	2,720	12,900	<250	--	--	--	
12/17/2000	--		8.00	12.00	--	--	--	--	--	--	--	--	--	--	--	
3/28/2001	--		8.00	12.00	6.10	16.89	43,500	804	<200	250	11,000	<1,000	--	--	--	
6/20/2001	--		8.00	12.00	6.14	16.85	62,000	1,000	850	2,800	13,000	<2,500	--	--	--	
9/22/2001	--		8.00	12.00	7.24	15.75	53,000	1,200	1,200	3,100	13,000	<1,000	--	--	--	
12/27/2001	--		8.00	12.00	7.00	15.99	44,000	860	840	2,300	10,000	<250	--	--	--	
3/15/2002	--		8.00	12.00	7.02	15.97	43,000	1,000	810	2,300	11,000	<250	--	--	--	
4/18/2002	--		8.00	12.00	--	--	--	--	--	--	--	--	--	--	--	
7/23/2002	P		8.00	12.00	7.22	15.77	45,000	750	570	2,100	10,000	<250	--	1	8	d
10/16/2002	P		8.00	12.00	7.54	15.45	42,000	780	620	2,500	11,000	<250	--	1.4	7.7	d
1/23/2003	P		8.00	12.00	6.85	16.14	68,000	580	500	3,300	16,000	<100	--	1.3	7	g

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-3 Cont.																
4/7/2003	--	22.99	8.00	12.00	7.05	15.94	48,000	620	450	2,200	11,000	<50	--	1.4	6.9	
8/7/2003	--		8.00	12.00	6.89	16.10	35,000	360	250	1,700	8,100	<100	--	2.4	8.9	m
10/23/2003	P		8.00	12.00	7.05	15.94	36,000	340	250	1,700	8,300	<25	--	--	--	m
01/12/2004	NP		8.00	12.00	5.93	17.06	1,100	<5.0	<5.0	<5.0	34	<5.0	--	3.2	9.5	
04/20/2004	P	22.63	8.00	12.00	7.60	15.03	30,000	210	170	1,700	7,300	<50	--	1.6	7.8	r
07/01/2004	P		8.00	12.00	7.76	14.87	33,000	190	190	1,300	6,300	<50	--	2.3	7.4	a
11/04/2004	--		8.00	12.00	--	--	--	--	--	--	--	--	--	--	--	p
11/23/2004	P		8.00	12.00	6.75	15.88	32,000	150	160	1,400	7,100	<50	--	1.2	7.5	
01/10/2005	P		8.00	12.00	4.75	17.88	34,000	180	150	1,400	6,900	<100	--	0.7	7.0	
04/14/2005	P		8.00	12.00	5.60	17.03	26,000	170	200	1,500	5,000	<25	--	2.3	7.0	
08/02/2005	P		8.00	12.00	5.97	16.66	41,000	260	190	1,800	8,600	<25	--	--	7.0	
10/21/2005	P		8.00	12.00	6.55	16.08	39,000	230	160	1,500	7,400	<50	--	1.05	7.0	
01/04/2006	P		8.00	12.00	4.57	18.06	33,000	160	150	1,700	7,500	<25	--	0.97	7.1	
04/28/2006	P		8.00	12.00	5.35	17.28	42,000	130	110	1,700	6,500	<25	--	1.39	7.0	a
8/4/2006	P		8.00	12.00	5.97	16.66	38,000	180	130	1,500	7,000	<25	--	0.47	6.9	
10/23/2006	P		8.00	12.00	6.66	15.97	48,000	180	120	1,500	7,100	<5.0	--	--	6.98	
1/15/2007	P		8.00	12.00	6.11	16.52	36,000	130	130	1,900	8,400	<25	--	0.97	7.25	
4/17/2007	P		8.00	12.00	6.13	16.50	73,000	120	140	2,200	9,900	<25	--	1.13	7.42	a
7/9/2007	P		8.00	12.00	6.82	15.81	42,000	110	110	1,700	7,100	<25	--	1.38	7.28	a
10/1/2007	P		8.00	12.00	6.85	15.78	48,000	100	100	1,700	7,700	<25	--	1.65	7.66	a, o, t
1/7/2008	--		8.00	12.00	--	--	--	--	--	--	--	--	--	--	--	p
4/1/2008	P		8.00	12.00	8.95	13.68	160,000	<100	<100	1,700	7,400	<100	--	0.96	7.03	a
7/23/2008	NP		8.00	12.00	7.00	15.63	33,000	39	47	1,100	5,000	<5.0	--	1.04	6.93	
10/22/2008	P		8.00	12.00	7.15	15.48	98,000	<120	<120	2,000	8,000	<120	--	1.06	7.09	a
1/21/2009	P		8.00	12.00	6.79	15.84	51,000	<100	<100	2,300	9,000	<100	--	0.58	7.08	a
4/21/2009	P		8.00	12.00	5.80	16.83	720,000	52	<50	790	7,000	<50	--	1.38	7.14	a
7/21/2009	P		8.00	12.00	6.84	15.79	36,000	29	33	1,300	4,800	<25	--	11.15	7.35	v
1/12/2010	P		8.00	12.00	6.19	16.44	25,000	25	24	1,200	3,900	<10	--	1.07	6.63	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-3 Cont.																
6/3/2010	P	22.63	8.00	12.00	5.64	16.99	26,000	<25	<25	820	2,900	<25	--	1.16	6.8	
7/22/2010	P		8.00	12.00	6.37	16.26	42,000	<25	<25	1,100	3,500	<25	--	0.38	6.9	
2/18/2011	P		8.00	12.00	5.03	17.60	29,000	<25	<25	1,000	2,800	<25	--	0.70	6.50	
8/25/2011	P		8.00	12.00	5.96	16.67	20,000	<20	<20	850	1,600	<20	--	0.66	6.8	
1/17/2012	P		8.00	12.00	7.12	15.51	14,000	<10	<10	330	640	<10	--	0.26	7.01	
7/24/2012	P		8.00	12.00	6.04	16.59	9,500	19	6.8	500	140	<5.0	--	1.25	7.15	
1/31/2013	P		8.00	12.00	5.91	16.72	8,200	9.7	<5.0	480	200	<5.0	--	1.19	7.47	
7/30/2013	P		8.00	12.00	6.92	15.71	7,700	9.0	<5.0	520	57	<5.0	--	3.55	6.94	
MW-4																
6/10/1991	--	20.75	6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
10/10/1991	--		6.00	9.00	--	--	15,000	5,300	1,500	470	1,300	--	--	--	--	b
3/23/1992	--		6.00	9.00	--	--	24,000	5,600	4,000	580	3,100	--	--	--	--	b
6/8/1992	--		6.00	9.00	--	--	5,700	2,000	170	92	270	--	--	--	--	b
9/15/1992	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/16/1992	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
2/16/1993	--		6.00	9.00	7.10	13.65	12,000	920	1,100	130	750	--	--	--	--	
5/13/1993	--		6.00	9.00	7.02	13.73	19,000	2,900	2,800	360	1,900	--	--	--	--	
8/17/1993	--		6.00	9.00	7.85	12.90	8,100	1,600	1,300	170	730	--	--	--	--	
11/8/1993	--		6.00	9.00	--	--	2,000	540	110	10	240	--	--	--	--	b
2/14/1994	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
5/5/1994	--		6.00	9.00	7.73	13.02	1,900	510	78	31	150	--	--	--	--	
8/4/1994	--		6.00	9.00	7.83	12.92	1,300	360	17	<5	190	--	--	--	--	n
11/20/1994	--		6.00	9.00	7.73	13.02	<50	2.9	0.5	<0.5	1.4	--	--	--	--	
3/17/1995	--		6.00	9.00	6.65	14.10	16,000	1,800	970	310	2,500	--	--	--	--	
6/1/1995	--		6.00	9.00	7.25	13.50	16,000	2,800	870	380	2,700	--	--	--	--	
8/31/1995	--		6.00	9.00	7.75	13.00	9,000	2,000	270	270	1,400	<100	--	--	--	
11/27/1995	--		6.00	9.00	7.87	12.88	3,800	890	130	130	550	--	--	--	--	
2/22/1996	--		6.00	9.00	7.29	13.46	940	150	82	19	130	<20	--	--	--	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-4 Cont.																
5/20/1996	--	20.75	6.00	9.00	7.30	13.45	6,700	1,100	330	120	1,100	<100	--	--	--	
8/26/1996	--		6.00	9.00	7.57	13.18	14,000	2,400	510	350	2,100	<100	--	--	--	
11/20/1996	--		6.00	9.00	7.89	12.86	420	55	17	11	62	<3	--	--	--	
3/24/1997	--	22.38	6.00	9.00	6.90	15.48	6,800	620	150	81	1,300	<50	--	--	--	
5/23/1997	--		6.00	9.00	7.80	14.58	9,000	1,300	240	200	1,600	<60	--	--	--	
8/19/1997	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/19/1997	--		6.00	9.00	--	--	3700	600	93	120	710	<60	--	--	--	b, j
2/19/1998	--		6.00	9.00	6.78	15.60	1,800	93	51	29	420	110	--	--	--	
4/23/1998	--		6.00	9.00	6.47	15.91	6,500	700	110	180	1,300	93	--	0.5	--	
7/27/1998	--		6.00	9.00	7.22	15.16	10,000	1,400	140	290	1,900	<120	--	1.5	--	
10/14/1998	--		6.00	9.00	7.60	14.78	6,500	900	63	200	1,200	63	--	1	--	
1/21/1999	--		6.00	9.00	7.43	14.95	1,700	140	22	56	320	13	--	0.5	--	
5/6/1999	--		6.00	9.00	6.55	15.83	3,300	250	36	73	890	41	--	1.28	--	
8/23/1999	--		6.00	9.00	7.16	15.22	7,400	500	73	230	1,700	57	--	0.89	--	
10/28/1999	--		6.00	9.00	8.28	14.10	370	41	5.7	14	52	16	--	0.92	--	
2/4/2000	--		6.00	9.00	8.23	14.15	310	33	7.5	11	65	8	--	2.43	--	
6/20/2000	--		6.00	9.00	6.46	15.92	2,700	210	20	94	520	46	--	--	--	
9/29/2000	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
12/17/2000	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
3/28/2001	--		6.00	9.00	7.49	14.89	--	--	--	--	--	--	--	--	--	b
6/20/2001	--		6.00	9.00	7.21	15.17	13,000	690	170	330	1,400	110	--	--	--	
9/22/2001	--		6.00	9.00	7.43	14.95	6,700	650	110	410	1,800	100	--	--	--	
12/27/2001	--		6.00	9.00	7.32	15.06	1,200	47	15	46	250	15	--	--	--	
3/15/2002	--		6.00	9.00	7.43	14.95	490	34	7.4	26	110	12	--	--	--	
4/18/2002	--		6.00	9.00	7.00	15.38	<50	0.57	0.83	<0.5	1.1	3.7	--	--	--	
7/23/2002	NP		6.00	9.00	7.70	14.68	820	80	12	23	190	41	--	2.2	7.3	d
10/16/2002	NP		6.00	9.00	7.75	14.63	2,000	220	25	140	570	<25	--	1.8	7.6	d
1/23/2003	NP		6.00	9.00	7.11	15.27	<250	<2.5	<2.5	<2.5	8.8	5.9	--	1.7	7	g

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

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							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-4 Cont.																
4/7/2003	--	22.38	6.00	9.00	7.19	15.19	310	24	2.4	15	62	9.2	--	1.1	7.1	
8/7/2003	--		6.00	9.00	7.45	14.93	3,000	280	<25	150	700	<25	--	1.2	6.8	m
10/23/2003	NP		6.00	9.00	7.59	14.79	1,700	150	7.6	83	320	12	--	--	--	m
01/12/2004	NP		6.00	9.00	7.40	14.98	260	4.4	<2.5	<2.5	27	4.3	--	2.4	7.3	
04/20/2004	NP	23.32	6.00	9.00	7.38	15.94	1,500	160	<5.0	50	320	12	--	1.4	7.1	r
07/01/2004	NP		6.00	9.00	7.78	15.54	1,800	150	5.2	16	260	15	--	1.9	7.0	
11/04/2004	NP		6.00	9.00	7.75	15.57	640	38	1.9	2.1	110	5.7	--	1.9	7.0	
01/10/2005	NP		6.00	9.00	7.54	15.78	<50	1.1	<0.50	<0.50	0.96	2.5	--	1.61	7.0	
04/14/2005	NP		6.00	9.00	7.20	16.12	320	16	0.69	1.4	48	4.5	--	2.5	7.0	
08/02/2005	NP		6.00	9.00	7.35	15.97	1,100	77	2.8	9.0	190	7.1	--	--	6.8	
10/21/2005	NP		6.00	9.00	7.25	16.07	1,700	84	3.9	6.5	250	10	--	1.99	6.9	
01/04/2006	NP		6.00	9.00	7.52	15.80	460	14	<1.0	2.1	72	3.7	--	1.15	7.2	
04/28/2006	NP		6.00	9.00	6.55	16.77	670	17	<1.0	3.7	33	3.7	--	1.39	7.0	
8/4/2006	NP		6.00	9.00	7.00	16.32	2,800	240	9.3	14	280	15	--	1.26	7.1	
10/23/2006	P		6.00	9.00	7.33	15.99	2,100	200	7.8	17	150	16	--	--	7.08	
1/15/2007	--		6.00	9.00	7.60	15.72	--	--	--	--	--	--	--	--	--	
4/17/2007	NP		6.00	9.00	7.47	15.85	110	9.0	<1.0	1.0	4.5	3.5	--	3.79	7.25	
7/9/2007	NP		6.00	9.00	7.55	15.77	1,400	130	5.4	14	96	14	--	3.55	7.40	
10/1/2007	NP		6.00	9.00	7.69	15.63	1,300	120	6.4	12	91	11	--	3.08	7.42	
1/7/2008	NP		6.00	9.00	7.38	15.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.25	7.26	
4/1/2008	NP		6.00	9.00	7.05	16.27	190	<0.50	<0.50	<0.50	<0.50	0.68	--	1.32	7.12	
7/23/2008	--		6.00	9.00	7.36	15.96	--	--	--	--	--	--	--	--	--	c
10/22/2008	--		6.00	9.00	7.41	15.91	--	--	--	--	--	--	--	--	--	c
1/21/2009	--		6.00	9.00	7.39	15.93	--	--	--	--	--	--	--	--	--	c
4/21/2009	NP		6.00	9.00	6.90	16.42	<50	<0.50	<0.50	<0.50	<0.50	1.5	--	1.18	7.28	
7/21/2009	--		6.00	9.00	7.18	16.14	--	--	--	--	--	--	--	--	--	
1/12/2010	--		6.00	9.00	7.23	16.09	--	--	--	--	--	--	--	--	--	
6/3/2010	P		6.00	9.00	6.35	16.97	650	38	<0.50	0.71	<0.50	2.3	--	1.10	7.1	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-4 Cont.																
7/22/2010	--	23.32	6.00	9.00	7.34	15.98	--	--	--	--	--	--	--	--	--	
2/18/2011	--		6.00	9.00	6.89	16.43	--	--	--	--	--	--	--	--	--	
8/25/2011	--		6.00	9.00	6.50	16.82	--	--	--	--	--	--	--	--	--	
1/17/2012	--		6.00	9.00	7.07	16.25	--	--	--	--	--	--	--	--	--	
7/24/2012	--		6.00	9.00	6.70	16.62	--	--	--	--	--	--	--	--	--	
1/31/2013	--		6.00	9.00	6.06	17.26	--	--	--	--	--	--	--	--	--	
7/30/2013	--		6.00	9.00	6.91	16.41	--	--	--	--	--	--	--	--	--	
MW-5																
6/10/1991	--	20.90	6.00	10.50	7.58	13.32	100,000	25,000	20,000	2,600	12,000	--	--	--	--	
10/10/1991	--		6.00	10.50	8.51	12.39	--	--	--	--	--	--	--	--	--	a
3/23/1992	--		6.00	10.50	6.06	14.84	150,000	24,000	31,000	4,400	23,000	--	--	--	--	
6/8/1992	--		6.00	10.50	7.66	13.24	120,000	17,000	13,000	2,400	11,000	--	--	--	--	
9/15/1992	--		6.00	10.50	8.40	12.50	--	--	--	--	--	--	--	--	--	l
11/16/1992	--		6.00	10.50	7.70	13.20	110,000	16,000	16,000	3,200	18,000	--	--	--	--	
2/16/1993	--		6.00	10.50	5.64	15.26	150,000	12,000	15,000	3,000	17,000	--	--	--	--	
5/13/1993	--		6.00	10.50	6.68	14.22	--	--	--	--	--	--	--	--	--	l
8/17/1993	--		6.00	10.50	7.49	13.41	87,000	15,000	8,500	1,900	11,000	--	--	--	--	
11/8/1993	--		6.00	10.50	7.93	12.97	87,000	12,000	8,300	2,000	12,000	--	--	--	--	
2/14/1994	--		6.00	10.50	6.49	14.41	46,000	7,300	5,300	940	5,200	--	--	--	--	
5/5/1994	--		6.00	10.50	7.18	13.72	54,000	9,700	4,700	1,000	6,400	--	--	--	--	
8/4/1994	--		6.00	10.50	7.83	13.07	57,000	14,000	3,200	1,200	7,200	--	--	--	--	
11/20/1994	--		6.00	10.50	6.34	14.56	33,000	5,700	1,800	720	4,700	--	--	--	--	
3/17/1995	--		6.00	10.50	5.51	15.39	48,000	6,400	2,000	740	5,100	--	--	--	--	
6/1/1995	--		6.00	10.50	6.55	14.35	76,000	11,000	5,400	1,400	7,700	--	--	--	--	
8/31/1995	--		6.00	10.50	6.80	14.10	53,000	12,000	1,600	1,000	6,000	<500	--	--	--	
11/27/1995	--		6.00	10.50	7.13	13.77	43,000	7,900	3,300	950	4,900	--	--	--	--	
2/22/1996	--		6.00	10.50	5.12	15.78	52,000	9,100	3,300	940	5,000	<500	--	--	--	
5/20/1996	--		6.00	10.50	5.87	15.03	55,000	9,300	3,800	1,100	5,400	<500	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-5 Cont.																
8/26/1996	--	20.90	6.00	10.50	7.15	13.75	47,000	5,300	2,100	780	3,200	<300	--	--	--	
11/20/1996	--		6.00	10.50	6.88	14.02	53,000	8,700	5,700	920	4,400	<500	--	--	--	
3/24/1997	--	22.45	6.00	10.50	7.13	15.32	39,000	8,200	3,200	720	3,100	<500	--	--	--	
5/23/1997	--		6.00	10.50	7.42	15.03	29,000	6,600	1,700	400	1,500	<600	--	--	--	
8/19/1997	--		6.00	10.50	7.58	14.87	16,000	4,600	790	<50	1,300	<300	--	--	--	
11/19/1997	--		6.00	10.50	7.58	14.87	22,000	5,800	1,300	380	1,300	<300	--	--	--	
2/19/1998	--		6.00	10.50	4.65	17.80	40,000	5,100	3,800	620	2,900	<300	--	--	--	
4/23/1998	--		6.00	10.50	6.25	16.20	45,000	8,000	4,000	970	4,200	<600	--	1.5	--	
7/27/1998	--		6.00	10.50	6.71	15.74	30,000	8,000	2,000	590	1,900	<600	--	1.5	--	
10/14/1998	--		6.00	10.50	7.19	15.26	33,000	7,400	1,900	550	1,700	<300	--	1.5	--	
1/21/1999	--		6.00	10.50	7.03	15.42	34,000	6,200	2,600	630	2,300	<600	--	2.5	--	
5/6/1999	--		6.00	10.50	7.02	15.43	7,900	2,400	200	240	580	12	--	1.07	--	
8/23/1999	--		6.00	10.50	7.04	15.41	25,000	5,800	2,300	570	2,000	67	--	1.04	--	
10/28/1999	--		6.00	10.50	7.90	14.55	20,000	5,900	1,100	450	1,100	<250	--	0.87	--	
2/4/2000	--		6.00	10.50	6.71	15.74	32,000	2,500	3,800	770	4,200	<75	--	2.33	--	
6/20/2000	--		6.00	10.50	6.78	15.67	10,000	3,000	650	260	700	<200	--	--	--	
9/29/2000	--		6.00	10.50	--	--	--	--	--	--	--	--	--	--	--	b
12/17/2000	--		6.00	10.50	--	--	--	--	--	--	--	--	--	--	--	b
3/28/2001	--		6.00	10.50	6.48	15.97	23,400	4,160	3,450	728	3,090	<250	--	--	--	
6/20/2001	--		6.00	10.50	7.26	15.19	120,000	1,200	49	190	540	<100	--	--	--	
9/22/2001	--		6.00	10.50	--	--	--	--	--	--	--	--	--	--	--	b
12/27/2001	--		6.00	10.50	6.56	15.89	16,000	1,500	2,700	730	3,200	<250	--	--	--	
3/15/2002	--		6.00	10.50	6.90	15.55	20,000	2,600	3,300	1,000	4,000	<250	--	--	--	
4/18/2002	--		6.00	10.50	6.17	16.28	17,000	3,200	2,900	790	3,000	<250	--	--	--	
7/23/2002	NP		6.00	10.50	7.36	15.09	4,600	1,400	30	160	470	110	--	1.7	7.5	d
10/16/2002	NP		6.00	10.50	7.66	14.79	5,400	1,300	<20	62	150	<100	--	1.1	7.5	d
1/23/2003	NP		6.00	10.50	6.28	16.17	<5,000	110	<50	<50	98	<50	--	1.1	7.6	g
4/7/2003	--		6.00	10.50	7.21	15.24	1,600	310	18	36	62	32	--	1.5	7.2	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-5 Cont.																
8/7/2003	--	22.45	6.00	10.50	7.46	14.99	<50	1.8	<0.50	<0.50	<0.50	3.5	--	12.2	9	m
10/23/2003	NP		6.00	10.50	7.68	14.77	76	14	<0.50	0.77	0.61	12	--	--	--	m
01/12/2004	NP		6.00	10.50	6.34	16.11	<50	1.5	0.68	<0.50	0.62	11	--	6.8	8.8	
04/20/2004	NP	23.47	6.00	10.50	8.12	15.35	300	53	13	12	29	12	--	8.9	8.5	r
07/01/2004	NP		6.00	10.50	8.62	14.85	<50	0.56	<0.50	<0.50	<0.50	11	--	10.6	8.5	
11/04/2004	NP		6.00	10.50	7.01	16.46	90	6.3	0.94	1.3	5.7	9.4	--	7.5	7.6	
01/10/2005	NP		6.00	10.50	5.51	17.96	710	0.55	<0.50	0.52	53	40	--	1.54	7.2	
04/14/2005	NP		6.00	10.50	5.67	17.80	1,800	130	5.9	54	350	40	--	2.0	6.8	
08/02/2005	NP		6.00	10.50	5.94	17.53	3,800	210	7.3	250	520	19	--	--	6.9	
10/21/2005	NP		6.00	10.50	6.69	16.78	4,100	330	7.4	190	420	16	--	1.42	6.9	
01/04/2006	NP		6.00	10.50	5.55	17.92	5,100	580	14	210	420	30	--	0.62	6.8	
04/28/2006	NP		6.00	10.50	5.52	17.95	2,900	190	5.9	59	150	9.9	--	1.74	7.0	
8/4/2006	NP		6.00	10.50	6.51	16.96	3,800	380	7.6	34	140	14	--	0.82	6.9	
10/23/2006	P		6.00	10.50	7.34	16.13	3,300	310	96	70	210	13	--	--	6.99	
1/15/2007	P		6.00	10.50	6.67	16.80	5,600	320	300	220	820	10	--	1.03	7.03	
4/17/2007	NP		6.00	10.50	6.72	16.75	3,400	200	12	160	250	5.9	--	2.25	7.11	
7/9/2007	NP		6.00	10.50	7.30	16.17	2,600	240	7.0	15	63	6.9	--	2.28	7.16	
10/1/2007	NP		6.00	10.50	7.56	15.91	2,300	220	5.4	4.6	13	4.2	--	2.33	7.19	
1/7/2008	NP		6.00	10.50	6.12	17.35	2,100	190	8.8	18	46	4.1	--	1.06	6.97	
4/1/2008	NP		6.00	10.50	6.48	16.99	2,300	87	2.9	27	68	1.8	--	2.50	7.01	
7/23/2008	NP		6.00	10.50	7.16	16.31	2,900	210	<10	52	78	<10	--	1.4	7.03	
10/22/2008	NP		6.00	10.50	7.77	15.70	4,000	310	7.4	<5.0	7.9	<5.0	--	2.64	7.01	
1/21/2009	P		6.00	10.50	7.26	16.21	2,300	51	<5.0	9.4	17	<5.0	--	0.19	7.18	a
4/21/2009	NP		6.00	10.50	6.83	16.64	2,100	0.69	<0.50	<0.50	11	0.74	--	1.54	7.08	
7/21/2009	--		6.00	10.50	7.57	15.90	--	--	--	--	--	--	--	--	--	
1/12/2010	--		6.00	10.50	6.80	16.67	--	--	--	--	--	--	--	--	--	
6/3/2010	P		6.00	10.50	6.38	17.09	6,200	140	18	78	110	<2.5	--	1.77	6.9	
7/22/2010	--		6.00	10.50	7.08	16.39	--	--	--	--	--	--	--	--	--	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-5 Cont.																
2/18/2011	--	23.47	6.00	10.50	6.37	17.10	--	--	--	--	--	--	--	--	--	
8/25/2011	--		6.00	10.50	6.90	16.57	--	--	--	--	--	--	--	--	--	
1/17/2012	--		6.00	10.50	7.57	15.90	--	--	--	--	--	--	--	--	--	
7/24/2012	--		6.00	10.50	7.08	16.39	--	--	--	--	--	--	--	--	--	
1/31/2013	--		6.00	10.50	6.57	16.90	--	--	--	--	--	--	--	--	--	
7/30/2013	--		6.00	10.50	7.56	15.91	--	--	--	--	--	--	--	--	--	
MW-6																
6/10/1991	--	22.08	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
10/10/1991	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
3/23/1992	--		5.50	9.00	7.45	14.63	75,000	19,000	10,000	1,600	8,600	--	--	--	--	
6/8/1992	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
9/15/1992	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/16/1992	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
2/16/1993	--		5.50	9.00	6.79	15.29	65,000	14,000	3,500	1,300	6,100	--	--	--	--	
5/13/1993	--		5.50	9.00	7.73	14.35	36,000	8,200	870	1,000	5,200	--	--	--	--	
8/17/1993	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/8/1993	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
2/14/1994	--		5.50	9.00	7.78	14.30	47,000	14,000	390	1,000	5,100	--	--	--	--	
5/5/1994	--		5.50	9.00	8.24	13.84	45,000	14,000	<200	1,300	4,500	--	--	--	--	n
8/4/1994	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/20/1994	--		5.50	9.00	7.41	14.67	30,000	11,000	<100	1,200	2,300	--	--	--	--	n
3/17/1995	--		5.50	9.00	6.66	15.42	45,000	9,300	<100	1,900	3,600	--	--	--	--	n
6/1/1995	--		5.50	9.00	7.60	14.48	23,000	5,600	<50	1,300	1,900	--	--	--	--	
8/31/1995	--		5.50	9.00	7.92	14.16	26,000	8,000	<100	1,900	900	<500	--	--	--	
11/27/1995	--		5.50	9.00	8.21	13.87	6,700	1,800	<20	480	230	--	--	--	--	
2/22/1996	--		5.50	9.00	6.21	15.87	17,000	3,100	69	810	1,500	<300	--	--	--	
5/20/1996	--		5.50	9.00	7.07	15.01	16,000	3,700	<50	1,100	1,100	<300	--	--	--	
8/26/1996	--		5.50	9.00	7.93	14.15	23,000	5,800	<50	2,000	560	<300	--	--	--	

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							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-6 Cont.																
11/20/1996	--	22.08	5.50	9.00	8.02	14.06	11,000	3,300	<50	480	370	<300	--	--	--	j
3/24/1997	--	22.77	5.50	9.00	7.95	14.82	9,700	1,900	<20	800	270	<100	--	--	--	
5/23/1997	--		5.50	9.00	8.17	14.60	16,000	4,300	<50	1,400	180	<300	--	--	--	
8/19/1997	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/19/1997	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
2/19/1998	--		5.50	9.00	5.78	16.99	2,600	540	8	90	88	<30	--	--	--	
4/23/1998	--		5.50	9.00	6.83	15.94	7,600	1,300	13	520	190	<60	--	0.5	--	
7/27/1998	--		5.50	9.00	7.80	14.97	15,000	3,600	<25	1,100	230	<150	--	1	--	
10/14/1998	--		5.50	9.00	8.31	14.46	8,700	2,400	<20	220	36	<120	--	2	--	
1/21/1999	--		5.50	9.00	7.90	14.87	4,800	1,100	<25	340	79	<150	--	2	--	
5/6/1999	--		5.50	9.00	7.70	15.07	1,300	240	2.3	85	19	5	--	1.18	--	
8/23/1999	--		5.50	9.00	8.24	14.53	4,200	970	12	110	29	<15	--	0.9	--	
10/28/1999	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
2/4/2000	--		5.50	9.00	7.31	15.46	110	<0.5	0.6	1.5	1.9	11	--	1.1	--	
6/20/2000	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
9/29/2000	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
12/17/2000	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
3/28/2001	--		5.50	9.00	7.57	15.20	--	--	--	--	--	--	--	--	--	b
6/20/2001	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
9/22/2001	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
12/27/2001	--		5.50	9.00	7.21	15.56	<50	2.6	0.57	1.1	1.6	<2.5	--	--	--	
3/15/2002	--		5.50	9.00	7.51	15.26	2,100	380	8.6	110	17	<25	--	--	--	
4/18/2002	--		5.50	9.00	6.89	15.88	2,200	440	12	96	14	52	--	--	--	
7/23/2002	NP		5.50	9.00	8.50	14.27	--	--	--	--	--	--	--	--	--	
10/16/2002	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
1/23/2003	--		5.50	9.00	8.05	14.72	<250	58	<2.5	6.2	3.8	17	--	2.1	--	g, h
1/23/2003	NP		5.50	9.00	8.05	14.72	<5,000	<50	<50	<50	<50	<50	--	2.1	6.4	g
4/7/2003	--		5.50	9.00	8.11	14.66	330	13	<0.50	2.7	8.6	15	--	2.2	6.9	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-6 Cont.																
8/7/2003	--	22.77	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
10/23/2003	NP		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	
01/12/2004	NP		5.50	9.00	7.63	15.14	3,600	560	<25	120	<25	150	--	0.6	7.1	
04/20/2004	NP	24.66	5.50	9.00	8.54	16.12	--	--	--	--	--	--	--	--	--	c, r
07/01/2004	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/04/2004	NP		5.50	9.00	8.10	16.56	4,900	580	<10	180	30	230	--	2.9	6.9	
01/10/2005	NP		5.50	9.00	7.03	17.63	5,400	540	<25	150	46	240	--	1.29	6.9	
04/14/2005	NP		5.50	9.00	6.85	17.81	3,600	410	5.2	100	25	210	--	2.7	--	
08/02/2005	NP		5.50	9.00	7.28	17.38	4,300	340	<5.0	110	44	150	--	--	6.8	
10/21/2005	NP		5.50	9.00	7.38	17.28	3,400	250	<5.0	80	20	110	--	2.38	6.8	
01/04/2006	NP		5.50	9.00	7.20	17.46	2,800	270	4.0	75	14	130	--	1.07	7.3	
04/28/2006	NP		5.50	9.00	6.60	18.06	4,400	170	<2.5	45	7.2	170	--	1.3	6.8	
8/4/2006	NP		5.50	9.00	7.50	17.16	2,200	93	<2.5	15	9.0	110	--	1.23	6.7	
10/23/2006	--		5.50	9.00	8.48	16.18	--	--	--	--	--	--	--	--	--	
1/15/2007	--		5.50	9.00	8.05	16.61	--	--	--	--	--	--	--	--	--	
4/17/2007	NP		5.50	9.00	7.58	17.08	330	5.6	<1.0	1.5	1.2	24	--	1.82	7.02	
7/9/2007	NP		5.50	9.00	8.34	16.32	1,600	63	1.4	16	9.4	51	--	1.73	7.13	
10/1/2007	--		5.50	9.00	8.60	16.06	--	--	--	--	--	--	--	--	--	
1/7/2008	NP		5.50	9.00	7.22	17.44	300	2.2	<0.50	2.8	1.0	37	--	3.24	7.16	
4/1/2008	NP		5.50	9.00	7.87	16.79	110	<0.50	<0.50	<0.50	<0.50	1.4	--	6.21	7.19	
7/23/2008	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
10/22/2008	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
1/21/2009	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
4/21/2009	--		5.50	9.00	7.91	16.75	--	--	--	--	--	--	--	--	--	c
7/21/2009	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
1/12/2010	--		5.50	9.00	8.11	16.55	--	--	--	--	--	--	--	--	--	
6/3/2010	--		5.50	9.00	7.45	17.21	--	--	--	--	--	--	--	--	--	
7/22/2010	--		5.50	9.00	8.19	16.47	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-6 Cont.																
2/18/2011	--	24.66	5.50	9.00	7.48	17.18	--	--	--	--	--	--	--	--	--	
8/25/2011	--		5.50	9.00	6.99	17.67	--	--	--	--	--	--	--	--	--	
1/17/2012	--		5.50	9.00	8.63	16.03	--	--	--	--	--	--	--	--	--	
7/24/2012	--		5.50	9.00	8.25	16.41	--	--	--	--	--	--	--	--	--	
1/31/2013	--		5.50	9.00	7.62	17.04	--	--	--	--	--	--	--	--	--	
7/30/2013	--		5.50	9.00	8.25	16.41	--	--	--	--	--	--	--	--	--	
MW-7																
6/10/1991	--	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
10/10/1991	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
3/23/1992	--		8.00	10.00	8.20	14.69	270	10	0.5	3	13	--	--	--	--	
6/8/1992	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
9/15/1992	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
11/16/1992	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
2/16/1993	--		8.00	10.00	7.84	15.05	120	3.6	<0.5	<0.5	1.2	--	--	--	--	
5/13/1993	--		8.00	10.00	8.56	14.33	<50	0.8	<0.5	<0.5	<0.5	--	--	--	--	
8/17/1993	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
11/8/1993	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
2/14/1994	--		8.00	10.00	8.80	14.09	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/5/1994	--		8.00	10.00	9.11	13.78	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/4/1994	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
11/20/1994	--		8.00	10.00	8.72	14.17	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
3/17/1995	--		8.00	10.00	7.68	15.21	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		8.00	10.00	8.40	14.49	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/31/1995	--		8.00	10.00	9.09	13.80	<50	<0.5	<0.5	0.6	<0.5	<3	--	--	--	
11/27/1995	--		8.00	10.00	9.15	13.74	<50	<0.5	<0.5	0.9	<0.5	--	--	--	--	
2/22/1996	--		8.00	10.00	7.44	15.45	110	1.4	<0.5	3.8	3	<3	--	--	--	
5/20/1996	--		8.00	10.00	8.47	14.42	--	--	--	--	--	--	--	--	--	
8/26/1996	--		8.00	10.00	8.81	14.08	--	--	--	--	--	--	--	--	--	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-7 Cont.																
11/20/1996	--	22.89	8.00	10.00	9.17	13.72	--	--	--	--	--	--	--	--	--	
3/24/1997	--		8.00	10.00	8.31	14.58	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/23/1997	--		8.00	10.00	9.26	13.63	--	--	--	--	--	--	--	--	--	
8/19/1997	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
11/19/1997	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
2/19/1998	--		8.00	10.00	6.13	16.76	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
4/23/1998	--		8.00	10.00	7.44	15.45	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.5	--	
7/27/1998	--		8.00	10.00	8.75	14.14	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--	
10/14/1998	--		8.00	10.00	9.22	13.67	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--	
1/21/1999	--		8.00	10.00	9.07	13.82	52	<0.5	<0.5	<0.5	0.27	<3	--	3.0	--	
5/6/1999	--		8.00	10.00	8.32	14.57	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.83	--	
8/23/1999	--		8.00	10.00	9.25	13.64	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.42	--	
10/28/1999	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
2/4/2000	--		8.00	10.00	8.79	14.10	<50	<0.5	<0.5	<0.5	<1	<3	--	4.46	--	
6/20/2000	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
9/29/2000	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
12/17/2000	--		8.00	10.00	8.93	13.96	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/28/2001	--		8.00	10.00	8.35	14.54	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
9/22/2001	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
12/27/2001	--		8.00	10.00	8.42	14.47	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/15/2002	--		8.00	10.00	8.54	14.35	<50	1.3	2.6	1.1	5.4	<2.5	--	--	--	
4/18/2002	--		8.00	10.00	7.84	15.05	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	3.32	--	
7/23/2002	NP		8.00	10.00	9.51	13.38	--	--	--	--	--	--	--	--	--	
10/16/2002	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
1/23/2003	NP		8.00	10.00	8.04	14.85	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	5.4	6.7	g
4/7/2003	--		8.00	10.00	8.39	14.50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	5.1	6.9	
8/7/2003	--		8.00	10.00	9.01	13.88	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	4.5	6.9	

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							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-7 Cont.																
10/23/2003	NP	22.89	8.00	10.00	9.22	13.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	
01/12/2004	NP		8.00	10.00	8.81	14.08	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	5.8	7.3	
04/20/2004	NP	25.46	8.00	10.00	8.95	16.51	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	5.6	7.2	r
07/01/2004	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
11/04/2004	NP		8.00	10.00	9.04	16.42	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	5.4	7.1	
01/10/2005	NP		8.00	10.00	8.25	17.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	7.02	7.0	
04/14/2005	--		8.00	10.00	7.95	17.51	--	--	--	--	--	--	--	--	--	
08/02/2005	NP		8.00	10.00	8.40	17.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	6.8	
10/21/2005	--		8.00	10.00	8.92	16.54	--	--	--	--	--	--	--	--	--	
01/04/2006	--		8.00	10.00	8.62	16.84	--	--	--	--	--	--	--	--	--	
04/28/2006	--		8.00	10.00	7.78	17.68	--	--	--	--	--	--	--	--	--	
8/4/2006	NP		8.00	10.00	8.78	16.68	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	4.49	7.2	
10/23/2006	--		8.00	10.00	9.39	16.07	--	--	--	--	--	--	--	--	--	
1/15/2007	--		8.00	10.00	9.06	16.40	--	--	--	--	--	--	--	--	--	
4/17/2007	--		8.00	10.00	9.12	16.34	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
10/1/2007	--		8.00	10.00	9.60	15.86	--	--	--	--	--	--	--	--	--	
1/7/2008	--		8.00	10.00	8.99	16.47	--	--	--	--	--	--	--	--	--	
4/1/2008	--		8.00	10.00	8.35	17.11	--	--	--	--	--	--	--	--	--	
7/23/2008	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
10/22/2008	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
1/21/2009	--		8.00	10.00	9.35	16.11	--	--	--	--	--	--	--	--	--	
4/21/2009	--		8.00	10.00	8.72	16.74	--	--	--	--	--	--	--	--	--	
7/21/2009	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
1/12/2010	--		8.00	10.00	9.11	16.35	--	--	--	--	--	--	--	--	--	
6/3/2010	--		8.00	10.00	8.34	17.12	--	--	--	--	--	--	--	--	--	
7/22/2010	--		8.00	10.00	9.13	16.33	--	--	--	--	--	--	--	--	--	
2/18/2011	--		8.00	10.00	8.51	16.95	--	--	--	--	--	--	--	--	--	

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-7 Cont.																
8/25/2011	--	25.46	8.00	10.00	9.11	16.35	--	--	--	--	--	--	--	--	--	
1/17/2012	--		8.00	10.00	9.49	15.97	--	--	--	--	--	--	--	--	--	
7/24/2012	--		8.00	10.00	8.77	16.69	--	--	--	--	--	--	--	--	--	
1/31/2013	--		8.00	10.00	8.43	17.03	--	--	--	--	--	--	--	--	--	
7/30/2013	--		8.00	10.00	9.57	15.89	--	--	--	--	--	--	--	--	--	
MW-8																
6/10/1991	--	20.97	6.50	10.50	7.80	13.17	5,800	73	7.2	150	21	--	--	--	--	
10/10/1991	--		6.50	10.50	8.87	12.10	2,800	31	6.1	4.5	3.9	--	--	--	--	
3/23/1992	--		6.50	10.50	5.81	15.16	8,000	18	<5	320	42	--	--	--	--	n
6/8/1992	--		6.50	10.50	8.01	12.96	4,000	<10	<10	110	<10	--	--	--	--	n
9/15/1992	--		6.50	10.50	8.80	12.17	4,200	6.4	<5	120	<5	--	--	--	--	n
11/16/1992	--		6.50	10.50	8.19	12.78	2,600	4	<2.5	21	5.2	--	--	--	--	n
2/16/1993	--		6.50	10.50	5.84	15.13	8,700	<5	<5	200	<5	--	--	--	--	n
5/13/1993	--		6.50	10.50	6.93	14.04	2,300	<5	<5	42	<5	--	--	--	--	n
8/17/1993	--		6.50	10.50	7.87	13.10	1,700	1.8	<1.3	16	1.2	--	--	--	--	n
11/8/1993	--		6.50	10.50	8.31	12.66	1,200	2.4	<1	19	2.3	--	--	--	--	n
2/14/1994	--		6.50	10.50	7.00	13.97	3,600	3	<1	72	<1	--	--	--	--	n
5/5/1994	--		6.50	10.50	7.46	13.51	2,100	<2.5	<2.5	8.3	<2.5	--	--	--	--	n
8/4/1994	--		6.50	10.50	8.17	12.80	1,200	1.5	<1	6.7	<1	--	--	--	--	n
11/20/1994	--		6.50	10.50	6.78	14.19	2,300	1.2	1.1	20	2.2	--	--	--	--	
3/17/1995	--		6.50	10.50	6.14	14.83	5,400	<5	<5	35	<5	--	--	--	--	n
6/1/1995	--		6.50	10.50	6.50	14.47	2,600	<2.5	<2.5	15	<2.5	--	--	--	--	
8/31/1995	--		6.50	10.50	7.35	13.62	1,400	<3	<3	5	<3	520	--	--	--	
11/27/1995	--		6.50	10.50	7.60	13.37	620	<0.5	<0.5	<0.5	0.5	560	--	--	--	
2/22/1996	--		6.50	10.50	5.35	15.62	5,800	<5	<5	28	<5	110	--	--	--	
5/20/1996	--		6.50	10.50	5.92	15.05	6,100	<5	<5	26	<5	240	--	--	--	
8/26/1996	--		6.50	10.50	7.08	13.89	970	<1	<1	3	<1	710	--	--	--	
11/20/1996	--		6.50	10.50	7.01	13.96	3,900	<2.5	<2.5	12	<2.5	930	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-8 Cont.																
3/24/1997	--	20.89	6.50	10.50	7.33	13.56	1,400	<10	<10	<10	12	1,300	--	--	--	
5/23/1997	--		6.50	10.50	7.55	13.34	730	<5	<5	<5	<5	630	--	--	--	
8/19/1997	--		6.50	10.50	7.87	13.02	<500	<5	<5	<5	<5	290	--	--	--	
11/19/1997	--		6.50	10.50	7.87	13.02	<200	<2	<2	<2	<2	260	--	--	--	
2/19/1998	--		6.50	10.50	4.46	16.43	2,000	<2	<2	9	<2	140	--	--	--	
4/23/1998	--		6.50	10.50	6.35	14.54	4,500	<5	<5	<5	11	590	--	0.5	--	
7/27/1998	--		6.50	10.50	7.43	13.46	--	--	--	--	--	--	--	--	--	
10/14/1998	--		6.50	10.50	7.79	13.10	--	--	--	--	--	--	--	--	--	
1/21/1999	--		6.50	10.50	6.54	14.35	2,000	<2	<2	3	<2	320	--	2.5	--	
5/6/1999	--		6.50	10.50	7.30	13.59	<50	<0.5	<0.5	<0.5	<0.5	160	--	12.76	--	
8/23/1999	--		6.50	10.50	7.45	13.44	<50	<0.5	<0.5	<0.5	<0.5	5	--	7.85	--	
10/28/1999	--		6.50	10.50	8.22	12.67	160	<0.5	<0.5	<0.5	<1	45	--	0.84	--	
2/4/2000	--		6.50	10.50	8.47	12.42	<50	<0.5	<0.5	<0.5	<1	<3	--	1.92	--	
6/20/2000	--		6.50	10.50	7.23	13.66	150	<0.5	0.9	<0.5	<1.0	310	--	--	--	
9/29/2000	--		6.50	10.50	7.91	12.98	149	<0.5	<0.5	<0.5	<0.5	438	--	--	--	
12/17/2000	--		6.50	10.50	7.11	13.78	662	<5.0	<5.0	<5.0	<5.0	273	--	--	--	
3/28/2001	--		6.50	10.50	6.88	14.01	840	<5.0	<5.0	<5.0	<5.0	320	--	--	--	
6/20/2001	--		6.50	10.50	7.25	13.64	230	<0.5	<0.5	<0.5	0.65	330	--	--	--	
9/22/2001	--		6.50	10.50	8.14	12.75	<50	<0.5	<0.5	<0.5	<0.5	6.5	--	--	--	
12/27/2001	--		6.50	10.50	6.73	14.16	780	<0.5	<0.5	0.6	0.89	160	--	--	--	
3/15/2002	--		6.50	10.50	6.94	13.95	1,100	<10	<10	<10	<10	830	--	--	--	
4/18/2002	--		6.50	10.50	--	--	--	--	--	--	--	--	--	--	--	
7/23/2002	NP		6.50	10.50	7.89	13.00	<50	<0.50	<0.50	<0.50	<0.50	8.7	--	4.5	7.7	
10/16/2002	NP		6.50	10.50	8.13	12.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	4.2	7.5	
1/23/2003	NP		6.50	10.50	6.47	14.42	<50	<0.50	<0.50	<0.50	<0.50	2.6	--	4.0	7.5	g
4/7/2003	--		6.50	10.50	7.49	13.40	<50	<0.50	<0.50	<0.50	<0.50	19	--	4.7	7.5	
8/7/2003	--		6.50	10.50	7.93	12.96	<50	<0.50	<0.50	<0.50	<0.50	0.96	--	14.8	8.3	m
10/23/2003	NP		6.50	10.50	7.83	13.06	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	--	--	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-8 Cont.																
01/12/2004	NP	20.89	6.50	10.50	6.62	14.27	<50	<0.50	<0.50	<0.50	<0.50	13	--	11.2	9.0	
04/20/2004	NP	23.55	6.50	10.50	8.21	15.34	55	<0.50	<0.50	<0.50	<0.50	25	--	10.1	8.7	r
07/01/2004	NP		6.50	10.50	8.48	15.07	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	14.3	8.0	
11/04/2004	NP		6.50	10.50	7.19	16.36	<50	<0.50	<0.50	<0.50	<0.50	13	--	12.0	7.9	
01/10/2005	NP		6.50	10.50	5.42	18.13	<50	<0.50	<0.50	<0.50	<0.50	10	--	2.65	7.1	
04/14/2005	--		6.50	10.50	5.74	17.81	--	--	--	--	--	--	--	--	--	
08/02/2005	NP		6.50	10.50	6.60	16.95	<50	<0.50	<0.50	<0.50	<0.50	16	--	--	7.1	
10/21/2005	--		6.50	10.50	--	--	--	--	--	--	--	--	--	--	--	Well inaccessible p
01/04/2006	--		6.50	10.50	4.97	18.58	--	--	--	--	--	--	--	--	--	
04/28/2006	--		6.50	10.50	5.67	17.88	--	--	--	--	--	--	--	--	--	
8/4/2006	NP		6.50	10.50	7.37	16.18	<50	<0.50	<0.50	<0.50	<0.50	16	--	0.76	7.3	
10/23/2006	--		6.50	10.50	7.74	15.81	--	--	--	--	--	--	--	--	--	
1/15/2007	--		6.50	10.50	7.04	16.51	--	--	--	--	--	--	--	--	--	
4/17/2007	--		6.50	10.50	6.94	16.61	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		6.50	10.50	7.71	15.84	<50	<0.50	<0.50	<0.50	<0.50	17	--	1.90	7.25	
10/1/2007	--		6.50	10.50	8.00	15.55	--	--	--	--	--	--	--	--	--	
1/7/2008	--		6.50	10.50	5.79	17.76	--	--	--	--	--	--	--	--	--	
4/1/2008	--		6.50	10.50	6.89	16.66	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		6.50	10.50	7.80	15.75	<50	<0.50	<0.50	<0.50	<0.50	8.6	--	1.62	7.08	
10/22/2008	--		6.50	10.50	8.19	15.36	--	--	--	--	--	--	--	--	--	
1/21/2009	--		6.50	10.50	7.75	15.80	--	--	--	--	--	--	--	--	--	
4/21/2009	--		6.50	10.50	6.66	16.89	--	--	--	--	--	--	--	--	--	
7/21/2009	P		6.50	10.50	7.86	15.69	<50	<0.50	<0.50	<0.50	<0.50	3.3	--	13.97	7.56	
1/12/2010	--		6.50	10.50	6.89	16.66	--	--	--	--	--	--	--	--	--	
6/3/2010	--		6.50	10.50	6.45	17.10	--	--	--	--	--	--	--	--	--	
7/22/2010	NP		6.50	10.50	7.21	16.34	<50	<0.50	<0.50	<0.50	<0.50	4.3	--	1.05	7.39	
2/18/2011	--		6.50	10.50	6.55	17.00	--	--	--	--	--	--	--	--	--	
8/25/2011	P		6.50	10.50	7.12	16.43	<50	<0.50	<0.50	<0.50	<0.50	0.52	--	0.68	7.5	

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							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-8 Cont.																
1/17/2012	--	23.55	6.50	10.50	8.06	15.49	--	--	--	--	--	--	--	--	--	
7/24/2012	P		6.50	10.50	7.40	16.15	<50	<0.50	<0.50	<0.50	<1.0	1.4	--	0.84	7.30	
1/31/2013	--		6.50	10.50	6.76	16.79	--	--	--	--	--	--	--	--	--	
7/30/2013	P		6.50	10.50	7.91	15.64	<50	<0.50	<0.50	<0.50	<1.0	0.75	--	5.82	7.16	
MW-9																
6/11/1993	--	20.89	6.00	19.50	8.15	12.74	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/17/1993	--		6.00	19.50	8.53	12.36	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
11/8/1993	--		6.00	19.50	8.87	12.02	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
2/14/1994	--		6.00	19.50	7.47	13.42	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
5/5/1994	--		6.00	19.50	8.04	12.85	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/4/1994	--		6.00	19.50	8.78	12.11	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
11/20/1994	--		6.00	19.50	6.83	14.06	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
3/17/1995	--		6.00	19.50	6.94	13.95	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
6/1/1995	--		6.00	19.50	8.15	12.74	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/31/1995	--		6.00	19.50	8.10	12.79	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/27/1995	--		6.00	19.50	8.38	12.51	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
2/22/1996	--		6.00	19.50	7.36	13.53	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
5/20/1996	--		6.00	19.50	7.81	13.08	--	--	--	--	--	--	--	--	--	
8/26/1996	--		6.00	19.50	8.00	12.89	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/20/1996	--		6.00	19.50	7.06	13.83	--	--	--	--	--	--	--	--	--	
3/24/1997	--	22.26	6.00	19.50	7.74	14.52	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
5/23/1997	--		6.00	19.50	8.28	13.98	--	--	--	--	--	--	--	--	--	
8/19/1997	--		6.00	19.50	8.32	13.94	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/19/1997	--		6.00	19.50	8.32	13.94	--	--	--	--	--	--	--	--	--	
2/19/1998	--		6.00	19.50	7.11	15.15	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
4/23/1998	--		6.00	19.50	8.18	14.08	--	--	--	--	--	--	--	--	--	
7/27/1998	--		6.00	19.50	7.97	14.29	<50	<0.50	<0.50	<0.50	<0.50	<3	--	3.6	--	
10/14/1998	--		6.00	19.50	8.29	13.97	<50	<0.50	<0.50	<0.50	<0.50	<3	--	2.5	--	

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							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-9 Cont.																
1/21/1999	--	22.26	6.00	19.50	7.63	14.63	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.5	--	
5/6/1999	--		6.00	19.50	7.27	14.99	--	--	--	--	--	--	--	--	--	
8/23/1999	--		6.00	19.50	8.24	14.02	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.93	--	
10/28/1999	--		6.00	19.50	8.63	13.63	--	--	--	--	--	--	--	--	--	
2/4/2000	--		6.00	19.50	8.01	14.25	<50	<0.50	1.6	<0.50	<1	<3	--	1.47	--	
6/20/2000	--		6.00	19.50	8.01	14.25	--	--	--	--	--	--	--	--	--	
9/29/2000	--		6.00	19.50	8.44	13.82	<50	<0.5	<0.5	<0.5	<0.5	3.44	--	--	--	
12/17/2000	--		6.00	19.50	7.84	14.42	--	--	--	--	--	--	--	--	--	
3/28/2001	--		6.00	19.50	7.58	14.68	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		6.00	19.50	7.75	14.51	--	--	--	--	--	--	--	--	--	
9/22/2001	--		6.00	19.50	8.69	13.57	<50	<0.5	<0.5	<0.5	<0.5	7.8	--	--	--	
12/27/2001	--		6.00	19.50	7.15	15.11	--	--	--	--	--	--	--	--	--	
3/15/2002	--		6.00	19.50	7.23	15.03	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		6.00	19.50	6.79	15.47	--	--	--	--	--	--	--	--	--	
7/23/2002	P		6.00	19.50	8.30	13.96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	1.4	7.2	
10/16/2002	--		6.00	19.50	8.64	13.62	--	--	--	--	--	--	--	--	--	
1/23/2003	P		6.00	19.50	7.35	14.91	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	3.0	7.2	g
4/7/2003	--		6.00	19.50	7.81	14.45	--	--	--	--	--	--	--	--	--	
8/7/2003	--		6.00	19.50	8.31	13.95	--	--	--	--	--	--	--	--	--	
10/23/2003	--		6.00	19.50	8.48	13.78	--	--	--	--	--	--	--	--	--	
01/12/2004	--		6.00	19.50	7.46	14.80	--	--	--	--	--	--	--	--	--	
04/20/2004	--	23.64	6.00	19.50	8.65	14.99	--	--	--	--	--	--	--	--	--	r
07/01/2004	P		6.00	19.50	9.03	14.61	<50	<0.50	<0.50	<0.50	<0.50	3.2	--	1.3	6.9	
11/04/2004	--		6.00	19.50	7.60	16.04	--	--	--	--	--	--	--	--	--	
01/10/2005	--		6.00	19.50	6.24	17.40	--	--	--	--	--	--	--	--	--	
04/14/2005	--		6.00	19.50	6.90	16.74	--	--	--	--	--	--	--	--	--	
08/02/2005	NP		6.00	19.50	7.60	16.04	<50	<0.50	<0.50	<0.50	<0.50	3.8	--	--	7.0	
10/21/2005	--		6.00	19.50	8.09	15.55	--	--	--	--	--	--	--	--	--	

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ESL - NDW							210	46	130	43	100	1,800				
MW-9 Cont.																
01/04/2006	--	23.64	6.00	19.50	6.15	17.49	--	--	--	--	--	--	--	--	--	
04/28/2006	--		6.00	19.50	6.95	16.69	--	--	--	--	--	--	--	--	--	
8/4/2006	NP		6.00	19.50	7.90	15.74	<50	<0.50	<0.50	<0.50	<0.50	4.0	--	1.23	7.3	
10/23/2006	--		6.00	19.50	8.30	15.34	--	--	--	--	--	--	--	--	--	
1/15/2007	--		6.00	19.50	8.82	14.82	--	--	--	--	--	--	--	--	--	
4/17/2007	--		6.00	19.50	7.89	15.75	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		6.00	19.50	8.28	15.36	<50	<0.50	<0.50	<0.50	<0.50	2.0	--	1.80	7.31	
10/1/2007	--		6.00	19.50	8.50	15.14	--	--	--	--	--	--	--	--	--	
1/7/2008	--		6.00	19.50	8.38	15.26	--	--	--	--	--	--	--	--	--	
4/1/2008	--		6.00	19.50	7.92	15.72	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		6.00	19.50	8.16	15.48	<50	<0.50	<0.50	<0.50	<0.50	5.0	--	1.39	7.23	
10/22/2008	--		6.00	19.50	8.71	14.93	--	--	--	--	--	--	--	--	--	
1/21/2009	--		6.00	19.50	8.30	15.34	--	--	--	--	--	--	--	--	--	
4/21/2009	--		6.00	19.50	7.84	15.80	--	--	--	--	--	--	--	--	--	
7/21/2009	NP		6.00	19.50	8.35	15.29	<50	<0.50	<0.50	<0.50	<0.50	2.6	--	8.05	7.63	
1/12/2010	--		6.00	19.50	7.61	16.03	--	--	--	--	--	--	--	--	--	
6/3/2010	--		6.00	19.50	7.62	16.02	--	--	--	--	--	--	--	--	--	
7/22/2010	NP		6.00	19.50	8.13	15.51	56	<0.50	<0.50	<0.50	<0.50	4.5	--	0.88	7.03	w
2/18/2011	--		6.00	19.50	6.54	17.10	--	--	--	--	--	--	--	--	--	
8/25/2011	P		6.00	19.50	8.05	15.59	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	0.60	7.2	
1/17/2012	--		6.00	19.50	8.63	15.01	--	--	--	--	--	--	--	--	--	
7/24/2012	P		6.00	19.50	8.07	15.57	<50	<0.50	<0.50	<0.50	<1.0	3.6	--	1.37	7.29	
1/31/2013	--		6.00	19.50	7.79	15.85	--	--	--	--	--	--	--	--	--	
7/30/2013	P		6.00	19.50	8.35	15.29	<50	<0.50	<0.50	<0.50	<1.0	1.3	--	4.09	7.26	
MW-10																
6/11/1993	--	21.12	6.00	16.50	8.14	12.98	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/17/1993	--		6.00	16.50	8.54	12.58	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
11/8/1993	--		6.00	16.50	8.70	12.42	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-10 Cont.																
2/14/1994	--	21.12	6.00	16.50	7.13	13.99	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
5/5/1994	--		6.00	16.50	8.08	13.04	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/4/1994	--		6.00	16.50	8.84	12.28	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
11/20/1994	--		6.00	16.50	7.05	14.07	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
3/17/1995	--		6.00	16.50	6.26	14.86	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
6/1/1995	--		6.00	16.50	7.63	13.49	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/31/1995	--		6.00	16.50	8.17	12.95	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/27/1995	--		6.00	16.50	8.38	12.74	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
2/22/1996	--		6.00	16.50	5.41	15.71	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
5/20/1996	--		6.00	16.50	6.78	14.34	--	--	--	--	--	--	--	--	--	
8/26/1996	--		6.00	16.50	8.00	13.12	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/20/1996	--		6.00	16.50	7.81	13.31	--	--	--	--	--	--	--	--	--	
3/24/1997	--	21.33	6.00	16.50	7.87	13.46	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
5/23/1997	--		6.00	16.50	8.33	13.00	--	--	--	--	--	--	--	--	--	
8/19/1997	--		6.00	16.50	8.39	12.94	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/19/1997	--		6.00	16.50	8.39	12.94	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
2/19/1998	--		6.00	16.50	4.65	16.68	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
4/23/1998	--		6.00	16.50	6.28	15.05	<50	<0.50	<0.50	<0.50	<0.50	<3	--	0.5	--	
7/27/1998	--		6.00	16.50	7.97	13.36	<50	<0.50	<0.50	<0.50	<0.50	<3	--	3.3	--	
10/14/1998	--		6.00	16.50	8.41	12.92	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.0	--	
1/21/1999	--		6.00	16.50	6.65	14.68	<50	<0.50	<0.50	<0.50	<0.50	<3	--	0.5	--	
5/6/1999	--		6.00	16.50	7.74	13.59	<50	<0.50	<0.50	<0.50	<0.50	<3	--	0.76	--	
8/23/1999	--		6.00	16.50	8.37	12.96	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.21	--	
10/28/1999	--		6.00	16.50	8.73	12.60	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.12	--	
2/4/2000	--		6.00	16.50	8.78	12.55	<50	<0.50	<0.50	<0.50	<0.50	<3	--	2.84	--	
6/20/2000	--		6.00	16.50	7.99	13.34	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	--	--	--	
9/29/2000	--		6.00	16.50	8.40	12.93	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
12/17/2000	--		6.00	16.50	7.91	13.42	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-10 Cont.																
3/28/2001	--	21.33	6.00	16.50	7.47	13.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		6.00	16.50	8.11	13.22	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
9/22/2001	--		6.00	16.50	8.77	12.56	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
12/27/2001	--		6.00	16.50	6.94	14.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/15/2002	--		6.00	16.50	7.48	13.85	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		6.00	16.50	6.77	14.56	<50	<0.5	<0.5	<0.5	<0.5	3.8	--	1.22	--	
7/23/2002	NP		6.00	16.50	8.42	12.91	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	1.0	7.2	
10/16/2002	NP		6.00	16.50	8.77	12.56	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	1.0	6.4	
1/23/2003	NP		6.00	16.50	7.12	14.21	<50	<0.50	<0.50	<0.50	<0.50	1.4	--	1.3	7.4	g
4/7/2003	--		6.00	16.50	7.73	13.60	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	1.3	7.0	
8/7/2003	--		6.00	16.50	8.45	12.88	<50	<0.50	<0.50	<0.50	<0.50	1.5	--	1.3	7.3	
10/23/2003	--		6.00	16.50	8.71	12.62	--	--	--	--	--	--	--	--	--	
01/12/2004	NP		6.00	16.50	7.25	14.08	<50	<0.50	<0.50	<0.50	<0.50	1.7	--	8.2	7.5	
04/20/2004	--	23.42	6.00	16.50	8.15	15.27	--	--	--	--	--	--	--	--	--	r
07/01/2004	NP		6.00	16.50	8.90	14.52	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	1.0	7.1	
11/04/2004	--		6.00	16.50	7.68	15.74	--	--	--	--	--	--	--	--	--	
01/10/2005	NP		6.00	16.50	6.13	17.29	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	0.9	7.3	
04/14/2005	--		6.00	16.50	6.68	16.74	--	--	--	--	--	--	--	--	--	
08/02/2005	NP		6.00	16.50	7.54	15.88	<50	<0.50	<0.50	<0.50	<0.50	1.7	--	--	7.1	
10/21/2005	--		6.00	16.50	8.12	15.30	--	--	--	--	--	--	--	--	--	
01/04/2006	NP		6.00	16.50	5.40	18.02	<50	<0.50	<0.50	<0.50	<0.50	2.0	--	1.4	7.3	
04/28/2006	--		6.00	16.50	6.65	16.77	--	--	--	--	--	--	--	--	--	
8/4/2006	NP		6.00	16.50	8.92	14.50	<50	<0.50	<0.50	<0.50	<0.50	1.8	--	0.87	7.3	
10/23/2006	--		6.00	16.50	8.23	15.19	--	--	--	--	--	--	--	--	--	
1/15/2007	P		6.00	16.50	7.47	15.95	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	1.15	7.21	
4/17/2007	--		6.00	16.50	7.74	15.68	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		6.00	16.50	8.35	15.07	<50	<0.50	<0.50	<0.50	<0.50	2.0	--	2.71	7.48	
10/1/2007	--		6.00	16.50	8.74	14.68	--	--	--	--	--	--	--	--	--	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-10 Cont.																
1/7/2008	NP	23.42	6.00	16.50	6.02	17.40	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	1.22	7.41	
4/1/2008	--		6.00	16.50	8.97	14.45	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		6.00	16.50	8.62	14.80	<50	<0.50	<0.50	<0.50	<0.50	1.9	--	1.2	7.35	
10/22/2008	--		6.00	16.50	9.02	14.40	--	--	--	--	--	--	--	--	--	
1/21/2009	P		6.00	16.50	8.55	14.87	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	0.57	7.45	
4/21/2009	--		6.00	16.50	8.15	15.27	--	--	--	--	--	--	--	--	--	
7/21/2009	NP		6.00	16.50	8.81	14.61	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	7.60	7.77	
1/12/2010	P		6.00	16.50	7.90	15.52	<50	<0.50	<0.50	<0.50	<0.50	1.3	--	2.20	7.0	
6/3/2010	--		6.00	16.50	7.53	15.89	--	--	--	--	--	--	--	--	--	
7/22/2010	NP		6.00	16.50	8.24	15.18	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	--	--	
2/18/2011	NP		6.00	16.50	6.33	17.09	<50	<0.50	<0.50	<0.50	<0.50	1.7	--	0.90	5.6	
8/25/2011	P		6.00	16.50	6.10	17.32	<50	<0.50	<0.50	<0.50	<0.50	1.5	--	0.54	7.2	
1/17/2012	P		6.00	16.50	8.83	14.59	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	0.61	7.6	
7/24/2012	P		6.00	16.50	8.14	15.28	<50	<0.50	<0.50	<0.50	<1.0	1.4	--	1.56	7.44	
1/31/2013	P		6.00	16.50	7.74	15.68	<50	<0.50	<0.50	<0.50	<1.0	1.3	--	1.57	7.87	
7/30/2013	P		6.00	16.50	8.61	14.81	<50	<0.50	<0.50	<0.50	<1.0	1.3	--	5.51	7.36	
MW-11																
11/16/1992	--	22.38	7.00	12.00	9.02	13.36	7,000	21	<10	18	230	--	--	--	--	n
2/16/1993	--		7.00	12.00	7.11	15.27	2,200	<10	<10	11	<10	--	--	--	--	n
5/13/1993	--		7.00	12.00	8.04	14.34	1,600	<2.5	<2.5	41	6.8	--	--	--	--	n
8/17/1993	--		7.00	12.00	8.78	13.60	830	1.4	<1.0	25	15	--	--	--	--	n
11/8/1993	--		7.00	12.00	9.23	13.15	370	<1.0	<1.0	2.5	2.1	--	--	--	--	n
2/14/1994	--		7.00	12.00	7.94	14.44	650	<1	<1.0	2	4	--	--	--	--	n
5/5/1994	--		7.00	12.00	8.55	13.83	210	<0.5	<0.5	2.5	0.6	--	--	--	--	
8/4/1994	--		7.00	12.00	9.13	13.25	390	<0.5	<0.7	1.9	2.2	--	--	--	--	n
11/20/1994	--		7.00	12.00	7.73	14.65	1,300	1.3	0.5	1.5	21	--	--	--	--	
3/17/1995	--		7.00	12.00	6.94	15.44	100	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		7.00	12.00	7.90	14.48	210	<0.5	<0.5	0.9	0.7	--	--	--	--	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs		
ESL - DW							100	1.0	40	30	20	5.0			
ESL - NDW							210	46	130	43	100	1,800			
MW-11 Cont.															
8/31/1995	--	22.38	7.00	12.00	8.18	14.20	680	<0.5	<0.5	4	1.8	<3	--	--	--
11/27/1995	--		7.00	12.00	8.48	13.90	340	<0.5	<0.5	2.2	1.6	--	--	--	--
2/22/1996	--		7.00	12.00	6.63	15.75	150	<0.5	<0.5	<0.8	<0.8	<3	--	--	--
5/20/1996	--		7.00	12.00	7.25	15.13	--	--	--	--	--	--	--	--	--
8/26/1996	--		7.00	12.00	8.22	14.16	--	--	--	--	--	--	--	--	--
11/20/1996	--		7.00	12.00	8.37	14.01	--	--	--	--	--	--	--	--	--
3/24/1997	--	20.97	7.00	12.00	8.15	12.82	63	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
5/23/1997	--		7.00	12.00	8.48	12.49	--	--	--	--	--	--	--	--	--
8/19/1997	--		7.00	12.00	8.67	12.30	--	--	--	--	--	--	--	--	--
11/19/1997	--		7.00	12.00	8.67	12.30	--	--	--	--	--	--	--	--	--
2/19/1998	--		7.00	12.00	6.25	14.72	<50	<0.5	1.6	<0.5	1.8	7	--	--	--
4/23/1998	--		7.00	12.00	7.23	13.74	--	--	--	--	--	--	--	--	--
7/27/1998	--		7.00	12.00	8.05	12.92	--	--	--	--	--	--	--	--	--
10/14/1998	--		7.00	12.00	8.58	12.39	--	--	--	--	--	--	--	--	--
1/21/1999	--		7.00	12.00	8.25	12.72	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.5	--
5/6/1999	--		7.00	12.00	7.95	13.02	--	--	--	--	--	--	--	--	--
8/23/1999	--		7.00	12.00	8.51	12.46	--	--	--	--	--	--	--	0.86	--
10/28/1999	--		7.00	12.00	8.95	12.02	--	--	--	--	--	--	--	--	--
2/4/2000	--		7.00	12.00	7.88	13.09	<50	<0.5	<0.5	<0.5	<1	<3	--	3.29	--
6/20/2000	--		7.00	12.00	8.18	12.79	--	--	--	--	--	--	--	--	--
9/29/2000	--		7.00	12.00	8.60	12.37	--	--	--	--	--	--	--	--	--
12/17/2000	--		7.00	12.00	8.48	12.49	--	--	--	--	--	--	--	--	--
3/28/2001	--		7.00	12.00	7.88	13.09	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
6/20/2001	--		7.00	12.00	8.48	12.49	--	--	--	--	--	--	--	--	--
9/22/2001	--		7.00	12.00	9.11	11.86	--	--	--	--	--	--	--	--	--
12/27/2001	--		7.00	12.00	7.50	13.47	--	--	--	--	--	--	--	--	--
3/15/2002	--		7.00	12.00	7.87	13.10	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
4/18/2002	--		7.00	12.00	7.22	13.75	--	--	--	--	--	--	--	--	--

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-11 Cont.																
7/23/2002	--	20.97	7.00	12.00	8.76	12.21	--	--	--	--	--	--	--	--	--	
10/16/2002	--		7.00	12.00	9.15	11.82	--	--	--	--	--	--	--	--	--	
1/23/2003	P		7.00	12.00	7.61	13.36	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.4	7.4	g
4/7/2003	--		7.00	12.00	8.25	12.72	--	--	--	--	--	--	--	--	--	
8/7/2003	--		7.00	12.00	8.84	12.13	--	--	--	--	--	--	--	--	--	
10/23/2003	--		7.00	12.00	9.09	11.88	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	
01/12/2004	--		7.00	12.00	7.70	13.27	--	--	--	--	--	--	--	--	--	
04/20/2004	--	24.97	7.00	12.00	9.18	15.79	--	--	--	--	--	--	--	--	--	r
07/01/2004	P		7.00	12.00	9.90	15.07	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.8	7.01	o
11/04/2004	--		7.00	12.00	8.21	16.76	--	--	--	--	--	--	--	--	--	
01/10/2005	--		7.00	12.00	6.94	18.03	--	--	--	--	--	--	--	--	--	
04/14/2005	--		7.00	12.00	6.77	18.20	--	--	--	--	--	--	--	--	--	
08/02/2005	--		7.00	12.00	7.57	17.40	--	--	--	--	--	--	--	--	--	
10/21/2005	--		7.00	12.00	8.08	16.89	--	--	--	--	--	--	--	--	--	
01/04/2006	--		7.00	12.00	7.20	17.77	--	--	--	--	--	--	--	--	--	
04/28/2006	--		7.00	12.00	6.90	18.07	--	--	--	--	--	--	--	--	--	
8/4/2006	--		7.00	12.00	8.32	16.65	--	--	--	--	--	--	--	--	--	
10/23/2006	--		7.00	12.00	8.75	16.22	--	--	--	--	--	--	--	--	--	
1/15/2007	--		7.00	12.00	8.19	16.78	--	--	--	--	--	--	--	--	--	
4/17/2007	--		7.00	12.00	8.32	16.65	--	--	--	--	--	--	--	--	--	
7/9/2007	--		7.00	12.00	8.73	16.24	--	--	--	--	--	--	--	--	--	
10/1/2007	--		7.00	12.00	8.65	16.32	--	--	--	--	--	--	--	--	--	
1/7/2008	--		7.00	12.00	7.52	17.45	--	--	--	--	--	--	--	--	--	
4/1/2008	--		7.00	12.00	8.18	16.79	--	--	--	--	--	--	--	--	--	
7/23/2008	--		7.00	12.00	9.27	15.70	--	--	--	--	--	--	--	--	--	
10/22/2008	--		7.00	12.00	9.11	15.86	--	--	--	--	--	--	--	--	--	
1/21/2009	--		7.00	12.00	8.72	16.25	--	--	--	--	--	--	--	--	--	
4/21/2009	--		7.00	12.00	8.22	16.75	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-11 Cont.																
7/21/2009	--	24.97	7.00	12.00	8.98	15.99	--	--	--	--	--	--	--	--	--	
1/12/2010	--		7.00	12.00	8.39	16.58	--	--	--	--	--	--	--	--	--	
6/3/2010	--		7.00	12.00	7.77	17.20	--	--	--	--	--	--	--	--	--	
7/22/2010	--		7.00	12.00	8.41	16.56	--	--	--	--	--	--	--	--	--	
2/18/2011	--		7.00	12.00	7.76	17.21	--	--	--	--	--	--	--	--	--	
8/25/2011	--		7.00	12.00	8.39	16.58	--	--	--	--	--	--	--	--	--	
1/17/2012	--		7.00	12.00	9.02	15.95	--	--	--	--	--	--	--	--	--	
7/24/2012	--		7.00	12.00	8.39	16.58	--	--	--	--	--	--	--	--	--	
1/31/2013	--		7.00	12.00	7.98	16.99	--	--	--	--	--	--	--	--	--	
7/30/2013	--		7.00	12.00	8.91	16.06	--	--	--	--	--	--	--	--	--	
MW-12																
11/16/1992	--	22.77	7.50	12.50	9.65	13.12	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/16/1993	--		7.50	12.50	7.88	14.89	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/13/1993	--		7.50	12.50	8.63	14.14	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/17/1993	--		7.50	12.50	9.30	13.47	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/8/1993	--		7.50	12.50	9.72	13.05	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/14/1994	--		7.50	12.50	8.24	14.53	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/5/1994	--		7.50	12.50	8.97	13.80	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/4/1994	--		7.50	12.50	9.57	13.20	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/20/1994	--		7.50	12.50	8.06	14.71	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
3/17/1995	--		7.50	12.50	7.09	15.68	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		7.50	12.50	8.40	14.37	--	--	--	--	--	--	--	--	--	
8/31/1995	--		7.50	12.50	8.55	14.22	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
11/27/1995	--		7.50	12.50	8.95	13.82	--	--	--	--	--	--	--	--	--	
2/22/1996	--		7.50	12.50	6.81	15.96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/20/1996	--		7.50	12.50	7.56	15.21	--	--	--	--	--	--	--	--	--	
8/26/1996	--		7.50	12.50	8.63	14.14	--	--	--	--	--	--	--	--	--	
11/20/1996	--		7.50	12.50	8.38	14.39	--	--	--	--	--	--	--	--	--	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-12 Cont.																
3/24/1997	--	20.11	7.50	12.50	8.75	11.36	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/23/1997	--		7.50	12.50	8.92	11.19	--	--	--	--	--	--	--	--	--	
8/19/1997	--		7.50	12.50	9.20	10.91	--	--	--	--	--	--	--	--	--	
11/19/1997	--		7.50	12.50	9.20	10.91	--	--	--	--	--	--	--	--	--	
2/19/1998	--		7.50	12.50	6.28	13.83	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
4/23/1998	--		7.50	12.50	7.52	12.59	--	--	--	--	--	--	--	--	--	
7/27/1998	--		7.50	12.50	8.52	11.59	--	--	--	--	--	--	--	--	--	
10/14/1998	--		7.50	12.50	9.06	11.05	--	--	--	--	--	--	--	--	--	
1/21/1999	--		7.50	12.50	8.20	11.91	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--	
5/6/1999	--		7.50	12.50	8.47	11.64	--	--	--	--	--	--	--	--	--	
8/23/1999	--		7.50	12.50	9.04	11.07	--	--	--	--	--	--	--	0.85	--	
10/28/1999	--		7.50	12.50	9.40	10.71	--	--	--	--	--	--	--	--	--	
2/4/2000	--		7.50	12.50	8.38	11.73	<50	<0.5	<0.5	<0.5	<1	<3	--	3.34	--	
6/20/2000	--		7.50	12.50	8.55	11.56	--	--	--	--	--	--	--	--	--	
9/29/2000	--		7.50	12.50	8.98	11.13	--	--	--	--	--	--	--	--	--	
12/17/2000	--		7.50	12.50	8.76	11.35	--	--	--	--	--	--	--	--	--	
3/28/2001	--		7.50	12.50	8.31	11.80	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		7.50	12.50	9.10	11.01	--	--	--	--	--	--	--	--	--	
9/22/2001	--		7.50	12.50	9.48	10.63	--	--	--	--	--	--	--	--	--	
12/27/2001	--		7.50	12.50	7.78	12.33	--	--	--	--	--	--	--	--	--	
3/15/2002	--		7.50	12.50	8.22	11.89	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		7.50	12.50	7.65	12.46	--	--	--	--	--	--	--	--	--	
7/23/2002	--		7.50	12.50	9.18	10.93	--	--	--	--	--	--	--	--	--	
10/16/2002	--		7.50	12.50	9.51	10.60	--	--	--	--	--	--	--	--	--	
1/23/2003	--		7.50	12.50	7.86	12.25	--	--	--	--	--	--	--	--	--	
4/7/2003	--		7.50	12.50	8.58	11.53	--	--	--	--	--	--	--	--	--	
8/7/2003	--		7.50	12.50	9.23	10.88	--	--	--	--	--	--	--	--	--	
10/23/2003	P		7.50	12.50	9.44	10.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-12 Cont.																
01/12/2004	--	20.11	7.50	12.50	8.08	12.03	--	--	--	--	--	--	--	--	--	
04/20/2004	--	25.32	7.50	12.50	9.28	16.04	--	--	--	--	--	--	--	--	--	r
07/01/2004	P		7.50	12.50	9.65	15.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.8	7.0	
11/04/2004	--		7.50	12.50	8.53	16.79	--	--	--	--	--	--	--	--	--	
01/10/2005	--		7.50	12.50	7.04	18.28	--	--	--	--	--	--	--	--	--	
04/14/2005	--		7.50	12.50	6.95	18.37	--	--	--	--	--	--	--	--	--	
08/02/2005	--		7.50	12.50	8.05	17.27	--	--	--	--	--	--	--	--	--	
10/21/2005	--		7.50	12.50	8.70	16.62	--	--	--	--	--	--	--	--	--	
01/04/2006	--		7.50	12.50	10.00	15.32	--	--	--	--	--	--	--	--	--	
04/28/2006	--		7.50	12.50	7.19	18.13	--	--	--	--	--	--	--	--	--	
8/4/2006	--		7.50	12.50	8.80	16.52	--	--	--	--	--	--	--	--	--	
10/23/2006	--		7.50	12.50	9.17	16.15	--	--	--	--	--	--	--	--	--	
1/15/2007	--		7.50	12.50	8.57	16.75	--	--	--	--	--	--	--	--	--	
4/17/2007	--		7.50	12.50	8.68	16.64	--	--	--	--	--	--	--	--	--	
7/9/2007	--		7.50	12.50	9.18	16.14	--	--	--	--	--	--	--	--	--	
10/1/2007	--		7.50	12.50	9.45	15.87	--	--	--	--	--	--	--	--	--	
1/7/2008	--		7.50	12.50	7.58	17.74	--	--	--	--	--	--	--	--	--	
4/1/2008	--		7.50	12.50	8.57	16.75	--	--	--	--	--	--	--	--	--	
7/23/2008	--		7.50	12.50	9.34	15.98	--	--	--	--	--	--	--	--	--	
10/22/2008	--		7.50	12.50	9.64	15.68	--	--	--	--	--	--	--	--	--	
1/21/2009	--		7.50	12.50	9.25	16.07	--	--	--	--	--	--	--	--	--	
4/21/2009	--		7.50	12.50	8.66	16.66	--	--	--	--	--	--	--	--	--	
7/21/2009	--		7.50	12.50	9.42	15.90	--	--	--	--	--	--	--	--	--	
1/12/2010	--		7.50	12.50	8.86	16.46	--	--	--	--	--	--	--	--	--	
6/3/2010	--		7.50	12.50	8.20	17.12	--	--	--	--	--	--	--	--	--	
7/22/2010	--		7.50	12.50	8.90	16.42	--	--	--	--	--	--	--	--	--	
2/18/2011	--		7.50	12.50	7.80	17.52	--	--	--	--	--	--	--	--	--	
8/25/2011	--		7.50	12.50	8.89	16.43	--	--	--	--	--	--	--	--	--	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-12 Cont.																
1/17/2012	--	25.32	7.50	12.50	9.50	15.82	--	--	--	--	--	--	--	--	--	
7/24/2012	--		7.50	12.50	8.90	16.42	--	--	--	--	--	--	--	--	--	
1/31/2013	--		7.50	12.50	8.38	16.94	--	--	--	--	--	--	--	--	--	
7/30/2013	--		7.50	12.50	9.42	15.90	--	--	--	--	--	--	--	--	--	
MW-13																
11/16/1992	--	22.45	--	--	9.02	13.43	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/16/1993	--		--	--	7.14	15.31	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/13/1993	--		--	--	7.95	14.50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/17/1993	--		--	--	8.57	13.88	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/8/1993	--		--	--	8.86	13.59	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/14/1994	--		--	--	7.78	14.67	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/5/1994	--		--	--	8.38	14.07	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/4/1994	--		--	--	8.78	13.67	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/20/1994	--		--	--	7.68	14.77	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
3/17/1995	--		--	--	6.91	15.54	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		--	--	7.72	14.73	--	--	--	--	--	--	--	--	--	
8/31/1995	--		--	--	7.58	14.87	--	--	--	--	--	--	--	--	--	
11/27/1995	--		--	--	7.98	14.47	--	--	--	--	--	--	--	--	--	
2/22/1996	--		--	--	6.71	15.74	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/20/1996	--		--	--	6.98	15.47	--	--	--	--	--	--	--	--	--	
8/26/1996	--		--	--	7.85	14.60	--	--	--	--	--	--	--	--	--	
11/20/1996	--		--	--	7.76	14.69	--	--	--	--	--	--	--	--	--	
3/24/1997	--	20.75	--	--	7.85	12.90	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/23/1997	--		--	--	8.16	12.59	--	--	--	--	--	--	--	--	--	
8/19/1997	--		--	--	8.40	12.35	--	--	--	--	--	--	--	--	--	
11/19/1997	--		--	--	8.40	12.35	--	--	--	--	--	--	--	--	--	
2/19/1998	--		--	--	6.44	14.31	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
4/23/1998	--		--	--	6.80	13.95	--	--	--	--	--	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-13 Cont.																
7/27/1998	--	20.75	--	--	7.52	13.23	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--	
10/14/1998	--		--	--	8.15	12.60	<50	<0.5	<0.5	<0.5	<0.5	<3	--	2.0	--	
1/21/1999	--		--	--	7.85	12.90	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--	
5/6/1999	--		--	--	7.82	12.93	--	--	--	--	--	--	--	--	--	
8/23/1999	--		--	--	8.29	12.46	--	--	--	--	--	--	--	0.94	--	
10/28/1999	--		--	--	8.55	12.20	--	--	--	--	--	--	--	--	--	
2/4/2000	--		--	--	8.11	12.64	<50	<0.5	0.6	<0.5	<1	<3	--	1.27	--	
6/20/2000	--		--	--	7.56	13.19	--	--	--	--	--	--	--	--	--	
9/29/2000	--		--	--	8.27	12.48	--	--	--	--	--	--	--	--	--	
12/17/2000	--		--	--	8.09	12.66	--	--	--	--	--	--	--	--	--	
3/28/2001	--		--	--	7.69	13.06	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		--	--	8.46	12.29	--	--	--	--	--	--	--	--	--	
9/22/2001	--		--	--	8.57	12.18	--	--	--	--	--	--	--	--	--	
12/27/2001	--		--	--	7.14	13.61	--	--	--	--	--	--	--	--	--	
3/15/2002	--		--	--	7.62	13.13	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		--	--	6.91	13.84	--	--	--	--	--	--	--	--	--	
7/23/2002	--		--	--	8.50	12.25	--	--	--	--	--	--	--	--	--	
10/16/2002	--		--	--	8.74	12.01	--	--	--	--	--	--	--	--	--	
1/23/2003	P		--	--	7.35	13.40	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	3.4	7.0	g
4/7/2003	--		--	--	7.99	12.76	--	--	--	--	--	--	--	--	--	
8/7/2003	--		--	--	8.60	12.15	--	--	--	--	--	--	--	--	--	
10/23/2003	P		--	--	8.55	12.20	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	
01/12/2004	--		--	--	7.56	13.19	--	--	--	--	--	--	--	--	--	
04/20/2004	--	25.01	--	--	4.57	20.44	--	--	--	--	--	--	--	--	--	r
07/01/2004	P		--	--	8.71	16.30	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.4	6.9	
11/04/2004	--		--	--	7.79	17.22	--	--	--	--	--	--	--	--	--	
01/10/2005	--		--	--	6.80	18.21	--	--	--	--	--	--	--	--	--	
04/14/2005	--		--	--	6.88	18.13	--	--	--	--	--	--	--	--	--	

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-13 Cont.																
08/02/2005	--	25.01	--	--	7.15	17.86	--	--	--	--	--	--	--	--	--	
10/21/2005	--		--	--	7.96	17.05	--	--	--	--	--	--	--	--	--	
01/04/2006	--		--	--	7.64	17.37	--	--	--	--	--	--	--	--	--	
04/28/2006	--		--	--	6.97	18.04	--	--	--	--	--	--	--	--	--	
8/4/2006	--		--	--	8.18	16.83	--	--	--	--	--	--	--	--	--	
10/23/2006	--		--	--	8.51	16.50	--	--	--	--	--	--	--	--	--	
1/15/2007	--		--	--	7.91	17.10	--	--	--	--	--	--	--	--	--	
4/17/2007	--		--	--	8.04	16.97	--	--	--	--	--	--	--	--	--	
7/9/2007	--		--	--	8.50	16.51	--	--	--	--	--	--	--	--	--	
10/1/2007	--		--	--	8.72	16.29	--	--	--	--	--	--	--	--	--	
1/7/2008	--		--	--	8.27	16.74	--	--	--	--	--	--	--	--	--	
4/1/2008	--		--	--	7.88	17.13	--	--	--	--	--	--	--	--	--	
7/23/2008	--		--	--	6.40	18.61	--	--	--	--	--	--	--	--	--	
10/22/2008	--		--	--	8.86	16.15	--	--	--	--	--	--	--	--	--	
1/21/2009	--		--	--	8.54	16.47	--	--	--	--	--	--	--	--	--	
4/21/2009	--		--	--	7.96	17.05	--	--	--	--	--	--	--	--	--	
7/21/2009	--		--	--	8.77	16.24	--	--	--	--	--	--	--	--	--	
1/12/2010	--		--	--	8.21	16.80	--	--	--	--	--	--	--	--	--	
6/3/2010	--		--	--	7.51	17.50	--	--	--	--	--	--	--	--	--	
7/22/2010	--		--	--	8.18	16.83	--	--	--	--	--	--	--	--	--	
2/18/2011	--		--	--	7.28	17.73	--	--	--	--	--	--	--	--	--	
8/25/2011	--		--	--	8.20	16.81	--	--	--	--	--	--	--	--	--	
1/17/2012	--		--	--	8.71	16.30	--	--	--	--	--	--	--	--	--	
7/24/2012	--		--	--	8.23	16.78	--	--	--	--	--	--	--	--	--	
1/31/2013	--		--	--	7.79	17.22	--	--	--	--	--	--	--	--	--	
7/30/2013	--		--	--	8.76	16.25	--	--	--	--	--	--	--	--	--	
MW-14																
9/15/1992	--	22.99	7.50	13.50	10.66	12.33	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	

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							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-14 Cont.																
11/16/1992	--	22.99	7.50	13.50	10.33	12.66	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/16/1993	--		7.50	13.50	8.18	14.81	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/13/1993	--		7.50	13.50	9.05	13.94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/17/1993	--		7.50	13.50	22.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/8/1993	--		7.50	13.50	10.25	12.74	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/14/1994	--		7.50	13.50	8.80	14.19	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/5/1994	--		7.50	13.50	9.49	13.50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/4/1994	--		7.50	13.50	10.11	12.88	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/20/1994	--		7.50	13.50	8.66	14.33	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
3/17/1995	--		7.50	13.50	8.17	14.82	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		7.50	13.50	8.57	14.42	--	--	--	--	--	--	--	--	--	
8/31/1995	--		7.50	13.50	9.05	13.94	--	--	--	--	--	--	--	--	--	
11/27/1995	--		7.50	13.50	9.19	13.80	--	--	--	--	--	--	--	--	--	
2/22/1996	--		7.50	13.50	6.52	16.47	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/20/1996	--		7.50	13.50	7.88	15.11	--	--	--	--	--	--	--	--	--	
8/26/1996	--		7.50	13.50	8.83	14.16	--	--	--	--	--	--	--	--	--	
11/20/1996	--		7.50	13.50	8.95	14.04	--	--	--	--	--	--	--	--	--	
3/24/1997	--	20.90	7.50	13.50	8.98	11.92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/23/1997	--		7.50	13.50	9.61	11.29	--	--	--	--	--	--	--	--	--	
8/19/1997	--		7.50	13.50	9.80	11.10	--	--	--	--	--	--	--	--	--	
11/19/1997	--		7.50	13.50	9.80	11.10	<50	1.7	<0.5	0.6	3	<3	--	--	--	
2/19/1998	--		7.50	13.50	6.27	14.63	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
4/23/1998	--		7.50	13.50	7.75	13.15	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.5	--	
7/27/1998	--		7.50	13.50	9.24	11.66	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.0	--	
10/14/1998	--		7.50	13.50	9.73	11.17	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.0	--	
1/21/1999	--		7.50	13.50	8.90	12.00	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--	
5/6/1999	--		7.50	13.50	8.98	11.92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.73	--	
8/23/1999	--		7.50	13.50	9.68	11.22	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.91	--	

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							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-14 Cont.																
10/28/1999	--	20.90	7.50	13.50	10.00	10.90	<50	<0.5	<0.5	<0.5	<1	<10	--	1.06	--	
2/4/2000	--		7.50	13.50	8.19	12.71	<50	<0.5	0.5	<0.5	<1	<3	--	1.21	--	
6/20/2000	--		7.50	13.50	9.16	11.74	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--	--	
9/29/2000	--		7.50	13.50	9.48	11.42	<50	<0.5	<0.5	<0.5	<0.5	<2.50	--	--	--	
12/17/2000	--		7.50	13.50	9.24	11.66	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/28/2001	--		7.50	13.50	8.91	11.99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		7.50	13.50	9.70	11.20	<50	<0.5	<0.5	<0.5	<0.5	3.1	--	--	--	
9/22/2001	--		7.50	13.50	10.04	10.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
12/27/2001	--		7.50	13.50	8.33	12.57	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/15/2002	--		7.50	13.50	8.75	12.15	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		7.50	13.50	8.21	12.69	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
7/23/2002	NP		7.50	13.50	9.76	11.14	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	1.4	7.1	
10/16/2002	NP		7.50	13.50	10.10	10.80	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	1.1	5.8	
1/23/2003	NP		7.50	13.50	8.41	12.49	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.3	7.1	g
4/7/2003	--		7.50	13.50	9.09	11.81	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.4	6.9	
8/7/2003	--		7.50	13.50	9.81	11.09	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.4	6.7	
10/23/2003	P		7.50	13.50	10.04	10.86	--	--	--	--	--	--	--	--	--	
01/12/2004	P		7.50	13.50	8.89	12.01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.0	7.2	
04/20/2004	--	25.55	7.50	13.50	9.62	15.93	--	--	--	--	--	--	--	--	--	r
07/01/2004	NP		7.50	13.50	10.03	15.52	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.6	6.7	
11/04/2004	--		7.50	13.50	9.13	16.42	--	--	--	--	--	--	--	--	--	
01/10/2005	NP		7.50	13.50	7.61	17.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.06	6.9	
04/14/2005	--		7.50	13.50	7.70	17.85	--	--	--	--	--	--	--	--	--	
08/02/2005	NP		7.50	13.50	8.73	16.82	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	6.9	
10/21/2005	--		7.50	13.50	9.47	16.08	--	--	--	--	--	--	--	--	--	
01/04/2006	--		7.50	13.50	6.92	18.63	--	--	--	--	--	--	--	--	--	
04/28/2006	--		7.50	13.50	7.71	17.84	--	--	--	--	--	--	--	--	--	
8/4/2006	NP		7.50	13.50	9.32	16.23	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	0.95	6.8	

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							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-14 Cont.																
10/23/2006	--	25.55	7.50	13.50	9.66	15.89	--	--	--	--	--	--	--	--	--	
1/15/2007	--		7.50	13.50	9.05	16.50	--	--	--	--	--	--	--	--	--	
4/17/2007	--		7.50	13.50	9.16	16.39	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		7.50	13.50	9.67	15.88	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.87	7.13	
10/1/2007	--		7.50	13.50	9.95	15.60	--	--	--	--	--	--	--	--	--	
1/7/2008	--		7.50	13.50	8.74	16.81	--	--	--	--	--	--	--	--	--	
4/1/2008	--		7.50	13.50	9.13	16.42	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		7.50	13.50	9.86	15.69	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.18	6.93	
10/22/2008	--		7.50	13.50	10.20	15.35	--	--	--	--	--	--	--	--	--	
1/21/2009	--		7.50	13.50	9.81	15.74	--	--	--	--	--	--	--	--	--	
4/21/2009	--		7.50	13.50	9.22	16.33	--	--	--	--	--	--	--	--	--	
7/21/2009	NP		7.50	13.50	9.90	15.65	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	11.04	7.21	
1/12/2010	--		7.50	13.50	9.31	16.24	--	--	--	--	--	--	--	--	--	
6/3/2010	--		7.50	13.50	8.71	16.84	--	--	--	--	--	--	--	--	--	
7/22/2010	NP		7.50	13.50	9.45	16.10	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	
2/18/2011	--		7.50	13.50	7.92	17.63	--	--	--	--	--	--	--	--	--	
8/25/2011	P		7.50	13.50	9.43	16.12	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	0.58	7.1	
1/17/2012	--		7.50	13.50	10.04	15.51	--	--	--	--	--	--	--	--	--	
7/24/2012	P		7.50	13.50	9.49	16.06	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	1.22	7.09	
1/31/2013	--		7.50	13.50	8.98	16.57	--	--	--	--	--	--	--	--	--	
7/30/2013	P		7.50	13.50	9.92	15.63	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	3.37	7.13	
MW-15																
5/13/1993	--	19.19	5.50	10.50	5.91	13.28	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/17/1993	--		5.50	10.50	6.54	12.65	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/8/1993	--		5.50	10.50	6.98	12.21	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/14/1994	--		5.50	10.50	5.44	13.75	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/5/1994	--		5.50	10.50	6.18	13.01	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/4/1994	--		5.50	10.50	6.84	12.35	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-15 Cont.																
11/20/1994	--	19.19	5.50	10.50	5.31	13.88	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
3/17/1995	--		5.50	10.50	5.21	13.98	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		5.50	10.50	5.84	13.35	--	--	--	--	--	--	--	--	--	
8/31/1995	--		5.50	10.50	6.18	13.01	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
11/27/1995	--		5.50	10.50	6.42	12.77	--	--	--	--	--	--	--	--	--	
2/22/1996	--		5.50	10.50	4.84	14.35	<50	<0.5	<0.5	<0.5	<0.5	12	--	--	--	
5/20/1996	--		5.50	10.50	5.31	13.88	--	--	--	--	--	--	--	--	--	
8/26/1996	--		5.50	10.50	6.05	13.14	<50	<0.5	<0.5	<0.5	<0.5	8	--	--	--	
11/20/1996	--		5.50	10.50	5.46	13.73	--	--	--	--	--	--	--	--	--	
3/24/1997	--	22.08	5.50	10.50	6.00	16.08	<50	<0.5	<0.5	<0.5	<0.5	15	--	--	--	
5/23/1997	--		5.50	10.50	6.25	15.83	--	--	--	--	--	--	--	--	--	
8/19/1997	--		5.50	10.50	6.34	15.74	99	<0.5	<0.5	<0.5	0.7	6	--	--	--	j
11/19/1997	--		5.50	10.50	6.34	15.74	--	--	--	--	--	--	--	--	--	
2/19/1998	--		5.50	10.50	4.66	17.42	<50	<0.5	<0.5	<0.5	<0.5	48	--	--	--	
4/23/1998	--		5.50	10.50	5.18	16.90	--	--	--	--	--	--	--	--	--	
7/27/1998	--		5.50	10.50	6.02	16.06	<50	<0.5	<0.5	<0.5	<0.5	50	--	1.0	--	
10/14/1998	--		5.50	10.50	6.26	15.82	<50	<0.5	<0.5	<0.5	<0.5	27	--	1.5	--	
1/21/1999	--		5.50	10.50	5.33	16.75	<50	<0.5	<0.5	<0.5	<0.5	6	--	1.0	--	
5/6/1999	--		5.50	10.50	5.82	16.26	--	--	--	--	--	--	--	--	--	
8/23/1999	--		5.50	10.50	6.24	15.84	<50	<0.5	<0.5	<0.5	<0.5	21	--	1.14	--	
10/28/1999	--		5.50	10.50	6.60	15.48	--	--	--	--	--	--	--	--	--	
2/4/2000	--		5.50	10.50	7.02	15.06	<50	<0.5	<0.5	<0.5	<1	<3	--	1.09	--	
6/20/2000	--		5.50	10.50	5.98	16.10	--	--	--	--	--	--	--	--	--	
9/29/2000	--		5.50	10.50	6.50	15.58	<50	<0.5	<0.5	<0.5	<0.5	<2.50	--	--	--	
12/17/2000	--		5.50	10.50	5.89	16.19	--	--	--	--	--	--	--	--	--	
3/28/2001	--		5.50	10.50	5.78	16.30	<50	<0.5	<0.5	<0.5	<0.5	11.1	--	--	--	
6/20/2001	--		5.50	10.50	5.72	16.36	--	--	--	--	--	--	--	--	--	
9/22/2001	--		5.50	10.50	6.79	15.29	<50	<0.5	<0.5	<0.5	<0.5	13	--	--	--	

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-15 Cont.																
12/27/2001	--	22.08	5.50	10.50	5.49	16.59	--	--	--	--	--	--	--	--	--	
3/15/2002	--		5.50	10.50	5.68	16.40	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		5.50	10.50	4.85	17.23	--	--	--	--	--	--	--	--	--	
7/23/2002	P		5.50	10.50	6.32	15.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	2.0	7.9	
10/16/2002	--		5.50	10.50	6.69	15.39	--	--	--	--	--	--	--	--	--	
1/23/2003	P		5.50	10.50	5.70	16.38	<50	<0.50	<0.50	<0.50	<0.50	1.9	--	2.6	7.5	g
4/7/2003	--		5.50	10.50	5.94	16.14	--	--	--	--	--	--	--	--	--	
8/7/2003	--		5.50	10.50	6.32	15.76	--	--	--	--	--	--	--	--	--	
10/23/2003	--		5.50	10.50	6.56	15.52	--	--	--	--	--	--	--	--	--	
01/12/2004	--		5.50	10.50	5.71	16.37	--	--	--	--	--	--	--	--	--	
04/20/2004	--	21.72	5.50	10.50	7.10	14.62	--	--	--	--	--	--	--	--	--	r
07/01/2004	P		5.50	10.50	7.18	14.54	<50	<0.50	<0.50	<0.50	<0.50	1.9	--	1.6	7.3	
11/04/2004	--		5.50	10.50	5.90	15.82	--	--	--	--	--	--	--	--	--	
01/10/2005	--		5.50	10.50	5.30	16.42	--	--	--	--	--	--	--	--	--	
04/14/2005	--		5.50	10.50	5.40	16.32	--	--	--	--	--	--	--	--	--	
08/02/2005	P		5.50	10.50	5.33	16.39	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	6.5	
10/21/2005	--		5.50	10.50	5.92	15.80	--	--	--	--	--	--	--	--	--	
01/04/2006	--		5.50	10.50	5.19	16.53	--	--	--	--	--	--	--	--	--	
04/28/2006	--		5.50	10.50	5.45	16.27	--	--	--	--	--	--	--	--	--	
8/4/2006	P		5.50	10.50	5.99	15.73	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	1.49	7.1	
10/23/2006	--		5.50	10.50	6.36	15.36	--	--	--	--	--	--	--	--	--	
1/15/2007	--		5.50	10.50	6.00	15.72	--	--	--	--	--	--	--	--	--	
4/17/2007	--		5.50	10.50	5.98	15.74	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		5.50	10.50	6.26	15.46	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.77	7.44	
10/1/2007	--		5.50	10.50	6.53	15.19	--	--	--	--	--	--	--	--	--	
1/7/2008	--		5.50	10.50	6.12	15.60	--	--	--	--	--	--	--	--	--	
4/1/2008	--		5.50	10.50	5.92	15.80	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		5.50	10.50	6.30	15.42	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.07	7.32	

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							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-15 Cont.																
10/22/2008	--	21.72	5.50	10.50	6.69	15.03	--	--	--	--	--	--	--	--	--	
1/21/2009	--		5.50	10.50	6.22	15.50	--	--	--	--	--	--	--	--	--	
4/21/2009	--		5.50	10.50	5.79	15.93	--	--	--	--	--	--	--	--	--	
7/21/2009	NP		5.50	10.50	6.34	15.38	<50	<0.50	<0.50	<0.50	<0.50	1.4	--	9.63	7.63	
1/12/2010	--		5.50	10.50	5.93	15.79	--	--	--	--	--	--	--	--	--	
6/3/2010	--		5.50	10.50	5.79	15.93	--	--	--	--	--	--	--	--	--	
7/22/2010	P		5.50	10.50	6.25	15.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.11	7.30	
2/18/2011	--		5.50	10.50	8.48	13.24	--	--	--	--	--	--	--	--	--	
8/25/2011	P		5.50	10.50	6.07	15.65	<50	<0.50	<0.50	<0.50	<0.50	2.9	--	0.88	7.2	
1/17/2012	--		5.50	10.50	6.88	14.84	--	--	--	--	--	--	--	--	--	
7/24/2012	P		5.50	10.50	6.07	15.65	<50	<0.50	<0.50	<0.50	<1.0	0.59	--	1.56	7.45	
1/31/2013	--		5.50	10.50	5.91	15.81	--	--	--	--	--	--	--	--	--	
7/30/2013	P		5.50	10.50	6.42	15.30	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	4.18	7.49	
MW-16																
7/21/2009	P	22.89	5.00	15.00	12.90	9.99	1,500	2.3	13	36	300	0.68	--	14.83	7.71	
1/12/2010	P		5.00	15.00	6.67	16.22	1,700	6.8	4.3	71	48	<0.50	--	1.24	6.8	
6/3/2010	P		5.00	15.00	6.13	16.76	4,100	28	9.2	420	170	<1.0	--	--	7.10	
7/22/2010	NP		5.00	15.00	6.83	16.06	6,400	34	13	570	210	<1.0	--	0.68	6.95	
2/18/2011	NP		5.00	15.00	5.60	17.29	1,100	6.1	2.2	8.7	23	<0.50	--	1.18	6.66	
8/25/2011	P		5.00	15.00	6.70	16.19	2,800	31	17	180	480	<4.0	--	0.75	7.0	
1/17/2012	P		5.00	15.00	7.29	15.60	1,300	7.9	3.8	66	48	<1.0	--	0.42	7.30	
7/24/2012	P		5.00	15.00	6.75	16.14	2,900	30	11	240	310	<2.0	--	1.09	7.25	
1/31/2013	P		5.00	15.00	6.29	16.60	360	3.6	1.2	2.6	9.4	<0.50	--	1.21	7.77	
7/30/2013	P		5.00	15.00	7.16	15.73	2,900	20	7.3	13	140	<0.50	--	3.88	7.20	
MW-17																
7/21/2009	P	23.42	5.00	15.00	7.58	15.84	3,700	61	160	150	1,300	2.8	--	11.48	7.57	
1/12/2010	P		5.00	15.00	6.98	16.44	11,000	110	72	1,100	1,600	<10	--	1.02	6.80	

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							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-17 Cont.																
6/3/2010	P	23.42	5.00	15.00	6.37	17.05	19,000	140	45	1,200	2,600	<25	--	1.26	6.99	
7/22/2010	NP		5.00	15.00	7.05	16.37	21,000	160	63	1,300	2,800	<25	--	0.50	7.00	
2/18/2011	NP		5.00	15.00	6.33	17.09	9,400	58	<10	480	930	<10	--	2.84	6.7	
8/25/2011	P		5.00	15.00	6.96	16.46	5,500	140	<10	250	870	<10	--	0.47	7.1	
1/17/2012	P		5.00	15.00	7.62	15.80	4,000	72	13	180	360	<2.5	--	0.36	7.35	
7/24/2012	P		5.00	15.00	7.02	16.40	1,600	83	4.6	100	92	<1.0	--	1.00	7.21	
1/31/2013	P		5.00	15.00	6.49	16.93	1,500	36	2.7	44	25	<0.50	--	1.27	7.72	
7/30/2013	P		5.00	15.00	7.53	15.89	1,600	46	2.4	5.5	4.9	<0.50	--	3.81	7.17	
MW-18																
7/21/2009	P	24.48	5.00	15.00	8.73	15.75	290	1.1	<0.50	8.0	1.4	4.8	--	14.25	7.69	
1/12/2010	P		5.00	15.00	7.95	16.53	1,000	2.4	<1.0	57	<1.0	5.8	--	1.79	6.8	
6/3/2010	--		5.00	15.00	7.33	17.15	--	--	--	--	--	--	--	--	--	
7/22/2010	NP		5.00	15.00	8.02	16.46	760	3.5	<0.50	27	<0.50	5.1	--	0.71	7.09	w
2/18/2011	NP		5.00	15.00	7.38	17.10	360	<0.50	<0.50	<0.50	<0.50	3.8	--	2.80	6.9	x (GRO)
8/25/2011	P		5.00	15.00	8.00	16.48	640	3.4	<0.50	4.1	<0.50	4.9	--	0.61	7.1	x (GRO)
1/17/2012	P		5.00	15.00	8.61	15.87	140	<0.50	<0.50	<0.50	<0.50	2.5	--	0.45	7.5	x (GRO)
7/24/2012	P		5.00	15.00	8.02	16.46	150	<0.50	<0.50	<0.50	<1.0	1.8	--	0.90	7.40	
1/31/2013	P		5.00	15.00	7.49	16.99	71	<0.50	<0.50	<0.50	<1.0	<0.50	--	1.33	7.90	
7/30/2013	P		5.00	15.00	8.52	15.96	200	<0.50	<0.50	<0.50	<1.0	1.2	--	4.03	7.32	
MW-19																
7/21/2009	P	25.10	5.00	15.00	9.34	15.76	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	13.65	8.03	
1/12/2010	--		5.00	15.00	6.75	18.35	--	--	--	--	--	--	--	--	--	
6/3/2010	--		5.00	15.00	8.14	16.96	--	--	--	--	--	--	--	--	--	
2/18/2011	--		5.00	15.00	7.51	17.59	--	--	--	--	--	--	--	--	--	
8/25/2011	P		5.00	15.00	6.02	19.08	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.35	7.2	
1/17/2012	--		5.00	15.00	9.47	15.63	--	--	--	--	--	--	--	--	--	
7/24/2012	--		5.00	15.00	8.88	16.22	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	

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							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-19 Cont.																
1/31/2013	--	25.10	5.00	15.00	8.39	16.71	--	--	--	--	--	--	--	--	--	
7/30/2013	P		5.00	15.00	9.36	15.74	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	4.07	7.47	

Symbols & Abbreviations:

-- = Not analyzed/applicable/measured/available
< = Not detected at or above specified laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in ft bgs
ft bgs = Feet below ground surface
GRO = Gasoline range organics, range C4-C12
GWE = Groundwater elevation measured in ft
mg/L = Milligrams per liter
MTBE = Methyl tert-butyl ether
NP = Well not purged before sampling
P = Well purged before sampling
Semi-VOCs = Semivolatile organic compounds
TOC = Top of casing in ft
TPH-g = Total petroleum hydrocarbons as gasoline
g/L = Micrograms per liter
ND = Not detected above the various semi-VOCs laboratory reporting limits

Footnotes:

a = Sheen in well
b = Well is dry
c = Insufficient water to sample
d = Chromatogram Pattern: Gasoline C6-C10
e = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel
g = TPH, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and MTBE analyzed by EPA Method 8260B beginning on the 1st quarter 2003 sampling event (1/23/03)
h = This sample was re-extracted beyond the EPA recommended holding time. The results may still be useful for their intended purpose
i = GWE adjusted using the formula $GWE = (TOC - DTW) + (\text{free product (FP) thickness} \times 0.8)$
j = Sample contains a higher boiling point hydrocarbon mixture quantitated as gasoline. The chromatogram did not match the typical gasoline fingerprint
k = DO reading not taken due to the presence of sheen
l = FP in well
m = Gauged with ORC sock in well
n = Method reporting limit for benzene, toluene, ethylbenzene, and/or total xylenes was raised due to high analyte concentration requiring sample dilution or matrix interference
o = Well dewatered
p = Well inaccessible
q = Insufficient sample available to follow standard QC procedures
r = Wells resurveyed February 27, 2004
s = Reporting limits elevated due to matrix interferences (SVOCs)
t = Sample preserved improperly
u = Reporting limits raised due to high level of non-target analytes (SVOCs)
v = Wells surveyed June 23, 2009
w = Quantitation of unknown hydrocarbon(s) in sample based on baseline
x = Quantitated against gasoline

Notes:

Beginning in the fourth quarter 2003, the laboratory modified the reported analyte list. TPH-g was changed to GRO. The resulting data may be impacted by the potential of non-TPH-g analytes within the requested fuel range resulting in a higher concentration being reported

Beginning in the second quarter 2004, the carbon range for GRO was changed from C6-C10 to C4-C12

Values for DO and pH were obtained through field measurements

Top and bottom of screen measurements for wells MW-1 to MW-3, and MW-7 were taken from Delta Environmental Consulting Inc. sampling sheets because the well construction logs were not available

GRO analysis was completed by EPA method 8260B (C4-C12) for samples collected from the time period April 2006 through February 4, 2008. The analysis for GRO was changed to EPA method 8015B (C6-C12) for samples collected from the time period February 5, 2008 through the present

The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-1									
2/22/1996	--	--	<1,000	--	--	--	--	--	
5/20/1996	--	--	<1,000	--	--	--	--	--	
8/26/1996	--	--	<1,000	--	--	--	--	--	
11/20/1996	--	--	<300	--	--	--	--	--	
3/24/1997	--	--	<1,000	--	--	--	--	--	
5/23/1997	--	--	<300	--	--	--	--	--	
8/19/1997	--	--	<600	--	--	--	--	--	
11/19/1997	--	--	<3,000	--	--	--	--	--	
2/19/1998	--	--	<300	--	--	--	--	--	
4/23/1998	--	--	<3,000	--	--	--	--	--	
7/27/1998	--	--	<300	--	--	--	--	--	
10/14/1998	--	--	<300	--	--	--	--	--	
1/21/1999	--	--	<300	--	--	--	--	--	
5/6/1999	--	--	<120	--	--	--	--	--	
8/23/1999	--	--	<75	--	--	--	--	--	
10/28/1999	--	--	<200	--	--	--	--	--	
2/4/2000	--	--	<60	--	--	--	--	--	
6/20/2000	--	--	<200	--	--	--	--	--	
9/29/2000	--	--	<250	--	--	--	--	--	
12/17/2000	--	--	<250	--	--	--	--	--	
3/28/2001	--	--	<500	--	--	--	--	--	
6/20/2001	--	--	100	--	--	--	--	--	
9/22/2001	--	--	<1000	--	--	--	--	--	
12/27/2001	--	--	290	--	--	--	--	--	
3/15/2002	--	--	<250	--	--	--	--	--	
4/18/2002	--	--	<250	--	--	--	--	--	
7/23/2002	--	--	<250	--	--	--	--	--	
10/16/2002	--	--	<120	--	--	--	--	--	
1/23/2003	<4,000	<2,000	<50	<50	<50	<50	<50	<50	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-1 Cont.									
4/7/2003	<1,000	<200	69	<5.0	<5.0	<5.0	<5.0	<5.0	
8/7/2003	<5,000	<1,000	160	<25	<25	<25	<25	<25	
10/23/2003	--	<1,000	220	<25	<25	<25	<25	<25	
01/12/2004	<5,000	<1,000	140	<50	<50	<50	<25	<25	
04/20/2004	<5,000	<1,000	84	<25	<25	<25	<25	<25	
07/01/2004	<2,000	<400	100	<10	<10	<10	<10	<10	
11/04/2004	<1,000	<200	130	<5.0	<5.0	5.5	<5.0	<5.0	
01/10/2005	<1,000	<200	12	<5.0	<5.0	<5.0	<5.0	<5.0	
04/14/2005	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
08/02/2005	<100	530	15	<5.0	<5.0	<5.0	<5.0	<5.0	c
10/21/2005	<1,000	<200	64	<5.0	<5.0	6.2	<5.0	<5.0	
01/04/2006	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	b
04/28/2006	<3,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	a
8/4/2006	<3,000	<200	14	<5.0	<5.0	<5.0	<5.0	<5.0	
10/23/2006	<3,000	<200	16	<5.0	<5.0	<5.0	<5.0	<5.0	b
1/15/2007	--	--	--	--	--	--	--	--	Not sampled due to presence of free product
4/17/2007	<6,000	<400	<10	<10	<10	<10	<10	<10	
7/9/2007	<3,000	<200	81	<5.0	<5.0	<5.0	<5.0	<5.0	
10/1/2007	<3,000	<200	9.3	<5.0	<5.0	<5.0	<5.0	<5.0	
1/7/2008	<3,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
4/1/2008	<12,000	<400	<20	<20	<20	<20	<20	<20	e
7/23/2008	<12,000	<400	<20	<20	<20	<20	<20	<20	
10/22/2008	<12,000	<400	<20	<20	<20	<20	<20	<20	
1/21/2009	<12,000	<400	<20	<20	<20	<20	<20	<20	
4/21/2009	<12,000	<400	<20	<20	<20	<20	<20	<20	h
7/21/2009	<12,000	<400	<20	<20	<20	<20	<20	<20	h
1/12/2010	<6,000	<200	<10	<10	<10	<10	<10	<10	h
7/22/2010	<6,000	<200	<10	<10	<10	<10	<10	<10	
2/18/2011	<1,200	<40	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-1 Cont.									
8/25/2011	<1,500	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
1/17/2012	<600	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
7/24/2012	<300	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1/31/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/30/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-2									
8/31/1995	--	--	<50	--	--	--	--	--	
2/22/1996	--	--	<50	--	--	--	--	--	
3/24/1997	--	--	67	--	--	--	--	--	
2/19/1998	--	--	25	--	--	--	--	--	
1/21/1999	--	--	13	--	--	--	--	--	
3/28/2001	--	--	39.5	--	--	--	--	--	
3/15/2002	--	--	75	--	--	--	--	--	
1/23/2003	<4,000	<2,000	95	<50	<50	<50	<50	<50	
10/23/2003	--	<100	68	<2.5	<2.5	16	<2.5	<2.5	
07/01/2004	<100	28	72	<0.50	<0.50	15	<0.50	<0.50	
08/02/2005	<100	<20	12	<0.50	<0.50	3.4	<0.50	<0.50	
8/4/2006	<300	21	7.9	<0.50	<0.50	2.3	<0.50	<0.50	
7/9/2007	<300	<20	3.2	<0.50	<0.50	0.98	<0.50	<0.50	
7/23/2008	<300	<10	0.78	<0.50	<0.50	<0.50	<0.50	<0.50	
7/21/2009	<300	<10	0.83	<0.50	<0.50	<0.50	<0.50	<0.50	
6/3/2010	<300	<10	1.2	<0.50	<0.50	0.76	<0.50	<0.50	
7/22/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/24/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/30/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-3									
2/22/1996	--	--	<3,000	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-3 Cont.									
5/20/1996	--	--	<3,000	--	--	--	--	--	
8/26/1996	--	--	<2,000	--	--	--	--	--	
11/20/1996	--	--	<1,000	--	--	--	--	--	
3/24/1997	--	--	<5,000	--	--	--	--	--	
5/23/1997	--	--	<700	--	--	--	--	--	
8/19/1997	--	--	<600	--	--	--	--	--	
11/19/1997	--	--	<600	--	--	--	--	--	
2/19/1998	--	--	<600	--	--	--	--	--	
4/23/1998	--	--	<600	--	--	--	--	--	
7/27/1998	--	--	<600	--	--	--	--	--	
10/14/1998	--	--	970	--	--	--	--	--	
1/21/1999	--	--	<600	--	--	--	--	--	
5/6/1999	--	--	170	--	--	--	--	--	
8/23/1999	--	--	<150	--	--	--	--	--	
10/28/1999	--	--	<5,000	--	--	--	--	--	
2/4/2000	--	--	650	--	--	--	--	--	
6/20/2000	--	--	<500	--	--	--	--	--	
9/29/2000	--	--	<250	--	--	--	--	--	
3/28/2001	--	--	<1,000	--	--	--	--	--	
6/20/2001	--	--	<2,500	--	--	--	--	--	
9/22/2001	--	--	<1,000	--	--	--	--	--	
12/27/2001	--	--	<250	--	--	--	--	--	
3/15/2002	--	--	<250	--	--	--	--	--	
7/23/2002	--	--	<250	--	--	--	--	--	
10/16/2002	--	--	<250	--	--	--	--	--	
1/23/2003	<8,000	<4,000	<100	<100	<100	<100	<100	<100	
4/7/2003	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
8/7/2003	<20,000	<4,000	<100	<100	<100	<100	<100	<100	
10/23/2003	--	<1,000	<25	<25	<25	<25	<25	<25	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-3 Cont.									
01/12/2004	<1,000	<200	<5.0	<10	<10	<10	<5.0	<5.0	
04/20/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
07/01/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
11/23/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
01/10/2005	<20,000	<4,000	<100	<100	<100	<100	<100	<100	
04/14/2005	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
08/02/2005	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
10/21/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
01/04/2006	<5,000	<1,000	<25	<25	<25	<25	<25	<25	b
04/28/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
8/4/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
10/23/2006	<3,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	b
1/15/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
4/17/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
7/9/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
10/1/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	d
4/1/2008	<60,000	<2,000	<100	<100	<100	<100	<100	<100	
7/23/2008	<3,000	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
10/22/2008	<75,000	<2,500	<120	<120	<120	<120	<120	<120	
1/21/2009	<60,000	<2,000	<100	<100	<100	<100	<100	<100	
4/21/2009	<30,000	<1,000	<50	<50	<50	<50	<50	<50	
7/21/2009	<15,000	<500	<25	<25	<25	<25	<25	<25	
1/12/2010	<6,000	<200	<10	<10	<10	<10	<10	<10	
6/3/2010	<15,000	<500	<25	<25	<25	<25	<25	<25	
7/22/2010	<15,000	<500	<25	<25	<25	<25	<25	<25	
2/18/2011	<15,000	<500	<25	<25	<25	<25	<25	<25	
8/25/2011	<12,000	<400	<20	<20	<20	<20	<20	<20	
1/17/2012	<6,000	<200	<10	<10	<10	<10	<10	<10	
7/24/2012	<1,500	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-3 Cont.									
1/31/2013	<1,500	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
7/30/2013	<1,500	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
MW-4									
8/31/1995	--	--	<100	--	--	--	--	--	
2/22/1996	--	--	<20	--	--	--	--	--	
5/20/1996	--	--	<100	--	--	--	--	--	
8/26/1996	--	--	<100	--	--	--	--	--	
11/20/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<50	--	--	--	--	--	
5/23/1997	--	--	<60	--	--	--	--	--	
11/19/1997	--	--	<60	--	--	--	--	--	
2/19/1998	--	--	110	--	--	--	--	--	
4/23/1998	--	--	93	--	--	--	--	--	
7/27/1998	--	--	<120	--	--	--	--	--	
10/14/1998	--	--	63	--	--	--	--	--	
1/21/1999	--	--	13	--	--	--	--	--	
5/6/1999	--	--	41	--	--	--	--	--	
8/23/1999	--	--	57	--	--	--	--	--	
10/28/1999	--	--	16	--	--	--	--	--	
2/4/2000	--	--	8	--	--	--	--	--	
6/20/2000	--	--	46	--	--	--	--	--	
6/20/2001	--	--	110	--	--	--	--	--	
9/22/2001	--	--	100	--	--	--	--	--	
12/27/2001	--	--	15	--	--	--	--	--	
3/15/2002	--	--	12	--	--	--	--	--	
4/18/2002	--	--	3.7	--	--	--	--	--	
7/23/2002	--	--	41	--	--	--	--	--	
10/16/2002	--	--	<25	--	--	--	--	--	
1/23/2003	<200	<100	5.9	<2.5	<2.5	<2.5	<2.5	<2.5	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-4 Cont.									
4/7/2003	<100	<20	9.2	<0.5	<0.5	0.61	<0.5	<0.50	
8/7/2003	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
10/23/2003	--	<100	12	<2.5	<2.5	<2.5	<2.5	<2.5	
01/12/2004	<500	<100	4.3	<5.0	<5.0	<5.0	<2.5	<2.5	
04/20/2004	<1,000	<200	12	<5.0	<5.0	<5.0	<5.0	<5.0	
07/01/2004	<500	<100	15	<2.5	<2.5	<2.5	<2.5	<2.5	
11/04/2004	<200	<40	5.7	<1.0	<1.0	<1.0	<1.0	<1.0	
01/10/2005	<100	<20	2.5	<0.50	<0.50	<0.50	<0.50	<0.50	
04/14/2005	<100	<20	4.5	<0.50	<0.50	0.61	<0.50	<0.50	
08/02/2005	<100	<20	7.1	<0.50	<0.50	0.97	3.7	<0.50	
10/21/2005	<200	<40	10	<1.0	<1.0	1.3	<1.0	<1.0	b
01/04/2006	<200	<40	3.7	<1.0	<1.0	<1.0	<1.0	<1.0	b
04/28/2006	<600	<40	3.7	<1.0	<1.0	<1.0	<1.0	<1.0	
8/4/2006	<3,000	<200	15	<5.0	<5.0	<5.0	<5.0	<5.0	
10/23/2006	<300	<20	16	<0.50	<0.50	5.5	<0.50	<0.50	b
1/15/2007	--	--	--	--	--	--	--	--	g
4/17/2007	<600	<40	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	
7/9/2007	<1,200	<80	14	<2.0	<2.0	<2.0	<2.0	<2.0	
10/1/2007	<600	<40	11	<1.0	<1.0	1.6	<1.0	<1.0	
1/7/2008	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/1/2008	<300	<10	0.68	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2008	--	--	--	--	--	--	--	--	f
10/22/2008	--	--	--	--	--	--	--	--	f
4/21/2009	<300	<10	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	
6/3/2010	<300	<10	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-5									
8/31/1995	--	--	<500	--	--	--	--	--	
2/22/1996	--	--	<500	--	--	--	--	--	
5/20/1996	--	--	<500	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-5 Cont.									
8/26/1996	--	--	<300	--	--	--	--	--	
11/20/1996	--	--	<500	--	--	--	--	--	
3/24/1997	--	--	<500	--	--	--	--	--	
5/23/1997	--	--	<600	--	--	--	--	--	
8/19/1997	--	--	<300	--	--	--	--	--	
11/19/1997	--	--	<300	--	--	--	--	--	
2/19/1998	--	--	<300	--	--	--	--	--	
4/23/1998	--	--	<600	--	--	--	--	--	
7/27/1998	--	--	<600	--	--	--	--	--	
10/14/1998	--	--	<300	--	--	--	--	--	
1/21/1999	--	--	<600	--	--	--	--	--	
5/6/1999	--	--	12	--	--	--	--	--	
8/23/1999	--	--	67	--	--	--	--	--	
10/28/1999	--	--	<250	--	--	--	--	--	
2/4/2000	--	--	<75	--	--	--	--	--	
6/20/2000	--	--	<200	--	--	--	--	--	
3/28/2001	--	--	<250	--	--	--	--	--	
6/20/2001	--	--	<100	--	--	--	--	--	
12/27/2001	--	--	<250	--	--	--	--	--	
3/15/2002	--	--	<250	--	--	--	--	--	
4/18/2002	--	--	<250	--	--	--	--	--	
7/23/2002	--	--	110	--	--	--	--	--	
10/16/2002	--	--	<100	--	--	--	--	--	
1/23/2003	<4,000	<2,000	<50	<50	<50	<50	<50	<50	
4/7/2003	<500	<100	32	<2.5	<2.5	6.3	<2.5	<2.5	
8/7/2003	<100	<20	3.5	<0.50	<0.50	<0.50	<0.50	<0.50	
10/23/2003	--	<20	12	<0.50	<0.50	1.7	<0.50	<0.50	
01/12/2004	<100	<20	11	<1.0	<1.0	1.3	<0.50	<0.50	
04/20/2004	<100	<20	12	<0.50	<0.50	3.0	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-5 Cont.									
07/01/2004	<100	<20	11	<0.50	<0.50	2.0	<0.50	<0.50	
11/04/2004	<100	<20	9.4	<0.50	<0.50	2.0	<0.50	<0.50	
01/10/2005	<100	<20	40	<0.50	<0.50	9.7	<0.50	<0.50	
04/14/2005	<1,000	<200	40	<5.0	<5.0	9.3	<5.0	<5.0	
08/02/2005	<500	<100	19	<2.5	<2.5	5.0	9.2	<2.5	
10/21/2005	<1,000	<200	16	<5.0	<5.0	<5.0	<5.0	<5.0	
01/04/2006	<1,000	<200	30	<5.0	<5.0	7.2	<5.0	<5.0	b
04/28/2006	<3,000	<200	9.9	<5.0	<5.0	<5.0	<5.0	<5.0	
8/4/2006	<3,000	<200	14	<5.0	<5.0	<5.0	<5.0	<5.0	
10/23/2006	<6,000	<400	13	<10	<10	<10	<10	<10	b
1/15/2007	<6,000	<400	10	<10	<10	<10	<10	<10	
4/17/2007	<3,000	<200	5.9	<5.0	<5.0	<5.0	<5.0	<5.0	
7/9/2007	<3,000	<200	6.9	<5.0	<5.0	<5.0	<5.0	<5.0	
10/1/2007	<1,500	<100	4.2	<2.5	<2.5	<2.5	<2.5	<2.5	
1/7/2008	<1,500	<100	4.1	<2.5	<2.5	<2.5	<2.5	<2.5	
4/1/2008	<300	<10	1.8	<0.50	<0.50	0.70	<0.50	<0.50	
7/23/2008	<6,000	<200	<10	<10	<10	<10	<10	<10	
10/22/2008	<3,000	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1/21/2009	<3,000	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
4/21/2009	<300	<10	0.74	<0.50	<0.50	<0.50	<0.50	<0.50	
6/3/2010	<1,500	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
MW-6									
8/31/1995	--	--	<500	--	--	--	--	--	
2/22/1996	--	--	<300	--	--	--	--	--	
5/20/1996	--	--	<300	--	--	--	--	--	
8/26/1996	--	--	<300	--	--	--	--	--	
11/20/1996	--	--	<300	--	--	--	--	--	
3/24/1997	--	--	<100	--	--	--	--	--	
5/23/1997	--	--	<300	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-6 Cont.									
2/19/1998	--	--	<30	--	--	--	--	--	
4/23/1998	--	--	<60	--	--	--	--	--	
7/27/1998	--	--	<150	--	--	--	--	--	
10/14/1998	--	--	<120	--	--	--	--	--	
1/21/1999	--	--	<150	--	--	--	--	--	
5/6/1999	--	--	5	--	--	--	--	--	
8/23/1999	--	--	<15	--	--	--	--	--	
2/4/2000	--	--	11	--	--	--	--	--	
12/27/2001	--	--	<2.5	--	--	--	--	--	
3/15/2002	--	--	<25	--	--	--	--	--	
4/18/2002	--	--	52	--	--	--	--	--	
1/23/2003	<200	<100	17	<2.5	<2.5	<2.5	<2.5	<2.5	a
1/23/2003	<4,000	<2,000	<50	<50	<50	<50	<50	<50	
4/7/2003	<100	<20	15	<0.5	<0.5	2.1	<0.5	<0.50	
01/12/2004	<5,000	<1,000	150	<50	<50	<50	<25	<25	
11/04/2004	<2,000	<400	230	<10	<10	58	<10	<10	
01/10/2005	<5,000	<1,000	240	<25	<25	65	<25	<25	
04/14/2005	<1,000	<200	210	<5.0	<5.0	56	<5.0	<5.0	
08/02/2005	<1,000	<200	150	<5.0	<5.0	44	<5.0	<5.0	
10/21/2005	<1,000	<200	110	<5.0	<5.0	47	<5.0	<5.0	
01/04/2006	<500	<100	130	<2.5	<2.5	42	<2.5	<2.5	b
04/28/2006	<1,500	<100	170	<2.5	<2.5	59	<2.5	<2.5	
8/4/2006	<1,500	<100	110	<2.5	<2.5	39	<2.5	<2.5	
10/23/2006	--	--	--	--	--	--	--	--	g
1/15/2007	--	--	--	--	--	--	--	--	g
4/17/2007	<600	<40	24	<1.0	<1.0	8.2	<1.0	<1.0	
7/9/2007	<300	<20	51	<0.50	<0.50	21	<0.50	<0.50	
1/7/2008	<300	<20	37	<0.50	<0.50	17	<0.50	<0.50	
4/1/2008	<300	<10	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-6 Cont.									
7/23/2008	--	--	--	--	--	--	--	--	g
10/22/2008	--	--	--	--	--	--	--	--	g
MW-7									
8/31/1995	--	--	<3	--	--	--	--	--	
2/22/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<3	--	--	--	--	--	
2/19/1998	--	--	<3	--	--	--	--	--	
4/23/1998	--	--	<3	--	--	--	--	--	
7/27/1998	--	--	<3	--	--	--	--	--	
10/14/1998	--	--	<3	--	--	--	--	--	
1/21/1999	--	--	<3	--	--	--	--	--	
5/6/1999	--	--	<3	--	--	--	--	--	
8/23/1999	--	--	<3	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
12/17/2000	--	--	<2.5	--	--	--	--	--	
3/28/2001	--	--	<2.5	--	--	--	--	--	
12/27/2001	--	--	<2.5	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	
4/18/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/7/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/7/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/23/2003	--	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
01/12/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	
04/20/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/04/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
01/10/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
08/02/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/4/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-7 Cont.									
7/23/2008	--	--	--	--	--	--	--	--	g
MW-8									
8/31/1995	--	--	520	--	--	--	--	--	
11/27/1995	--	--	560	--	--	--	--	--	
2/22/1996	--	--	110	--	--	--	--	--	
5/20/1996	--	--	240	--	--	--	--	--	
8/26/1996	--	--	710	--	--	--	--	--	
11/20/1996	--	--	930	--	--	--	--	--	
3/24/1997	--	--	1,300	--	--	--	--	--	
5/23/1997	--	--	630	--	--	--	--	--	
8/19/1997	--	--	290	--	--	--	--	--	
11/19/1997	--	--	260	--	--	--	--	--	
2/19/1998	--	--	140	--	--	--	--	--	
4/23/1998	--	--	590	--	--	--	--	--	
1/21/1999	--	--	320	--	--	--	--	--	
5/6/1999	--	--	160	--	--	--	--	--	
8/23/1999	--	--	5	--	--	--	--	--	
10/28/1999	--	--	45	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
6/20/2000	--	--	310	--	--	--	--	--	
9/29/2000	--	--	438	--	--	--	--	--	
12/17/2000	--	--	273	--	--	--	--	--	
3/28/2001	--	--	320	--	--	--	--	--	
6/20/2001	--	--	330	--	--	--	--	--	
9/22/2001	--	--	6.5	--	--	--	--	--	
12/27/2001	--	--	160	--	--	--	--	--	
3/15/2002	--	--	830	--	--	--	--	--	
7/23/2002	--	--	8.7	--	--	--	--	--	
10/16/2002	--	--	<2.5	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-8 Cont.									
1/23/2003	<40	<20	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	
4/7/2003	<100	<20	19	<0.50	<0.50	<0.50	<0.50	<0.50	
8/7/2003	<100	<20	0.96	<0.50	<0.50	<0.50	<0.50	<0.50	
10/23/2003	--	<20	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	
01/12/2004	<100	<20	13	<1.0	<1.0	<1.0	<0.50	<0.50	
04/20/2004	<100	<20	25	<0.50	<0.50	<0.50	<0.50	<0.50	
07/01/2004	<100	<20	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	
11/04/2004	<100	<20	13	<0.50	<0.50	<0.50	<0.50	<0.50	
01/10/2005	<100	<20	10	<0.50	<0.50	<0.50	<0.50	<0.50	
08/02/2005	<100	<20	16	<0.50	<0.50	<0.50	<0.50	<0.50	
10/21/2005	--	--	--	--	--	--	--	--	Well inaccessible
8/4/2006	<300	<20	16	<0.50	<0.50	<0.50	<0.50	<0.50	
7/9/2007	<300	<20	17	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2008	<300	<10	8.6	<0.50	<0.50	<0.50	<0.50	<0.50	
7/21/2009	<300	<10	3.3	<0.50	<0.50	<0.50	<0.50	<0.50	
7/22/2010	<300	<10	4.3	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2011	<300	<10	0.52	<0.50	<0.50	<0.50	<0.50	<0.50	
7/24/2012	<150	<10	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	
7/30/2013	<150	<10	0.75	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-9									
8/31/1995	--	--	<3	--	--	--	--	--	
2/22/1996	--	--	<3	--	--	--	--	--	
8/26/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<3	--	--	--	--	--	
8/19/1997	--	--	<3	--	--	--	--	--	
2/19/1998	--	--	<3	--	--	--	--	--	
7/27/1998	--	--	<3	--	--	--	--	--	
10/14/1998	--	--	<3	--	--	--	--	--	
1/21/1999	--	--	<3	--	--	--	--	--	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-9 Cont.									
8/23/1999	--	--	<3	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
9/29/2000	--	--	3.44	--	--	--	--	--	
3/28/2001	--	--	<2.5	--	--	--	--	--	
9/22/2001	--	--	7.8	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	
7/23/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	<20	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	
07/01/2004	<100	<20	3.2	<0.50	<0.50	<0.50	<0.50	<0.50	
08/02/2005	<100	<20	3.8	<0.50	<0.50	<0.50	<0.50	<0.50	
8/4/2006	<300	<20	4.0	<0.50	<0.50	<0.50	<0.50	<0.50	
7/9/2007	<300	<20	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2008	<300	<10	5.0	<0.50	<0.50	<0.50	<0.50	<0.50	
7/21/2009	<300	<10	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	
7/22/2010	<300	<10	4.5	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2011	<300	<10	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	
7/24/2012	<150	<10	3.6	<0.50	<0.50	<0.50	<0.50	<0.50	
7/30/2013	<150	<10	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-10									
8/31/1995	--	--	<3	--	--	--	--	--	
2/22/1996	--	--	<3	--	--	--	--	--	
8/26/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<3	--	--	--	--	--	
8/19/1997	--	--	<3	--	--	--	--	--	
11/19/1997	--	--	<3	--	--	--	--	--	
2/19/1998	--	--	<3	--	--	--	--	--	
4/23/1998	--	--	<3	--	--	--	--	--	
7/27/1998	--	--	<3	--	--	--	--	--	
10/14/1998	--	--	<3	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-10 Cont.									
1/21/1999	--	--	<3	--	--	--	--	--	
5/6/1999	--	--	<3	--	--	--	--	--	
8/23/1999	--	--	<3	--	--	--	--	--	
10/28/1999	--	--	<3	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
6/20/2000	--	--	<3.0	--	--	--	--	--	
9/29/2000	--	--	<2.5	--	--	--	--	--	
12/17/2000	--	--	<2.5	--	--	--	--	--	
3/28/2001	--	--	<2.5	--	--	--	--	--	
6/20/2001	--	--	<2.5	--	--	--	--	--	
9/22/2001	--	--	<2.5	--	--	--	--	--	
12/27/2001	--	--	<2.5	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	
4/18/2002	--	--	3.8	--	--	--	--	--	
7/23/2002	--	--	<2.5	--	--	--	--	--	
10/16/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	<20	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	
4/7/2003	<100	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	
8/7/2003	<100	<20	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	
01/12/2004	<100	<20	1.7	<1.0	<1.0	<1.0	<0.50	<0.50	
07/01/2004	<100	<20	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	
01/10/2005	<100	<20	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	b
08/02/2005	<100	<20	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	
01/04/2006	<100	<20	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	b
8/4/2006	<300	<20	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	
1/15/2007	<300	<20	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	
7/9/2007	<300	<20	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	
1/7/2008	<300	<20	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2008	<300	<10	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	

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ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-10 Cont.									
1/21/2009	<300	<10	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	
7/21/2009	<300	<10	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	
1/12/2010	<300	<10	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
7/22/2010	<300	<10	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	
2/18/2011	<300	<10	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2011	<300	<10	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	
1/17/2012	<300	<10	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	
7/24/2012	<150	<10	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	
1/31/2013	<150	<10	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
7/30/2013	<150	<10	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-11									
8/31/1995	--	--	<3	--	--	--	--	--	
2/22/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<3	--	--	--	--	--	
2/19/1998	--	--	7	--	--	--	--	--	
1/21/1999	--	--	<3	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
3/28/2001	--	--	<2.5	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/23/2003	--	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
07/01/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-12									
8/31/1995	--	--	<3	--	--	--	--	--	
2/22/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<3	--	--	--	--	--	
2/19/1998	--	--	<3	--	--	--	--	--	
1/21/1999	--	--	<3	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-12 Cont.									
2/4/2000	--	--	<3	--	--	--	--	--	
3/28/2001	--	--	<2.5	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	
10/23/2003	--	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
07/01/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-14									
2/22/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<3	--	--	--	--	--	
11/19/1997	--	--	<3	--	--	--	--	--	
2/19/1998	--	--	<3	--	--	--	--	--	
4/23/1998	--	--	<3	--	--	--	--	--	
7/27/1998	--	--	<3	--	--	--	--	--	
10/14/1998	--	--	<3	--	--	--	--	--	
1/21/1999	--	--	<3	--	--	--	--	--	
5/6/1999	--	--	<3	--	--	--	--	--	
8/23/1999	--	--	<3	--	--	--	--	--	
10/28/1999	--	--	<10	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
6/20/2000	--	--	<10	--	--	--	--	--	
9/29/2000	--	--	<2.50	--	--	--	--	--	
12/17/2000	--	--	<2.5	--	--	--	--	--	
3/28/2001	--	--	<2.5	--	--	--	--	--	
6/20/2001	--	--	3.1	--	--	--	--	--	
9/22/2001	--	--	<2.5	--	--	--	--	--	
12/27/2001	--	--	<2.5	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	
4/18/2002	--	--	<2.5	--	--	--	--	--	
7/23/2002	--	--	<2.5	--	--	--	--	--	
10/16/2002	--	--	<2.5	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-14 Cont.									
1/23/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/7/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/7/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
01/12/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	
07/01/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
01/10/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
08/02/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/4/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/9/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/21/2009	<300	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/22/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/24/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/30/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-15									
8/31/1995	--	--	<3	--	--	--	--	--	
2/22/1996	--	--	12	--	--	--	--	--	
8/26/1996	--	--	8	--	--	--	--	--	
3/24/1997	--	--	15	--	--	--	--	--	
8/19/1997	--	--	6	--	--	--	--	--	
2/19/1998	--	--	48	--	--	--	--	--	
7/27/1998	--	--	50	--	--	--	--	--	
10/14/1998	--	--	27	--	--	--	--	--	
1/21/1999	--	--	6	--	--	--	--	--	
8/23/1999	--	--	21	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
9/29/2000	--	--	<2.50	--	--	--	--	--	
3/28/2001	--	--	11.1	--	--	--	--	--	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-15 Cont.									
9/22/2001	--	--	13	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	
7/23/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	<20	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	
07/01/2004	<100	<20	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	
08/02/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/4/2006	<300	<20	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	
7/9/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/21/2009	<300	<0.50	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	
7/22/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2011	<300	<10	2.9	<0.50	<0.50	<0.50	<0.50	<0.50	
7/24/2012	<150	<10	0.59	<0.50	<0.50	<0.50	<0.50	<0.50	
7/30/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-16									
7/21/2009	<300	<0.50	0.68	<0.50	<0.50	<0.50	<0.50	<0.50	
1/12/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/3/2010	<600	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
7/22/2010	<600	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
2/18/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2011	<2,400	<80	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
1/17/2012	600	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
7/24/2012	<600	<40	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
1/31/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/30/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-17									
7/21/2009	<300	10	2.8	<0.50	<0.50	1.0	<0.50	<0.50	
1/12/2010	<6,000	<200	<10	<10	<10	<10	<10	<10	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-17 Cont.									
6/3/2010	<15,000	<500	<25	<25	<25	<25	<25	<25	
7/22/2010	<15,000	<500	<25	<25	<25	<25	<25	<25	
2/18/2011	<6,000	<200	<10	<10	<10	<10	<10	<10	
8/25/2011	<6,000	<200	<10	<10	<10	<10	<10	<10	
1/17/2012	<1,500	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
7/24/2012	<300	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1/31/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/30/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-18									
7/21/2009	<300	<10	4.8	<0.50	<0.50	3.0	<0.50	<0.50	
1/12/2010	<600	<20	5.8	<1.0	<1.0	4.7	<1.0	<1.0	
7/22/2010	<300	<10	5.1	<0.50	<0.50	4.9	<0.50	<0.50	
2/18/2011	<300	<10	3.8	<0.50	<0.50	3.2	<0.50	<0.50	
8/25/2011	<300	<10	4.9	<0.50	<0.50	4.8	<0.50	<0.50	
1/17/2012	<300	<10	2.5	<0.50	<0.50	1.9	<0.50	<0.50	
7/24/2012	<150	<10	1.8	<0.50	<0.50	1.8	<0.50	<0.50	
1/31/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/30/2013	<150	<10	1.2	<0.50	<0.50	1.1	<0.50	<0.50	
MW-19									
7/21/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/24/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/30/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Symbols & Abbreviations:

-- = Not analyzed/applicable/measured/available

< = Not detected at or above specified laboratory reporting limit.

1,2-DCA = 1,2-Dichloroethane

ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

µg/L = Micrograms per Liter

Footnotes:

a = The sample was re-extracted beyond the EPA recommended holding time. The results may still be useful for their intended purpose

b = Calibration verification for ethanol was within method limits but outside contract limits

c = Original analysis for ethanol was a positive result. Reanalysis did not confirm

d = Sample preserved improperly

e = FP in well

f = Insufficient water to sample

g = Well was dry

h = Reporting limits raised due to high level of non-target analytes (SVOCs)

Notes:

All volatile organic compounds analyzed using EPA Method 8260B

The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information

Table 3. Historical Groundwater Gradient - Direction and Magnitude
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Date Measured	Approximate Gradient Direction	Approximate Gradient Magnitude (ft/ft)
8/4/1994	Southwest	0.004
11/20/1994	Southwest	0.002
3/17/1995	West-Southwest	0.006
6/1/1995	Southwest	0.003
8/31/1995	South-Southwest	0.005
11/27/1995	South-Southwest	0.004
2/22/1996	Northwest	0.007
5/20/1996	Southwest	0.007
8/26/1996	South-Southwest	0.004
11/20/1996	South-Southeast	0.004
3/24/1997	Southeast	0.013
5/23/1997	Southeast	0.014
8/19/1997	Southeast	0.04
11/19/1997	Southeast	0.016
2/19/1998	East	Variable
4/23/1998	Variable	Variable
7/27/1998	Southeast	0.05
10/14/1998	Southeast	0.02
1/21/1999	East	0.04
5/6/1999	Southeast	0.05
8/23/1999	Southeast	0.02
10/28/1999	Southeast	0.04
2/4/2000	East-Southeast	0.053
6/20/2000	East-Southeast	0.023
9/29/2000	East-Southeast	0.023
12/17/2000	East-Southeast	0.01
3/28/2001	East-Southeast	0.014
6/20/2001	East-Southeast	0.022
9/22/2001	East-Southeast	0.025
12/27/2001	East-Southeast	0.025
3/15/2002	East	0.015
4/18/2002	East	0.015
7/23/2002	East-Southeast	0.025
10/16/2002	East-Southeast	0.022
1/23/2003	East	0.020
4/7/2003	East-Southeast	0.033
8/7/2003	East-Southeast	0.047
10/23/2003	Southeast	0.047
1/12/2004	Southeast	0.042
4/20/2004	Southwest	0.005
7/1/2004	West	0.005
11/4/2004	West to Southwest	0.011 to 0.003
1/10/2005	West to North	0.02 to 0.03
4/14/2005	Northwest to Southwest	0.005 to 0.02
8/2/2005	West to Southwest	0.004 to 0.01

Table 3. Historical Groundwater Gradient - Direction and Magnitude
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Date Measured	Approximate Gradient Direction	Approximate Gradient Magnitude (ft/ft)
10/21/2005	Southwest	0.005
1/4/2006	Variable	0.009 to 0.04
4/28/2006	Southwest	0.005
8/4/2006	South-Southwest	0.007
10/23/2006	South-Southwest	0.003
1/15/2007	Southwest	0.002
4/17/2007	Southwest	0.001
7/9/2007	Southwest	0.002
10/1/2007	Southwest	0.005
1/7/2008	Southwest	0.006
4/1/2008	Southwest	0.01
7/23/2008	South-Southwest	0.002
10/22/2008	South-Southwest	0.003
1/21/2009	South-Southwest	0.004
4/21/2009	Southwest	0.004
8/21/2009	Southwest	0.002
1/12/2010	Southwest	0.003
6/3/2010	Southwest	0.004
7/22/2010	Southwest	0.003
2/18/2011	West-Northwest	0.003
8/25/2011	Southwest	0.003
1/17/2012	Southwest	0.003
7/24/2012	Southwest	0.003
1/31/2013	Southwest	0.005
7/30/2013	Southwest	0.005

Notes:

Wells resurveyed on 2/27/2004

The data within this table collected prior to April 2006 was provided to Broadbent & Associates, Inc. by Atlantic Richfield Company and their previous consultants. Broadbent & Associates, Inc. has not verified the accuracy of this information

APPENDIX A

FIELD METHODS

QUALITY ASSURANCE/QUALITY CONTROL FIELD METHODS

Field methods discussed herein were implemented to provide for accuracy and reliability of field activities, data collection, sample collection, and handling. Discussion of these methods is provided below.

1.0 Equipment Calibration

Equipment calibration was performed per equipment manufacturer specifications before use.

2.0 Depth to Groundwater and Light Non-Aqueous Phase Liquid Measurement

Depth to groundwater was measured in wells identified for gauging in the scope of work using a decontaminated water level indicator. The depth to water measurement was taken from a cut notch or permanent mark at the top of the well casing to which the well head elevation was originally surveyed.

Once depth to water was measured, an oil/water interface meter or a new disposable bailer was utilized to evaluate the presence and, if present, to measure the “apparent” thickness of light non-aqueous phase liquid (LNAPL) in the well. If LNAPL was present in the well, groundwater purging and sampling were not performed, unless sampling procedures in the scope of work specified collection of samples in the presence of LNAPL. Otherwise, time allowing, LNAPL was bailed from the well using either a new disposable bailer, or the disposal bailer previously used for initial LNAPL assessment. Bailing of LNAPL continued until the thickness of LNAPL (or volume) stabilized in each bailer pulled from the well, or LNAPL was no longer present. After LNAPL thickness either stabilized or was eliminated, periodic depth to water and depth to LNAPL measurements were collected as product came back into the well to evaluate product recovery rate and to aid in further assessment of LNAPL in the subsurface. LNAPL thickness measurements were recorded as “apparent.” If a bailer was used for LNAPL thickness measurement, the field sampler noted the bailer entry diameter and chamber diameter to enable correction of thickness measurements. Recovered LNAPL was stored on-site in a labeled steel drum(s) or other appropriate container(s) prior to disposal.

3.0 Well Purging and Groundwater Sample Collection

Well purging and groundwater sampling were performed in wells specified in the scope of work after measuring depth to groundwater and evaluating the presence of LNAPL. Purging and sampling were performed using one of the methods detailed below. The method used was noted in the field records. Purge water was stored on-site in labeled steel drum(s) or other appropriate container(s) prior to disposal or on-site treatment (in cases where treatment using an on-site system is authorized).

3.1 Purging a Predetermined Well Volume

Purging a predetermined well volume is performed per ASTM International (ASTM) D4448-01. This purging method has the objective of removing a predetermined volume of stagnant water from the well prior to sampling. The volume of stagnant water is defined as either the volume of water contained within the well casing, or the volume within the well casing and sand/gravel in the annulus if natural flow through these is deemed insufficient to keep them flushed out.

This purging method involves removal of a minimum of three stagnant water volumes from the well using a decontaminated pump with new disposable plastic discharge or suction tubing, dedicated well tubing, or using a new disposable or decontaminated reusable bailer. If a new disposable bailer was used for assessment of LNAPL, that bailer may be used for purging. The withdrawal rate used is one that minimizes drawdown while satisfying time constraints.

To evaluate when purging is complete, one or more groundwater stabilization parameters are monitored and recorded during purging activities until stabilization is achieved. Most commonly, stabilization parameters include temperature, conductivity, and pH, but field procedures detailed in the scope of work may also include monitoring of dissolved oxygen concentrations, oxidation reduction potential, and/or turbidity¹. Parameters are considered stable when two (2) consecutive readings recorded three (3) minutes apart fall within ranges provided below in Table 1. In the event that the parameters have not stabilized and five (5) well casing volumes have been removed, purging activities will cease and be considered complete. Once the well is purged, a groundwater sample(s) is collected from the well using a new disposable bailer. If a new disposable bailer was used for purging, that bailer may be used to collect the sample(s). A sample is not collected if the well is inadvertently purged dry.

Parameter	Stabilization Criterion
Temperature	± 0.2°C (± 0.36°F)
pH	± 0.1 standard units
Conductivity	± 3%
Dissolved oxygen	± 10%
Oxidation reduction potential	± 10 mV
Turbidity ¹	± 10% or 1.0 NTU (whichever is greater)

3.2 Low-Flow Purging and Sampling

“Low-Flow”, “Minimal Drawdown”, or “Low-Stress” purging is performed per ASTM D6771-02. It is a method of groundwater removal from within a well’s screened interval that is intended to minimize drawdown and mixing of the water column in the well casing. This is accomplished by pumping the well using a decontaminated pump with new disposable plastic discharge or

¹ As stated in ASTM D6771-02, turbidity is not a chemical parameter and not indicative of when formation-quality water is being purged; however, turbidity may be helpful in evaluating stress on the formation during purging. Turbidity measurements are taken at the same time that stabilization parameter measurements are made, or, at a minimum, once when purging is initiated and again just prior to sample collection, after stabilization parameters have stabilized. To avoid artifacts in sample analysis, turbidity should be as low as possible when samples are collected. If turbidity values are persistently high, the withdrawal rate is lowered until turbidity decreases. If high turbidity persists even after lowering the withdrawal rate, the purging is stopped for a period of time until turbidity settles, and the purging process is then restarted. If this fails to solve the problem, the purging/sampling process for the well is ceased, and well maintenance or redevelopment is considered.

suction tubing or dedicated well tubing at a low flow rate while evaluating the groundwater elevation during pumping.

The low flow pumping rate is well specific and is generally established at a volume that is less than or equal to the natural recovery rate of the well. A pump with adjustable flow rate control is positioned with the intake at or near the mid-point of the submerged well screen. The pumping rate used during low-flow purging is low enough to minimize mobilization of particulate matter and drawdown (stress) of the water column. Low-flow purging rates will vary based on the individual well characteristics; however, the purge rate should not exceed 1.0 Liter per minute (L/min) or 0.25 gallon per minute (gal/min). Low-flow purging should begin at a rate of approximately 0.1 L/min (0.03 gal/min)², or the lowest rate possible, and be adjusted based on an evaluation of drawdown. Water level measurements should be recorded at approximate one (1) to two (2) minute intervals until the low-flow rate has been established, and drawdown is minimized. As a general rule, drawdown should not exceed 25% of the distance between the top of the water column and the pump in-take.

To evaluate when purging is complete, one or more groundwater stabilization parameters are monitored and recorded during purging activities until stabilization is achieved. Most commonly, stabilization parameters include temperature, conductivity, and pH, but field procedures detailed in the scope of work may also include monitoring of dissolved oxygen concentrations, oxidation reduction potential, and/or turbidity¹. The frequency between measurements will be at an interval of one (1) to three (3) minutes; however, if a flow cell is used, the frequency will be determined based on the time required to evacuate one cell volume. Stabilization is defined as three (3) consecutive readings recorded several minutes apart falling within ranges provided in Table 1. Samples will be collected by filling appropriate containers from the pump discharge tubing at a rate not to exceed the established pumping rate.

3.3 Minimal Purge, Discrete Depth, and Passive Sampling

Per ASTM D4448-01, sampling techniques that do not rely on purging, or require only minimal purging, may be used if a particular zone within a screened interval is to be sampled or if a well is not capable of yielding sufficient groundwater for purging. To properly use these sampling techniques, a water sample is collected within the screened interval with little or no mixing of the water column within the casing. These techniques include minimal purge sampling which uses a dedicated sampling pump capable of pumping rates of less than 0.1 L/min (0.03 gal/min)², discrete depth sampling using a bailer that allows groundwater entry at a controlled depth (e.g. differential pressure bailer), or passive (diffusion) sampling. These techniques are based on certain studies referenced in ASTM D4448-01 that indicate that under certain conditions, natural groundwater flow is laminar and horizontal with little or no mixing within the well screen.

² According to ASTM D4448-01, studies have indicated that at flow rates of 0.1 L/min, low-density polyethylene (LDPE) and plasticized polypropylene tubing materials are prone to sorption. Therefore, TFE-fluorocarbon or other appropriate tubing material is used, particularly when tubing lengths of 50 feet or longer are used.

4.0 Decontamination

Reusable groundwater sampling equipment were cleaned using a solution of Alconox or other acceptable detergent, rinsed with tap water, and finally rinsed with distilled water prior to use in each well. Decontamination water was stored on-site in labeled steel drum(s) or other appropriate container(s) prior to disposal.

5.0 Sample Containers, Labeling, and Storage

Samples were collected in laboratory prepared containers with appropriate preservative (if preservative was required). Samples were properly labeled (site name, sample I.D., sampler initials, date, and time of collection) and stored chilled (refrigerator or ice chest with ice) until delivery to a certified laboratory, under chain of custody procedures.

6.0 Chain of Custody Record and Procedure

The field sampler was personally responsible for care and custody of the samples collected until they were properly transferred to another party. To document custody and transfer of samples, a Chain of Custody Record was prepared. The Chain of Custody Record provided identification of the samples corresponding to sample labels and specified analyses to be performed by the laboratory. The original Chain of Custody Record accompanied the shipment, and a copy of the record was stored in the project file. When the samples were transferred, the individuals relinquishing and receiving them signed, dated, and noted the time of transfer on the record.

7.0 Field Records

Daily Report and data forms were completed by staff personnel to provide daily record of significant events, observations, and measurements. Field records were signed, dated, and stored in the project file.

APPENDIX B

FIELD DATA SHEETS



DAILY REPORT

Page 1 of 1

Project: BP 601 Project No.: 06-88-605

Field Representative(s): A. Martinez/A. Hernandez Day: Tuesday Date: 7/30/13

Time Onsite: From: 0700 To: 1500; From: _____ To: _____; From: _____ To: _____

☒ Signed HASP ☒ Safety Glasses ☒ Hard Hat ☒ Steel Toe Boots ☒ Safety Vest
☒ UST Emergency System Shut-off Switches Located ☒ Proper Gloves
☒ Proper Level of Barricading _____ Other PPE (describe) _____

Weather: Overcast

Equipment In Use: Peristaltic pump, water level meter, UST meter

Visitors: K. Tidwell

TIME:

WORK DESCRIPTION:

TIME:	WORK DESCRIPTION:
0700	Arrived onsite/conducted safety tailgate
0825	Set up @ MW-10.
0910	Set up and perform collect GW at MW-18.
0920	Set up and collect GW level at MW-6.
0940	Set up and collect GW samples at MW-17. Collect GW level at MW-5
1020	Set up and collect GW samples at MW-16.
1040	Collect GW level at MW-4
1047	Set up and collect GW level at MW-3
1115	Set up and collect GW at MW-1
1143	Set up and collect GW at MW-9
1215	Set up and collect GW at MW-15
1245	Set up and collect GW at MW-14
1315	Set up and collect GW @ MW-19
1400	Set up and collect GW at MW-8
1420	Set up and collect GW level at MW-11
1423	Set up and collect GW level at MW-2
1450	Set up and collect GW level at MW-13
1500	Begin demob activities and Mob off site.

Signature: Alex Martinez



GROUNDWATER MONITORING SITE SHEET

Page 1 of 13Project: BP 601 Project No.: 06-88-605 Date: 7/30/13Field Representative: AM/AH Elevation: _____Formation recharge rate is historically: High Low (circle one)

W. L. Indicator ID #: _____ Oil/Water Interface ID #: _____ (List #s of all equip used.)

WELL ID RECORD					WELL GAUGING RECORD					NOTES
Well ID	Well Sampling Order	As-Built Well Diameter (inches)	As-Built Well Screen Interval (ft)	Previous Depth to Water (ft)	Time (24:00)	Depth to LNAPL (ft)	Apparent LNAPL Thickness (ft)*	Depth to Water (ft)	Well Total Depth (ft)	
Mw-1					1118	—	—	8.90	11.12	
Mw-2					1427	—	—	7.91	11.18	
Mw-3					1049	—	—	6.92	11.95	
Mw-4					1043	—	—	6.91	8.30	
Mw-5					0947	—	—	7.56	10.15	
Mw-6					0923	—	—	8.25	8.62	
Mw-7					1316	—	—	9.57	9.60	
Mw-8					1355	—	—	7.91	10.20	
Mw-9					1147	—	—	8.35	16.22	
Mw-10					0831	—	—	8.61	15.08	
Mw-11					1423	—	—	8.91	11.87	
Mw-12					1312	—	—	9.42	11.65	well box loose
Mw-13					1452	—	—	8.76	12.95	
Mw-14					1247	—	—	9.92	12.97	
Mw-15					1221	—	—	6.42	10.09	
Mw-16					1020	—	—	7.16	15.17	
Mw-17					0943	—	—	7.53	15.12	
Mw-18					0914	—	—	8.52	14.72	
Mw-19					1323	—	—	9.36	15.06	

* Device used to measure LNAPL thickness: Bailer Oil/Water Interface Meter (circle one)
If bailer used, note bailer dimensions (inches): Entry Diameter _____ Chamber Diameter _____

Signature: _____

Revision: 8/19/11

GROUNDWATER SAMPLING DATA SHEET

Page 2 of 13

Project: BP 601 Project No.: 06-88-605 Date: 7/30/13

Field Representative: AMJAH

Well ID: MW-1 Start Time: 1115 End Time: 1140 Total Time (minutes): 25

PURGE EQUIPMENT	___ Disp. Bailer	___ 120V Pump	___ Flow Cell
___ Disp. Tubing	___ 12V Pump	___ Peristaltic Pump	Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.)

Comments: Belts missing

Good Improvement Needed (circle one)

PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: (circle one)

PREDETERMINED WELL VOLUME					LOW-FLOW	
Casing Diameter Unit Volume (gal/ft) (circle one)					Previous Low-Flow Purge Rate: _____ (lpm)	
1" (0.04)	1.25" (0.08)	2" (0.17)	3" (0.38)	Other:	Total Well Depth (a): <u>11.12</u> (ft)	
4" (0.66)	6" (1.50)	8" (2.60)	12" (5.81)	____" (____)	Initial Depth to Water (b): <u>890</u> (ft)	
Total Well Depth (a): _____ (ft)					Pump In-take Depth = b + (a-b)/2: <u>10.01</u> (ft)	
Initial Depth to Water (b): _____ (ft)					Maximum Allowable Drawdown = (a-b)/8: <u>0.27</u> (ft)	
Water Column Height (WCH) = (a - b): _____ (ft)					Low-Flow Purge Rate: <u>0.25</u> (Lpm)*	
Water Column Volume (WCV) = WCH x Unit Volume: _____ (gal)					Comments: _____	
Three Casing Volumes = WCV x 3: _____ (gal)					*Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.	
Five Casing Volumes = WCV x 5: _____ (gal)						
Pump Depth (if pump used): _____ (ft)						

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Vol. gal or L	Temperature °C	pH	Conductivity µS or mS	DO mg/L	ORP mV	Turbidity NTU	NOTES Odor, color, sheen or other
1120	0.0	26.57	7.02	0.711	3.81	-64	304	Moderate HC odor
1122	0.5	26.57	7.02	0.709	3.53	-101	304	
1124	1.0	26.51	7.02	0.708	3.37	-121	304	
1126	1.5	26.57	7.01	0.707	3.25	-137	305	
1128	2.0	26.59	7.01	0.707	3.18	-145	306.	
Previous Stabilized Parameters								

Previous Stabilized Parameters

PURGE COMPLETION RECORD ✓ Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes

Other:

SAMPLE COLLECTION RECORD		GEOCHEMICAL PARAMETERS		
Depth to Water at Sampling: <u>9.15</u> (ft)		Parameter	Time	Measurement
Sample Collected Via: <u> </u> Disp. Bailer <u> </u> Dedicated Pump Tubing		DO (mg/L)		
<u>✓</u> Disp. Pump Tubing Other: <u> </u>		Ferrous Iron (mg/L)		
Sample ID: <u>MW-1</u> Sample Collection Time: <u>1130</u> (24:00)		Redox Potential (mV)		
Containers (#): <u>6</u> VOA (<u>X</u> preserved or <u> </u> unpreserved) <u> </u> Liter Amber		Alkalinity (mg/L)		
<u>2</u> Other: <u>1 LNP Ambers</u> Other: <u> </u>		Other:		
<u> </u> Other: <u> </u> Other: <u> </u>		Other:		

Signature: _____

Revision: 3/15/2013

GROUNDWATER SAMPLING DATA SHEET

Page 3 of 13

Project: BP 601 Project No: 06-88-605 Date: 7/24/15

Field Representative: Am/AH Project No.: 00-00-000 Date: 1/1/13

Well ID: MW-2 Start Time: 1425 End Time: 1445 Total Time (minutes): 20

PURGE EQUIPMENT	___ Disp. Bailer	___ 120V Pump	<u>✓</u> Flow Cell
<u>✓</u> Disp. Tubing	___ 12V Pump	<u>✓</u> Peristaltic Pump	Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.)		Comments:
Good	Improvement Needed (circle one)	

PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: (circle one)

PREDETERMINED WELL VOLUME				
Casing Diameter	Unit Volume (gal/ft)	(circle one)		
1" (0.04)	1.25" (0.08)	2" (0.17)	3" (0.38)	Other: _____
4" (0.66)	6" (1.50)	8" (2.60)	12" (5.81)	_____" (____)
Total Well Depth (a): _____		_____ (ft)		
Initial Depth to Water (b): _____		_____ (ft)		
Water Column Height (WCH) = (a - b): _____		_____ (ft)		
Water Column Volume (WCV) = WCH x Unit Volume: _____		_____ (gal)		
Three Casing Volumes = WCV x 3: _____		_____ (gal)		
Five Casing Volumes = WCV x 5: _____		_____ (gal)		
Pump Depth (if pump used): _____		_____ (ft)		

LOW-FLOW	
Previous Low-Flow Purge Rate: _____	_____ (lpm)
Total Well Depth (a): _____	11.18 (ft)
Initial Depth to Water (b): _____	7.91 (ft)
Pump In-take Depth = b + (a-b)/2: _____	9.54 (ft)
Maximum Allowable Drawdown = (a-b)/8: _____	0.40 (ft)
Low-Flow Purge Rate: _____	0.25 (Lpm)*
Comments: _____	

*Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.

[illegible][illegible]

PURGE COMPLETION RECORD ☒ Low Flow & Parameters Stable ☐ 3 Casing Volumes & Parameters Stable ☐ 5 Casing Volumes

SAMPLE COLLECTION RECORD		GEOCHEMICAL PARAMETERS		
Depth to Water at Sampling: <u>8.03</u> (ft)		Parameter	Time	Measurement
Sample Collected Via: ☐ Disp. Bailer ☐ Dedicated Pump Tubing		DO (mg/L)		
☒ Disp. Pump Tubing Other: _____		Ferrous Iron (mg/L)		
Sample ID: <u>MM-2</u> Sample Collection Time: <u>1445</u> (24:00)		Redox Potential (mV)		
Containers (#): <u>6</u> VOA (☒ preserved or ☐ unpreserved) ☐ Liter Amber		Alkalinity (mg/L)		
☐ Other: _____		Other:		
☐ Other: _____		Other:		

Signature:

GROUNDWATER SAMPLING DATA SHEET

Page 4 of 13

Project: BP No. 601 Project No.: 06-88-605 Date: 7/30/13
Field Representative: AH & AM
Well ID: MW-3 Start Time: 1045 End Time: 1105 Total Time (minutes): 20

[illegible]

Signature: _____

Revision: 3/15/2013

GROUNDWATER SAMPLING DATA SHEET

Page 5 of 13

Project: BP 601 Project No.: 06-88-605 Date: 7/30/13

Field Representative: AM/AH

Well ID: Mw-8 Start Time: 1355 End Time: 1415 Total Time (minutes): 20

PURGE EQUIPMENT			
☐ Disp. Bailer	☐ 120V Pump	☒ Flow Cell	
☒ Disp. Tubing	☐ 12V Pump	☒ Peristaltic Pump	Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.)

Good	Improvement Needed	(circle one)
☒	☐	

Comments: _____

PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: (circle one)

PREDETERMINED WELL VOLUME				
Casing Diameter	Unit Volume (gal/ft)	(circle one)		
1" (0.04)	1.25" (0.08)	2" (0.17)	3" (0.38)	Other: _____
4" (0.66)	6" (1.50)	8" (2.60)	12" (5.81)	_____" (____)
Total Well Depth (a):	_____ (ft)			
Initial Depth to Water (b):	_____ (ft)			
Water Column Height (WCH) = (a - b):	_____ (ft)			
Water Column Volume (WCV) = WCH x Unit Volume:	_____ (gal)			
Three Casing Volumes = WCV x 3:	_____ (gal)			
Five Casing Volumes = WCV x 5:	_____ (gal)			
Pump Depth (if pump used):	_____ (ft)			

LOW-FLOW	
Previous Low-Flow Purge Rate:	_____ (lpm)
Total Well Depth (a):	<u>10.20</u> (ft)
Initial Depth to Water (b):	<u>7.91</u> (ft)
Pump In-take Depth = b + (a-b)/2:	<u>9.05</u> (ft)
Maximum Allowable Drawdown = (a-b)/8:	<u>0.28</u> (ft)
Low-Flow Purge Rate:	<u>0.25</u> (Lpm)*
Comments:	_____
<i>*Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown</i>	

GROUNDWATER STABILIZATION PARAMETER RECORD

Time (24:00)	Cumulative Vol. gal or L	Temperature °C	pH	Conductivity μS or mS	DO mg/L	ORP mV	Turbidity NTU	NOTES Odor, color, sheen or other
1401	0.0	26.37	7.71	0.375	5.01	91	310	
1402	0.5	27.97	7.35	0.372	4.43	109	308	
1405	1.0	27.51	7.23	0.373	4.21	114	307	
1407	1.5	27.22	7.19	0.374	4.02	116	308	
1409	2.0	27.14	7.16	0.373	3.82	116	307	
Previous Stabilized Parameters								

Previous Stabilized Parameters

PURGE COMPLETION RECORD ☒ Low Flow & Parameters Stable ☐ 3 Casing Volumes & Parameters Stable ☐ 5 Casing Volumes

Other:

SAMPLE COLLECTION RECORD		GEOCHEMICAL PARAMETERS		
Depth to Water at Sampling: <u>8.13</u> (ft)		Parameter	Time	Measurement
Sample Collected Via: ☐ Disp. Bailer ☐ Dedicated Pump Tubing		DO (mg/L)		
☒ Disp. Pump Tubing Other: _____		Ferrous Iron (mg/L)		
Sample ID: <u>MW-8</u> Sample Collection Time: <u>1910</u> (24:00)		Redox Potential (mV)		
Containers (#): <u>6</u> VOA (☒ preserved or ☐ unpreserved) ☐ Liter Amber		Alkalinity (mg/L)		
____ Other: _____		Other:		
____ Other: _____		Other:		

Signature: _____

Revision: 3/15/2013

GROUNDWATER SAMPLING DATA SHEET

Page 6 of 13

Project: BP 601 Project No.: 06-88-605 Date: 7/30/13
Field Representative: AM/AH
Well ID: MW-9 Start Time: 1145 End Time: 1215 Total Time (minutes): 30

PURGE EQUIPMENT	☐ Disp. Bailer	☐ 120V Pump	☒ Flow Cell
☒ Disp. Tubing	☐ 12V Pump	☒ Peristaltic Pump	Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments: _____

Good Improvement Needed (circle one)

PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: (circle one)

PREDETERMINED WELL VOLUME					LOW-FLOW	
Casing Diameter Unit Volume (gal/ft) (circle one)					Previous Low-Flow Purge Rate: _____ (lpm)	
1" (0.04)	1.25" (0.08)	2" (0.17)	3" (0.38)	Other: _____	Total Well Depth (a): <u>16.22</u> (ft)	
4" (0.66)	6" (1.50)	8" (2.60)	12" (5.81)	____" (____)	Initial Depth to Water (b): <u>8.35</u> (ft)	
Total Well Depth (a): _____ (ft)					Pump In-take Depth = b + (a-b)/2: <u>12.28</u> (ft)	
Initial Depth to Water (b): _____ (ft)					Maximum Allowable Drawdown = (a-b)/8: <u>0.98</u> (ft)	
Water Column Height (WCH) = (a - b): _____ (ft)					Low-Flow Purge Rate: <u>0.25</u> (Lpm)*	
Water Column Volume (WCV) = WCH x Unit Volume: _____ (gal)					Comments: _____	
Three Casing Volumes = WCV x 3: _____ (gal)					*Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown	
Five Casing Volumes = WCV x 5: _____ (gal)						
Pump Depth (if pump used): _____ (ft)						

[illegible]

PURGE COMPLETION RECORD ☒ Low Flow & Parameters Stable ☐ 3 Casing Volumes & Parameters Stable ☐ 5 Casing Volumes
☐ Other:

SAMPLE COLLECTION RECORD		GEOCHEMICAL PARAMETERS		
Depth to Water at Sampling: <u>9.11</u> (ft)		Parameter	Time	Measurement
Sample Collected Via: ☐ Disp. Bailer ☐ Dedicated Pump Tubing		DO (mg/L)		
☒ Disp. Pump Tubing Other:		Ferrous Iron (mg/L)		
Sample ID: <u>MW-a</u> Sample Collection Time: <u>1205</u> (24:00)		Redox Potential (mV)		
Containers (#): <u>6</u> VOA (☒ preserved or ☐ unpreserved) ☐ Liter Amber		Alkalinity (mg/L)		
<u>Other:</u>		Other:		
<u>Other:</u>		Other:		

Signature: _____

Revision: 3/15/2013

GROUNDWATER SAMPLING DATA SHEET

Page 7 of 13

Project: 06-88-605 / BP No. 601

Project No.: 06-88-605

Date: 7/30/13

Field Representative: AH & AM

Well ID: MW-10 Start Time: 0830 End Time: 0900 Total Time (minutes): 30

PURGE EQUIPMENT ☐ Disp. Bailer ☐ 120V Pump ☐ Flow Cell
☐ Disp. Tubing ☐ 12V Pump ☒ Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.)		Comments:
Good	Improvement Needed	(circle one)
☒	☐	

PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: (circle one)

PREDETERMINED WELL VOLUME				
Casing Diameter	Unit Volume (gal/ft)	(circle one)		
1" (0.04)	1.25" (0.08)	2" (0.17)	3" (0.38)	Other:
4" (0.66)	6" (1.50)	8" (2.60)	12" (5.81)	" ()
Total Well Depth (a):		15.08 (ft)		
Initial Depth to Water (b):		8.61 (ft)		
Water Column Height (WCH) = (a - b):		6.47 (ft)		
Water Column Volume (WCV) = WCH x Unit Volume:		(gal)		
Three Casing Volumes = WCV x 3:		(gal)		
Five Casing Volumes = WCV x 5:		(gal)		
Pump Depth (if pump used):		(ft)		



LOW-FLOW	
Previous Low-Flow Purge Rate:	(lpm)
Total Well Depth (a):	15.08 (ft)
Initial Depth to Water (b):	8.61 (ft)
Pump In-take Depth = b + (a-b)/2:	11.84 (ft)
Maximum Allowable Drawdown = (a-b)/8:	0.80 (ft)
Low-Flow Purge Rate:	0.25 (Lpm)
Comments:	
<i>*Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.</i>	

GROUNDWATER STABILIZATION PARAMETER RECORD

[illegible][illegible]

PURGE COMPLETION RECORD ☒ Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
___ Other:

SAMPLE COLLECTION RECORD	GEOCHEMICAL PARAMETERS
--------------------------	------------------------

Depth to Water at Sampling: <u>8.95</u> (ft)	Parameter	Time	Measurement
Sample Collected Via: ☐ Disp. Bailor ☐ Dedicated Pump Tubing	DO (mg/L)		
☒ Disp. Pump Tubing Other: _____	Ferrous Iron (mg/L)		
Sample ID: <u>MW-10</u> Sample Collection Time: <u>0900</u> (24:00)	Redox Potential (mV)		
Containers (#): <u>6</u> VOA (☒ preserved or ☐ unpreserved) ☐ Liter Amber	Alkalinity (mg/L)		
Other: _____ Other: _____	Other: _____		
Other: _____ Other: _____	Other: _____		

Signature: _____

Revision: 3/15/2013

GROUNDWATER SAMPLING DATA SHEET

Page 8 of 13

Project: BP 601 Project No.: 06-88-605 Date: 7/30/13

Field Representative: Am/At

Well ID: Mw-14 Start Time: 1250 End Time: 1308 Total Time (minutes): 18

PURGE EQUIPMENT ☐ Disp. Bailer ☐ 120V Pump ☒ Flow Cell
☒ Disp. Tubing ☐ 12V Pump ☒ Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.)

Comments:

Good Improvement Needed (circle one)

PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: (circle one)

PREDETERMINED WELL VOLUME					LOW-FLOW	
Casing Diameter Unit Volume (gal/ft) (circle one)					Previous Low-Flow Purge Rate: _____ (lpm)	
1" (0.04)	1.25" (0.08)	2" (0.17)	3" (0.38)	Other:	Total Well Depth (a): <u>12.97</u> (ft)	
4" (0.66)	6" (1.50)	8" (2.60)	12" (5.81)	____" (____)	Initial Depth to Water (b): <u>9.92</u> (ft)	
Total Well Depth (a): _____ (ft)					Pump In-take Depth = b + (a-b)/2: <u>11.84</u> (ft)	
Initial Depth to Water (b): _____ (ft)					Maximum Allowable Drawdown = (a-b)/8: <u>0.38</u> (ft)	
Water Column Height (WCH) = (a - b): _____ (ft)					Low-Flow Purge Rate: <u>0.25</u> (Lpm)*	
Water Column Volume (WCV) = WCH x Unit Volume: _____ (gal)					Comments: _____	
Three Casing Volumes = WCV x 3: _____ (gal)					*Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.	
Five Casing Volumes = WCV x 5: _____ (gal)						
Pump Depth (if pump used): _____ (ft)						

GROUNDWATER STABILIZATION PARAMETER RECORD

[illegible]

Previous Stabilized Parameters

PURGE COMPLETION RECORD ☒ Low Flow & Parameters Stable ☐ 3 Casing Volumes & Parameters Stable ☐ 5 Casing Volumes

Other:

SAMPLE COLLECTION RECORD		GEOCHEMICAL PARAMETERS		
Depth to Water at Sampling: <u>10.02</u> (ft)		Parameter	Time	Measurement
Sample Collected Via: ☐ Disp. Bailer ☐ Dedicated Pump Tubing		DO (mg/L)		
☒ Disp. Pump Tubing Other:		Ferrous Iron (mg/L)		
Sample ID: <u>MW-14</u> Sample Collection Time: <u>1305</u> (24:00)		Redox Potential (mV)		
Containers (#): <u>6</u> VOA (☒ preserved or ☐ unpreserved) ☐ Liter Amber		Alkalinity (mg/L)		
<u>Other:</u>		Other:		
<u>Other:</u>		Other:		

Signature: _____

Revision: 3/15/2013

GROUNDWATER SAMPLING DATA SHEET

Page 9 of 13

Project: BP 601 Project No.: 06-88-605 Date: 7/30/13

Field Representative: Am/AH

Well ID: MW-15 Start Time: 1220 End Time: 1240 Total Time (minutes): 20

PURGE EQUIPMENT			
☐ Disp. Bailer	☐ 120V Pump	☒ Flow Cell	
☒ Disp. Tubing	☐ 12V Pump	☒ Peristaltic Pump	Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.)

Comments:

Good Improvement Needed (circle one)

PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: (circle one)

PREDETERMINED WELL VOLUME				
Casing Diameter	Unit Volume (gal/ft) (circle one)			
1" (0.04)	1.25" (0.08)	2" (0.17)	3" (0.38)	Other: _____
4" (0.66)	6" (1.50)	8" (2.60)	12" (5.81)	____" (____)
Total Well Depth (a): _____		_____ (ft)		
Initial Depth to Water (b): _____		_____ (ft)		
Water Column Height (WCH) = (a - b): _____		_____ (ft)		
Water Column Volume (WCV) = WCH x Unit Volume: _____		_____ (gal)		
Three Casing Volumes = WCV x 3: _____		_____ (gal)		
Five Casing Volumes = WCV x 5: _____		_____ (gal)		
Pump Depth (if pump used): _____		_____ (ft)		

LOW-FLOW	
Previous Low-Flow Purge Rate:	_____ (lpm)
Total Well Depth (a):	<u>10.09</u> (ft)
Initial Depth to Water (b):	<u>6.42</u> (ft)
Pump In-take Depth = b + (a-b)/2:	<u>8.23</u> (ft)
Maximum Allowable Drawdown = (a-b)/8:	<u>0.45</u> (ft)
Low-Flow Purge Rate:	<u>0.25</u> (Lpm)
Comments: _____	

**Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.*

GROUNDWATER STABILIZATION PARAMETER RECORD

[illegible]

Previous Stabilized Parameters

PURGE COMPLETION RECORD ☒ Low Flow & Parameters Stable ☐ 3 Casing Volumes & Parameters Stable ☐ 5 Casing Volumes

Other:

SAMPLE COLLECTION RECORD		GEOCHEMICAL PARAMETERS		
Depth to Water at Sampling: <u>6.74</u> (ft)		Parameter	Time	Measurement
Sample Collected Via: <u> </u> Disp. Bailer <u> </u> Dedicated Pump Tubing		DO (mg/L)		
<u>X</u> Disp. Pump Tubing Other: <u> </u>		Ferrous Iron (mg/L)		
Sample ID: <u>MW-15</u> Sample Collection Time: <u>1240</u> (24:00)		Redox Potential (mV)		
Containers (#): <u>6</u> VOA (<u>X</u> preserved or <u> </u> unpreserved) <u> </u> Liter Amber		Alkalinity (mg/L)		
<u> </u> Other: <u> </u> <u> </u> Other: <u> </u>		Other:		
<u> </u> Other: <u> </u> <u> </u> Other: <u> </u>		Other:		

Signature: _____

Revision: 3/15/2013

GROUNDWATER SAMPLING DATA SHEET

Page 10 of 13

Project: Bf No. 601 Project No.: 06-88-605 Date: 7/30/12

Field Representative: AH & AM

Well ID: MW-16 Start Time: 1020 End Time: 1035 Total Time (minutes): 15

PURGE EQUIPMENT		___ Disp. Bailer	___ 120V Pump	<u>X</u> Flow Cell																																																							
<u>X</u> Disp. Tubing	___ 12V Pump	<u>X</u> Peristaltic Pump	Other/ID#:																																																								
WELL HEAD INTEGRITY (cap, lock, vault, etc.)		Comments:																																																									
<u>Good</u>	Improvement Needed	(circle one)																																																									
PURGING/SAMPLING METHOD		Predetermined Well Volume	<u>Low-Flow</u>	Other: (circle one)																																																							
<table border="1"> <thead> <tr> <th colspan="5">PREDETERMINED WELL VOLUME</th> </tr> <tr> <th>Casing Diameter</th> <th>Unit Volume (gal/ft)</th> <th colspan="3">(circle one)</th> </tr> </thead> <tbody> <tr> <td>1" (0.04)</td> <td>1.25" (0.08)</td> <td>2" (0.17)</td> <td>3" (0.38)</td> <td>Other:</td> </tr> <tr> <td>4" (0.66)</td> <td>6" (1.50)</td> <td>8" (2.60)</td> <td>12" (5.81)</td> <td>___" (___)</td> </tr> <tr> <td colspan="2">Total Well Depth (a):</td> <td colspan="3">_____ (ft)</td> </tr> <tr> <td colspan="2">Initial Depth to Water (b):</td> <td colspan="3">_____ (ft)</td> </tr> <tr> <td colspan="2">Water Column Height (WCH) = (a - b):</td> <td colspan="3">_____ (ft)</td> </tr> <tr> <td colspan="2">Water Column Volume (WCV) = WCH x Unit Volume:</td> <td colspan="3">_____ (gal)</td> </tr> <tr> <td colspan="2">Three Casing Volumes = WCV x 3:</td> <td colspan="3">_____ (gal)</td> </tr> <tr> <td colspan="2">Five Casing Volumes = WCV x 5:</td> <td colspan="3">_____ (gal)</td> </tr> <tr> <td colspan="2">Pump Depth (if pump used):</td> <td colspan="3">_____ (ft)</td> </tr> </tbody> </table>					PREDETERMINED WELL VOLUME					Casing Diameter	Unit Volume (gal/ft)	(circle one)			1" (0.04)	1.25" (0.08)	2" (0.17)	3" (0.38)	Other:	4" (0.66)	6" (1.50)	8" (2.60)	12" (5.81)	___" (___)	Total Well Depth (a):		_____ (ft)			Initial Depth to Water (b):		_____ (ft)			Water Column Height (WCH) = (a - b):		_____ (ft)			Water Column Volume (WCV) = WCH x Unit Volume:		_____ (gal)			Three Casing Volumes = WCV x 3:		_____ (gal)			Five Casing Volumes = WCV x 5:		_____ (gal)			Pump Depth (if pump used):		_____ (ft)		
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Total Well Depth (a):		_____ (ft)																																																									
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LOW-FLOW																																																											
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Initial Depth to Water (b):	<u>7.16</u> (ft)																																																										
Pump In-take Depth = b + (a-b)/2:	<u>11.16</u> (ft)																																																										
Maximum Allowable Drawdown = (a-b)/8:	<u>1.00</u> (ft)																																																										
Low-Flow Purge Rate:	<u>0.25</u> (Lpm)																																																										
Comments:																																																											
*Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.																																																											

GROUNDWATER STABILIZATION PARAMETER RECORD

[illegible]

Previous Stabilized Parameters

PURGE COMPLETION RECORD ☒ Low Flow & Parameters Stable ☐ 3 Casing Volumes & Parameters Stable ☐ 5 Casing Volumes

Other:

SAMPLE COLLECTION RECORD

GEOCHEMICAL PARAMETERS

Depth to Water at Sampling: <u>7.63</u> (ft)	Parameter	Time	Measurement
Sample Collected Via: ☐ Disp. Bailer ☐ Dedicated Pump Tubing	DO (mg/L)		
☒ Disp. Pump Tubing Other:	Ferrous Iron (mg/L)		
Sample ID: <u>MW-16</u> Sample Collection Time: <u>1035</u> (24:00)	Redox Potential (mV)	<u>AT</u>	
Containers (#): ☒ VOA (☒ preserved or ☐ unpreserved) ☐ Liter Amber	Alkalinity (mg/L)		
☐ Other: _____ ☐ Other: _____	Other:		
☐ Other: _____ ☐ Other: _____	Other:		

Signature: _____

Revision: 3/15/2013

GROUNDWATER SAMPLING DATA SHEET

Page 11 of 13

Project: BP No. 661 Project No.: 06-88-605 Date: 7/30/13

Field Representative: AM & AM

Well ID: MW-17 Start Time: 0943 End Time: 1000 Total Time (minutes):

PURGE EQUIPMENT		___ Disp. Bailer	___ 120V Pump	___ Flow Cell
___ Disp. Tubing		___ 12V Pump	<u>X</u> Peristaltic Pump	Other/ID#:
WELL HEAD INTEGRITY (cap, lock, vault, etc.)		Comments: <u>needs one bolt</u>		
☒ Good ☐ Improvement Needed (circle one)				
PURGING/SAMPLING METHOD		Predetermined Well Volume	<u>Low-Flow</u>	Other: (circle one)
PREDETERMINED WELL VOLUME				
Casing Diameter Unit Volume (gal/ft) (circle one)				
1" (0.04)	1.25" (0.08)	2" (0.17)	3" (0.38)	Other:
4" (0.66)	6" (1.50)	8" (2.60)	12" (5.81)	___" (___)
Total Well Depth (a):		_____ (ft)		
Initial Depth to Water (b):		_____ (ft)		
Water Column Height (WCH) = (a - b):		_____ (ft)		
Water Column Volume (WCV) = WCH x Unit Volume:		_____ (gal)		
Three Casing Volumes = WCV x 3:		_____ (gal)		
Five Casing Volumes = WCV x 5:		_____ (gal)		
Pump Depth (if pump used):		_____ (ft)		
LOW-FLOW				
Previous Low-Flow Purge Rate:		_____ (lpm)		
Total Well Depth (a):		<u>15.12</u> (ft)		
Initial Depth to Water (b):		<u>7.53</u> (ft)		
Pump In-take Depth = b + (a-b)/2:		<u>11.33</u> (ft)		
Maximum Allowable Drawdown = (a-b)/8:		<u>0.49</u> (ft)		
Low-Flow Purge Rate:		<u>0.25</u> (Lpm)*		
Comments: _____				
*Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.				

GROUNDWATER STABILIZATION PARAMETER RECORD

[illegible]

Previous Stabilized Parameters

PURGE COMPLETION RECORD

☒ Low Flow & Parameters Stable ☐ 3 Casing Volumes & Parameters Stable ☐ 5 Casing Volumes
Other:

SAMPLE COLLECTION RECORD

Depth to Water at Sampling: 7.96 (ft)

Sample Collected Via: ☐ Disp. Bailer ☐ Dedicated Pump Tubing

X Disp. Pump Tubing Other:

Sample ID: MW-17 Sample Collection Time: 1000 (24:00)

Containers (#): 4 VOA (4 preserved or _____ unpreserved) _____ Liter Amber

Other: _____ Other: _____

Other: _____

GEOCHEMICAL PARAMETERS

Depth to Water at Sampling: <u>7.96</u> (ft)	Parameter	Time	Measurement
Sample Collected Via: ☐ Disp. Bailer ☐ Dedicated Pump Tubing	DO (mg/L)		
☒ Disp. Pump Tubing Other:	Ferrous Iron (mg/L)		
Sample ID: <u>MW-17</u> Sample Collection Time: <u>1000</u> (24:00)	Redox Potential (mV)	<u>all</u>	
Containers (#): ☒ VOA (☒ preserved or ☐ unpreserved) ☐ Liter Amber	Alkalinity (mg/L)		
☐ Other: _____ ☐ Other: _____	Other:		
☐ Other: _____ ☐ Other: _____	Other:		

Signature: _____

Revision: 3/15/2013

GROUNDWATER SAMPLING DATA SHEET

Page 12 of 13

Project: BP No. 601 Project No.: 06-88-605 Date: 7/30/13
Field Representative: AH ~~SM~~
Well ID: MW-18 Start Time: 0915 End Time: 0935 Total Time (minutes): 20

PURGE EQUIPMENT		___ Disp. Bailor	___ 120V Pump	<u>X</u> Flow Cell
<u>X</u> Disp. Tubing		___ 12V Pump	<u>X</u> Peristaltic Pump	Other/ID#:
WELL HEAD INTEGRITY (cap, lock, vault, etc.)		Comments: <u>Missing one bolt</u>		
Good		<u>Improvement Needed</u> (circle one)		
PURGING/SAMPLING METHOD		Predetermined Well Volume	<u>Low-Flow</u>	Other: (circle one)
PREDETERMINED WELL VOLUME				
Casing Diameter Unit Volume (gal/ft) (circle one)				
1" (0.04)	1.25" (0.08)	2" (0.17)	3" (0.38)	Other: _____
4" (0.66)	6" (1.50)	8" (2.60)	12" (5.81)	___" (___)
Total Well Depth (a): _____		_____ (ft)		
Initial Depth to Water (b): _____		_____ (ft)		
Water Column Height (WCH) = (a - b): _____		_____ (ft)		
Water Column Volume (WCV) = WCH x Unit Volume: _____		_____ (gal)		
Three Casing Volumes = WCV x 3: _____		_____ (gal)		
Five Casing Volumes = WCV x 5: _____		_____ (gal)		
Pump Depth (if pump used): _____		_____ (ft)		
		LOW-FLOW		
		Previous Low-Flow Purge Rate: _____ (lpm)		
		Total Well Depth (a): <u>14.72</u> (ft)		
		Initial Depth to Water (b): <u>8.52</u> (ft)		
		Pump In-take Depth = b + (a-b)/2: <u>11.62</u> (ft)		
Maximum Allowable Drawdown = (a-b)/8: <u>0.775</u> (ft)				
Low-Flow Purge Rate: <u>0.25</u> (lpm)*				
Comments: _____				
*Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.				

GROUNDWATER STABILIZATION PARAMETER RECORD

[illegible]

Previous Stabilized Parameters

PURGE COMPLETION RECORD ☒ Low Flow & Parameters Stable ___ 3 Casing Volumes & Parameters Stable ___ 5 Casing Volumes
 ___ Other:

SAMPLE COLLECTION RECORD		GEOCHEMICAL PARAMETERS		
Depth to Water at Sampling: <u>8.89</u> (ft)		Parameter	Time	Measurement
Sample Collected Via: ☐ Disp. Bailer ☐ Dedicated Pump Tubing		DO (mg/L)		
☒ Disp. Pump Tubing Other: _____		Ferrous Iron (mg/L)		
Sample ID: <u>MW-18</u>	Sample Collection Time: <u>0930</u> (24:00)	Redox Potential (mV)	<u>AH</u>	
Containers (#): ☒ VOA (☒ preserved or ☐ unpreserved) ☐ Liter Amber		Alkalinity (mg/L)		
Other: _____ Other: _____		Other:		
Other: _____ Other: _____		Other:		

Signature: _____

Revision: 3/15/2013

GROUNDWATER SAMPLING DATA SHEET

Page 13 of 13

Project: BP 601 Project No.: 06-88-605 Date: 7/30/13

Field Representative: AM/AH

Well ID: MW-19 Start Time: 1320 End Time: Total Time (minutes):

PURGE EQUIPMENT ☐ Disp. Bailer ☐ 120V Pump ☒ Flow Cell
☒ Disp. Tubing ☐ 12V Pump ☒ Peristaltic Pump Other/ID#:

WELL HEAD INTEGRITY (cap, lock, vault, etc.) Comments: _____

Good Improvement Needed (circle one)

PURGING/SAMPLING METHOD Predetermined Well Volume Low-Flow Other: (circle one)

PREDETERMINED WELL VOLUME				
Casing Diameter Unit Volume (gal/ft) <i>(circle one)</i>				
1" (0.04)	1.25" (0.08)	2" (0.17)	3" (0.38)	Other: _____
4" (0.66)	6" (1.50)	8" (2.60)	12" (5.81)	____" (____)
Total Well Depth (a): _____ (ft)				
Initial Depth to Water (b): _____ (ft)				
Water Column Height (WCH) = (a - b): _____ (ft)				
Water Column Volume (WCV) = WCH x Unit Volume: _____ (gal)				
Three Casing Volumes = WCV x 3: _____ (gal)				
Five Casing Volumes = WCV x 5: _____ (gal)				
Pump Depth (if pump used): _____ (ft)				

LOW-FLOW	
Previous Low-Flow Purge Rate:	_____ (lpm)
Total Well Depth (a):	<u>15.06</u> (ft)
Initial Depth to Water (b):	<u>9.36</u> (ft)
Pump In-take Depth = b + (a-b)/2:	<u>12.21</u> (ft)
Maximum Allowable Drawdown = (a-b)/8:	<u>0.71</u> (ft)
Low-Flow Purge Rate:	<u>0.25</u> (Lpm)*
Comments: _____	
<i>*Low-flow purge rate should be within range of instruments used but should not exceed 0.25 gpm. Drawdown should not exceed Maximum Allowable Drawdown.</i>	

[illegible]

PURGE COMPLETION RECORD ☒ Low Flow & Parameters Stable ☐ 3 Casing Volumes & Parameters Stable ☐ 5 Casing Volumes
☐ Other:

SAMPLE COLLECTION RECORD		GEOCHEMICAL PARAMETERS		
Depth to Water at Sampling: <u>9.50</u> (ft)		Parameter	Time	Measurement
Sample Collected Via: <u>Disp. Bailer</u> <u> </u> Dedicated Pump Tubing		DO (mg/L)		
<u> </u> Disp. Pump Tubing Other: <u> </u>		Ferrous Iron (mg/L)		
Sample ID: <u>MW-19</u> Sample Collection Time: <u>1340</u> (24:00)		Redox Potential (mV)		
Containers (#): <u>6</u> VOA (<u>X</u> preserved or <u> </u> unpreserved) <u> </u> Liter Amber		Alkalinity (mg/L)		
<u> </u> Other: <u> </u> <u> </u> Other: <u> </u>		Other:		
<u> </u> Other: <u> </u> <u> </u> Other: <u> </u>		Other:		

Signature: 

Revision: 3/15/2013

APPENDIX C

LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Irvine

17461 Derian Ave

Suite 100

Irvine, CA 92614-5817

Tel: (949)261-1022

TestAmerica Job ID: 440-53287-1

Client Project/Site: ARCO 0601, San Leandro

For:

Broadbent & Associates, Inc.

875 Cotting Lane

Suite G

Vacaville, California 95688

Attn: Kristene Tidwell

Authorized for release by:

8/15/2013 5:01:40 PM

Kathleen Robb, Project Manager II

kathleen.robbs@testamericainc.com

The test results in this report meet all 2003 NELAP and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

1

2

3

4

5

6

7

8

9

10

11

12

13

Table of Contents

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Client Sample Results	5
Method Summary	19
Chronicle	20
QC Sample Results	23
QC Association	33
Definitions	35
Certification Summary	36
Chain of Custody	37
Receipt Checklists	38



Sample Summary

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-53287-1	MW-1	Water	07/30/13 11:30	08/01/13 09:40
440-53287-2	MW-2	Water	07/30/13 14:45	08/01/13 09:40
440-53287-3	MW-3	Water	07/30/13 11:05	08/01/13 09:40
440-53287-4	MW-8	Water	07/30/13 14:10	08/01/13 09:40
440-53287-5	MW-9	Water	07/30/13 12:05	08/01/13 09:40
440-53287-6	MW-10	Water	07/30/13 09:00	08/01/13 09:40
440-53287-7	MW-14	Water	07/30/13 13:05	08/01/13 09:40
440-53287-8	MW-15	Water	07/30/13 12:40	08/01/13 09:40
440-53287-9	MW-16	Water	07/30/13 10:35	08/01/13 09:40
440-53287-10	MW-17	Water	07/30/13 10:00	08/01/13 09:40
440-53287-11	MW-18	Water	07/30/13 09:30	08/01/13 09:40
440-53287-12	MW-19	Water	07/30/13 13:40	08/01/13 09:40

Case Narrative

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Job ID: 440-53287-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-53287-1

Comments

No additional comments.

Receipt

The samples were received on 8/1/2013 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

GC/MS VOA

No analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 625, 8270C LL: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 122526 recovered outside control limits for the following analytes: bis(2-ethylhexyl)phthalate and 3,3'-dichlorobenzidine. The individual percent recoveries of the LCS/LCSD met acceptance limits.

Method(s) 8270C LL: The following sample(s) required a dilution due to the nature of the sample matrix: MW-1 (440-53287-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C LL: The following sample(s) was diluted due to the abundance of non-target analytes: MW-1 (440-53287-1). Elevated reporting limits (RLs) are provided.

Method(s) 625, 8270C LL: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 122526. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No other analytical or quality issues were noted.

GC VOA

Method(s) 8015B: Surrogate recovery was outside control limits for the following sample: (440-53287-2 MS), (440-53287-2 MSD), (CCV 440-123183/25), (CCVRT 440-123183/1). BFB surrogate coeluted with TPH standard. Data not impacted.

Method(s) 8015B: Surrogate recovery was outside control limits for the following sample: (CCV 440-123183/48). The BFB surrogate coeluted with the TPH standard. Data not impacted.

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: MW-18 (440-53287-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8015B: Surrogate recovery was outside control limits for the following sample: (CCV 440-123359/12), (CCVRT 440-123359/1), (LCS 440-123359/2). The BFB surrogate coeluted with the TPH standard. Data not impacted.

Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: (440-53287-10 MS), (440-53287-10 MSD), MW-17 (440-53287-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Client Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-1

Lab Sample ID: 440-53287-1

Date Collected: 07/30/13 11:30

Matrix: Water

Date Received: 08/01/13 09:40

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			08/09/13 10:52	1
1,2-Dichloroethane	ND		0.50	ug/L			08/09/13 10:52	1
Benzene	24		0.50	ug/L			08/09/13 10:52	1
Ethanol	ND		150	ug/L			08/09/13 10:52	1
Ethylbenzene	14		0.50	ug/L			08/09/13 10:52	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	ug/L			08/09/13 10:52	1
Isopropyl Ether (DIPE)	ND		0.50	ug/L			08/09/13 10:52	1
m,p-Xylene	2.1		1.0	ug/L			08/09/13 10:52	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	ug/L			08/09/13 10:52	1
o-Xylene	0.50		0.50	ug/L			08/09/13 10:52	1
Tert-amyl-methyl ether (TAME)	ND		0.50	ug/L			08/09/13 10:52	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/09/13 10:52	1
Toluene	1.8		0.50	ug/L			08/09/13 10:52	1
Xylenes, Total	2.6		1.0	ug/L			08/09/13 10:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		80 - 120		08/09/13 10:52	1
Dibromofluoromethane (Surr)	102		80 - 120		08/09/13 10:52	1
Toluene-d8 (Surr)	107		80 - 120		08/09/13 10:52	1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		25	ug/L		08/06/13 12:52	08/11/13 20:06	25
1,2-Dichlorobenzene	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
1,2-Diphenylhydrazine(as Azobenzene)	ND		25	ug/L		08/06/13 12:52	08/11/13 20:06	25
1,3-Dichlorobenzene	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
1,4-Dichlorobenzene	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
2,4,5-Trichlorophenol	ND		49	ug/L		08/06/13 12:52	08/11/13 20:06	25
2,4,6-Trichlorophenol	ND		25	ug/L		08/06/13 12:52	08/11/13 20:06	25
2,4-Dichlorophenol	ND		49	ug/L		08/06/13 12:52	08/11/13 20:06	25
2,4-Dimethylphenol	ND		49	ug/L		08/06/13 12:52	08/11/13 20:06	25
2,4-Dinitrophenol	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25
2,4-Dinitrotoluene	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25
2,6-Dinitrotoluene	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25
2-Chloronaphthalene	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
2-Chlorophenol	ND		25	ug/L		08/06/13 12:52	08/11/13 20:06	25
2-Methylnaphthalene	130		25	ug/L		08/06/13 12:52	08/11/13 20:06	25
2-Methylphenol	ND		49	ug/L		08/06/13 12:52	08/11/13 20:06	25
2-Nitroaniline	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25
2-Nitrophenol	ND		49	ug/L		08/06/13 12:52	08/11/13 20:06	25
3,3'-Dichlorobenzidine	ND	BA	120	ug/L		08/06/13 12:52	08/11/13 20:06	25
3-Nitroaniline	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25
4,6-Dinitro-2-methylphenol	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25
4-Bromophenyl phenyl ether	ND		25	ug/L		08/06/13 12:52	08/11/13 20:06	25
4-Chloro-3-methylphenol	ND		49	ug/L		08/06/13 12:52	08/11/13 20:06	25
4-Chloroaniline	ND		49	ug/L		08/06/13 12:52	08/11/13 20:06	25
4-Chlorophenyl phenyl ether	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
3-Methylphenol + 4-Methylphenol	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25
4-Nitroaniline	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25

TestAmerica Irvine

Client Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-1

Lab Sample ID: 440-53287-1

Date Collected: 07/30/13 11:30

Matrix: Water

Date Received: 08/01/13 09:40

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25
Acenaphthene	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
Acenaphthylene	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
Aniline	ND		250	ug/L		08/06/13 12:52	08/11/13 20:06	25
Anthracene	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
Benzidine	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25
Benzo[a]anthracene	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25
Benzo[a]pyrene	ND		49	ug/L		08/06/13 12:52	08/11/13 20:06	25
Benzo[b]fluoranthene	ND		49	ug/L		08/06/13 12:52	08/11/13 20:06	25
Benzo[g,h,i]perylene	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25
Benzo[k]fluoranthene	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
Benzoic acid	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25
Benzyl alcohol	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25
Bis(2-chloroethoxy)methane	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
Bis(2-chloroethyl)ether	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
Bis(2-ethylhexyl) phthalate	ND	BA	120	ug/L		08/06/13 12:52	08/11/13 20:06	25
Butyl benzyl phthalate	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25
Chrysene	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
Dibenz(a,h)anthracene	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
Dibenzofuran	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
Diethyl phthalate	ND		25	ug/L		08/06/13 12:52	08/11/13 20:06	25
Dimethyl phthalate	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
Fluoranthene	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
Fluorene	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
Hexachlorobenzene	ND		25	ug/L		08/06/13 12:52	08/11/13 20:06	25
Hexachlorobutadiene	ND		49	ug/L		08/06/13 12:52	08/11/13 20:06	25
Hexachlorocyclopentadiene	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25
Hexachloroethane	ND		74	ug/L		08/06/13 12:52	08/11/13 20:06	25
Indeno[1,2,3-cd]pyrene	ND		49	ug/L		08/06/13 12:52	08/11/13 20:06	25
Isophorone	ND		25	ug/L		08/06/13 12:52	08/11/13 20:06	25
Naphthalene	ND		25	ug/L		08/06/13 12:52	08/11/13 20:06	25
Nitrobenzene	ND		25	ug/L		08/06/13 12:52	08/11/13 20:06	25
N-Nitrosodimethylamine	ND		49	ug/L		08/06/13 12:52	08/11/13 20:06	25
N-Nitrosodi-n-propylamine	ND		49	ug/L		08/06/13 12:52	08/11/13 20:06	25
N-Nitrosodiphenylamine	ND		25	ug/L		08/06/13 12:52	08/11/13 20:06	25
Pentachlorophenol	ND		49	ug/L		08/06/13 12:52	08/11/13 20:06	25
Phenanthrene	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
Phenol	ND		25	ug/L		08/06/13 12:52	08/11/13 20:06	25
bis (2-chloroisopropyl) ether	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
Di-n-butyl phthalate	ND		49	ug/L		08/06/13 12:52	08/11/13 20:06	25
Di-n-octyl phthalate	ND		120	ug/L		08/06/13 12:52	08/11/13 20:06	25
Pyrene	ND		12	ug/L		08/06/13 12:52	08/11/13 20:06	25
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		40 - 120			08/06/13 12:52	08/11/13 20:06	25
2-Fluorobiphenyl	62		50 - 120			08/06/13 12:52	08/11/13 20:06	25
2-Fluorophenol (Surr)	56		30 - 120			08/06/13 12:52	08/11/13 20:06	25
Nitrobenzene-d5 (Surr)	58		45 - 120			08/06/13 12:52	08/11/13 20:06	25
Phenol-d6 (Surr)	56		35 - 120			08/06/13 12:52	08/11/13 20:06	25
Terphenyl-d14 (Surr)	71		50 - 125			08/06/13 12:52	08/11/13 20:06	25

TestAmerica Irvine

Client Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-1

Lab Sample ID: 440-53287-1

Date Collected: 07/30/13 11:30

Matrix: Water

Date Received: 08/01/13 09:40

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	3700		2500	ug/L			08/08/13 03:07	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		65 - 140		08/08/13 03:07	50

Client Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-2

Lab Sample ID: 440-53287-2

Date Collected: 07/30/13 14:45

Matrix: Water

Date Received: 08/01/13 09:40

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			08/09/13 12:13	1
1,2-Dichloroethane	ND		0.50	ug/L			08/09/13 12:13	1
Benzene	ND		0.50	ug/L			08/09/13 12:13	1
Ethanol	ND		150	ug/L			08/09/13 12:13	1
Ethylbenzene	ND		0.50	ug/L			08/09/13 12:13	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	ug/L			08/09/13 12:13	1
Isopropyl Ether (DIPE)	ND		0.50	ug/L			08/09/13 12:13	1
m,p-Xylene	ND		1.0	ug/L			08/09/13 12:13	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	ug/L			08/09/13 12:13	1
o-Xylene	ND		0.50	ug/L			08/09/13 12:13	1
Tert-amyl-methyl ether (TAME)	ND		0.50	ug/L			08/09/13 12:13	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/09/13 12:13	1
Toluene	ND		0.50	ug/L			08/09/13 12:13	1
Xylenes, Total	ND		1.0	ug/L			08/09/13 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		08/09/13 12:13	1
Dibromofluoromethane (Surr)	107		80 - 120		08/09/13 12:13	1
Toluene-d8 (Surr)	104		80 - 120		08/09/13 12:13	1

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50	ug/L			08/08/13 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		65 - 140		08/08/13 01:50	1

TestAmerica Irvine

Client Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-3

Lab Sample ID: 440-53287-3

Date Collected: 07/30/13 11:05

Matrix: Water

Date Received: 08/01/13 09:40

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		5.0	ug/L			08/09/13 12:40	10
1,2-Dichloroethane	ND		5.0	ug/L			08/09/13 12:40	10
Benzene	9.0		5.0	ug/L			08/09/13 12:40	10
Ethanol	ND		1500	ug/L			08/09/13 12:40	10
Ethylbenzene	520		5.0	ug/L			08/09/13 12:40	10
Ethyl-t-butyl ether (ETBE)	ND		5.0	ug/L			08/09/13 12:40	10
Isopropyl Ether (DIPE)	ND		5.0	ug/L			08/09/13 12:40	10
m,p-Xylene	44		10	ug/L			08/09/13 12:40	10
Methyl-t-Butyl Ether (MTBE)	ND		5.0	ug/L			08/09/13 12:40	10
o-Xylene	13		5.0	ug/L			08/09/13 12:40	10
Tert-amyl-methyl ether (TAME)	ND		5.0	ug/L			08/09/13 12:40	10
tert-Butyl alcohol (TBA)	ND		100	ug/L			08/09/13 12:40	10
Toluene	ND		5.0	ug/L			08/09/13 12:40	10
Xylenes, Total	57		10	ug/L			08/09/13 12:40	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		08/09/13 12:40	10
Dibromofluoromethane (Surr)	101		80 - 120		08/09/13 12:40	10
Toluene-d8 (Surr)	105		80 - 120		08/09/13 12:40	10

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	7700		2500	ug/L			08/08/13 03:32	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138		65 - 140		08/08/13 03:32	50

Client Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-8

Lab Sample ID: 440-53287-4

Date Collected: 07/30/13 14:10

Matrix: Water

Date Received: 08/01/13 09:40

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			08/09/13 13:07	1
1,2-Dichloroethane	ND		0.50	ug/L			08/09/13 13:07	1
Benzene	ND		0.50	ug/L			08/09/13 13:07	1
Ethanol	ND		150	ug/L			08/09/13 13:07	1
Ethylbenzene	ND		0.50	ug/L			08/09/13 13:07	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	ug/L			08/09/13 13:07	1
Isopropyl Ether (DIPE)	ND		0.50	ug/L			08/09/13 13:07	1
m,p-Xylene	ND		1.0	ug/L			08/09/13 13:07	1
Methyl-t-Butyl Ether (MTBE)	0.75		0.50	ug/L			08/09/13 13:07	1
o-Xylene	ND		0.50	ug/L			08/09/13 13:07	1
Tert-amyl-methyl ether (TAME)	ND		0.50	ug/L			08/09/13 13:07	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/09/13 13:07	1
Toluene	ND		0.50	ug/L			08/09/13 13:07	1
Xylenes, Total	ND		1.0	ug/L			08/09/13 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		08/09/13 13:07	1
Dibromofluoromethane (Surr)	102		80 - 120		08/09/13 13:07	1
Toluene-d8 (Surr)	104		80 - 120		08/09/13 13:07	1

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50	ug/L			08/08/13 03:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		65 - 140		08/08/13 03:57	1

Client Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-9

Lab Sample ID: 440-53287-5

Date Collected: 07/30/13 12:05

Matrix: Water

Date Received: 08/01/13 09:40

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			08/09/13 13:34	1
1,2-Dichloroethane	ND		0.50	ug/L			08/09/13 13:34	1
Benzene	ND		0.50	ug/L			08/09/13 13:34	1
Ethanol	ND		150	ug/L			08/09/13 13:34	1
Ethylbenzene	ND		0.50	ug/L			08/09/13 13:34	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	ug/L			08/09/13 13:34	1
Isopropyl Ether (DIPE)	ND		0.50	ug/L			08/09/13 13:34	1
m,p-Xylene	ND		1.0	ug/L			08/09/13 13:34	1
Methyl-t-Butyl Ether (MTBE)	1.3		0.50	ug/L			08/09/13 13:34	1
o-Xylene	ND		0.50	ug/L			08/09/13 13:34	1
Tert-amyl-methyl ether (TAME)	ND		0.50	ug/L			08/09/13 13:34	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/09/13 13:34	1
Toluene	ND		0.50	ug/L			08/09/13 13:34	1
Xylenes, Total	ND		1.0	ug/L			08/09/13 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120		08/09/13 13:34	1
Dibromofluoromethane (Surr)	102		80 - 120		08/09/13 13:34	1
Toluene-d8 (Surr)	105		80 - 120		08/09/13 13:34	1

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50	ug/L			08/08/13 04:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		65 - 140		08/08/13 04:23	1

Client Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-10

Lab Sample ID: 440-53287-6

Date Collected: 07/30/13 09:00

Matrix: Water

Date Received: 08/01/13 09:40

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			08/09/13 14:01	1
1,2-Dichloroethane	ND		0.50	ug/L			08/09/13 14:01	1
Benzene	ND		0.50	ug/L			08/09/13 14:01	1
Ethanol	ND		150	ug/L			08/09/13 14:01	1
Ethylbenzene	ND		0.50	ug/L			08/09/13 14:01	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	ug/L			08/09/13 14:01	1
Isopropyl Ether (DIPE)	ND		0.50	ug/L			08/09/13 14:01	1
m,p-Xylene	ND		1.0	ug/L			08/09/13 14:01	1
Methyl-t-Butyl Ether (MTBE)	1.3		0.50	ug/L			08/09/13 14:01	1
o-Xylene	ND		0.50	ug/L			08/09/13 14:01	1
Tert-amyl-methyl ether (TAME)	ND		0.50	ug/L			08/09/13 14:01	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/09/13 14:01	1
Toluene	ND		0.50	ug/L			08/09/13 14:01	1
Xylenes, Total	ND		1.0	ug/L			08/09/13 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		08/09/13 14:01	1
Dibromofluoromethane (Surr)	108		80 - 120		08/09/13 14:01	1
Toluene-d8 (Surr)	105		80 - 120		08/09/13 14:01	1

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50	ug/L			08/08/13 04:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		65 - 140		08/08/13 04:48	1

Client Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-14

Lab Sample ID: 440-53287-7

Date Collected: 07/30/13 13:05

Matrix: Water

Date Received: 08/01/13 09:40

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			08/09/13 14:28	1
1,2-Dichloroethane	ND		0.50	ug/L			08/09/13 14:28	1
Benzene	ND		0.50	ug/L			08/09/13 14:28	1
Ethanol	ND		150	ug/L			08/09/13 14:28	1
Ethylbenzene	ND		0.50	ug/L			08/09/13 14:28	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	ug/L			08/09/13 14:28	1
Isopropyl Ether (DIPE)	ND		0.50	ug/L			08/09/13 14:28	1
m,p-Xylene	ND		1.0	ug/L			08/09/13 14:28	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	ug/L			08/09/13 14:28	1
o-Xylene	ND		0.50	ug/L			08/09/13 14:28	1
Tert-amyl-methyl ether (TAME)	ND		0.50	ug/L			08/09/13 14:28	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/09/13 14:28	1
Toluene	ND		0.50	ug/L			08/09/13 14:28	1
Xylenes, Total	ND		1.0	ug/L			08/09/13 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		08/09/13 14:28	1
Dibromofluoromethane (Surr)	105		80 - 120		08/09/13 14:28	1
Toluene-d8 (Surr)	105		80 - 120		08/09/13 14:28	1

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50	ug/L			08/08/13 05:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		65 - 140		08/08/13 05:14	1

Client Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-15

Lab Sample ID: 440-53287-8

Date Collected: 07/30/13 12:40

Matrix: Water

Date Received: 08/01/13 09:40

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			08/09/13 14:55	1
1,2-Dichloroethane	ND		0.50	ug/L			08/09/13 14:55	1
Benzene	ND		0.50	ug/L			08/09/13 14:55	1
Ethanol	ND		150	ug/L			08/09/13 14:55	1
Ethylbenzene	ND		0.50	ug/L			08/09/13 14:55	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	ug/L			08/09/13 14:55	1
Isopropyl Ether (DIPE)	ND		0.50	ug/L			08/09/13 14:55	1
m,p-Xylene	ND		1.0	ug/L			08/09/13 14:55	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	ug/L			08/09/13 14:55	1
o-Xylene	ND		0.50	ug/L			08/09/13 14:55	1
Tert-amyl-methyl ether (TAME)	ND		0.50	ug/L			08/09/13 14:55	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/09/13 14:55	1
Toluene	ND		0.50	ug/L			08/09/13 14:55	1
Xylenes, Total	ND		1.0	ug/L			08/09/13 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		08/09/13 14:55	1
Dibromofluoromethane (Surr)	108		80 - 120		08/09/13 14:55	1
Toluene-d8 (Surr)	104		80 - 120		08/09/13 14:55	1

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50	ug/L			08/08/13 05:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		65 - 140		08/08/13 05:39	1

Client Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-16

Lab Sample ID: 440-53287-9

Date Collected: 07/30/13 10:35

Matrix: Water

Date Received: 08/01/13 09:40

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			08/09/13 15:22	1
1,2-Dichloroethane	ND		0.50	ug/L			08/09/13 15:22	1
Benzene	20		0.50	ug/L			08/09/13 15:22	1
Ethanol	ND		150	ug/L			08/09/13 15:22	1
Ethylbenzene	13		0.50	ug/L			08/09/13 15:22	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	ug/L			08/09/13 15:22	1
Isopropyl Ether (DIPE)	ND		0.50	ug/L			08/09/13 15:22	1
m,p-Xylene	130		1.0	ug/L			08/09/13 15:22	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	ug/L			08/09/13 15:22	1
o-Xylene	12		0.50	ug/L			08/09/13 15:22	1
Tert-amyl-methyl ether (TAME)	ND		0.50	ug/L			08/09/13 15:22	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/09/13 15:22	1
Toluene	7.3		0.50	ug/L			08/09/13 15:22	1
Xylenes, Total	140		1.0	ug/L			08/09/13 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120		08/09/13 15:22	1
Dibromofluoromethane (Surr)	109		80 - 120		08/09/13 15:22	1
Toluene-d8 (Surr)	105		80 - 120		08/09/13 15:22	1

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	2900		2500	ug/L			08/09/13 03:00	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		65 - 140		08/09/13 03:00	50

Client Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-17

Lab Sample ID: 440-53287-10

Date Collected: 07/30/13 10:00

Matrix: Water

Date Received: 08/01/13 09:40

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			08/09/13 15:49	1
1,2-Dichloroethane	ND		0.50	ug/L			08/09/13 15:49	1
Benzene	46		0.50	ug/L			08/09/13 15:49	1
Ethanol	ND		150	ug/L			08/09/13 15:49	1
Ethylbenzene	5.5		0.50	ug/L			08/09/13 15:49	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	ug/L			08/09/13 15:49	1
Isopropyl Ether (DIPE)	ND		0.50	ug/L			08/09/13 15:49	1
m,p-Xylene	4.4		1.0	ug/L			08/09/13 15:49	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	ug/L			08/09/13 15:49	1
o-Xylene	0.53		0.50	ug/L			08/09/13 15:49	1
Tert-amyl-methyl ether (TAME)	ND		0.50	ug/L			08/09/13 15:49	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/09/13 15:49	1
Toluene	2.4		0.50	ug/L			08/09/13 15:49	1
Xylenes, Total	4.9		1.0	ug/L			08/09/13 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		08/09/13 15:49	1
Dibromofluoromethane (Surr)	104		80 - 120		08/09/13 15:49	1
Toluene-d8 (Surr)	105		80 - 120		08/09/13 15:49	1

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	1600		250	ug/L			08/09/13 11:25	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	286	LH	65 - 140		08/09/13 11:25	5

Client Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-18

Lab Sample ID: 440-53287-11

Date Collected: 07/30/13 09:30

Matrix: Water

Date Received: 08/01/13 09:40

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			08/09/13 16:16	1
1,2-Dichloroethane	ND		0.50	ug/L			08/09/13 16:16	1
Benzene	ND		0.50	ug/L			08/09/13 16:16	1
Ethanol	ND		150	ug/L			08/09/13 16:16	1
Ethylbenzene	ND		0.50	ug/L			08/09/13 16:16	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	ug/L			08/09/13 16:16	1
Isopropyl Ether (DIPE)	ND		0.50	ug/L			08/09/13 16:16	1
m,p-Xylene	ND		1.0	ug/L			08/09/13 16:16	1
Methyl-t-Butyl Ether (MTBE)	1.2		0.50	ug/L			08/09/13 16:16	1
o-Xylene	ND		0.50	ug/L			08/09/13 16:16	1
Tert-amyl-methyl ether (TAME)	1.1		0.50	ug/L			08/09/13 16:16	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/09/13 16:16	1
Toluene	ND		0.50	ug/L			08/09/13 16:16	1
Xylenes, Total	ND		1.0	ug/L			08/09/13 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120		08/09/13 16:16	1
Dibromofluoromethane (Surr)	107		80 - 120		08/09/13 16:16	1
Toluene-d8 (Surr)	106		80 - 120		08/09/13 16:16	1

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	200		50	ug/L			08/09/13 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	165	LH	65 - 140		08/09/13 04:53	1

Client Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-19

Lab Sample ID: 440-53287-12

Date Collected: 07/30/13 13:40

Matrix: Water

Date Received: 08/01/13 09:40

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			08/09/13 16:43	1
1,2-Dichloroethane	ND		0.50	ug/L			08/09/13 16:43	1
Benzene	ND		0.50	ug/L			08/09/13 16:43	1
Ethanol	ND		150	ug/L			08/09/13 16:43	1
Ethylbenzene	ND		0.50	ug/L			08/09/13 16:43	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	ug/L			08/09/13 16:43	1
Isopropyl Ether (DIPE)	ND		0.50	ug/L			08/09/13 16:43	1
m,p-Xylene	ND		1.0	ug/L			08/09/13 16:43	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	ug/L			08/09/13 16:43	1
o-Xylene	ND		0.50	ug/L			08/09/13 16:43	1
Tert-amyl-methyl ether (TAME)	ND		0.50	ug/L			08/09/13 16:43	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/09/13 16:43	1
Toluene	ND		0.50	ug/L			08/09/13 16:43	1
Xylenes, Total	ND		1.0	ug/L			08/09/13 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120		08/09/13 16:43	1
Dibromofluoromethane (Surr)	112		80 - 120		08/09/13 16:43	1
Toluene-d8 (Surr)	104		80 - 120		08/09/13 16:43	1

Method: 8015B/5030B - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50	ug/L			08/09/13 05:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		65 - 140		08/09/13 05:21	1

Method Summary

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Method	Method Description	Protocol	Laboratory
8260B/5030B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C LL	Semivolatile Organic Compounds by GCMS - Low Levels	SW846	TAL IRV
8015B/5030B	Gasoline Range Organics (GC)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-1

Date Collected: 07/30/13 11:30

Date Received: 08/01/13 09:40

Lab Sample ID: 440-53287-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	123291	08/09/13 10:52	AL	TAL IRV
Total/NA	Prep	3520C			1015 mL	2 mL	122526	08/06/13 12:52	HN	TAL IRV
Total/NA	Analysis	8270C LL		25			123685	08/11/13 20:06	DF	TAL IRV
Total/NA	Analysis	8015B/5030B		50	10 mL	10 mL	123183	08/08/13 03:07	PH	TAL IRV

Client Sample ID: MW-2

Date Collected: 07/30/13 14:45

Date Received: 08/01/13 09:40

Lab Sample ID: 440-53287-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	123291	08/09/13 12:13	AL	TAL IRV
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	123183	08/08/13 01:50	PH	TAL IRV

Client Sample ID: MW-3

Date Collected: 07/30/13 11:05

Date Received: 08/01/13 09:40

Lab Sample ID: 440-53287-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		10	10 mL	10 mL	123291	08/09/13 12:40	AL	TAL IRV
Total/NA	Analysis	8015B/5030B		50	10 mL	10 mL	123183	08/08/13 03:32	PH	TAL IRV

Client Sample ID: MW-8

Date Collected: 07/30/13 14:10

Date Received: 08/01/13 09:40

Lab Sample ID: 440-53287-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	123291	08/09/13 13:07	AL	TAL IRV
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	123183	08/08/13 03:57	PH	TAL IRV

Client Sample ID: MW-9

Date Collected: 07/30/13 12:05

Date Received: 08/01/13 09:40

Lab Sample ID: 440-53287-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	123291	08/09/13 13:34	AL	TAL IRV
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	123183	08/08/13 04:23	PH	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-10

Date Collected: 07/30/13 09:00

Date Received: 08/01/13 09:40

Lab Sample ID: 440-53287-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	123291	08/09/13 14:01	AL	TAL IRV
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	123183	08/08/13 04:48	PH	TAL IRV

Client Sample ID: MW-14

Date Collected: 07/30/13 13:05

Date Received: 08/01/13 09:40

Lab Sample ID: 440-53287-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	123291	08/09/13 14:28	AL	TAL IRV
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	123183	08/08/13 05:14	PH	TAL IRV

Client Sample ID: MW-15

Date Collected: 07/30/13 12:40

Date Received: 08/01/13 09:40

Lab Sample ID: 440-53287-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	123291	08/09/13 14:55	AL	TAL IRV
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	123183	08/08/13 05:39	PH	TAL IRV

Client Sample ID: MW-16

Date Collected: 07/30/13 10:35

Date Received: 08/01/13 09:40

Lab Sample ID: 440-53287-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	123291	08/09/13 15:22	AL	TAL IRV
Total/NA	Analysis	8015B/5030B		50	10 mL	10 mL	123262	08/09/13 03:00	PH	TAL IRV

Client Sample ID: MW-17

Date Collected: 07/30/13 10:00

Date Received: 08/01/13 09:40

Lab Sample ID: 440-53287-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	123291	08/09/13 15:49	AL	TAL IRV
Total/NA	Analysis	8015B/5030B		5	10 mL	10 mL	123359	08/09/13 11:25	IM	TAL IRV

Client Sample ID: MW-18

Date Collected: 07/30/13 09:30

Date Received: 08/01/13 09:40

Lab Sample ID: 440-53287-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	123291	08/09/13 16:16	AL	TAL IRV

TestAmerica Irvine

Lab Chronicle

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Client Sample ID: MW-18

Date Collected: 07/30/13 09:30

Date Received: 08/01/13 09:40

Lab Sample ID: 440-53287-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	123262	08/09/13 04:53	PH	TAL IRV

Client Sample ID: MW-19

Date Collected: 07/30/13 13:40

Date Received: 08/01/13 09:40

Lab Sample ID: 440-53287-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/5030B		1	10 mL	10 mL	123291	08/09/13 16:43	AL	TAL IRV
Total/NA	Analysis	8015B/5030B		1	10 mL	10 mL	123262	08/09/13 05:21	PH	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-123291/4

Matrix: Water

Analysis Batch: 123291

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		0.50	ug/L			08/09/13 09:39	1
1,2-Dichloroethane	ND		0.50	ug/L			08/09/13 09:39	1
Benzene	ND		0.50	ug/L			08/09/13 09:39	1
Ethanol	ND		150	ug/L			08/09/13 09:39	1
Ethylbenzene	ND		0.50	ug/L			08/09/13 09:39	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	ug/L			08/09/13 09:39	1
Isopropyl Ether (DIPE)	ND		0.50	ug/L			08/09/13 09:39	1
m,p-Xylene	ND		1.0	ug/L			08/09/13 09:39	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	ug/L			08/09/13 09:39	1
o-Xylene	ND		0.50	ug/L			08/09/13 09:39	1
Tert-amyl-methyl ether (TAME)	ND		0.50	ug/L			08/09/13 09:39	1
tert-Butyl alcohol (TBA)	ND		10	ug/L			08/09/13 09:39	1
Toluene	ND		0.50	ug/L			08/09/13 09:39	1
Xylenes, Total	ND		1.0	ug/L			08/09/13 09:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120		08/09/13 09:39	1
Dibromofluoromethane (Surr)	110		80 - 120		08/09/13 09:39	1
Toluene-d8 (Surr)	108		80 - 120		08/09/13 09:39	1

Lab Sample ID: LCS 440-123291/5

Matrix: Water

Analysis Batch: 123291

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	25.0	25.3		ug/L		101	70 - 130
1,2-Dichloroethane	25.0	25.3		ug/L		101	57 - 138
Benzene	25.0	20.7		ug/L		83	68 - 130
Ethanol	250	259		ug/L		104	50 - 149
Ethylbenzene	25.0	21.6		ug/L		87	70 - 130
Ethyl-t-butyl ether (ETBE)	25.0	20.8		ug/L		83	60 - 136
Isopropyl Ether (DIPE)	25.0	20.0		ug/L		80	58 - 139
m,p-Xylene	50.0	44.0		ug/L		88	70 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	22.3		ug/L		89	63 - 131
o-Xylene	25.0	23.0		ug/L		92	70 - 130
Tert-amyl-methyl ether (TAME)	25.0	20.7		ug/L		83	57 - 139
tert-Butyl alcohol (TBA)	125	119		ug/L		95	70 - 130
Toluene	25.0	22.0		ug/L		88	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	111		80 - 120
Toluene-d8 (Surr)	105		80 - 120

TestAmerica Irvine

QC Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Method: 8260B/5030B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-53287-1 MS

Matrix: Water

Analysis Batch: 123291

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane (EDB)	ND		25.0	26.6		ug/L		106	70 - 131
1,2-Dichloroethane	ND		25.0	23.9		ug/L		95	56 - 146
Benzene	24		25.0	40.6		ug/L		68	66 - 130
Ethanol	ND		250	249		ug/L		100	54 - 150
Ethylbenzene	14		25.0	35.9		ug/L		86	70 - 130
Ethyl-t-butyl ether (ETBE)	ND		25.0	20.7		ug/L		83	70 - 130
Isopropyl Ether (DIPE)	ND		25.0	20.1		ug/L		80	64 - 138
m,p-Xylene	2.1		50.0	48.9		ug/L		94	70 - 133
Methyl-t-Butyl Ether (MTBE)	ND		25.0	22.6		ug/L		90	70 - 130
o-Xylene	0.50		25.0	25.2		ug/L		99	70 - 133
Tert-amyl-methyl ether (TAME)	ND		25.0	21.2		ug/L		85	68 - 133
tert-Butyl alcohol (TBA)	ND		125	124		ug/L		99	70 - 130
Toluene	1.8		25.0	23.3		ug/L		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
Toluene-d8 (Surr)	107		80 - 120

Lab Sample ID: 440-53287-1 MSD

Matrix: Water

Analysis Batch: 123291

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	ND		25.0	25.6		ug/L		103	70 - 131	4	25
1,2-Dichloroethane	ND		25.0	24.3		ug/L		97	56 - 146	2	20
Benzene	24		25.0	41.3		ug/L		71	66 - 130	2	20
Ethanol	ND		250	236		ug/L		94	54 - 150	5	30
Ethylbenzene	14		25.0	34.2		ug/L		79	70 - 130	5	20
Ethyl-t-butyl ether (ETBE)	ND		25.0	20.7		ug/L		83	70 - 130	0	25
Isopropyl Ether (DIPE)	ND		25.0	20.2		ug/L		81	64 - 138	0	25
m,p-Xylene	2.1		50.0	47.3		ug/L		90	70 - 133	3	25
Methyl-t-Butyl Ether (MTBE)	ND		25.0	22.3		ug/L		89	70 - 130	1	25
o-Xylene	0.50		25.0	24.0		ug/L		94	70 - 133	5	20
Tert-amyl-methyl ether (TAME)	ND		25.0	21.5		ug/L		86	68 - 133	2	30
tert-Butyl alcohol (TBA)	ND		125	131		ug/L		105	70 - 130	6	25
Toluene	1.8		25.0	24.6		ug/L		91	70 - 130	5	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	109		80 - 120

TestAmerica Irvine

QC Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Lab Sample ID: MB 440-122526/1-A

Matrix: Water

Analysis Batch: 123685

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 122526

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
1,2-Dichlorobenzene	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
1,2-Diphenylhydrazine(as Azobenzene)	ND		1.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
1,3-Dichlorobenzene	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
1,4-Dichlorobenzene	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
2,4,5-Trichlorophenol	ND		2.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
2,4,6-Trichlorophenol	ND		1.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
2,4-Dichlorophenol	ND		2.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
2,4-Dimethylphenol	ND		2.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
2,4-Dinitrophenol	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
2,4-Dinitrotoluene	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
2,6-Dinitrotoluene	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
2-Chloronaphthalene	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
2-Chlorophenol	ND		1.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
2-Methylnaphthalene	ND		1.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
2-Methylphenol	ND		2.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
2-Nitroaniline	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
2-Nitrophenol	ND		2.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
3,3'-Dichlorobenzidine	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
3-Nitroaniline	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
4,6-Dinitro-2-methylphenol	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
4-Bromophenyl phenyl ether	ND		1.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
4-Chloro-3-methylphenol	ND		2.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
4-Chloroaniline	ND		2.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
4-Chlorophenyl phenyl ether	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
3-Methylphenol + 4-Methylphenol	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
4-Nitroaniline	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
4-Nitrophenol	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Acenaphthene	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
Acenaphthylene	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
Aniline	ND		10	ug/L		08/06/13 12:52	08/11/13 17:52	1
Anthracene	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
Benzidine	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Benzo[a]anthracene	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Benzo[a]pyrene	ND		2.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Benzo[b]fluoranthene	ND		2.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Benzo[g,h,i]perylene	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Benzo[k]fluoranthene	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
Benzoic acid	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Benzyl alcohol	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Bis(2-chloroethoxy)methane	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
Bis(2-chloroethyl)ether	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
Bis(2-ethylhexyl) phthalate	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Butyl benzyl phthalate	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Chrysene	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
Dibenz(a,h)anthracene	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
Dibenzofuran	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1

TestAmerica Irvine

QC Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: MB 440-122526/1-A

Matrix: Water

Analysis Batch: 123685

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 122526

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		1.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Dimethyl phthalate	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
Fluoranthene	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
Fluorene	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
Hexachlorobenzene	ND		1.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Hexachlorobutadiene	ND		2.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Hexachlorocyclopentadiene	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Hexachloroethane	ND		3.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Indeno[1,2,3-cd]pyrene	ND		2.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Isophorone	ND		1.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Naphthalene	ND		1.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Nitrobenzene	ND		1.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
N-Nitrosodimethylamine	ND		2.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
N-Nitrosodi-n-propylamine	ND		2.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
N-Nitrosodiphenylamine	ND		1.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Pentachlorophenol	ND		2.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Phenanthrene	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
Phenol	ND		1.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
bis (2-chloroisopropyl) ether	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1
Di-n-butyl phthalate	ND		2.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Di-n-octyl phthalate	ND		5.0	ug/L		08/06/13 12:52	08/11/13 17:52	1
Pyrene	ND		0.50	ug/L		08/06/13 12:52	08/11/13 17:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		40 - 120	08/06/13 12:52	08/11/13 17:52	1
2-Fluorobiphenyl	78		50 - 120	08/06/13 12:52	08/11/13 17:52	1
2-Fluorophenol (Surr)	70		30 - 120	08/06/13 12:52	08/11/13 17:52	1
Nitrobenzene-d5 (Surr)	70		45 - 120	08/06/13 12:52	08/11/13 17:52	1
Phenol-d6 (Surr)	69		35 - 120	08/06/13 12:52	08/11/13 17:52	1
Terphenyl-d14 (Surr)	101		50 - 125	08/06/13 12:52	08/11/13 17:52	1

Lab Sample ID: LCS 440-122526/2-A

Matrix: Water

Analysis Batch: 123685

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 122526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	10.0	6.05		ug/L		61	44 - 120
1,2-Dichlorobenzene	10.0	6.02		ug/L		60	43 - 120
1,2-Diphenylhydrazine(as Azobenzene)	10.0	8.27		ug/L		83	59 - 124
1,3-Dichlorobenzene	10.0	5.71		ug/L		57	41 - 120
1,4-Dichlorobenzene	10.0	5.65		ug/L		56	41 - 120
2,4,5-Trichlorophenol	10.0	8.18		ug/L		82	20 - 138
2,4,6-Trichlorophenol	10.0	7.89		ug/L		79	20 - 139
2,4-Dichlorophenol	10.0	7.39		ug/L		74	21 - 132
2,4-Dimethylphenol	10.0	7.20		ug/L		72	51 - 120
2,4-Dinitrophenol	10.0	7.29		ug/L		73	20 - 134
2,4-Dinitrotoluene	10.0	8.41		ug/L		84	65 - 120

TestAmerica Irvine

QC Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 440-122526/2-A

Matrix: Water

Analysis Batch: 123685

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 122526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,6-Dinitrotoluene	10.0	8.20		ug/L		82	65 - 120
2-Chloronaphthalene	10.0	7.55		ug/L		75	54 - 120
2-Chlorophenol	10.0	6.89		ug/L		69	20 - 122
2-Methylnaphthalene	10.0	7.29		ug/L		73	55 - 120
2-Methylphenol	10.0	7.43		ug/L		74	47 - 120
2-Nitroaniline	10.0	8.16		ug/L		82	60 - 135
2-Nitrophenol	10.0	7.19		ug/L		72	21 - 132
3,3'-Dichlorobenzidine	10.0	6.39		ug/L		64	25 - 135
3-Nitroaniline	10.0	7.66		ug/L		77	63 - 123
4,6-Dinitro-2-methylphenol	10.0	6.96		ug/L		70	22 - 147
4-Bromophenyl phenyl ether	10.0	8.44		ug/L		84	58 - 120
4-Chloro-3-methylphenol	10.0	7.63		ug/L		76	46 - 123
4-Chloroaniline	10.0	7.64		ug/L		76	52 - 120
4-Chlorophenyl phenyl ether	10.0	8.02		ug/L		80	50 - 122
3-Methylphenol + 4-Methylphenol	10.0	7.60		ug/L		76	50 - 120
4-Nitroaniline	10.0	8.38		ug/L		84	60 - 126
4-Nitrophenol	10.0	7.52		ug/L		75	20 - 151
Acenaphthene	10.0	7.55		ug/L		76	57 - 120
Acenaphthylene	10.0	7.81		ug/L		78	60 - 120
Aniline	10.0	ND		ug/L		80	53 - 120
Anthracene	10.0	8.35		ug/L		83	62 - 120
Benzidine	10.0	ND		ug/L		20	20 - 168
Benzo[a]anthracene	10.0	8.43		ug/L		84	62 - 120
Benzo[a]pyrene	10.0	7.38		ug/L		74	66 - 130
Benzo[b]fluoranthene	10.0	7.97		ug/L		80	46 - 125
Benzo[g,h,i]perylene	10.0	8.65		ug/L		87	52 - 136
Benzo[k]fluoranthene	10.0	7.49		ug/L		75	61 - 127
Benzoic acid	10.0	6.33		ug/L		63	20 - 120
Benzyl alcohol	10.0	8.23		ug/L		82	50 - 120
Bis(2-chloroethoxy)methane	10.0	7.87		ug/L		79	57 - 120
Bis(2-chloroethyl)ether	10.0	7.05		ug/L		70	54 - 120
Bis(2-ethylhexyl) phthalate	10.0	10.9		ug/L		109	61 - 126
Butyl benzyl phthalate	10.0	8.03		ug/L		80	57 - 129
Chrysene	10.0	8.14		ug/L		81	63 - 120
Dibenz(a,h)anthracene	10.0	8.55		ug/L		85	56 - 124
Dibenzofuran	10.0	8.06		ug/L		81	60 - 120
Diethyl phthalate	10.0	8.27		ug/L		83	44 - 131
Dimethyl phthalate	10.0	8.75		ug/L		88	33 - 140
Fluoranthene	10.0	8.29		ug/L		83	64 - 120
Fluorene	10.0	8.40		ug/L		84	52 - 120
Hexachlorobenzene	10.0	8.11		ug/L		81	61 - 120
Hexachlorobutadiene	10.0	5.28		ug/L		53	34 - 120
Hexachlorocyclopentadiene	10.0	ND		ug/L		34	23 - 120
Hexachloroethane	10.0	5.08		ug/L		51	34 - 120
Indeno[1,2,3-cd]pyrene	10.0	8.30		ug/L		83	59 - 128
Isophorone	10.0	7.89		ug/L		79	50 - 120
Naphthalene	10.0	7.10		ug/L		71	52 - 120
Nitrobenzene	10.0	7.33		ug/L		73	52 - 120

TestAmerica Irvine

QC Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCS 440-122526/2-A

Matrix: Water

Analysis Batch: 123685

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 122526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	10.0	7.35		ug/L		73	20 - 143
N-Nitrosodi-n-propylamine	10.0	8.06		ug/L		81	60 - 120
N-Nitrosodiphenylamine	10.0	7.97		ug/L		80	58 - 120
Pentachlorophenol	10.0	6.51		ug/L		65	20 - 137
Phenanthrene	10.0	8.20		ug/L		82	62 - 120
Phenol	10.0	6.62		ug/L		66	20 - 120
bis (2-chloroisopropyl) ether	10.0	7.62		ug/L		76	45 - 120
Di-n-butyl phthalate	10.0	8.47		ug/L		85	60 - 126
Di-n-octyl phthalate	10.0	8.61		ug/L		86	63 - 130
Pyrene	10.0	8.20		ug/L		82	54 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		40 - 120
2-Fluorobiphenyl	75		50 - 120
2-Fluorophenol (Surr)	70		30 - 120
Nitrobenzene-d5 (Surr)	73		45 - 120
Phenol-d6 (Surr)	74		35 - 120
Terphenyl-d14 (Surr)	84		50 - 125

Lab Sample ID: LCSD 440-122526/3-A

Matrix: Water

Analysis Batch: 123685

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 122526

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	10.0	5.45		ug/L		54	44 - 120	10	20
1,2-Dichlorobenzene	10.0	5.20		ug/L		52	43 - 120	15	25
1,2-Diphenylhydrazine(as Azobenzene)	10.0	8.10		ug/L		81	59 - 124	2	25
1,3-Dichlorobenzene	10.0	5.03		ug/L		50	41 - 120	13	25
1,4-Dichlorobenzene	10.0	5.00		ug/L		50	41 - 120	12	25
2,4,5-Trichlorophenol	10.0	6.99		ug/L		70	20 - 138	16	30
2,4,6-Trichlorophenol	10.0	6.83		ug/L		68	20 - 139	14	30
2,4-Dichlorophenol	10.0	6.50		ug/L		65	21 - 132	13	20
2,4-Dimethylphenol	10.0	6.47		ug/L		65	51 - 120	11	25
2,4-Dinitrophenol	10.0	6.21		ug/L		62	20 - 134	16	25
2,4-Dinitrotoluene	10.0	7.17		ug/L		72	65 - 120	16	20
2,6-Dinitrotoluene	10.0	7.03		ug/L		70	65 - 120	15	20
2-Chloronaphthalene	10.0	6.65		ug/L		67	54 - 120	13	20
2-Chlorophenol	10.0	6.21		ug/L		62	20 - 122	10	25
2-Methylnaphthalene	10.0	6.27		ug/L		63	55 - 120	15	20
2-Methylphenol	10.0	6.23		ug/L		62	47 - 120	17	20
2-Nitroaniline	10.0	6.79		ug/L		68	60 - 135	18	20
2-Nitrophenol	10.0	6.06		ug/L		61	21 - 132	17	25
3,3'-Dichlorobenzidine	10.0	ND	BA	ug/L		49	25 - 135	26	25
3-Nitroaniline	10.0	6.57		ug/L		66	63 - 123	15	25
4,6-Dinitro-2-methylphenol	10.0	6.15		ug/L		62	22 - 147	12	25
4-Bromophenyl phenyl ether	10.0	7.53		ug/L		75	58 - 120	11	25
4-Chloro-3-methylphenol	10.0	6.65		ug/L		66	46 - 123	14	25

TestAmerica Irvine

QC Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 440-122526/3-A

Matrix: Water

Analysis Batch: 123685

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 122526

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chloroaniline	10.0	7.10		ug/L		71	52 - 120	7	25
4-Chlorophenyl phenyl ether	10.0	6.81		ug/L		68	50 - 122	16	20
3-Methylphenol + 4-Methylphenol	10.0	6.59		ug/L		66	50 - 120	14	20
4-Nitroaniline	10.0	6.94		ug/L		69	60 - 126	19	20
4-Nitrophenol	10.0	6.77		ug/L		68	20 - 151	10	30
Acenaphthene	10.0	6.77		ug/L		68	57 - 120	11	20
Acenaphthylene	10.0	6.92		ug/L		69	60 - 120	12	20
Aniline	10.0	ND		ug/L		79	53 - 120	1	30
Anthracene	10.0	7.44		ug/L		74	62 - 120	11	20
Benzidine	10.0	ND		ug/L		22	20 - 168	8	35
Benzo[a]anthracene	10.0	7.31		ug/L		73	62 - 120	14	20
Benzo[a]pyrene	10.0	6.76		ug/L		68	66 - 130	9	25
Benzo[b]fluoranthene	10.0	8.34		ug/L		83	46 - 125	4	25
Benzo[g,h,i]perylene	10.0	8.85		ug/L		89	52 - 136	2	25
Benzo[k]fluoranthene	10.0	6.91		ug/L		69	61 - 127	8	20
Benzoic acid	10.0	5.57		ug/L		56	20 - 120	13	30
Benzyl alcohol	10.0	7.27		ug/L		73	50 - 120	12	20
Bis(2-chloroethoxy)methane	10.0	6.91		ug/L		69	57 - 120	13	20
Bis(2-chloroethyl)ether	10.0	6.42		ug/L		64	54 - 120	9	20
Bis(2-ethylhexyl) phthalate	10.0	7.50	BA	ug/L		75	61 - 126	37	20
Butyl benzyl phthalate	10.0	7.24		ug/L		72	57 - 129	10	20
Chrysene	10.0	7.68		ug/L		77	63 - 120	6	20
Dibenz(a,h)anthracene	10.0	7.96		ug/L		80	56 - 124	7	25
Dibenzofuran	10.0	7.11		ug/L		71	60 - 120	13	20
Diethyl phthalate	10.0	7.41		ug/L		74	44 - 131	11	30
Dimethyl phthalate	10.0	7.39		ug/L		74	33 - 140	17	30
Fluoranthene	10.0	7.41		ug/L		74	64 - 120	11	20
Fluorene	10.0	7.29		ug/L		73	52 - 120	14	20
Hexachlorobenzene	10.0	6.82		ug/L		68	61 - 120	17	20
Hexachlorobutadiene	10.0	4.61		ug/L		46	34 - 120	14	25
Hexachlorocyclopentadiene	10.0	ND		ug/L		30	23 - 120	10	30
Hexachloroethane	10.0	4.69		ug/L		47	34 - 120	8	25
Indeno[1,2,3-cd]pyrene	10.0	7.43		ug/L		74	59 - 128	11	25
Isophorone	10.0	7.02		ug/L		70	50 - 120	12	20
Naphthalene	10.0	6.37		ug/L		64	52 - 120	11	20
Nitrobenzene	10.0	6.62		ug/L		66	52 - 120	10	25
N-Nitrosodimethylamine	10.0	6.61		ug/L		66	20 - 143	11	20
N-Nitrosodi-n-propylamine	10.0	6.98		ug/L		70	60 - 120	14	20
N-Nitrosodiphenylamine	10.0	7.17		ug/L		72	58 - 120	11	20
Pentachlorophenol	10.0	5.49		ug/L		55	20 - 137	17	25
Phenanthrene	10.0	7.38		ug/L		74	62 - 120	10	20
Phenol	10.0	6.07		ug/L		61	20 - 120	9	25
bis (2-chloroisopropyl) ether	10.0	6.73		ug/L		67	45 - 120	12	20
Di-n-butyl phthalate	10.0	7.58		ug/L		76	60 - 126	11	20
Di-n-octyl phthalate	10.0	7.35		ug/L		73	63 - 130	16	20
Pyrene	10.0	7.37		ug/L		74	54 - 120	11	25

TestAmerica Irvine

QC Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels (Continued)

Lab Sample ID: LCSD 440-122526/3-A

Matrix: Water

Analysis Batch: 123685

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 122526

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	75		40 - 120
2-Fluorobiphenyl	65		50 - 120
2-Fluorophenol (Surr)	62		30 - 120
Nitrobenzene-d5 (Surr)	65		45 - 120
Phenol-d6 (Surr)	64		35 - 120
Terphenyl-d14 (Surr)	75		50 - 125

Method: 8015B/5030B - Gasoline Range Organics (GC)

Lab Sample ID: MB 440-123183/27

Matrix: Water

Analysis Batch: 123183

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50	ug/L			08/08/13 01:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		65 - 140				08/08/13 01:25	1

Lab Sample ID: LCS 440-123183/26

Matrix: Water

Analysis Batch: 123183

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
GRO (C4-C12)	800	648		ug/L		81	80 - 120
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	136		65 - 140				

Lab Sample ID: 440-53287-2 MS

Matrix: Water

Analysis Batch: 123183

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
GRO (C4-C12)	ND		800	616		ug/L		73	65 - 140
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	151	LH	65 - 140						

Lab Sample ID: 440-53287-2 MSD

Matrix: Water

Analysis Batch: 123183

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD
GRO (C4-C12)	ND		800	611		ug/L		72	65 - 140	1
										20

TestAmerica Irvine

QC Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Method: 8015B/5030B - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: 440-53287-2 MSD

Matrix: Water

Analysis Batch: 123183

Client Sample ID: MW-2

Prep Type: Total/NA

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	150	LH	65 - 140

Lab Sample ID: MB 440-123262/6

Matrix: Water

Analysis Batch: 123262

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50	ug/L			08/08/13 22:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		65 - 140				08/08/13 22:47	1

Lab Sample ID: LCS 440-123262/5

Matrix: Water

Analysis Batch: 123262

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
GRO (C4-C12)	Added	Result	Qualifier	ug/L		86	Limits
	800	690					80 - 120
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	89		65 - 140				

Lab Sample ID: 440-53020-C-6 MS

Matrix: Water

Analysis Batch: 123262

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
GRO (C4-C12)	Result	Qualifier	Added	Result	Qualifier	ug/L		78	Limits
	ND		800	626					65 - 140
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	105		65 - 140						

Lab Sample ID: 440-53020-C-6 MSD

Matrix: Water

Analysis Batch: 123262

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
GRO (C4-C12)	Result	Qualifier	Added	Result	Qualifier	ug/L		79	Limits	RPD	Limit
	ND		800	633					65 - 140	1	20
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	105		65 - 140								

TestAmerica Irvine

QC Sample Results

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Method: 8015B/5030B - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: MB 440-123359/3

Matrix: Water

Analysis Batch: 123359

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		50	ug/L			08/09/13 10:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		65 - 140				08/09/13 10:09	1

Lab Sample ID: LCS 440-123359/2

Matrix: Water

Analysis Batch: 123359

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	800	684		ug/L		85	80 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	148	LH	65 - 140				

Lab Sample ID: 440-53287-10 MS

Matrix: Water

Analysis Batch: 123359

Client Sample ID: MW-17

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	1800		4000	5020		ug/L		81	65 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	304	LH	65 - 140						

Lab Sample ID: 440-53287-10 MSD

Matrix: Water

Analysis Batch: 123359

Client Sample ID: MW-17

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	1800		4000	4990		ug/L		80	65 - 140	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	303	LH	65 - 140								

TestAmerica Irvine

QC Association Summary

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

GC/MS VOA

Analysis Batch: 123291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-53287-1	MW-1	Total/NA	Water	8260B/5030B	
440-53287-1 MS	MW-1	Total/NA	Water	8260B/5030B	
440-53287-1 MSD	MW-1	Total/NA	Water	8260B/5030B	
440-53287-2	MW-2	Total/NA	Water	8260B/5030B	
440-53287-3	MW-3	Total/NA	Water	8260B/5030B	
440-53287-4	MW-8	Total/NA	Water	8260B/5030B	
440-53287-5	MW-9	Total/NA	Water	8260B/5030B	
440-53287-6	MW-10	Total/NA	Water	8260B/5030B	
440-53287-7	MW-14	Total/NA	Water	8260B/5030B	
440-53287-8	MW-15	Total/NA	Water	8260B/5030B	
440-53287-9	MW-16	Total/NA	Water	8260B/5030B	
440-53287-10	MW-17	Total/NA	Water	8260B/5030B	
440-53287-11	MW-18	Total/NA	Water	8260B/5030B	
440-53287-12	MW-19	Total/NA	Water	8260B/5030B	
LCS 440-123291/5	Lab Control Sample	Total/NA	Water	8260B/5030B	
MB 440-123291/4	Method Blank	Total/NA	Water	8260B/5030B	

GC/MS Semi VOA

Prep Batch: 122526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-53287-1	MW-1	Total/NA	Water	3520C	
LCS 440-122526/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-122526/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 440-122526/1-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 123685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-53287-1	MW-1	Total/NA	Water	8270C LL	122526
LCS 440-122526/2-A	Lab Control Sample	Total/NA	Water	8270C LL	122526
LCSD 440-122526/3-A	Lab Control Sample Dup	Total/NA	Water	8270C LL	122526
MB 440-122526/1-A	Method Blank	Total/NA	Water	8270C LL	122526

GC VOA

Analysis Batch: 123183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-53287-1	MW-1	Total/NA	Water	8015B/5030B	
440-53287-2	MW-2	Total/NA	Water	8015B/5030B	
440-53287-2 MS	MW-2	Total/NA	Water	8015B/5030B	
440-53287-2 MSD	MW-2	Total/NA	Water	8015B/5030B	
440-53287-3	MW-3	Total/NA	Water	8015B/5030B	
440-53287-4	MW-8	Total/NA	Water	8015B/5030B	
440-53287-5	MW-9	Total/NA	Water	8015B/5030B	
440-53287-6	MW-10	Total/NA	Water	8015B/5030B	
440-53287-7	MW-14	Total/NA	Water	8015B/5030B	
440-53287-8	MW-15	Total/NA	Water	8015B/5030B	
LCS 440-123183/26	Lab Control Sample	Total/NA	Water	8015B/5030B	
MB 440-123183/27	Method Blank	Total/NA	Water	8015B/5030B	

TestAmerica Irvine

QC Association Summary

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

GC VOA (Continued)

Analysis Batch: 123262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-53020-C-6 MS	Matrix Spike	Total/NA	Water	8015B/5030B	
440-53020-C-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B/5030B	
440-53287-9	MW-16	Total/NA	Water	8015B/5030B	
440-53287-11	MW-18	Total/NA	Water	8015B/5030B	
440-53287-12	MW-19	Total/NA	Water	8015B/5030B	
LCS 440-123262/5	Lab Control Sample	Total/NA	Water	8015B/5030B	
MB 440-123262/6	Method Blank	Total/NA	Water	8015B/5030B	

Analysis Batch: 123359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-53287-10	MW-17	Total/NA	Water	8015B/5030B	
440-53287-10 MS	MW-17	Total/NA	Water	8015B/5030B	
440-53287-10 MSD	MW-17	Total/NA	Water	8015B/5030B	
LCS 440-123359/2	Lab Control Sample	Total/NA	Water	8015B/5030B	
MB 440-123359/3	Method Blank	Total/NA	Water	8015B/5030B	

Definitions/Glossary

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
BA	Relative percent difference out of control

GC VOA

Qualifier	Qualifier Description
LH	Surrogate Recoveries were higher than QC limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Broadbent & Associates, Inc.
Project/Site: ARCO 0601, San Leandro

TestAmerica Job ID: 440-53287-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-14
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-14
California	NELAP	9	1108CA	01-31-14
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-28-14 *
Hawaii	State Program	9	N/A	01-31-14
Nevada	State Program	9	CA015312007A	07-31-14
New Mexico	State Program	6	N/A	01-31-14
Northern Mariana Islands	State Program	9	MP0002	01-31-14
Oregon	NELAP	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Irvine



Laboratory Management Program LaMP Chain of Custody Record

Page 1 of 1

BP Site Node Path: 06-88-605

Req Due Date (mm/dd/yy):

Rush TAT: Yes No

BP Facility No: 601

Lab Work Order Number:

Lab Name: Test America				Facility Address: 712 Lewelling Blvd				Consultant/Contractor: Broadbent and Associates, Inc.																			
Lab Address: 17461 Derian Avenue Suite #100, Irvine, CA 92641				City, State, ZIP Code: San Leandro, CA				Consultant/Contractor Project No: 06-88-605																			
Lab PM: Kathleen Robb				Lead Regulatory Agency: ACEH, City of San Leandro				Address: 875 Cotting Lane, Suite G, Vcaville, CA 95688																			
Lab Phone: 949-261-1022				California Global ID No.: T0600100108				Consultant/Contractor PM: Kristene Tidwell																			
Lab Shipping Acct: 1103-6633-7				Enfos Proposal No: 005ZB-0001				Phone: 707-455-7290 Fax: 707-455-7295																			
Lab Bottle Order No:				Accounting Mode: Provision OOC-BU OOC-RM				Email EDD To: ktidwell@broadbentinc.com and to lab.enfosdoc@bp.com																			
Other Info:				Stage: Execute (40) Activity: Project Spend (80)				Invoice To: BP x Contractor																			
BP Project Manager (PM): Chuck Carmel				Matrix				No. Containers / Preservative				Requested Analyses				Report Type & QC Level											
BP PM Phone: 925-275-3804																Standard x											
BP PM Email: chuck.carmel@bp.com																Full Data Package											
Lab No.	Sample Description	Date	Time	Soil / Solid	Water / Liquid	Air / Vapor	Is this location a well?	Total Number of Container	Unpreserved	H2SO4	HNO3	HCl	Methanol	GRO by 8015M	BTEX/5 FO & EDB by 8260	1,2-DCA & Ethanol by 8260	SVOC's by 8270	Comments									
	MW-1	7/30/2013	1130		x	y		8				x		x	x	x	x		Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.								
	MW-2	7/30/2013	1445		x	y		6				x		x	x	x											
	MW-3	7/30/2013	1105		x	y		6				x		x	x	x											
	MW-8	7/30/2013	1410		x	y		6				x		x	x	x											
	MW-9	7/30/2013	1205		x	y		6				x		x	x	x											
	MW-10	7/30/2013	0900		x	y		6				x		x	x	x											
	MW-14	7/30/2013	1305		x	y		6				x		x	x	x											
	MW-15	7/30/2013	1240		x	y		6				x		x	x	x											
	MW-16	7/30/2013	1035		x	y		6				x		x	x	x											
	MW-17	7/30/2013	1000		x	y		6				x		x	x	x											
	MW-18	7/30/2013	0930		x	y		6				x		x	x	x											
	MW-19	7/30/2013	1340		x	y		6				x		x	x	x											
	TB-601-07302013	-	-		x	n		2				x							On Hold								
Sampler's Name: Alex Martinez & Alejandr Hernandez				Relinquished By / Affiliation				Date				Time				Accepted By / Affiliation				Date				Time			
Sampler's Company: Broadbent and Associates				Alex Martinez BAE				7/31/13				1700				Jw Bank TAI				8/1/13				940			
Shipment Method: Fed Ex Ship Date: 7/30/2013								7/31/13				1700															
Shipment Tracking No:																											
Special Instructions:																											
THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes/No Temp Blank: Yes/No Cooler Temp on Receipt: 28.3/°C Trip Blank: Yes/No MS/MSD Sample Submitted: Yes/No																											

Page 37 of 38

01/01/2013

440-53287 Chain of Custody

Login Sample Receipt Checklist

Client: Broadbent & Associates, Inc.

Job Number: 440-53287-1

Login Number: 53287

List Source: TestAmerica Irvine

List Number: 1

Creator: Perez, Angel

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Alex Martinez & Alejandro Hernandez
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX D

GEOTRACKER UPLOAD CONFIRMATION RECEIPTS

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

<u>Submittal Type:</u>	EDF
<u>Report Title:</u>	3Q13 GW Monitoring
<u>Report Type:</u>	Monitoring Report - Quarterly
<u>Facility Global ID:</u>	T0600100108
<u>Facility Name:</u>	ARCO #0601
<u>File Name:</u>	440-53287-1_15 Aug 13 1758_EDF.ZIP
<u>Organization Name:</u>	Broadbent & Associates, Inc.
<u>Username:</u>	BROADBENT-C
<u>IP Address:</u>	216.241.56.58
<u>Submittal Date/Time:</u>	8/29/2013 10:33:51 AM
<u>Confirmation Number:</u>	5150735080

[VIEW QC REPORT](#)

[VIEW DETECTIONS REPORT](#)

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STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

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Your file has been successfully submitted!

<u>Submittal Type:</u>	GEO_WELL
<u>Report Title:</u>	3Q13 GEO_WELL 601
<u>Facility Global ID:</u>	T0600100108
<u>Facility Name:</u>	ARCO #0601
<u>File Name:</u>	GEO_WELL.zip
<u>Organization Name:</u>	Broadbent & Associates, Inc.
<u>Username:</u>	BROADBENT-C
<u>IP Address:</u>	216.241.56.58
<u>Submittal Date/Time:</u>	8/29/2013 10:37:29 AM
<u>Confirmation Number:</u>	1876756191

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