Stantec Consulting Services Inc.
290 Conejo Ridge Avenue
Thousand Oaks CA 91361
Tel: (805) 230-1266
Fax: (805) 230-1277

Stantec

April 15, 2013

Mr. Gregg Kwey
California Regional Water Quality Control Board – Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, California 90013

RE: FIRST QUARTER 2013 SEMI-ANNUAL STATUS REPORT
ARCO Station No. 5110
5731 East Firestone Blvd.
South Gate, California 90280-3703

Dear Mr. Kwey:

Attached please find the First Quarter 2013 Semi-Annual Status Report prepared by Stantec Consulting Services Inc. on behalf of Atlantic Richfield Company. This report is submitted as a supplement to the ARCO 0031 (Vinvale LAT) quarterly groundwater SCMU; gradient flow directions and isoconcentration figures will be included in the Vinvale LAT Quarterly Status Report. Select groundwater wells at ARCO 5110 are used to delineate the Vinvale LAT plume and are required to be sampled quarterly. This Semi-Annual Status Report was completed to summarize the data collected from select groundwater monitoring wells at the site. Should you have any questions regarding the contents of this report, please contact Mr. Randy Couture at (805) 719-9380.

Respectfully submitted,

Stantec Consulting Services Inc.

Prepared By:	Reviewed By:	Approved By:
Allison Rubenstein Project Scientist	for: Randy T. Couture Senior Scientist Project Manager	Andrew J. Modugno Principal Geologist P.G. No 7036

PROFESSIONAL GEOLOGIST
ANDREW JAMES MODUGNO
No. 7036
Exp. 6/31/13
STATE OF CALIFORNIA

Attached – Semi-Annual Status Report

cc: Mr. Danny Monson – Atlantic Richfield Company
Mr. Arnold Mooradian – Station Owner

Stantec Consulting Services Inc.
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Stantec

ATLANTIC RICHFIELD COMPANY SEMI-ANNUAL STATUS REPORT

FIRST QUARTER

APRIL 15, 2013

Station No.: 5110 Address: 5731 East Firestone Blvd, South Gate
Atlantic Richfield Company Environmental Engineer/Phone No.: Mr. Daniel Monson / (714) 670-5060
Consulting Co./Contact Person/Phone No.: Stantec/ Mr. Randy Couture / (805) 427-4863
Stantec Project No.: 211812077
Primary Agency/Regulatory ID No.: CRWQCB-LA Mr. Gregg Kwey /Case No. I-12074 (Priority B-2)
Other Agencies to Receive Copies: None

WORK PERFORMED THIS PERIOD [First Quarter 2013]:

1. Conducted groundwater sampling at select wells for Vinvale LAT plume delineation.
2. Conducted air sparging activities on select monitoring wells.
3. Conducted Oxygen Diffusion O&M activities.
4. Prepared Semi-Annual Status Report.

WORK PROPOSED NEXT PERIOD [Second Quarter 2013]:

1. Conduct semi-annual groundwater sampling and prepare SCMU Report.
2. Conduct Oxygen Diffusion O&M activities.
3. Conduct air sparging activities on select monitoring wells.
4. Prepare Semi-Annual SCMU Report.

SUMMARY OF THIS PERIOD DATA [First - 2013]:

Current Phase of Project:	Remediation	(Assmnt, Remed. etc)
Frequency of Sampling:	AS and iSOC™ Bi-Monthly/ GW Semi-Annual	(Semi-Annual, etc.)
Frequency of Monitoring:	AS and iSOC™ Bi-Monthly/ GW Semi-Annual	(Monthly, etc.)
Separate Phase Hydrocarbons	No	(Yes/No)
Cumulative SPH Recovered to Date:	None	(gallons)
SPH Recovered This Quarter:	None	(gallons)
Bulk Soil Removed to Date:	~1,422	(cubic yards)
Bulk Soil Removed This Quarter:	None	(cubic yards)
Water Wells or Surface Waters (4000-ft) radius) Radius & Their Respective Directions:	02S/12W-31Q03 1800'SW 02S/12W-31Q02 1800' SW	(Distance and Direction)
Current Remediation Techniques:	AS and iSOC™	(SVES, SPH Removal, etc.)
Permits for Discharge:	N/A	(NPDES, POTW, etc.)

Approximate Depth to Groundwater:	Range: 55.65 to 56.85	(Measured Feet)
Cumulative Hydrocarbon Removed Via AS/SVE system: **Q4-2012**	50,752	(pounds)
Hydrocarbons Removed Via AS/SVE system: **Q4-2012**	0	(pounds)
AS/SVE System Up-Time: **Q4-2012**	0	(hours)
Percent Up- Time: **Q4-2012**	0%	(percentage)
Co-mingled Plume	N/A	(Site I.D.)
Agency Directive Requirement:	CRWQCB-LA letter, Implementation of Final Draft Guidelines for Investigation and Cleanup of MTBE and Other Oxygenates, dated February 28, 2003 and August 27, 2003. CRWQCB-LA letter dated September 17, 2008 granting approval for iSOC™ oxygen diffusion wells but rejecting ORC application in off-Site wells MW-A2 and MW-A5.	

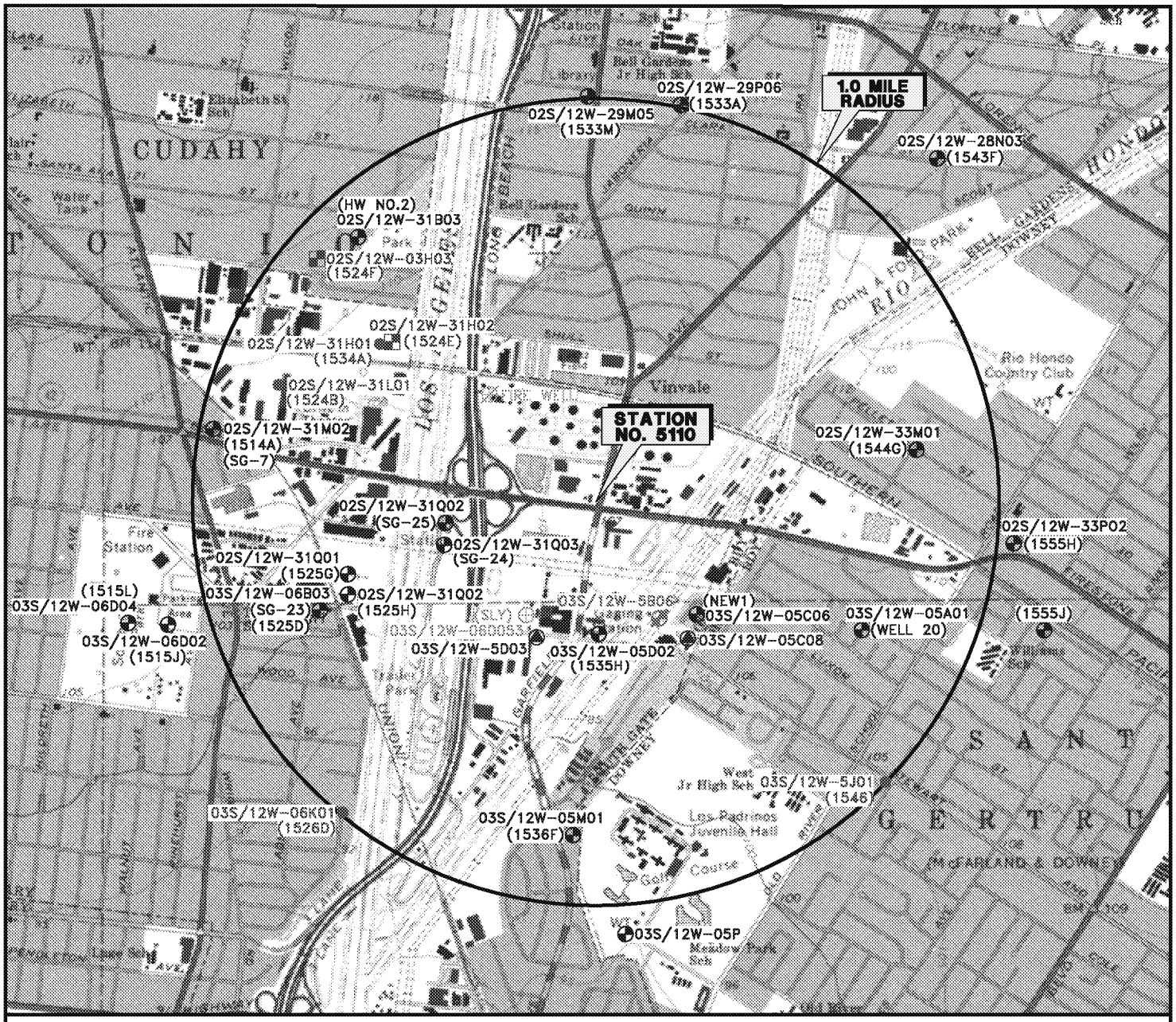
ATTACHED:

Figures
Figure 1 – Site Location Map Showing Identified Wells within a One-Mile Radius
Figure 2 – Site Vicinity Map
Figure 3 – Site Map Showing Hydrocarbon Concentration in Groundwater

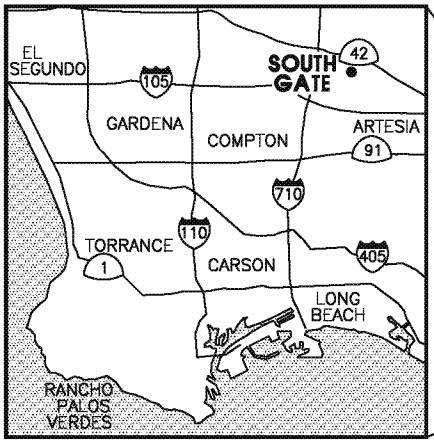
Tables
Table 1 – Historical Soil Analytical Results
Table 2 – Summary of Groundwater Analytical & Elevation Results
Table 3 – Well Construction Details

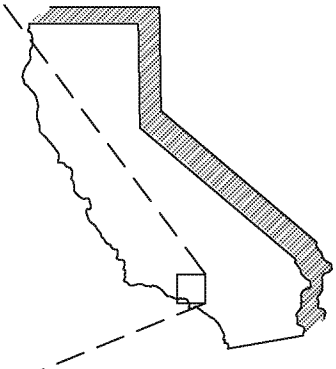
Appendices
Appendix A – Groundwater Field Data Sheets
Appendix B – Laboratory Report and Chain of Custody
Appendix C – Waste Disposal Documents

Figures



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, SOUTH GATE QUADRANGLE, 1964
PHOTOREVISED 1981





LEGEND

- PUBLIC SUPPLY WELL
- PUBLIC SUPPLY WELL (ABANDONED)
- OBSERVATION WELL
- WELL
- WELL (ABANDONED)
- INDUSTRIAL
- UNKNOWN

N

0 2000 4000

APPROXIMATE SCALE (FEET)

Stantec
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
(805) 230-1266/230-1277 (Fax)

FOR:
ATLANTIC RICHFIELD COMPANY
STATION NO. 5110
5731 East Firestone Boulevard
South Gate, California

SITE LOCATION MAP SHOWING IDENTIFIED WELLS WITHIN A ONE-MILE RADIUS

FIGURE: **1**

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211812077	R. Roman	A. Rubenstein	R. Couture	03/06/12

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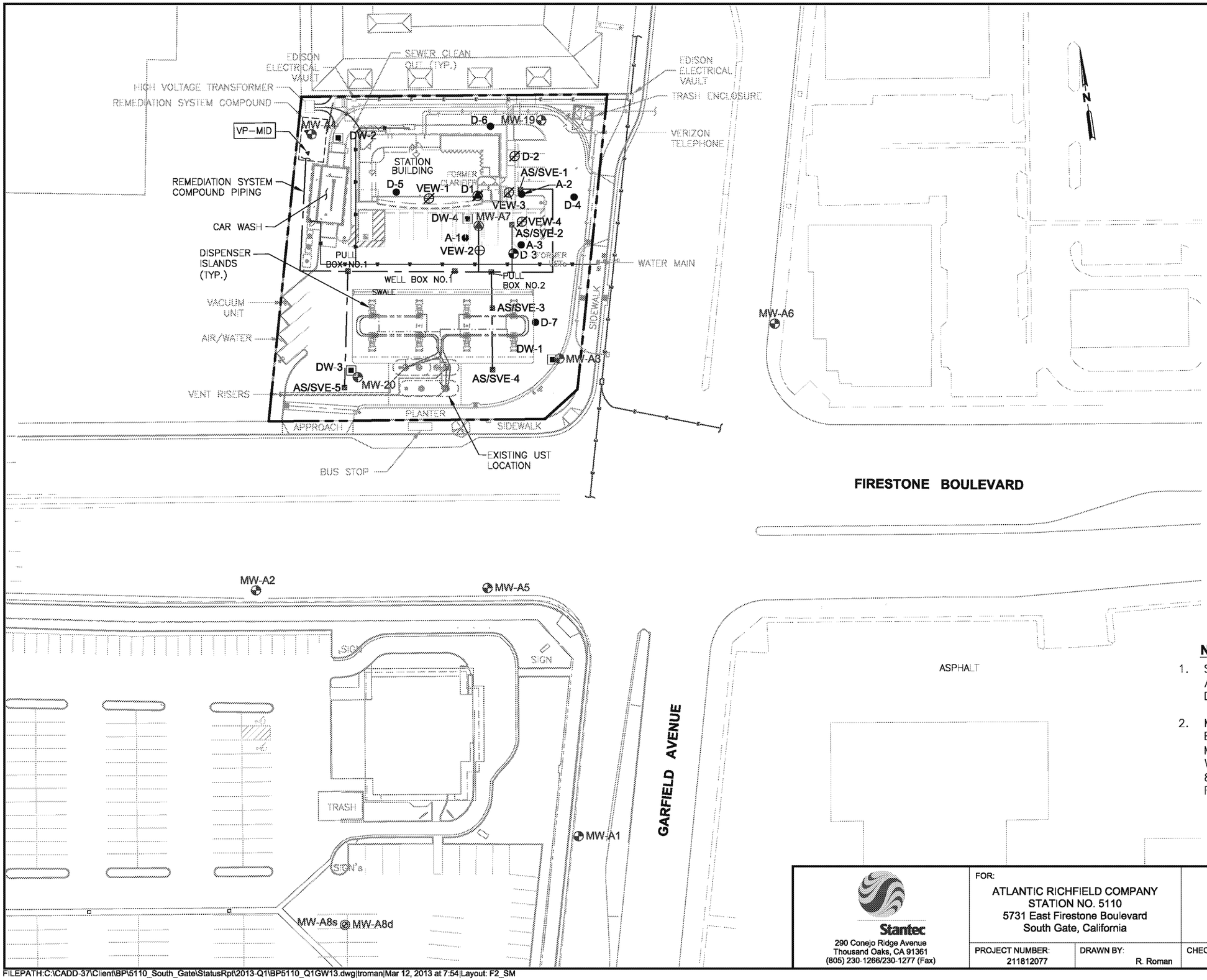

LEGEND

— — — —	APPROXIMATE SITE PROPERTY LINE
	2" ENVIRON DOUBLE WALL GEOFLEX-D PRODUCT PIPING
	2" OR 3" F.G. SINGLE WALL VAPOR RECOVERY PIPING
	2" F.G. SINGLE WALL VENT PIPING
	ELECTRICAL LINE
	GAS LINE
	WATER LINE
	TELEPHONE LINE
MW-A6	GROUNDWATER MONITORING WELL LOCATIONS
MW-A7	DUAL COMPLETION GROUNDWATER MONITORING/SOIL VAPOR EXTRACTION WELL LOCATION
MW-A8 s/d	NESTED GROUNDWATER MONITORING WELL LOCATIONS
VEW-2	SOIL VAPOR EXTRACTION WELL LOCATIONS
D1	ABANDONED DUAL COMPLETION GROUNDWATER MONITORING/SOIL VAPOR EXTRACTION WELL LOCATION
VEW-1	ABANDONED SOIL VAPOR EXTRACTION WELL LOCATIONS
AS/SVE-1	18" DIAMETER VAULT/NESTED AIR SPARGE/SOIL VAPOR EXTRACTION WELL LOCATIONS
D-4	SOIL BORING LOCATIONS
DW-1	iSOC(M) DIFFUSION WELL LOCATIONS
MW-20	GROUNDWATER MONITORING WELL LOCATIONS (ARCO VINVALE TERMINAL)

NOTES:

1. SOURCE OF BASE MAP: FRED FIEDLER AND ASSOCIATES, NEW AM/PM FACILITY, SHEET TK1-1, DATED MARCH 4, 2002.
2. MONITORING/EXTRACTION WELLS SURVEYED BY AZIMUTH GROUP, DATED MAY 13, 2002. MONITORING/EXTRACTION/ISOC WELLS SURVEYED BY WM SURVEYS INC., DATED JANUARY 12, 2009. NAD 83 CALIFORNIA STATE PLANES, ZONE 5 (FT.). SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

0 60 120

APPROXIMATE SCALE (FEET)

Stantec
290 Conejo Ridge Avenue
Thousand Oaks, CA 91361
(805) 230-1266/230-1277 (Fax)

FOR:
ATLANTIC RICHFIELD COMPANY
STATION NO. 5110
5731 East Firestone Boulevard
South Gate, California

SITE MAP SHOWING SOIL BORING, REMEDIAL WELL, AND PIPING LOCATIONS

FIGURE: **3**

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211812077	R. Roman	A. Rubenstain	R. Couture	04/15/13

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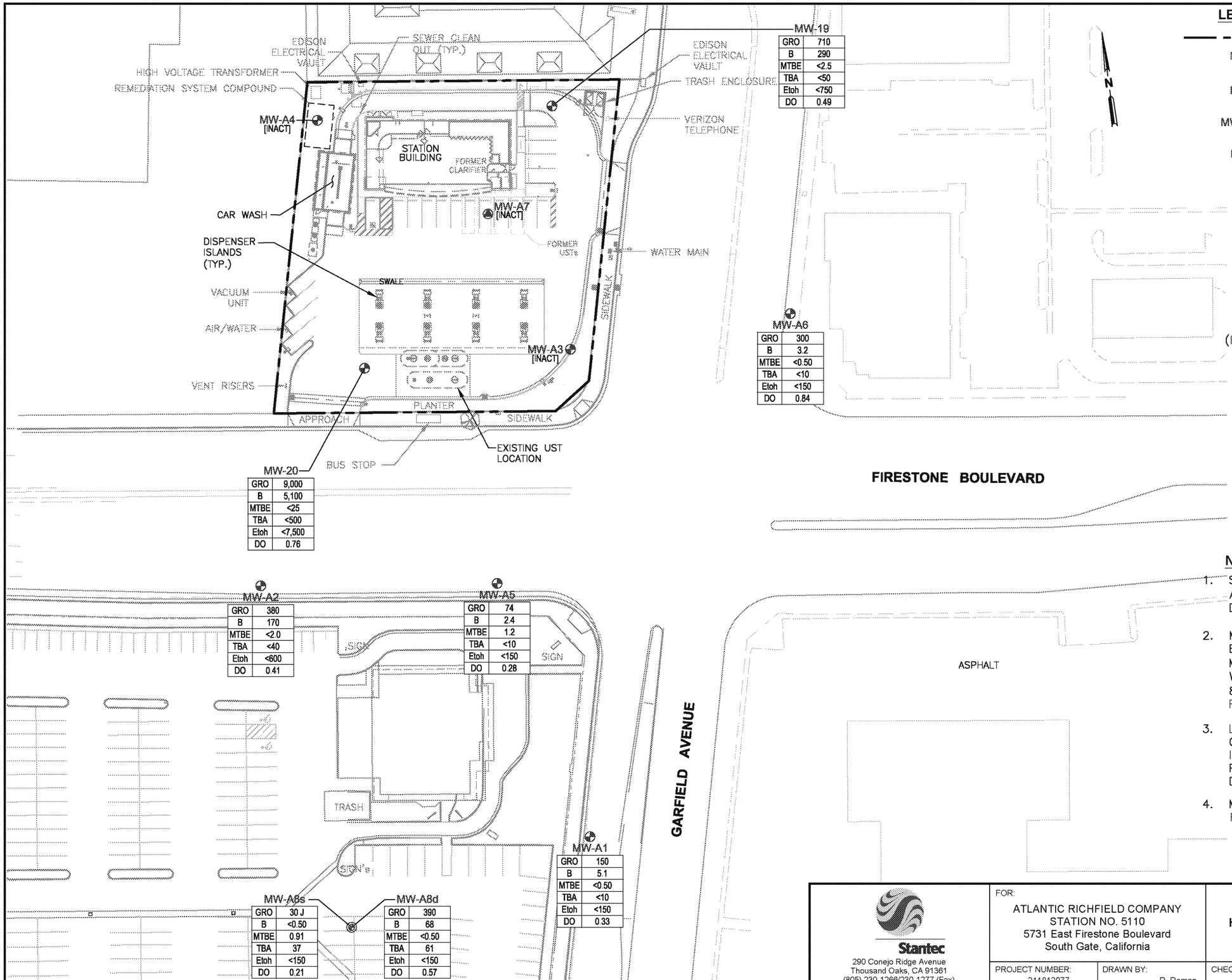

LEGEND

— — —	APPROXIMATE SITE PROPERTY LINE
MW-A6	GROUNDWATER MONITORING WELL LOCATIONS
MW-A7	DUAL COMPLETION GROUNDWATER MONITORING/SOIL VAPOR EXTRACTION WELL LOCATIONS
MW-A8 s/d	NESTED GROUNDWATER MONITORING WELL IN LOCATIONS
MW-20	GROUNDWATER MONITORING WELL LOCATIONS (ARCO VINVALE TERMINAL)

GRO	GASOLINE RANGE ORGANICS (µg/L)
B	BENZENE (µg/L)
MTBE	METHYL–TERT–BUTYL ETHER (µg/L)
TBA	TERT–BUTYL ALCOHOL (µg/L)
Etoh	ETHANOL (µg/L)
DO	DISSOLVED OXYGEN (mg/L)

(J) ESTIMATED VALUE; BELOW LABORATORY REPORTING LIMIT AND AT OR ABOVE THE METHOD DETECTION LIMIT.

(INACT) WELL INACTIVE; NOT INCLUDED IN GROUNDWATER MONITORING PROGRAM

NOTES:

1. SOURCE OF BASE MAP: FRED FIEDLER AND ASSOCIATES, NEW AM/PM FACILITY, SHEET TK1–1, DATED MARCH 4, 2002.
2. MONITORING/EXTRACTION WELLS SURVEYED BY AZIMUTH GROUP, DATED MAY 13, 2002. MONITORING/EXTRACTION/ISOC WELLS SURVEYED BY WM SURVEYS INC., DATED JANUARY 12, 2009. NAD 83 CALIFORNIA STATE PLANES, ZONE 5 (FT.). SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
3. LABORATORY METHOD DETECTION LIMIT (MDL) CONCENTRATIONS MAY BE USED TO DETERMINE ISOCONTOUR LINE SPACING IF THE LABORATORY REPORTING LIMIT CONCENTRATIONS IS ELEVATED DUE TO DILUTION.
4. MONITORING WELLS GAUGED AND SAMPLED ON FEBRUARY 12–13, 2013.

0 60 120

APPROXIMATE SCALE (FEET)

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290 Conejo Ridge Avenue
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(805) 230-1266/230-1277 (Fax)

FOR:
ATLANTIC RICHFIELD COMPANY
STATION NO. 5110
5731 East Firestone Boulevard
South Gate, California

SITE MAP SHOWING HYDROCARBON CONCENTRATION IN GROUNDWATER

FIGURE: **3**

PROJECT NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
211812077	R. Roman	A. Rubenstain	R. Couture	04/15/13

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Tables

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
ATLANTIC RICHFIELD COMPANY STATION NO. 5110
5731 EAST FIRESTONE BOULEVARD
SOUTH GATE, CA

EPA Method:		8015B			8020/8260B										HML 939-M	SM2540G
Sample I.D.	Sample Date	TPHg mg/kg	TFH mg/kg	GRO mg/kg	B mg/kg	T mg/kg	E mg/kg	X mg/kg	MTBE mg/kg	TBA mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	ETHANOL mg/kg	LEAD mg/kg	PERCENT SOLIDS %
Soil Boring Samples																
A-1-25	09/20/89	--	2.7	--	--	--	--	--	--	--	--	--	--	--	--	--
A-1-40	09/20/89	--	1.3	--	--	--	--	--	--	--	--	--	--	--	--	--
A-2-30	09/20/89	--	2,600	--	--	--	--	--	--	--	--	--	--	--	--	--
A-2-40	09/20/89	--	1,800	--	--	--	--	--	--	--	--	--	--	--	--	--
A-3-25	09/20/89	--	16,000	--	--	--	--	--	--	--	--	--	--	--	--	--
A-3-40	09/20/89	--	<0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
Well Installation Samples				--												
MW-19-30	09/20/89	--	<0.2	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-20-30	09/21/89	--	<0.2	--	--	--	--	--	--	--	--	--	--	--	--	--
UST Samples																
1A-17	10/04/89	--	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--
1B-17	10/04/89	--	16	--	--	--	--	--	--	--	--	--	--	--	--	--
2A-17	10/04/89	--	1,400	--	--	--	--	--	--	--	--	--	--	--	--	--
2B-17	10/04/89	--	<0.2	--	--	--	--	--	--	--	--	--	--	--	--	--
3A-17	10/04/89	--	1,100	--	--	--	--	--	--	--	--	--	--	--	--	--
3B-17	10/04/89	--	7,900	--	--	--	--	--	--	--	--	--	--	--	--	--
4A-17.5	10/04/89	--	1,400	--	--	--	--	--	--	--	--	--	--	--	--	--
4B-17	10/04/89	--	3.0	--	--	--	--	--	--	--	--	--	--	--	--	--
Well Installation Samples																
D-1-5	06/21/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-1-10	06/21/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-1-15	06/21/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-1-20	06/21/90	--	61 [a]	--	<0.10	<0.10	0.2	1.9	--	--	--	--	--	--	--	--
D-1-25	06/21/90	--	8,600	--	--	--	--	--	--	--	--	--	--	--	--	--
D-1-30	06/21/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-1-35	06/21/90	--	<0.2	--	--	--	--	--	--	--	--	--	--	--	--	--
D-1-40	06/21/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-1-45	06/21/90	--	8.8	--	--	--	--	--	--	--	--	--	--	--	--	--
D-1-47	06/21/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-1-50	06/21/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-1-55	06/21/90	--	<0.2	--	--	--	--	--	--	--	--	--	--	--	--	--
D-1-60	06/21/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-1-65	06/21/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-1-70	06/21/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
ATLANTIC RICHFIELD COMPANY STATION NO. 5110
5731 EAST FIRESTONE BOULEVARD
SOUTH GATE, CA

EPA Method:		8015B			8020/8260B										HML 939-M	SM2540G
Sample I.D.	Sample Date	TPHg mg/kg	TFH mg/kg	GRO mg/kg	B mg/kg	T mg/kg	E mg/kg	X mg/kg	MTBE mg/kg	TBA mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	ETHANOL mg/kg	LEAD mg/kg	PERCENT SOLIDS %
D-2-10	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-2-15	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-2-20	06/22/90	--	<0.2	--	--	--	--	--	--	--	--	--	--	--	--	--
D-2-25	06/22/90	--	200 [a]	--	0.2	10	11	39								
D-2-30	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-2-35	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-2-40	06/22/90	--	<0.2	--	--	--	--	--	--	--	--	--	--	--	--	--
D-2-45	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-2-47	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-2-50	06/22/90	--	<0.2	--	--	--	--	--	--	--	--	--	--	--	--	--
D-2-55	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-2-60	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-2-65	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-2-70	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-3-10	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-3-15	06/22/90	--	<0.2	--	--	--	--	--	--	--	--	--	--	--	--	--
D-3-20	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-3-25	06/22/90	--	0.3	--	<0.05	<0.05	0.05	0.3	--	--	--	--	--	--	--	--
D-3-30	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-3-35	06/22/90	--	<0.2	--	--	--	--	--	--	--	--	--	--	--	--	--
D-3-40	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-3-45	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-3-47	06/22/90	--	<0.2	--	--	--	--	--	--	--	--	--	--	--	--	--
D-3-50	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-3-55	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-3-60	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-3-65	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-3-70	06/22/90	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D-4-10	12/16/92	--	<10	--	<0.005	<0.005	<0.005	0.02	--	--	--	--	--	--	--	--
D-4-20	12/16/92	--	<10	--	0.007	0.007	0.007	0.024	--	--	--	--	--	--	--	--
D-4-25	12/16/92	--	<10	--	0.035	0.017	0.017	0.03	--	--	--	--	--	--	--	--
D-4-30	12/16/92	--	<10	--	0.017	0.004	0.004	0.015	--	--	--	--	--	--	--	--
D-4-35	12/16/92	--	<10	--	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--
D-4-40	12/16/92	--	<10	--	0.006	0.007	0.007	0.023	--	--	--	--	--	--	--	--
D-4-45	12/16/92	--	<10	--	0.13	0.01	0.01	0.19	--	--	--	--	--	--	--	--
D-4-50	12/16/02	--	<10	--	0.33	0.16	0.16	0.4	--	--	--	--	--	--	--	--

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
ATLANTIC RICHFIELD COMPANY STATION NO. 5110
5731 EAST FIRESTONE BOULEVARD
SOUTH GATE, CA

EPA Method:		8015B			8020/8260B										HML 939-M	SM2540G
Sample I.D.	Sample Date	TPHg mg/kg	TFH mg/kg	GRO mg/kg	B mg/kg	T mg/kg	E mg/kg	X mg/kg	MTBE mg/kg	TBA mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	ETHANOL mg/kg	LEAD mg/kg	PERCENT SOLIDS %
D-5-10	12/16/92	--	<10	--	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--
D-5-20	12/16/92	--	<10	--	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--
D-5-25	12/16/92	--	<10	--	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--
D-5-30	12/16/92	--	<10	--	0.03	0.006	0.026	0.081	--	--	--	--	--	--	--	--
D-5-35	12/16/92	--	<10	--	<0.005	0.006	<0.005	<0.015	--	--	--	--	--	--	--	--
D-5-40	12/16/92	--	<10	--	0.079	<0.005	0.042	0.064	--	--	--	--	--	--	--	--
D-5-45	12/16/92	--	<10	--	0.17	0.02	0.076	0.13	--	--	--	--	--	--	--	--
D-5-50	12/16/02	--	<10	--	0.014	0.008	0.005	<0.015	--	--	--	--	--	--	--	--
D-6-10	12/16/92	--	<10	--	0.005	0.007	<0.005	<0.015	--	--	--	--	--	--	--	--
D-6-20	12/16/92	--	<10	--	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--
D-6-25	12/16/92	--	<10	--	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--
D-6-30	12/16/92	--	<10	--	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--
D-6-35	12/16/92	--	<10	--	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--
D-6-40	12/16/92	--	<10	--	<0.005	0.007	<0.005	0.018	--	--	--	--	--	--	--	--
D-6-45	12/16/92	--	<10	--	0.014	<0.005	0.056	0.096	--	--	--	--	--	--	--	--
D-6-50	12/16/92	--	<10	--	0.012	<0.005	0.006	<0.015	--	--	--	--	--	--	--	--
D-7-10	12/16/92	--	<10	--	0.011	<0.005	<0.005	0.058	--	--	--	--	--	--	--	--
D-7-20	12/16/92	--	<10	--	0.066	0.014	0.012	0.057	--	--	--	--	--	--	--	--
D-7-25	12/16/92	--	<10	--	0.91	1.4	0.31	1.4	--	--	--	--	--	--	--	--
D-7-30	12/16/92	--	<10	--	0.045	0.074	0.02	0.12	--	--	--	--	--	--	--	--
D-7-35	12/16/92	--	<10	--	0.009	0.011	<0.005	0.024	--	--	--	--	--	--	--	--
D-7-40	12/16/92	--	<10	--	0.006	0.013	<0.005	0.02	--	--	--	--	--	--	--	--
D-7-45	12/16/92	--	<10	--	0.19	0.23	0.057	0.28	--	--	--	--	--	--	--	--
D-7-50	12/16/92	--	<10	--	0.16	0.26	0.063	0.3	--	--	--	--	--	--	--	--
VEW-1-5	04/06/95	<1.0	--	--	<0.005	<0.005	<0.005	<0..015	--	--	--	--	--	--	--	--
VEW-1-10	04/06/95	<1.0	--	--	<0.005	<0.005	<0.005	<0..015	--	--	--	--	--	--	--	--
VEW-1-15	04/06/95	<1.0	--	--	<0.005	<0.005	<0.005	<0..015	--	--	--	--	--	--	--	--
VEW-1-20	04/06/95	<1.0	--	--	<0.005	<0.005	<0.005	<0..015	--	--	--	--	--	--	--	--
VEW-1-25	04/06/95	<1.0	--	--	<0.005	<0.005	<0.005	<0..015	--	--	--	--	--	--	--	--
VEW-1-30	04/06/95	<1.0	--	--	0.0060	<0.005	<0.005	<0..015	--	--	--	--	--	--	--	--
VEW-1-35	04/06/95	<1.0	--	--	<0.005	<0.005	<0.005	<0..015	--	--	--	--	--	--	--	--
VEW-1-40	04/06/95	<1.0	--	--	<0.005	<0.005	<0.005	<0..015	--	--	--	--	--	--	--	--
VEW-1-50	04/06/95	1.6	--	--	0.2	0.18	0.065	0.22	--	--	--	--	--	--	--	--
VEW-1-60	04/06/95	<1.0	--	--	0.020	0.017	0.0067	0.024	--	--	--	--	--	--	--	--

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
ATLANTIC RICHFIELD COMPANY STATION NO. 5110
5731 EAST FIRESTONE BOULEVARD
SOUTH GATE, CA

EPA Method:		8015B			8020/8260B										HML 939-M	SM2540G
Sample I.D.	Sample Date	TPHg mg/kg	TFH mg/kg	GRO mg/kg	B mg/kg	T mg/kg	E mg/kg	X mg/kg	MTBE mg/kg	TBA mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	ETHANOL mg/kg	LEAD mg/kg	PERCENT SOLIDS %
VEW-2-5	04/05/95	--	--	--	0.25	0.45	0.51	4.3	--	--	--	--	--	--	--	--
VEW-2-10	04/05/95	--	--	--	1.7	6.8	14	94	--	--	--	--	--	--	--	--
VEW-2-15	04/05/95	--	--	--	0.031	0.079	0.019	0.15	--	--	--	--	--	--	--	--
VEW-2-20	04/05/95	--	--	--	0.56	0.61	0.15	0.99	--	--	--	--	--	--	--	--
VEW-2-25	04/05/95	--	--	--	60	370	150	770	--	--	--	--	--	--	--	--
VEW-2-30	04/05/95	--	--	--	0.28	0.14	0.24	1.7	--	--	--	--	--	--	--	--
VEW-2-35	04/05/95	--	--	--	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--
VEW-2-40	04/05/95	--	--	--	0.037	1	1.1	7.3	--	--	--	--	--	--	--	--
VEW-2-50	04/05/95	--	--	--	5.1	20	15	90	--	--	--	--	--	--	--	--
VEW-2-60	04/05/95	--	--	--	7.4	26	35	250	--	--	--	--	--	--	--	--
VEW-3-5	04/05/95	--	--	--	0.027	0.055	0.024	0.2	--	--	--	--	--	--	--	--
VEW-3-10	04/05/95	--	--	--	<0.005	<0.005	<0.005	0.031	--	--	--	--	--	--	--	--
VEW-3-15	04/05/95	--	--	--	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--
VEW-3-20	04/05/95	--	--	--	<0.005	0.005	<0.005	0.053	--	--	--	--	--	--	--	--
VEW-3-25	04/05/95	--	--	--	0.68	2.6	0.93	5.4	--	--	--	--	--	--	--	--
VEW-3-30	04/05/95	--	--	--	16	160	140	940	--	--	--	--	--	--	--	--
VEW-3-35	04/05/95	--	--	--	0.84	5.8	7.2	60	--	--	--	--	--	--	--	--
VEW-3-40	04/05/95	--	--	--	2.5	23	25	190	--	--	--	--	--	--	--	--
VEW-3-50	04/05/95	--	--	--	0.14	0.28	0.070	0.39	--	--	--	--	--	--	--	--
VEW-3-60	04/05/95	--	--	--	0.095	0.94	0.30	1.8	--	--	--	--	--	--	--	--
VEW-4-5	04/05/95	--	--	--	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--
VEW-4-10	04/05/95	--	--	--	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--
VEW-4-15	04/05/95	--	--	--	0.0050	<0.005	0.0060	0.040	--	--	--	--	--	--	--	--
VEW-4-20	04/05/95	--	--	--	0.03	0.076	0.045	0.035	--	--	--	--	--	--	--	--
VEW-4-25	04/05/95	--	--	--	<0.005	0.011	0.0086	0.054	--	--	--	--	--	--	--	--
VEW-4-30	04/05/95	--	--	--	0.69	1.4	1.7	11	--	--	--	--	--	--	--	--
VEW-4-35	04/05/95	--	--	--	<0.005	<0.005	<0.005	0.04	--	--	--	--	--	--	--	--
VEW-4-40	04/05/95	--	--	--	<0.005	0.005	<0.005	0.019	--	--	--	--	--	--	--	--
VEW-4-50	04/05/95	--	--	--	0.042	0.17	0.056	0.39	--	--	--	--	--	--	--	--
VEW-4-60	04/05/95	--	--	--	2.5	8.8	2.3	11	--	--	--	--	--	--	--	--
MW-A3-10	12/01/99	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.015	<0.035	--	--	--	--	--	--	--
MW-A3-20	12/01/99	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.015	<0.035	--	--	--	--	--	--	--
MW-A3-30	12/01/99	<1.0	--	--	0.0079	<0.0050	<0.0050	<0.015	<0.035	--	--	--	--	--	--	--
MW-A3-40	12/01/99	1.8	--	--	0.21	0.0061	0.072	0.31	0.037	--	--	--	--	--	--	--
MW-A3-45	12/01/99	--	<5.0	--	0.046	<0.002	0.039	0.208	<0.005	--	--	--	--	--	--	--
MW-A3-55	12/01/99	--	<5.0	--	0.0028	<0.002	<0.002	<0.004	<0.005	--	--	--	--	--	--	--

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HISTORICAL SOIL ANALYTICAL RESULTS
ATLANTIC RICHFIELD COMPANY STATION NO. 5110
5731 EAST FIRESTONE BOULEVARD
SOUTH GATE, CA

EPA Method:		8015B			8020/8260B										HML 939-M	SM2540G
Sample I.D.	Sample Date	TPHg mg/kg	TFH mg/kg	GRO mg/kg	B mg/kg	T mg/kg	E mg/kg	X mg/kg	MTBE mg/kg	TBA mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	ETHANOL mg/kg	LEAD mg/kg	PERCENT SOLIDS %
MW-A4-10	12/01/99	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.015	<0.035	--	--	--	--	--	--	--
MW-A4-20	12/01/99	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.015	<0.035	--	--	--	--	--	--	--
MW-A4-30	12/01/99	<1.0	--	--	0.0073	<0.0050	<0.0050	<0.015	<0.035	--	--	--	--	--	--	--
MW-A4-40	12/01/99	<1.0	--	--	0.019	<0.0050	<0.0050	<0.015	<0.035	--	--	--	--	--	--	--
MW-A4-45	12/01/99	--	<5.0	--	0.150	0.17	0.028	0.082	<0.005	--	--	--	--	--	--	--
MW-A4-55	12/01/99	--	<5.0	--	0.0098	<0.002	0.013	0.0066	<0.005	--	--	--	--	--	--	--
MW-A4-65	12/01/99	--	<5.0	--	0.1	<0.002	0.0073	0.0068	<0.005	--	--	--	--	--	--	--
MW-A5-5	10/21/01	<0.50	--	--	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	--	--	--
MW-A5-10	10/21/01	<0.41	--	--	<0.0017	<0.0017	<0.0017	<0.0017	<0.0043	<0.043	<0.0043	<0.0043	<0.0043	--	--	--
MW-A5-15	10/21/01	<0.50	--	--	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	--	--	--
MW-A5-20	10/21/01	<0.42	--	--	<0.0017	<0.0017	<0.0017	<0.0035	<0.0043	<0.043	<0.0043	<0.0043	<0.0043	--	--	--
MW-A5-25	10/21/01	<0.50	--	--	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	--	--	--
MW-A5-30	10/21/01	<0.50	--	--	<0.0020	<0.0020	<0.0020	0.00061[J]	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	--	--	--
MW-A5-35	10/21/01	<0.50	--	--	0.0060	<0.0020	0.0016[J]	0.0055	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	--	--	--
MW-A5-40	10/21/01	<0.50	--	--	<0.0018	<0.0018	<0.0018	<0.0036	<0.0044	<0.044	<0.0044	<0.0044	<0.0044	--	--	--
MW-A5-45	10/21/01	<0.44	--	--	<0.0018	<0.0018	<0.0018	<0.0036	<0.0045	<0.045	<0.0045	<0.0045	<0.0045	--	--	--
MW-A5-50	10/21/01	<0.41	--	--	0.00063[J]	<0.0017	<0.0017	<0.0033	<0.0041	<0.041	<0.0041	<0.0041	<0.0041	--	--	--
MW-A5-55	10/21/01	<0.45	--	--	<0.0018	<0.0018	<0.0018	<0.0036	<0.0044	<0.044	<0.0044	<0.0044	<0.0044	--	--	--
MW-A5-60	10/21/01	<0.44	--	--	0.0017[J]	0.00043[J]	0.00039[J]	0.0024[J]	<0.0045	<0.045	<0.0045	<0.0045	<0.0045	--	--	--
MW-A5-65	10/21/01	<0.45	--	--	0.0013[J]	0.00029[J]	0.00026[J]	0.0020[J]	0.0035[J]	<0.050	<0.0050	<0.0050	<0.0050	--	--	--
MW-A6-5	10/30/01	<0.42	--	--	<0.0044	<0.0044	<0.0044	<0.0044	<0.0089	<0.044	<0.0089	<0.0089	<0.0089	--	--	--
MW-A6-10	10/30/01	<0.42	--	--	<0.0040	<0.0040	<0.0040	<0.0040	<0.0081	<0.040	<0.0081	<0.0081	<0.0081	--	--	--
MW-A6-15	10/30/01	<0.45	--	--	<0.0044	<0.0044	<0.0044	<0.0044	<0.0087	<0.044	<0.0087	<0.0087	<0.0087	--	--	--
MW-A6-20	10/30/01	<0.50	--	--	<0.0056	<0.0056	<0.0056	<0.0056	<0.011	<0.056	<0.011	<0.011	<0.011	--	--	--
MW-A6-25	10/30/01	<0.42	--	--	<0.0041	<0.0041	<0.0041	<0.0041	<0.0083	<0.041	<0.0083	<0.0083	<0.0083	--	--	--
MW-A6-30	10/30/01	<0.50	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.050	<0.010	<0.010	<0.010	--	--	--
MW-A6-35	10/30/01	<0.50	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.050	<0.010	<0.010	<0.010	--	--	--
MW-A6-40	10/30/01	0.33[J]	--	--	<0.0044	<0.0044	<0.0044	<0.0044	<0.0088	<0.044	<0.0088	<0.0088	<0.0088	--	--	--
MW-A6-45	10/30/01	<0.43	--	--	0.0058	<0.0042	<0.0042	<0.0042	<0.0084	<0.042	<0.0084	<0.0084	<0.0084	--	--	--
MW-A6-50	10/30/01	<0.42	--	--	0.0055	<0.0042	<0.0042	<0.0042	<0.0084	<0.042	<0.0084	<0.0084	<0.0084	--	--	--
MW-A6-55	10/30/01	<0.45	--	--	0.0069	<0.0045	<0.0045	<0.0045	<0.0090	<0.045	<0.0090	<0.0090	<0.0090	--	--	--
MW-A6-60	10/30/01	<0.50	--	--	<0.0045	<0.0045	<0.0045	<0.0045	<0.0090	<0.045	<0.0090	<0.0090	<0.0090	--	--	--
MW-A6-65	10/30/01	<0.44	--	--	0.0082	<0.0044	<0.0044	<0.0044	<0.0088	<0.044	<0.0088	<0.0088	<0.0088	--	--	--
MW-A7-15	04/16/02	19	--	--	<0.26	0.23[J]	0.19[J]	1.3	1.2	11	<0.52	<0.52	<0.52	--	--	--
MW-A7-20	04/16/02	3.0	--	--	0.88	2.7	0.57	3.2	7.7	16	<0.50	<0.50	<0.50	--	--	--
MW-A7-25	04/16/02	29	--	--	1.5	30	33	170	<2.1	<11	<2.1	<2.1	<2.1	--	--	--
MW-A7-30	04/16/02	1,400	--	--	0.46[J]	14	22	120	<1.2	<6.1	<1.2	<1.2	<1.2	--	--	--
MW-A7-35	04/16/02	620	--	--	0.71	16	21	120	0.79	<2.6	<0.52	<0.52	<0.52	--	--	--
MW-A7-40	04/16/02	18	--	--	0.33	8.1	13	69	0.48[J]	<2.6	<0.51	<0.51	<0.51	--	--	--
MW-A7-45	04/16/02	16	--	--	1.2	3.9	0.77	4.1	<0.47	<2.4	<0.47	<0.47	<0.47	--	--	--
MW-A7-50	04/16/02	0.76	--	--	0.30	0.81	0.16	0.72	0.12	0.050	<0.0090	<0.0090	<0.0090	--	--	--
MW-A7-55	04/16/02	7.9	--	--	0.24	0.21	0.29	1.2	0.17	0.12	<0.010	<0.010	<0.010	--	--	--
MW-A7-60	04/16/02	<0.41	--	--	<0.0050	0.0025[J]	<0.0050	0.010	<0.010	<0.050	<0.010	<0.010	<0.010	--	--	--
MW-A7-65	04/16/02	<0.50	--	--	0.020	0.022	0.011	0.061	0.01	<0.050	<0.010	<0.010	<0.010	--	--	--

TABLE 1
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ATLANTIC RICHFIELD COMPANY STATION NO. 5110
5731 EAST FIRESTONE BOULEVARD
SOUTH GATE, CA

EPA Method:		8015B			8020/8260B										HML 939-M	SM2540G
Sample I.D.	Sample Date	TPHg mg/kg	TFH mg/kg	GRO mg/kg	B mg/kg	T mg/kg	E mg/kg	X mg/kg	MTBE mg/kg	TBA mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	ETHANOL mg/kg	LEAD mg/kg	PERCENT SOLIDS %
UST Samples																
TK-1A-17	02/07/02	1.80	--	--	0.098	0.20	0.07	0.30	<0.010	<0.010	0.02	18	1.3	--	--	--
TK-1B-17	02/07/02	4,600	--	--	6.9	69	69	340	<2.2	<2.2	<2.2	6.8[J]	8.1	--	--	--
TK-2A-17	02/07/02	17	--	--	0.29	1.2	0.30	1.8	<0.49	<0.49	<0.49	1.5[J]	3.0	--	--	--
TK-2B-17	02/07/02	1,900	--	--	1.2	6.5	24	110	<0.45	<0.45	<0.45	8.4	4.6	--	--	--
TK-3A-17	02/07/02	3,300	--	--	11	120	71	390	<2.2	<2.2	<2.2	5.9[J]	4.7	--	--	--
TK-3B-17	02/07/02	1.20	--	--	<0.27	0.33	0.14[J]	0.81	<0.54	<0.54	<0.54	23.00	1.30	--	--	--
TK-4A-17	02/07/02	8,800	--	--	16	270	130	820	<27	<27	<27	<140	<27	--	--	--
TK-4B-17	02/07/02	2.10	--	--	<0.26	0.11[J]	<0.26	0.31	<0.52	<0.52	<0.52	24	1.3	--	--	--
Dispenser Samples																
D-1-2	02/01/02	<0.50	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.010	--	--	--
D-2-2	02/01/02	<0.50	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.010	--	--	--
D-3-2	02/01/02	<0.65	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.010	--	--	--
D-4-2	02/01/02	<0.50	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.010	--	--	--
D-5-2	02/01/02	<1.6	--	--	<0.0067	<0.0067	<0.0067	<0.0067	<0.013	<0.013	<0.013	0.18	0.0099[J]	--	--	--
D-6-2	02/01/02	3,500	--	--	<0.58	3.2	4.1	360	<1.2	<1.2	<1.2	4.7[J]	2.7	--	--	--
D-7-2	02/01/02	<0.79	--	--	<0.0072	<0.0072	<0.0072	0.025	<0.014	<0.014	<0.014	<0.072	0.22	--	--	--
D-8-2	02/01/02	<1.1	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	0.18	--	--	--
D-9-2	02/01/02	<0.50	--	--	<0.0068	<0.0068	<0.0068	<0.0068	<0.014	<0.014	<0.014	<0.068	<0.014	--	--	--
Product Line Samples																
PL-1-4	02/01/02	<0.45	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.010	--	--	--
PL-2-4	02/01/02	<0.50	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	0.10	0.04	--	--	--
PL-3-3	02/01/02	<0.57	--	--	<0.0064	<0.0064	<0.0064	<0.0064	<0.013	<0.013	<0.013	<0.064	<0.013	--	--	--
PL-4-3	02/01/02	<0.57	--	--	<0.0045	<0.0045	<0.0045	<0.0045	<0.0091	<0.0091	<0.0091	<0.045	<0.0091	--	--	--
Confirmation Sample																
CS-1-5	02/04/02	3,200	--	--	<0.26	1.80	2.90	23.00	<0.53	<0.53	<0.53	2.3[J]	6.10	--	--	--
Clarifier Sample																
CL-1A-7	02/05/02	8.90	--	--	<0.0068	<0.0068	<0.0068	<0.0068	<0.014	<0.014	<0.014	0.068	<0.014	--	--	--
CL-1B-7	02/05/02	8.20	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.010	--	--	--
Shoring Boring Samples																
SB-1-10	02/07/02	<0.50	--	--	<0.0044	0.0021[J]	<0.0044	<0.0044	<0.0088	<0.0088	<0.0088	<0.044	<0.0088	--	--	--
SB-2-5	02/07/02	<0.50	--	--	<0.0045	0.020	0.0046	0.028	<0.0091	<0.0091	<0.0091	<0.045	<0.0091	--	--	--
SB-2-10	02/07/02	<0.42	--	--	<0.0050	0.10	0.019	0.120	<0.010	<0.010	<0.010	<0.050	<0.010	--	--	--
SB-2-15	02/07/02	<0.50	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.010	<0.050	<0.010	--	--	--
SB-3-5	02/07/02	<0.45	--	--	<0.0050	0.023	0.017	0.092	<0.010	<0.010	<0.010	<0.050	<0.010	--	--	--
SB-3-10	02/07/02	<0.40	--	--	<0.0041	0.0019[J]	<0.0041	0.0044	<0.0082	<0.0082	<0.0082	<0.041	<0.0082	--	--	--
SB-3-15	02/07/02	<0.45	--	--	<0.0041	<0.0041	<0.0041	<0.0041	<0.0082	<0.0082	<0.0082	<0.041	<0.0082	--	--	--
SB-4-5	02/07/02	<0.50	--	--	<0.0050	0.0023[J]	<0.0050	0.0051	<0.010	<0.010	<0.010	<0.050	<0.010	--	--	--
SB-4-10	02/07/02	<0.40	--	--	<0.0045	<0.0045	<0.0045	<0.0045	<0.0091	<0.0091	<0.0091	<0.045	<0.0091	--	--	--
SB-4-15	02/07/02	<0.43	--	--	<0.0042	<0.0042	<0.0042	<0.0042	<0.0085	<0.0085	<0.0085	<0.042	<0.0085	--	--	--
SB-5-5	02/07/02	1,200	--	--	<0.85	12	31	200	<1.7	<1.7	<1.7	<8.5	<1.7	--	--	--
SB-5-10	02/07/02	65	--	--	<0.24	0.16[J]	0.39	2.9	<0.48	<0.48	<0.48	<2.4	<0.48	--	--	--
SB-5-15	02/07/02	850	--	--	0.20[J]	7.6	14	89	<0.91	<0.91	<0.91	<4.5	0.55[J]	--	--	--

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
ATLANTIC RICHFIELD COMPANY STATION NO. 5110
5731 EAST FIRESTONE BOULEVARD
SOUTH GATE, CA

EPA Method:		8015B			8020/8260B										HML 939-M	SM2540G
Sample I.D.	Sample Date	TPHg mg/kg	TFH mg/kg	GRO mg/kg	B mg/kg	T mg/kg	E mg/kg	X mg/kg	MTBE mg/kg	TBA mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	ETHANOL mg/kg	LEAD mg/kg	PERCENT SOLIDS %
Air Sparge/Soil Vapor Extraction Well Samples																
AS/SVE-1-5	09/30/03	<1.0	--	--	<0.0018	<0.0018	<0.0018	<0.0036	<0.0045	<0.045	<0.0045	<0.0045	<0.0045	<0.27	--	--
AS/SVE-1-10	09/30/03	<1.0	--	--	0.00053[J]	<0.0018	0.01	<0.0036	0.0072	0.13	<0.0045	<0.0045	<0.0045	<0.27	--	--
AS/SVE-1-15	09/30/03	4,100	--	--	0.99[J]	22	49	350	<2.8	<56	<2.8	<2.8	<2.8	<170	--	--
AS/SVE-1-20	09/30/03	3,200	--	--	1.2	36	76	510	<2.5	<50	<2.5	<2.5	<2.5	<150	--	--
AS/SVE-1-25	09/30/03	2.1	--	--	<0.10	0.18	0.081[J]	0.59	0.37	0.76[J]	<0.25	<0.25	<0.25	<15	--	--
AS/SVE-1-30	09/30/03	1.8	--	--	1.3	14	8.4	46	1.5	<17	<0.83	<0.83	<0.83	<50	--	--
AS/SVE-1-35	09/30/03	520	--	--	0.056[J]	1.40	3.9	23	0.089[J]	<5.9	<0.30	<0.30	<0.30	<18	--	--
AS/SVE-1-40	09/30/03	0.19[J]	--	--	0.0021[J]	0.010	0.013	0.083	0.051	0.23	<0.0058	<0.0058	<0.0058	<0.35	--	--
AS/SVE-1-45	09/30/03	1.0	--	--	0.11	0.051	0.076	0.32	0.0060	<0.044	<0.0044	<0.0044	<0.0044	<0.27	--	--
AS/SVE-1-50	09/30/03	0.59[J]	--	--	0.15	0.011	0.095	0.28	0.097	0.11	0.0012[J]	<0.0044	<0.0044	<0.26	--	--
AS/SVE-1-55	09/30/03	0.26[J]	--	--	0.0014[J]	0.0037	0.014	0.028	0.026	0.061	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-1-60	09/30/03	<1.0	--	--	<0.0020	0.0020	0.0017[J]	0.011	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-1-65	09/30/03	2.9	--	--	0.23	0.53	0.21	1.2	0.14[J]	<5.0	<0.25	<0.25	<0.25	<15	--	--
AS/SVE-1-70	09/30/03	<1.0	--	--	0.041	<0.0017	<0.0017	<0.00082[J]	0.0059	<0.044	<0.0044	<0.0044	<0.0044	<0.26	--	--
AS/SVE-2-5	10/01/03	<1.0	--	--	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-2-10	10/01/03	<0.91	--	--	<0.0017	<0.0017	<0.0017	<0.0035	<0.0044	<0.044	<0.0044	<0.0044	<0.0044	<0.26	--	--
AS/SVE-2-15	10/01/03	0.14[J]	--	--	0.00063[J]	<0.0020	0.0011[J]	0.0080	0.032	1.1	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-2-20	10/01/03	3.40	--	--	<0.12	<0.12	<0.12	<0.23	<0.29	12	<0.29	<0.29	<0.29	<17	--	--
AS/SVE-2-25	10/01/03	27[J]	--	--	0.44	1.8	0.37	2.5	3.2	10	<0.22	<0.22	<0.22	<13	--	--
AS/SVE-2-30	10/01/03	43[J]	--	--	2.1	9.0	2.0	11	11	6.4	<0.25	<0.25	0.13[J]	<15	--	--
AS/SVE-2-35	10/01/03	2,500	--	--	1.5	40	65	300	0.54[J]	<28	<1.4	<1.4	<1.4	<85	--	--
AS/SVE-2-40	10/01/03	3,100	--	--	0.42[J]	21	51	290	<3.0	<60	<3.0	<3.0	<3.0	<180	--	--
AS/SVE-2-45	10/01/03	6,700	--	--	12	150	95	430	<2.5	<50	<2.5	<2.5	<2.5	<150	--	--
AS/SVE-2-50	10/01/03	25[J]	--	--	2.2	6.6	1.4	8.3	0.57	<4.5	<0.23	<0.23	<0.23	<14	--	--
AS/SVE-2-55	10/01/03	11[J]	--	--	0.32	0.046	0.17	0.58	0.21	0.73	0.0026[J]	<0.0050	0.00088[J]	<0.30	--	--
AS/SVE-2-60	10/01/03	<1.0	--	--	0.0029	0.0079	0.0040	0.022	0.0055	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-2-65	10/01/03	<1.0	--	--	0.0022	<0.0020	<0.0020	<0.0040	0.015	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-2-70	10/01/03	0.33[J]	--	--	0.14	0.13	0.10	0.48	0.027	0.056	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-3-5	10/04/03	500	--	--	0.22	<0.12	4.1	3.4	<0.30	<6.0	<0.30	<0.30	<0.30	<18	--	--
AS/SVE-3-10	10/04/03	0.48[J]	--	--	0.053	<0.0016	0.047	0.053	<0.0040	0.013[J]	<0.0040	<0.0040	<0.0040	<0.24	--	--
AS/SVE-3-15	10/04/03	0.31[J]	--	--	0.0032	0.0059	0.0023	0.11	0.025	0.013[J]	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-3-20	10/04/03	0.22[J]	--	--	0.00060[J]	0.0015[J]	<0.0024	0.0030[J]	0.0042[J]	<0.060	<0.0060	<0.0060	<0.0060	<0.36	--	--
AS/SVE-3-25	10/04/03	80	--	--	1.6	3.8	0.59	3.3	0.45	<5.0	<0.25	<0.25	<0.25	<15	--	--
AS/SVE-3-30	10/04/03	<1.2	--	--	0.0025	0.011	0.0031	0.022	0.022	0.011[J]	<0.0056	<0.0056	<0.0056	<0.34	--	--
AS/SVE-3-35	10/04/03	0.15[J]	--	--	0.00087[J]	0.0036	0.0013[J]	0.0084	0.017	0.011[J]	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-3-40	10/04/03	0.69[J]	--	--	0.053	0.057	0.023	0.11	0.17	0.058	<0.0050	<0.0050	0.0010[J]	<0.30	--	--
AS/SVE-3-45	10/04/03	0.56[J]	--	--	0.036	0.014	0.024	0.10	<0.0039	<0.039	<0.0039	<0.0039	<0.0039	<0.23	--	--
AS/SVE-3-50	10/04/03	<43	--	--	0.48	0.75	0.18	0.57	0.061[J]	<4.3	<0.21	<0.21	<0.21	<13	--	--
AS/SVE-3-55	10/04/03	1.4	--	--	0.14	0.16	0.093	0.45	0.16	0.081	0.00073[J]	<0.0042	0.00073[J]	<0.25	--	--
AS/SVE-3-60	10/04/03	0.35[J]	--	--	0.024	0.020	0.015	0.059	<0.0050	0.022[J]	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-3-65	10/04/03	<0.87	--	--	0.0029	<0.0020	<0.0020	0.0014[J]	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-3-70	10/04/03	0.12[J]	--	--	0.0051	0.0068	0.0027	0.011	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
ATLANTIC RICHFIELD COMPANY STATION NO. 5110
5731 EAST FIRESTONE BOULEVARD
SOUTH GATE, CA

EPA Method:		8015B			8020/8260B										HML 939-M	SM2540G
Sample I.D.	Sample Date	TPHg mg/kg	TFH mg/kg	GRO mg/kg	B mg/kg	T mg/kg	E mg/kg	X mg/kg	MTBE mg/kg	TBA mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	ETHANOL mg/kg	LEAD mg/kg	PERCENT SOLIDS %
AS/SVE-4-5	09/30/03	0.79[J]	--	--	<0.10	<0.10	0.075[J]	0.86	<0.25	<5.0	<0.25	<0.25	<0.25	<15	--	--
AS/SVE-4-10	09/30/03	2,700	--	--	0.91[J]	32	54	320	<2.5	<50	<2.5	<2.5	<2.5	<150	--	--
AS/SVE-4-15	09/30/03	3,100	--	--	1.4	45	41	220	<2.1	<43	<2.1	<2.1	<2.1	<130	--	--
AS/SVE-4-20	09/30/03	0.16[J]	--	--	0.0012[J]	0.023	0.022	0.14	0.0022	0.072	<0.0062	<0.0062	<0.0062	<0.37	--	--
AS/SVE-4-25	09/30/03	1,100	--	--	<0.46	8.9	15	84	<1.2	<23	<1.2	<1.2	<1.2	<69	--	--
AS/SVE-4-30	09/30/03	1.8	--	--	2.6	9.4	2.3	12	0.80	<8.9	<0.44	<0.44	<0.44	<27	--	--
AS/SVE-4-35	09/30/03	<1.1	--	--	0.011	0.026	0.0099	0.059	0.068	0.23	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-4-40	09/30/03	<1.1	--	--	<0.0024	<0.0024	<0.0024	0.0022[J]	0.012	0.63	<0.0059	<0.0059	<0.0059	<0.36	--	--
AS/SVE-4-45	09/30/03	1.3	--	--	0.12	0.081	0.028	0.16	0.29	0.22	0.0011[J]	<0.0050	0.0010[J]	<0.30	--	--
AS/SVE-4-50	09/30/03	0.18[J]	--	--	0.031	0.0041	0.0041	0.023	0.0011[J]	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-4-55	09/30/03	0.56[J]	--	--	0.085	0.0062	0.029	0.16	0.011	<0.050	0.00053[J]	<0.0050	<0.0050	<0.30	--	--
AS/SVE-4-60	09/30/03	1.3	--	--	0.48	<0.090	0.16	0.45	0.058[J]	<4.5	<0.23	<0.23	<0.23	<14	--	--
AS/SVE-4-65	09/30/03	<1.0	--	--	0.018	0.0035	0.0086	0.026	0.0019[J]	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-4-70	09/30/03	0.29[J]	--	--	0.0011[J]	0.0014[J]	0.0020	0.012	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-5-5	09/29/03	<1.2	--	--	<0.0023	<0.0023	<0.0023	<0.0046	<0.0057	<0.057	<0.0057	<0.0057	<0.0057	<0.34	--	--
AS/SVE-5-10	09/29/03	<0.90	--	--	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-5-15	09/29/03	<0.85	--	--	<0.0017	<0.0017	<0.0017	<0.0034	<0.0043	<0.043	<0.0043	<0.0043	<0.0043	<0.26	--	--
AS/SVE-5-20	09/29/03	<1.0	--	--	<0.0020	<0.0020	<0.0020	0.0014[J]	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-5-25	09/29/03	<1.1	--	--	<0.0024	<0.0024	<0.0024	<0.0047	<0.0059	<0.059	<0.0059	<0.0059	<0.0059	<0.35	--	--
AS/SVE-5-30	09/29/03	<1.0	--	--	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-5-35	09/29/03	<1.0	--	--	0.00076[J]	<0.0022	<0.0022	0.00089[J]	0.0035[J]	<0.056	<0.0056	<0.0056	<0.0056	<0.33	--	--
AS/SVE-5-40	09/29/03	<1.0	--	--	0.0011[J]	<0.0020	0.0013[J]	0.0026[J]	0.0061	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-5-45	09/29/03	<1.0	--	--	0.0024	<0.0020	0.0038	0.0072	0.017	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-5-50	09/29/03	0.14[J]	--	--	0.028	<0.0020	0.0063	0.013	0.0098	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-5-55	09/29/03	<1.0	--	--	0.00089[J]	<0.0020	<0.0020	<0.0040	0.045	0.026[J]	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-5-60	09/29/03	<1.0	--	--	0.0074	<0.0020	0.0038	<0.0040	0.079	0.060	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-5-65	09/29/03	0.28[J]	--	--	0.19	0.011	0.027	0.039	0.0062	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
AS/SVE-5-70	09/29/03	<0.89	--	--	<0.0017	<0.0017	<0.0017	<0.0035	0.0024[J]	<0.044	<0.0044	<0.0044	<0.0044	<0.26	--	--
MW-A8-5	10/12/05	--	--	<0.32	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
MW-A8-10	10/12/05	--	--	<0.32	<0.0016	<0.0016	<0.0016	<0.0032	<0.0040	<0.040	<0.0040	<0.0040	<0.0040	<0.24	--	--
MW-A8-15	10/12/05	--	--	4.7[J]	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
MW-A8-20	10/12/05	--	--	<0.40	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
MW-A8-25	10/12/05	--	--	<0.34	<0.0017	<0.0017	<0.0017	<0.0034	<0.0042	<0.042	<0.0042	<0.0042	<0.0042	<0.25	--	--
MW-A8-30	10/12/05	--	--	<0.36	<0.0018	<0.0018	<0.0018	<0.0035	<0.0044	<0.044	<0.0044	<0.0044	<0.0044	<0.26	--	--
MW-A8-35	10/12/05	--	--	<0.31	<0.0016	<0.0016	<0.0016	<0.0033	<0.0041	<0.041	<0.0041	<0.0041	<0.0041	<0.25	--	--
MW-A8-40	10/12/05	--	--	<0.36	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	<0.050	<0.0050	<0.0050	<0.0050	<0.30	--	--
MW-A8-45	10/12/05	--	--	<0.31	<0.0017	<0.0017	<0.0017	<0.0033	<0.0042	<0.042	<0.0042	<0.0042	<0.0042	<0.25	--	--
MW-A8-50	10/12/05	--	--	<0.32	<0.0017	<0.0017	<0.0017	<0.0034	<0.0042	<0.042	<0.0042	<0.0042	<0.0042	<0.25	--	--
MW-A8-55	10/12/05	--	--	<0.35	<0.0018	<0.0018	<0.0018	<0.0035	<0.0044	<0.044	<0.0044	<0.0044	<0.0044	<0.27	--	--
MW-A8-60	10/12/05	--	--	<0.34	<0.0020	<0.0020	<0.0020	<0.0040	0.0047[J]	0.013[J]	<0.0050	<0.0050	<0.0050	<0.30	--	--

TABLE 1
HISTORICAL SOIL ANALYTICAL RESULTS
ATLANTIC RICHFIELD COMPANY STATION NO. 5110
5731 EAST FIRESTONE BOULEVARD
SOUTH GATE, CA

EPA Method:		8015B			8020/8260B										HML 939-M	SM2540G
Sample I.D.	Sample Date	TPHg mg/kg	TFH mg/kg	GRO mg/kg	B mg/kg	T mg/kg	E mg/kg	X mg/kg	MTBE mg/kg	TBA mg/kg	DIPE mg/kg	ETBE mg/kg	TAME mg/kg	ETHANOL mg/kg	LEAD mg/kg	PERCENT SOLIDS %
MW-A8-65	10/12/05	--	--	<0.33	0.00080 J	<0.0020	<0.0020	<0.0040	0.0067	0.021 J	<0.0050	<0.0050	<0.0050	<0.30	--	--
MW-A8-70	10/12/05	--	--	<0.34	<0.0017	<0.0017	<0.0017	<0.0034	0.0012 J	<0.042	<0.0042	<0.0042	<0.0042	<0.25	--	--
MW-A8-75	10/12/05	--	--	<0.31	<0.0016	<0.0016	<0.0016	<0.0031	<0.0039	<0.039	<0.0039	<0.0039	<0.0039	<0.23	--	--
MW-A8-80	10/12/05	--	--	<0.40	<0.0016	<0.0016	<0.0016	<0.0032	<0.0040	0.018 J	<0.0040	<0.0040	<0.0040	<0.24	--	--
MW-A8-85	10/12/05	--	--	<0.35	<0.0018	<0.0018	<0.0018	<0.0036	<0.0045	0.014 J	<0.0045	<0.0045	<0.0045	<0.27	--	--
MW-A8-90	10/12/05	--	--	<0.32	<0.0020	<0.0020	<0.0020	<0.0040	<0.0050	0.095	<0.0050	<0.0050	<0.0050	<0.30	--	--
DW-1-S-55	12/11/08	--	--	<0.31	<0.0020	<0.0020	<0.0020	<0.0040	0.032	<0.050	<0.0050	<0.0050	<0.0050	<0.30	<0.025	91
DW-1-S-65	12/11/08	--	--	<0.35	0.00081 J	<0.0017	<0.0017	<0.0034	0.0047	<0.042	<0.0042	<0.0042	<0.0042	<0.25	<0.025	76
DW-1-S-70	12/11/08	--	--	<0.36	<0.0017	<0.0017	<0.0017	<0.0034	0.013	0.011 J	<0.0043	<0.0043	<0.0043	<0.26	<0.025	81
DW-2-S-55	12/10/08	--	--	1.2	0.250	0.0094	0.130	0.130	<0.0043	0.018 J	<0.0043	<0.0043	<0.0043	<0.26	<0.025	79
DW-2-S-60	12/10/08	--	--	<18	1.10	1.40	0.21	0.77	<0.21	<4.2	<0.21	<0.21	<0.21	<13	<0.025	81
DW-2-S-70	12/10/08	--	--	<0.33	0.0016	0.0015 J	<0.0016	<0.0032	<0.0040	0.013 J	<0.0040	<0.0040	<0.0040	<0.24	<0.025	80
DW-3-S-50	12/18/08	--	--	<0.34	<0.0017	<0.0017	<0.0017	<0.0033	<0.0041	<0.041	<0.0041	<0.0041	<0.0041	<0.25	<0.025	87
DW-3-S-60	12/18/08	--	--	0.70	0.34	0.0036	0.060	0.14	<0.0047	<0.047	<0.0047	<0.0047	<0.0047	<0.28	<0.025	82
DW-3-S-70	12/18/08	--	--	<0.37	<0.0017	<0.0017	<0.0017	<0.0035	<0.0044	0.092	<0.0044	<0.0044	<0.0044	<0.26	<0.025	80
DW-4-S-30	12/12/08	--	--	1.8	0.026	0.087	0.096	0.66	0.054	1.5	<0.0041	<0.0041	0.0024 J	<0.24	<0.025	84
DW-4-S-55	12/12/08	--	--	0.81	0.011	0.00041 J	0.036	0.069	0.043	0.0084 J	<0.0041	<0.0041	<0.0041	<0.25	<0.025	83
DW-4-S-65	12/12/08	--	--	<0.40	0.017	<0.0018	0.0045	<0.0036	<0.0045	<0.045	<0.0045	<0.0045	<0.0045	<0.27	<0.025	74
DW-4-S-70	12/12/08	--	--	0.14 J	0.025	0.00083 J	0.0062	0.0067	0.0016 J	0.013 J	<0.0046	<0.0046	<0.0046	<0.28	<0.025	81

Notes:
mg/kg- Milligrams per kilogram
TPHg - Total petroleum hydrocarbons as gasoline
TFH - Total fuel hydrocarbons
GRO - Gasoline Range Organics (C4-C14)
B - Benzene
T - Toluene
E - Ethylbenzene
X - Total xylenes
Prior to 6/22/90 EPA Method 8020 used for BTEX Analysis

-- - Not Analyzed
TBA - Tertiary butanol
DIPE - Di-isopropyl ether
ETBE - Ethyl-tertiary-butyl ether
TAME - Tertiary-amyl-methyl ether
MTBE - Methyl-tertiary-butyl ether
J- estimated value: below the reporting limit and above the method detection limit
<0.0050 - Below reporting limit and method detection limit

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
D-1	06/27/90		107.62	57.06	0.00	50.56	1,600	800	300	77	370	-	-	-	-	-	-	
	06/29/93			56.15	0.00	51.47	1,100	330	45	62	87	-	-	-	-	-	-	
	09/20/93			55.17	0.00	52.45	13,000	1,700	290	430	480	-	-	-	-	-	-	
	11/15/93			54.59	0.00	53.03	8,400	2,400	430	690	1,200	-	-	-	-	-	-	
	04/18/94			51.86	0.00	55.76	7,800	1,400	330	610	1,500	-	-	-	-	-	-	
	11/04/94			50.83	0.00	56.79	15,000	2,400	230	1,400	2,900	-	-	-	-	-	-	
	03/20/95			49.63	0.00	57.99	12,000	1,900	520	240	1,800	-	-	-	-	-	-	
	04/13/95			49.55	0.00	58.07	15,000	1,600	420	1,200	2,000	-	-	-	-	-	-	
	09/08/95			48.14	0.00	59.48	11,000	1,500	220	900	1,300	-	-	-	-	-	-	
	11/15/95			47.87	0.00	59.75	10,000	1,600	310	1,200	1,600	-	-	-	-	-	-	
	01/22/96			50.10	0.00	57.52	3,400	680	51	350	290	-	-	-	-	-	-	
	04/30/96			46.89	0.00	60.73	7,800	1,200	110	930	1,100	-	-	-	-	-	-	
	07/31/96			46.76	0.00	60.86	14,000	1,900	580	1,200	2,600	3,300	-	-	-	-	-	
	11/22/96			46.64	0.00	60.98	12,000	1,500	2,100	620	3,100	790	-	-	-	-	-	
	03/14/97			45.71	0.00	61.91	6,200	780	270	550	1,100	650	-	-	-	-	-	
	05/05/97			45.51	0.00	62.11	2,100	250	53	170	240	200	-	-	-	-	-	
	07/22/97			45.52	0.00	62.10	870	130	2.2	98	95	120	-	-	-	-	-	
	10/10/97			45.68	0.00	61.94	70	8.0	0.78	5.4	9.5	<10	-	-	-	-	-	
	01/30/98			45.35	0.00	62.27	10,000	1,300	350	910	2,600	770	-	-	-	-	-	
	06/05/98			44.34	0.00	63.28	11,000	1,100	150	580	1,800	630	-	-	-	-	-	
	09/14/98			43.70	0.00	63.92	11,000	1,100	150	690	1,700	770	-	-	-	-	-	
	12/18/98			43.40	0.00	64.22	16,000	1,800	520	1,100	3,500	1,300	-	-	-	-	-	
	02/15/99			43.45	0.00	64.17	23,000	2,700	810	1,600	5,300	1,900	-	-	-	-	-	
	05/12/99			43.35	0.00	64.27	18,000	2,200	440	1,300	3,300	1,600	-	-	-	-	-	
	09/29/99			43.24	0.00	64.38	13,000	2,000	1,200	970	3,400	1,900	-	-	-	-	-	
	09/29/99	DUP		-	-	-	13,000	2,100	1,300	1,000	3,500	1,900	-	-	-	-	-	
	12/07/99			45.85	0.00	61.77	5,500	650	210	200	580	11,000	-	-	-	-	-	
	03/21/00		107.65	45.25	0.00	62.40	11,000	1,200	230	690	2,100	2,000	-	-	-	-	-	
	06/14/00			45.69	0.00	61.96	21,000	2,500	490	1,300	4,000	2,300	<1,000	<100	<100	<100	-	
	08/23/00			45.64	0.00	62.01	9,300	2,100	240	950	2,400	1,700	630 J	13 J	<100	12 J	-	
	12/08/00			46.70	0.00	60.95	3,800	490	44	240	500	540	200	3.1 J	<10	2.5 J	-	
	02/15/01			46.89	0.00	60.76	14,000	2,400	380	1,000	4,100	4,000	1,100	<50	<50	<50	-	
	06/14/01			46.98	0.00	60.67	340	25	<1.5	2.6	13	160	78	<5.0	<5.0	<5.0	-	
	09/14/01			47.64	0.00	60.01	250	9.7	4.0	2.2	4.3	180	76	1.6 J	<5.0	<5.0	-	
	12/07/01			48.04	0.00	59.61	7,700	1,800	330	630	1,700	1,100	600	5.4 J	<12	3.9 J	-	
	03/28/02	ABN		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DW-1	02/10/09		108.90	53.63	0.00	55.27	870	480	<20	<20	<40	30 J	190 J	<50	<50	<50	<1,500	
	05/12/09	GAU		53.41	0.00	55.49	-	-	-	-	-	-	-	-	-	-	-	
	08/11/09	GAU		53.61	0.00	55.29	-	-	-	-	-	-	-	-	-	-	-	
	02/17/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
DW-1	05/11/10	INACT	108.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08/10/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/09/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02/09/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/10/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08/09/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/08/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02/07/12	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/08/12	GAU		56.69	0.00	52.21	-	-	-	-	-	-	-	-	-	-	-	
	08/07/12	GAU		56.69	0.00	52.21	-	-	-	-	-	-	-	-	-	-	-	
	11/06/12	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02/12/13	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DW-2	02/10/09		110.89	53.96	0.00	56.93	43,000	4,200	5,000	850	3,100	<500	<5,000	<500	<500	<500	<15,000	
	05/12/09	GAU		53.94	0.00	56.95	-	-	-	-	-	-	-	-	-	-	-	
	08/11/09	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02/17/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/11/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08/10/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/09/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02/09/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/10/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08/09/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/08/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02/07/12	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/08/12	GAU		57.45	0.00	53.44	-	-	-	-	-	-	-	-	-	-	-	
	08/07/12	GAU		57.45	0.00	53.44	-	-	-	-	-	-	-	-	-	-	-	
	11/06/12	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02/12/13	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DW-3	02/10/09		108.66	52.63	0.00	56.03	5,100	1,200	17 J	310	260	73 J	160 J	<120	<120	<120	<3,800	
	05/12/09	GAU		53.16	0.00	55.50	-	-	-	-	-	-	-	-	-	-	-	
	08/11/09	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02/17/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/11/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08/10/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/09/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02/09/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/10/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08/09/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/08/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02/07/12	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
DW-3	05/08/12	GAU	108.66	55.72	0.00	52.94	-	-	-	-	-	-	-	-	-	-	-	
	08/07/12	GAU		55.72	0.00	52.94	-	-	-	-	-	-	-	-	-	-	-	
	11/06/12	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02/12/13	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DW-4	02/10/09		110.94	54.67	0.00	56.27	14,000	3,300	56 J	850	1,100	68 J	<2,500	<250	<250	<250	<7,500	
	05/12/09	GAU		54.65	0.00	56.29	-	-	-	-	-	-	-	-	-	-	-	
	08/11/09	GAU		55.05	0.00	55.89	-	-	-	-	-	-	-	-	-	-	-	
	02/17/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/11/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08/10/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/09/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02/09/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/10/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	08/09/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/08/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02/07/12	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/08/12	GAU		57.72	0.00	53.22	-	-	-	-	-	-	-	-	-	-	-	
	08/07/12	GAU		57.72	0.00	53.22	-	-	-	-	-	-	-	-	-	-	-	
	11/06/12	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	02/12/13	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-A1	01/30/98		107.68	44.38	0.00	63.30	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	
	06/05/98			43.30	0.00	64.38	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	
	09/14/98			42.75	0.00	64.93	<50	<0.30	<0.30	<0.30	<0.60	<10	-	-	-	-	-	
	12/18/98			42.65	0.00	65.03	<50	<0.30	<0.30	<0.30	0.93	<10	-	-	-	-	-	
	02/15/99			42.80	0.00	64.88	64	1.0	8.3	1.7	11	<10	-	-	-	-	-	
	05/12/99			42.90	0.00	64.78	<50	<0.3	<0.3	<0.3	<0.6	<10	-	-	-	-	-	
	09/29/99			43.95	0.00	63.73	<50	<2.0	<2.0	<2.0	<4.0	<5.0	-	-	-	-	-	
	12/07/99			44.45	0.00	63.23	<50	<2.0	<2.0	<2.0	<4.0	<5.0	-	-	-	-	-	
	03/21/00		105.52	44.47	0.00	61.05	<50	<2.0	<2.0	<2.0	<4.0	<5.0	-	-	-	-	-	
	06/14/00	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	Paved over
	08/23/00	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	Paved over
	12/08/00			46.30	0.00	59.22	50	1.5	<0.30	0.33	<0.60	<5.0	<50	<5.0	<5.0	<5.0	-	
	02/15/01			46.45	0.00	59.07	<50	<0.30	<0.30	<0.30	0.99	<5.0	<50	<5.0	<5.0	<5.0	-	
	06/14/01			46.65	0.00	58.87	<50	<0.30	<0.30	0.50	<0.60	<5.0	<50	<5.0	<5.0	<5.0	-	
	09/14/01			47.25	0.00	58.27	22 J	<0.30	0.23 J	0.32	0.54 J	4.9 J	5.8 J	<5.0	<5.0	<5.0	-	
	12/07/01			47.68	0.00	57.84	<100	<5.0	<5.0	<5.0	1.1 J	8.0	9.5 J	<5.0	<5.0	<5.0	-	
	03/28/02			47.71	0.00	57.81	<100	<5.0	<5.0	<5.0	<5.0	19	15 J	<5.0	<5.0	<5.0	-	
	06/06/02		107.69	47.93	0.00	59.76	30 J	<2.0	<2.0	<2.0	<4.0	11	20 J	<5.0	<5.0	<5.0	-	
	09/05/02			48.75	0.00	58.94	28 J	<2.0	<2.0	<2.0	<4.0	18	21 J	<5.0	<5.0	<5.0	-	
	12/05/02			49.35	0.00	58.34	50	<2.0	<2.0	<2.0	<4.0	18	28 J	<5.0	<5.0	<5.0	-	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-A1	02/18/03		107.69	49.61	0.00	58.08	23 J	<2.0	<2.0	<2.0	<4.0	12	17 J	0.91 J	<5.0	<5.0	<150	
	05/19/03			49.71	0.00	57.98	29 J	<2.0	<2.0	<2.0	<4.0	14	20 J	1.6 J	<5.0	<5.0	<150	
	08/19/03			49.98	0.00	57.71	<50	<2.0	<2.0	<2.0	<4.0	7.2	7.5 J	1.0 J	<5.0	<5.0	<150	
	11/18/03			50.42	0.00	57.27	26 J	<2.0	<2.0	<2.0	<4.0	4.8 J	6.5 J	0.58 J	<5.0	<5.0	<150	
	02/24/04			50.70	0.00	56.99	<50	<2.0	<2.0	<2.0	<4.0	2.7 J	5.4 J	0.69 J	<5.0	<5.0	<150	
	05/25/04			51.01	0.00	56.68	<50	0.94 J	<2.0	<2.0	<4.0	4.1 J	<50	0.56 J	<5.0	<5.0	<150	
	08/24/04			51.57	0.00	56.12	25 J	1.4 J	0.55 J	0.26 J	0.74 J	2.0 J	<50	0.39 J	<5.0	<5.0	<150	
	11/16/04			52.18	0.00	55.51	<50	4.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	02/08/05			52.00	0.00	55.69	22 J	1.8 J	<2.0	0.42 J	1.5 J	0.86 J	<50	<5.0	<5.0	<5.0	<150	
	05/03/05			52.26	0.00	55.43	<50	1.6 J	<2.0	0.34 J	0.56 J	1.2 J	<50	0.35 J	<5.0	<5.0	<150	
	08/02/05			52.14	0.00	55.55	<50	1.1 J	<2.0	<2.0	<4.0	2.3 J	<50	0.69 J	<5.0	<5.0	<150	
	11/01/05			51.74	0.00	55.95	28 J	1.5 J	<2.0	0.35 J	0.61 J	2.2 J	5.5 J	0.58 J	<5.0	<5.0	<150	
	01/31/06			51.39	0.00	56.30	32 J	<2.0	<2.0	<2.0	<4.0	1.8 J	8.9 J	0.44 J	<5.0	<5.0	<150	
	05/02/06			50.95	0.00	56.74	33 J	1.6 J	<2.0	0.35 J	<4.0	3.0 J	15 J	0.70 J	<5.0	<5.0	<150	
	08/01/06			50.63	0.00	57.06	46 J	0.78 J	<2.0	<2.0	<4.0	4.0 J	19 J	0.93 J	<5.0	<5.0	<150	
	11/07/06			50.21	0.00	57.48	36 J	2.0	<2.0	0.47 J	<4.0	3.7 J	25 J	0.91 J	<5.0	<5.0	<150	
	02/13/07			50.24	0.00	57.45	34 J	2.7	1.0 J	0.76 J	1.2 J	6.2	17 J	1.1 J	<5.0	<5.0	<150	
	05/01/07			50.14	0.00	57.55	43 J	2.6	<2.0	0.49 J	<4.0	7.1	16 J	1.2 J	<5.0	<5.0	<150	
	08/07/07			50.29	0.00	57.40	33 J	2.8	<2.0	<2.0	<4.0	7.7	16 J	1.2 J	<5.0	<5.0	<150	
	11/14/07			50.61	0.00	57.08	31 J	1.6 J	0.58 J	0.29 J	<4.0	8.2	25 J	1.2 J	<5.0	<5.0	<150	
	11/14/07	DUP		-	-	-	<50	1.5 J	0.60 J	<2.0	<4.0	9.2	24 J	1.3 J	<5.0	<5.0	<150	
	02/12/08			50.68	0.00	57.01	36 J	0.30 J	<2.0	<2.0	<4.0	6.8	28 J	1.1 J	<5.0	<5.0	<150	
	05/13/08			51.01	0.00	56.68	30 J	<2.0	<2.0	<2.0	<4.0	11	12 J	1.6 J	<5.0	<5.0	<150	
	08/12/08			51.18	0.00	56.51	34 J	<2.0	<2.0	<2.0	<4.0	9.8	10 J	1.4 J	<5.0	<5.0	<150	
	11/11/08	INA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	well paved over
	02/10/09			52.70	0.00	54.99	40 J	<2.0	<2.0	<2.0	<4.0	5.7	10 J	0.55 J	<5.0	<5.0	<150	
	05/12/09			52.90	0.00	54.79	64	<2.0	<2.0	<2.0	<4.0	5.9	6.9 J	0.35 J	<5.0	<5.0	<150	
	08/11/09			53.58	0.00	54.11	34 J	<2.0	<2.0	<2.0	<4.0	6.1	8.0 J	0.25 J	<5.0	<5.0	<150	
	02/17/10			54.82	0.00	52.87	60	<2.0	<2.0	<2.0	<4.0	9.3	7.2 J	<5.0	<5.0	<5.0	<150	
	05/11/10	MD		55.31	0.00	52.38	-	-	-	-	-	-	-	-	-	-	-	
	05/13/10			-	-	-	110	<2.0	<2.0	<2.0	<4.0	7.3	<50	<5.0	<5.0	<5.0	<150	
	08/10/10			55.42	0.00	52.27	77	<2.0	<2.0	<2.0	<4.0	5.4	<50	<5.0	<5.0	<5.0	<150	
	11/09/10	MD		56.13	0.00	51.56	-	-	-	-	-	-	-	-	-	-	-	
	11/11/10			-	-	-	64	0.72 J	<2.0	<2.0	<4.0	4.6 J	<50	<5.0	<5.0	<5.0	<150	
	02/09/11			56.55	0.00	51.14	37 J	0.99 J	1.6 J	<2.0	0.98 J	1.6 J	6.7 J	<5.0	<5.0	<5.0	<150	
	05/10/11	MD		56.84	0.00	50.85	-	-	-	-	-	-	-	-	-	-	-	
	05/11/11			-	-	-	210	5.2	<2.0	0.45 J	<4.0	3.1 J	<50	<5.0	<5.0	<5.0	<150	
	08/09/11			56.71	0.00	50.98	210	29	0.61	4.5	<4.0	2.3	<10	<0.50	<0.50	<0.50	<150	
	11/08/11	MD		56.71	0.00	50.98	-	-	-	-	-	-	-	-	-	-	-	
	11/09/11			-	-	-	350	36	0.41 J	3.5	<4.0	1.6	<10	<0.50	<0.50	<0.50	<150	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-A1	02/07/12		107.69	56.40	0.00	51.29	440	45	0.36 J	2.3	<4.0	1.2	<10	<0.50	<0.50	<0.50	<150	
	05/08/12	MD		56.01	0.00	51.68	-	-	-	-	-	-	-	-	-	-	-	
	05/09/12			-	-	-	140	23	0.85	0.48 J	1.6 J	0.49 J	<10	<0.50	<0.50	<0.50	<150	
	08/07/12			55.91	0.00	51.78	220	26	<0.50	<0.50	<4.0	0.38 J	<10	<0.50	<0.50	<0.50	<150	
	11/06/12	MD		56.01	0.00	51.68	-	-	-	-	-	-	-	-	-	-	-	
	11/07/12			-	-	-	200	11	<0.50	<0.50	<4.0	0.38 J	<10	<0.50	<0.50	<0.50	<150	
	02/12/13			56.35	0.00	51.34	150	5.1	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
MW-A2	01/30/98		107.91	41.76	0.00	66.15	390	15	3.0	1.6	3.2	<10	-	-	-	-	-	
	06/05/98			38.90	0.00	69.01	190	7.8	<0.30	1.3	3.4	13	-	-	-	-	-	
	09/14/98			38.90	0.00	69.01	220	12	0.68	1.3	2.2	<10	-	-	-	-	-	
	12/18/98			37.30	0.00	70.61	250	9.7	1.4	1.4	2.5	<20	-	-	-	-	-	
	02/15/99			36.85	0.00	71.06	350	15	6.6	2.9	12	12	-	-	-	-	-	
	05/12/99			36.45	0.00	71.46	310	7.5	1.5	0.93	2.1	<10	-	-	-	-	-	
	09/29/99			36.57	0.00	71.34	<50	7.6	<2.0	<2.0	<4.0	<10	-	-	-	-	-	
	12/07/99			39.61	0.00	68.30	98	4.9	<2.0	<2.0	<4.0	<5.0	-	-	-	-	-	
	03/21/00		105.25	37.37	0.00	67.88	84	3.9	<2.0	<2.0	<4.0	<5.0	-	-	-	-	-	
	06/14/00			37.95	0.00	67.30	50	2.8	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	
	08/23/00			38.04	0.00	67.21	<500	2.6	0.34 J	0.42 J	1.2 J	<5.0	<50	<5.0	<5.0	<5.0	-	
	12/08/00			38.95	0.00	66.30	77	2.3	0.70	0.52	1.6	<5.0	<50	<5.0	<5.0	<5.0	-	
	02/15/01			46.42	0.00	58.83	<50	1.2	<0.30	<0.30	<0.60	<5.0	<50	<5.0	<5.0	<5.0	-	
	06/14/01			39.45	0.00	65.80	<50	0.66	<0.30	<0.30	<0.60	<5.0	<50	<5.0	<5.0	<5.0	-	
	09/14/01			40.86	0.00	64.39	24 J	0.35	0.63	0.15 J	<0.60	<5.0	<50	<5.0	<5.0	<5.0	-	
	12/07/01			44.18	0.00	61.07	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	-	
	03/28/02			45.36	0.00	59.89	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	-	
	03/28/02	DUP	107.40	-	-	-	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	-	
	06/06/02			43.87	0.00	63.53	53	<2.0	0.26 J	<2.0	0.38 J	<5.0	<50	<5.0	<5.0	<5.0	-	
	06/06/02	DUP		-	-	-	12 J	<2.0	0.14 J	<2.0	0.22 J	<5.0	<50	<5.0	<5.0	<5.0	-	
	09/05/02			51.20	0.00	56.20	11 J	<2.0	<2.0	<2.0	0.19 J	<5.0	<50	<5.0	<5.0	<5.0	-	
	12/05/02			45.85	0.00	61.55	34 J	13	<2.0	4.9	0.55 J	2.9 J	2.0 J	<5.0	<5.0	<5.0	-	
	02/18/03			47.68	0.00	59.72	26 J	5.6	<2.0	2.3	<4.0	0.72 J	<50	<5.0	<5.0	<5.0	<150	
	05/19/03			48.51	0.00	58.89	97	19	0.61 J	12	<4.0	1.8 J	<50	<5.0	<5.0	<5.0	<150	
	08/19/03			49.05	0.00	58.35	57	13	0.41 J	5.4	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	11/18/03			49.46	0.00	57.94	740	270	25	72	21	1.2 J	<50	<5.0	<5.0	<5.0	<150	
	02/24/04			49.85	0.00	57.55	2,700	920	34	200	150	<50	<500	<50	<50	<50	<1,500	
	05/25/04			50.13	0.00	57.27	7,000	2,100	460	420	990	<200	<2,000	<200	<200	<200	<6,000	
	08/24/04			51.03	0.00	56.37	4,300	1,500	260	230	440	<200	<2,000	<200	<200	<200	<6,000	
	11/16/04			51.43	0.00	55.97	2,200	330	46	61	130	<20	<200	<20	<20	<20	<600	
	02/08/05			51.10	0.00	56.30	2,100	290	15	50	100	<20	<200	<20	<20	<20	<600	
	05/03/05			51.39	0.00	56.01	7,100	3,000	43 J	560	1,200	<250	<2,500	<250	<250	<250	<7,500	
	08/02/05			51.39	0.00	56.01	15,000	3,700	36 J	620	1,100	<250	600 J	<250	<250	<250	<7,500	

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5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-A2	11/01/05		107.40	50.88	0.00	56.52	3,200	1,800	25	300	480	<50	<500	<50	<50	<50	<1,500	
	01/31/06			50.50	0.00	56.90	3,400	3,700	32 J	510	240	<200	<2,000	<200	<200	<200	<6,000	
	05/02/06			50.15	0.00	57.25	630	680	<100	44 J	<200	3,100	5,300	<250	<250	22 J	<7,500	
	08/01/06			49.82	0.00	57.58	2,900	1,500	6.4 J	150	110	<50	<500	<50	<50	<50	<1,500	
	11/07/06			49.60	0.00	57.80	6,400	3,200	<100	210	110 J	<250	<2,500	<250	<250	<250	<7,500	
	02/13/07			49.40	0.00	58.00	4,200	2,100	8.2	210	240	<20	<200	<20	<20	<20	<600	
	05/01/07			49.36	0.00	58.04	4,300	2,800	<80	250	<160	<200	<2,000	<200	<200	<200	<6,000	
	08/07/07			49.53	0.00	57.87	4,300	2,300	<100	<100	<200	<250	<2,500	<250	<250	<250	<7,500	
	11/14/07			49.80	0.00	57.60	9,300	2,700	<100	280	160 J	<250	<2,500	<250	<250	<250	<7,500	
	02/12/08			49.82	0.00	57.58	3,700	2,100	<80	130	<160	<200	<2,000	<200	<200	<200	<6,000	
	05/13/08			50.13	0.00	57.27	270	130	<4.0	5.7	<8.0	<10	<100	<10	<10	<10	<300	
	08/12/08			50.40	0.00	57.00	460	330	<8.0	23	<16	<20	<200	<20	<20	<20	<600	
	11/11/08			51.32	0.00	56.08	310	270	1.3 J	19	3.9 J	0.68 J	<100	<10	<10	<10	<300	
	02/10/09			52.02	0.00	55.38	2,500	1,100	8.2	31	40	<20	<200	<20	<20	<20	<600	
	05/12/09			52.06	0.00	55.34	2,000	520	4.2 J	12 J	<40	<50	<500	<50	<50	<50	<1,500	
	08/11/09			52.80	0.00	54.60	1,200	510	4.4 J	5.5 J	<40	<50	<500	<50	<50	<50	<1,500	
	02/17/10			54.05	0.00	53.35	1,500	1,400	9.9 J	7.5 J	11 J	<50	66 J	<50	<50	<50	<1,500	
	05/11/10	MD		54.55	0.00	52.85	-	-	-	-	-	-	-	-	-	-	-	
	05/12/10			-	-	-	620	310	<4.0	0.96 J	4.2 J	1.2 J	56 J	<10	<10	<10	<300	
	08/10/10			54.88	0.00	52.52	2,400	1,500	<40	40	35 J	<100	<1,000	<100	<100	<100	<3,000	
	11/09/10	MD		55.36	0.00	52.04	-	-	-	-	-	-	-	-	-	-	-	
	11/10/10			-	-	-	930	750	<10	2.7 J	11 J	<25	98 J	<25	<25	<25	<750	
	02/09/11			55.68	0.00	51.72	1,000	480	<20	<20	<40	<50	86 J	<50	<50	<50	<1,500	
	05/10/11	MD		55.94	0.00	51.46	-	-	-	-	-	-	-	-	-	-	-	
	05/11/11			-	-	-	12,000	3,800	330	500	870	<100	<1,000	<100	<100	<100	<3,000	
	08/09/11			55.83	0.00	51.57	17,000	8,100	500	490	1,400	<50	<1,000	<50	<50	<50	<15,000	
	11/08/11	MD		55.86	0.00	51.54	-	-	-	-	-	-	-	-	-	-	-	
	11/09/11			-	-	-	12,000	7,600	570	210	1,100	<50	<1,000	<50	<50	<50	<15,000	
	02/07/12			55.57	0.00	51.83	3,000	18	<0.50	0.77	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	05/08/12	MD		55.28	0.00	52.12	-	-	-	-	-	-	-	-	-	-	-	
	05/09/12			-	-	-	12,000	3,600	380	550	1,500	<50	<1,000	<50	<50	<50	<15,000	
	08/07/12			55.03	0.00	52.37	3,800	1,300	20	270	150	<10	<200	<10	<10	<10	<3,000	
	11/06/12	MD		55.28	0.00	52.12	-	-	-	-	-	-	-	-	-	-	-	
	11/07/12			-	-	-	2,300	1,200	<10	18	43 J	<10	<200	<10	<10	<10	<3,000	
	02/12/13			55.65	0.00	51.75	380	170	<2.0	<2.0	<4.0	<2.0	<40	<2.0	<2.0	<2.0	<600	
MW-A3	12/07/99		106.00	44.72	0.00	61.28	16,000	2,900	510	1,000	3,800	390	-	-	-	-	-	
	03/21/00		106.76	45.15	0.00	61.61	9,000	3,000	550	810	2,000	180	-	-	-	-	-	
	06/14/00			45.39	0.00	61.37	1,500	190	14	53	210	44	130	<10	<10	<10	-	
	08/23/00			45.17	0.00	61.59	2,500	460	25	230	99	28	25 J	3.6 J	<25	<25	-	
	08/23/00	DUP		-	-	-	3,000	470	42	220	160	32	32 J	3.3 J	<20	<20	-	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-A3	12/08/00		106.76	46.04	0.00	60.72	3,000	410	20	150	270	27	20 J	2.3 J	<5.0	<5.0	-	
	02/15/01			46.20	0.00	60.56	2,800	690	14	300	120	39	<50	<5.0	<5.0	<5.0	-	
	06/14/01			46.37	0.00	60.39	2,800	720	<6.0	350	58	42	<50	<5.0	<5.0	<5.0	-	
	09/14/01			46.99	0.00	59.77	4,200	1,300	36	340	510	43	20 J	2.4 J	<5.0	<5.0	-	
	12/07/01			47.46	0.00	59.30	7,700	2,900	51 J	730	1,100	62	18 J	3.0 J	<5.0	<5.0	-	
	03/28/02		108.97	47.75	0.00	61.22	4,200	1,800	<50	420	250	75	21 J	2.8 J	<5.0	<5.0	-	
	06/06/02			47.98	0.00	60.99	5,100	1,900	7.1	500	380	50	54	2.2 J	<5.0	<5.0	-	
	09/05/02			48.75	0.00	60.22	2,800	1,100	10	240	560	120	34 J	<20	<20	<20	-	
	12/05/02			49.47	0.00	59.50	4,200	1,600	3.4 J	670	180	200	51 J	3.6 J	<20	<20	-	
	02/18/03			49.66	0.00	59.31	6,500	1,300	<2.0	660	280	320	100 J	<50	<50	<50	<1,500	
	05/19/03			49.81	0.00	59.16	3,100	910	<20	74	58	240	54 J	<50	<50	<50	<1,500	
	08/19/03			50.04	0.00	58.93	4,700	1,400	<40	260	390	300	<1,000	6.8 J	<100	<100	<3,000	
	11/18/03			50.93	0.00	58.04	4,000	1,300	<40	280	460	280	170 J	12 J	<100	<100	<3,000	
	02/24/04			50.84	0.00	58.13	11,000	3,700	<50	330	800	500	400 J	24 J	<120	<120	<3,800	
	02/24/04	DUP		-	-	-	12,000	3,800	<100	310	760	520	380 J	25 J	<250	<250	<7,500	
	05/25/04			51.17	0.00	57.80	7,900	3,700	<50	210	370	520	520 J	23 J	<120	<120	<3,800	
	05/25/04	DUP		-	-	-	7,400	2,800	<100	160	270	430	380 J	18 J	<250	<250	<7,500	
	08/24/04			51.67	0.00	57.30	9,600	4,000	<50	150	200	720	570 J	23 J	<120	<120	<3,800	
	08/24/04	DUP		-	-	-	9,100	1,900	<100	78 J	98 J	320	290 J	<250	<250	<250	<7,500	
	11/16/04			50.81	0.00	58.16	7,000	2,900	<80	<80	<160	570	<2,000	<200	<200	<200	<6,000	
	11/16/04	DUP		-	-	-	4,900	2,300	<40	<40	<80	520	<1,000	<100	<100	<100	<3,000	
	02/08/05			52.08	0.00	56.89	5,400	2,600	<100	36 J	<200	520	320 J	12 J	<250	<250	<7,500	
	02/08/05	DUP		-	-	-	5,900	2,600	<80	36 J	<160	490	340 J	12 J	<200	<200	<6,000	
	05/03/05			52.45	0.00	56.52	5,300	2,500	<100	28 J	<200	490	<2,500	12 J	<250	<250	<7,500	
	05/03/05	DUP		-	-	-	4,700	1,900	<20	22	<40	440	330 J	13 J	<50	10 J	<1,500	
	08/02/05			52.31	0.00	56.66	2,900	1,000	<50	10 J	<100	270	180 J	7.0 J	<120	<120	<3,800	
	08/02/05	DUP		-	-	-	2,200	950	<20	9.8 J	<40	270	170 J	6.2 J	<50	<50	<1,500	
	11/01/05			51.87	0.00	57.10	2,900	1,300	<50	24 J	<100	320	160 J	6.2 J	<120	<120	<3,800	
	11/01/05	DUP		-	-	-	3,100	1,300	<20	22	<40	420	190 J	7.5 J	<50	<50	<1,500	
	01/31/06			51.63	0.00	57.34	39 J	0.61 J	<2.0	<2.0	<4.0	4.2 J	<50	<5.0	<5.0	<5.0	<150	
	01/31/06	DUP		-	-	-	46 J	0.44 J	<2.0	<2.0	<4.0	4.2 J	<50	<5.0	<5.0	<5.0	<150	
	05/02/06			51.39	0.00	57.58	4,400	1,000	<40	54	<80	<100	<1,000	<100	<100	<100	<3,000	
	05/02/06	DUP		-	-	-	4,100	1,400	<40	24 J	<80	370	230 J	5.6 J	<100	<100	<3,000	
	08/01/06			51.08	0.00	57.89	3,100	1,200	<80	24 J	<160	290	<2,000	<200	<200	<200	<6,000	
	08/01/06	DUP		-	-	-	2,900	1,200	<20	25	<40	340	140 J	6.1 J	<50	<50	<1,500	
	11/07/06			50.43	0.00	58.54	2,700	1,100	<20	38	<40	230	<500	3.9 J	<50	<50	<1,500	
	11/07/06	DUP		-	-	-	2,400	870	<20	37	<40	210	110 J	3.0 J	<50	<50	<1,500	
	02/13/07			50.68	0.00	58.29	2,000	530	0.73 J	19	2.2 J	300	180	4.9 J	<5.0	2.0 J	<150	
	02/13/07	DUP		-	-	-	2,000	640	0.48 J	16	1.7 J	390	170	5.1	<5.0	2.3 J	<150	
	05/01/07			50.60	0.00	58.37	1,800	730	<40	11 J	<80	370	210 J	<100	<100	<100	<3,000	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-A3	05/01/07	DUP	108.97	-	-	-	2,200	610	<20	8.9 J	<40	350	190 J	3.5 J	<50	<50	<1,500	
	08/07/07			50.29	0.00	58.68	390	34	<8.0	<8.0	<16	260	120 J	3.2 J	<20	<20	<600	
	08/07/07	DUP		-	-	-	340	28	<2.0	0.31 J	<4.0	210	150	3.8 J	<5.0	1.1 J	<150	
	11/14/07			50.81	0.00	58.16	220	3.8 J	<4.0	<4.0	<8.0	180	260	2.3 J	<10	1.2 J	<300	
	02/12/08			50.61	0.00	58.36	66	24	<2.0	<2.0	<4.0	0.38 J	<50	<5.0	<5.0	<5.0	<150	
	02/12/08	DUP		-	-	-	66	22	<2.0	<2.0	<4.0	0.43 J	<50	<5.0	<5.0	<5.0	<150	
	05/13/08			51.07	0.00	57.90	58	18	<2.0	<2.0	<4.0	0.71 J	<50	<5.0	<5.0	<5.0	<150	
	05/13/08	DUP		-	-	-	<50	1.9 J	<2.0	<2.0	<4.0	0.37 J	<50	<5.0	<5.0	<5.0	<150	
	08/12/08			51.68	0.00	57.29	220	110	<4.0	<4.0	4.8 J	27	<100	<10	<10	<10	<300	
	08/12/08	DUP		-	-	-	170	81	0.49 J	0.34 J	3.4 J	31	<50	0.44 J	<5.0	<5.0	<150	
	11/11/08			-	-	-	250	130	0.71 J	0.79 J	6.0	0.92 J	<50	0.43 J	<5.0	<5.0	<150	
	11/11/08	DUP		-	-	-	200	110	0.61 J	0.76 J	5.3	1.2 J	<50	0.40 J	<5.0	<5.0	<150	
	11/18/08	MD		52.94	0.00	56.03	-	-	-	-	-	-	-	-	-	-	-	
	02/10/09		109.24	53.30	0.00	55.94	390	160	0.78 J	1.2 J	4.3 J	98	80 J	0.62 J	<10	<10	<300	
	02/10/09	DUP		-	-	-	640	330	1.8 J	2.4 J	10 J	96	94 J	<25	<25	<25	<750	
	05/12/09			53.40	0.00	55.84	140	36	<2.0	<2.0	<4.0	140	42 J	0.75 J	<5.0	0.79 J	<150	
	05/12/09	DUP		-	-	-	640	20	<2.0	<2.0	<4.0	100	18 J	0.58 J	<5.0	0.55 J	<150	
	08/11/09	MD		53.98	0.00	55.26	-	-	-	-	-	-	-	-	-	-	-	
	08/13/09			-	-	-	300	70	<4.0	<4.0	<8.0	120	15 J	0.68 J	<10	<10	<300	
	02/17/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/11/10			55.46	0.00	53.78	140	36	<2.0	<2.0	<4.0	47	<50	0.44 J	<5.0	0.35 J	<150	
	11/09/10			56.52	0.00	52.72	1,600	730	4.9 J	5.7 J	4.8 J	98	<250	<25	<25	<25	<750	
	11/09/10	DUP		-	-	-	1,600	830	5.0 J	6.1 J	5.4 J	96	<250	<25	<25	<25	<750	
	02/09/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/10/11			56.74	0.00	52.50	660	190	1.5 J	1.2 J	1.4 J	44	8.0 J	<5.0	<5.0	0.38 J	<150	
	05/10/11	DUP	-	-	-	-	590	240	1.6 J	1.2 J	<10	44	<120	<12	<12	<12	<380	
	08/09/11	INACT	109.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/08/11			56.85	0.00	52.39	1,100	570	4.4 J	<10	<20	31	<250	<25	<25	<25	<750	
	11/08/11	DUP		-	-	-	1,200	670	5.0 J	<20	<40	31 J	<500	<50	<50	<50	<1,500	
	02/07/12	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/08/12			56.50	0.00	52.74	240	20	0.95	<0.50	<4.0	12	<10	<0.50	<0.50	<0.50	<150	
	05/08/12	DUP		-	-	-	260	20	0.97	<0.50	<4.0	12	<10	<0.50	<0.50	<0.50	<150	
	08/07/12	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/06/12			56.44	0.00	52.80	130	7.4	<0.50	<0.50	<4.0	6.1	<10	<0.50	<0.50	<0.50	<150	
	11/06/12	DUP		-	-	-	120	7.2	<0.50	<0.50	<4.0	6.1	<10	<0.50	<0.50	<0.50	<150	
	02/12/13	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-A4	12/07/99		108.48	45.57	0.00	62.91	36,000	6,500	8,400	1,400	4,900	<500	-	-	-	-	-	
	03/21/00		108.56	46.00	0.00	62.56	28,000	7,400	9,800	1,500	4,200	<500	-	-	-	-	-	
	03/21/00	DUP		-	-	-	34,000	7,200	9,700	1,400	4,200	<500	-	-	-	-	-	
	06/14/00			46.45	0.00	62.11	44,000	8,600	11,000	1,700	6,100	<400	<4,000	<400	<400	<400	-	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-A4	06/14/00	DUP	108.56	-	-	-	42,000	9,000	12,000	1,800	6,500	<400	<4,000	<400	<400	<400	-	
	08/23/00			46.11	0.00	62.45	49,000	9,000	13,000	1,700	6,300	20 J	<4,000	<400	<400	<400	-	
	12/08/00			47.50	0.00	61.06	45,000	7,900	8,500	1,500	5,000	<20	86 J	<20	<20	<20	-	
	12/08/00	DUP		-	-	-	46,000	8,200	9,000	1,600	5,500	1.1 J	110	<5.0	<5.0	<5.0	-	
	02/15/01			47.66	0.00	60.90	22,000	5,500	4,100	440	3,100	<20	<200	<20	<20	<20	-	
	02/15/01	DUP		-	-	-	23,000	5,300	4,000	120	3,600	<5.0	<50	<5.0	<5.0	<5.0	-	
	06/14/01			47.78	0.00	60.78	29,000	7,200	4,800	1,600	4,800	<5.0	<50	<5.0	<5.0	<5.0	-	
	06/14/01	DUP		-	-	-	29,000	6,600	4,400	1,500	4,400	<5.0	<50	<5.0	<5.0	<5.0	-	
	09/14/01			48.38	0.00	60.18	33,000	7,700	7,100	1,700	4,900	<20	<200	<20	<20	<20	-	
	09/14/01	DUP		-	-	-	33,000	6,600	6,100	1,500	4,200	<5.0	54	<5.0	<5.0	<5.0	-	
	12/07/01			48.85	0.00	59.71	21,000	5,200	2,800	800 J	3,100	<5.0	94	<5.0	<5.0	<5.0	-	
	12/07/01	DUP		-	-	-	24,000	5,200	3,000	790 J	3,200	<5.0	110	<5.0	<5.0	<5.0	-	
	03/28/02			49.10	0.00	59.46	12,000	5,000	640	1,300	1,200	<20	47 J	<20	<20	<20	-	
	06/06/02		110.71	49.30	0.00	61.41	20,000	5,200	1,400	1,200	2,000	<20	56 J	<20	<20	<20	-	
	09/05/02			50.07	0.00	60.64	14,000	5,000	920	910	2,000	<50	<500	<50	<50	<50	-	
	09/05/02	DUP		-	-	-	11,000	3,500	320	740	570	0.31 J	46 J	<5.0	<5.0	<5.0	-	
	12/05/02			50.12	0.00	60.59	11,000	3,200	420	480	1,000	<25	51 J	<25	<25	<25	-	
	12/05/02	DUP		-	-	-	10,000	2,300	310	460	840	<25	59 J	<25	<25	<25	-	
	02/18/03			59.99	0.00	50.72	21,000	3,500	510	800	2,300	<100	<1,000	<100	<100	<100	<3,000	
	02/18/03	DUP		-	-	-	36,000	7,100	1,200	1,600	5,600	<500	<5,000	<500	<500	<500	<15,000	
	05/19/03			51.13	0.00	59.58	23,000	5,400	1,300	1,200	3,800	<500	<5,000	<500	<500	<500	<15,000	
	05/19/03	DUP		-	-	-	21,000	5,000	1,200	1,000	3,400	<500	<5,000	<500	<500	42 J	<15,000	
	08/19/03			61.33	0.00	49.38	11,000	4,400	490	950	2,600	<250	<2,500	<250	<250	<250	<7,500	
	08/19/03	DUP		-	-	-	16,000	5,000	540	960	2,700	<500	<5,000	<500	<500	<500	<15,000	
	11/18/03			51.84	0.00	58.87	16,000	4,500	1,600	880	3,000	<250	<2,500	<250	<250	<250	<7,500	
	11/18/03	DUP		-	-	-	12,000	4,500	1,700	910	3,000	<200	220 J	<200	<200	<200	<6,000	
	02/24/04			52.00	0.00	58.71	9,900	4,000	670	650	1,500	<250	<2,500	<250	<250	<250	<7,500	
	05/25/04			52.37	0.00	58.34	22,000	8,400	1,900	1,500	4,500	<250	<2,500	<250	<250	<250	<7,500	
	08/24/04			52.26	0.00	58.45	20,000	7,000	1,200	1,100	2,700	<250	<2,500	<250	<250	<250	<7,500	
	11/16/04			53.44	0.00	57.27	24,000	7,400	980	1,100	2,700	<500	<5,000	<500	<500	<500	<15,000	
	02/08/05			53.60	0.00	57.11	26,000	9,000	1,400	1,600	4,100	<250	<2,500	<250	<250	<250	<7,500	
	05/03/05			53.49	0.00	57.22	30,000	11,000	1,700	1,800	4,600	<500	<5,000	<500	<500	<500	<15,000	
	08/02/05			53.50	0.00	57.21	34,000	11,000	550	1,400	2,900	<1,000	<10,000	<1,000	<1,000	<1,000	<30,000	
	11/01/05			53.23	0.00	57.48	37,000	11,000	1,300	1,700	4,200	<500	<5,000	<500	<500	<500	<15,000	
	01/31/06			52.88	0.00	57.83	23,000	9,000	770	1,300	2,900	<500	<5,000	<500	<500	<500	<15,000	
	05/02/06			52.63	0.00	58.08	26,000	13,000	<400	220 J	<800	3,400	1,800 J	58 J	<1,000	<1,000	<30,000	
	08/01/06			52.36	0.00	58.35	26,000	9,500	730	1,200	2,500	<500	<5,000	<500	<500	<500	<15,000	
	11/07/06			51.84	0.00	58.87	29,000	12,000	1,300	1,600	3,300	<400	<4,000	<400	<400	<400	<12,000	
	02/13/07			51.90	0.00	58.81	22,000	8,800	550	1,000	1,900	<100	<1,000	<100	<100	<100	<3,000	
	05/01/07			51.90	0.00	58.81	21,000	10,000	920	1,300	2,500	<1,000	<10,000	<1,000	<1,000	<1,000	<30,000	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-A4	08/07/07		110.71	51.95	0.00	58.76	20,000	9,000	910	1,100	2,200	<500	<5,000	<500	<500	<500	<15,000	
	11/14/07			52.10	0.00	58.61	16,000	8,100	650	1,000	2,000	<500	<5,000	<500	<500	<500	<15,000	
	02/12/08			52.01	0.00	58.70	16,000	9,000	1,400	940	2,200	<500	<5,000	<500	<500	<500	<15,000	
	05/13/08			52.38	0.00	58.33	1,200	4,100	340	400	700	<500	<5,000	<500	<500	<500	<15,000	
	08/12/08			52.77	0.00	57.94	17,000	5,000	1,000	680	1,500	<250	<2,500	<250	<250	<250	<7,500	
	11/11/08			-	-	-	23,000	3,100	1,100	510	1,600	<250	<2,500	<250	<250	<250	<7,500	
	11/18/08	MD		53.98	0.00	56.73	-	-	-	-	-	-	-	-	-	-	-	
	02/10/09		111.36	54.39	0.00	56.97	21,000	7,700	1,500	980	2,700	<250	<2,500	<250	<250	<250	<7,500	
	05/12/09			54.36	0.00	57.00	25,000	7,000	2,000	1,000	3,500	<500	<5,000	<500	<500	<500	<15,000	
	08/11/09	MD		55.11	0.00	56.25	-	-	-	-	-	-	-	-	-	-	-	
	08/13/09			-	-	-	29,000	10,000	1,900	1,300	3,700	<500	<5,000	<500	<500	<500	<15,000	
	02/17/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/11/10			56.83	0.00	54.53	36,000	11,000	3,900	1,600	5,200	<1,000	<10,000	<1,000	<1,000	<1,000	<30,000	
	11/09/10	MD		57.71	0.00	53.65	-	-	-	-	-	-	-	-	-	-	-	
	11/10/10			-	-	-	40,000	17,000	2,900	1,800	5,500	<1,000	<10,000	<1,000	<1,000	<1,000	<30,000	
	02/09/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/10/11	MD		58.18	0.00	53.18	-	-	-	-	-	-	-	-	-	-	-	
	05/11/11			-	-	-	47,000	21,000	3,100	1,900	5,600	<2,500	<25,000	<2,500	<2,500	<2,500	<75,000	
	08/09/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/08/11			58.30	0.00	53.06	42,000	21,000	1,200	1,800	3,900	<2,000	<20,000	<2,000	<2,000	<2,000	<60,000	
	02/07/12	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/08/12			55.85	0.00	55.51	41,000	13,000	1,500	1,300	3,400	<100	<2,000	<100	<100	<100	<30,000	
	08/07/12	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/06/12	MD		57.92	0.00	53.44	-	-	-	-	-	-	-	-	-	-	-	
	11/07/12			-	-	-	33,000	16,000	2,900	1,500	4,300	<200	<4,000	<200	<200	<200	<60,000	
	02/12/13	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-A5	12/07/01		105.72	47.11	0.00	58.61	<100	1.4 J	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	-	
	03/28/02			47.36	0.00	58.36	110	<5.0	<5.0	1.1 J	2.4 J	<5.0	<25	<5.0	<5.0	<5.0	-	
	06/06/02		107.91	47.52	0.00	60.39	23 J	<2.0	<2.0	0.19 J	0.47 J	0.30 J	<50	<5.0	<5.0	<5.0	-	
	09/05/02			48.37	0.00	59.54	120	<2.0	<2.0	0.35 J	0.43 J	<5.0	<50	<5.0	<5.0	<5.0	-	
	12/05/02			49.05	0.00	58.86	60	<2.0	<2.0	<2.0	<4.0	0.58 J	8.4 J	<5.0	<5.0	<5.0	-	
	02/18/03			49.06	0.00	58.85	300	1.9 J	<2.0	5.8	31	27	15 J	1.6 J	<5.0	<5.0	<150	
	05/19/03			49.41	0.00	58.50	680	35	<10	59	300	100	97 J	7.8 J	<25	<25	<750	
	08/19/03			49.70	0.00	58.21	260	3.9	0.38 J	1.9 J	62	73	61	4.1 J	<5.0	<5.0	<150	
	11/18/03			50.15	0.00	57.76	420	6.4	1.0 J	4.4	140	140	180	7.3	<5.0	<5.0	<150	
	02/24/04			50.43	0.00	57.48	660	16	1.8 J	16	220	160	310	10	<10	<10	<300	
	05/25/04			50.74	0.00	57.17	1,000	26	1.6 J	22	190	290	440	14	<10	<10	<300	
	08/24/04			51.30	0.00	56.61	1,000	74	16	37	250	290	770	15	<10	<10	<300	
	11/16/04			51.90	0.00	56.01	2,400	180	<8.0	93	660	370	790	<20	<20	<20	<600	
	02/08/05			51.84	0.00	56.07	1,100	53	1.4 J	18	210	280	440	11	<10	<10	<300	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-A5	05/03/05		107.91	51.95	0.00	55.96	490	37	<5.0	1.9 J	15	190	390	8.3 J	<12	<12	<380	
	08/02/05			51.88	0.00	56.03	250	40	<4.0	0.92 J	3.1 J	140	250	6.1 J	<10	<10	<300	
	11/01/05			51.45	0.00	56.46	180	44	<4.0	0.76 J	3.5 J	140	170	4.4 J	<10	<10	<300	
	01/31/06			51.17	0.00	56.74	140	14	0.92 J	1.3 J	1.9 J	65	92	1.9 J	<5.0	<5.0	<150	
	05/02/06			50.77	0.00	57.14	310	96	0.76 J	2.3	10	110	140	2.1 J	<5.0	<5.0	<150	
	08/01/06			50.45	0.00	57.46	190	31	0.52 J	1.1 J	2.1 J	110	100	2.4 J	<5.0	0.47 J	<150	
	11/07/06			50.21	0.00	57.70	110	26	0.51 J	1.5 J	2.8 J	56	37 J	1.1 J	<5.0	<5.0	<150	
	02/13/07			50.07	0.00	57.84	190	36	<4.0	2.2 J	2.6 J	130	63 J	2.3 J	<10	<10	<300	
	05/01/07			49.99	0.00	57.92	170	35	<2.0	0.69 J	1.3 J	190	92	3.4 J	<5.0	0.79 J	<150	
	08/07/07			50.05	0.00	57.86	160	23	<2.0	0.49 J	1.3 J	210	100	3.0 J	<5.0	1.0 J	<150	
	11/14/07			50.43	0.00	57.48	190	10	<4.0	<4.0	<8.0	270	160	3.9 J	<10	1.4 J	<300	
	02/12/08			50.41	0.00	57.50	170	3.9 J	<8.0	<8.0	<16	250	140 J	3.5 J	<20	<20	<600	
	05/13/08			50.74	0.00	57.17	110	0.62 J	<4.0	<4.0	<8.0	150	140	3.3 J	<10	<10	<300	
	08/12/08			50.95	0.00	56.96	75	<2.0	<2.0	<2.0	<4.0	27	210	3.7 J	<5.0	<5.0	<150	
	11/11/08			51.85	0.00	56.06	82	<2.0	<2.0	<2.0	<4.0	16	190	3.3 J	<5.0	<5.0	<150	
	02/10/09			52.67	0.00	55.24	60	<2.0	<2.0	<2.0	<4.0	18	210	2.3 J	<5.0	<5.0	<150	
	05/12/09			52.65	0.00	55.26	34 J	<2.0	<2.0	<2.0	<4.0	7.1	140	1.2 J	<5.0	<5.0	<150	
	08/11/09			53.29	0.00	54.62	38 J	0.71 J	<2.0	<2.0	<4.0	4.0 J	79	1.1 J	<5.0	<5.0	<150	
	02/17/10			54.52	0.00	53.39	31 J	0.61 J	<2.0	<2.0	<4.0	4.1 J	15 J	<5.0	<5.0	<5.0	<150	
	05/11/10	MD		54.98	0.00	52.93	-	-	-	-	-	-	-	-	-	-	-	
	05/12/10			-	-	-	35 J	3.1	<2.0	<2.0	<4.0	3.4 J	<50	<5.0	<5.0	<5.0	<150	
	08/10/10			55.39	0.00	52.52	36 J	<2.0	<2.0	<2.0	<4.0	3.0 J	<50	<5.0	<5.0	<5.0	<150	
	11/09/10	MD		55.81	0.00	52.10	-	-	-	-	-	-	-	-	-	-	-	
	11/10/10			-	-	-	<50	0.46 J	<2.0	<2.0	<4.0	3.4 J	7.0 J	<5.0	<5.0	<5.0	<150	
	02/09/11			56.12	0.00	51.79	41 J	0.80 J	<2.0	<2.0	<4.0	14	28 J	0.34 J	<5.0	<5.0	<150	
	05/10/11	MD		56.41	0.00	51.50	-	-	-	-	-	-	-	-	-	-	-	
	05/11/11			-	-	-	7,100	1.1 J	<2.0	<2.0	<4.0	22	31 J	0.29 J	<5.0	0.89 J	<150	
	08/09/11			57.42	0.00	50.49	37 J	1.4	<0.50	<0.50	<4.0	6.1	9.6 J	<0.50	<0.50	<0.50	<150	
	11/08/11	MD		56.32	0.00	51.59	-	-	-	-	-	-	-	-	-	-	-	
	11/09/11			-	-	-	64	2.4	<0.50	<0.50	<4.0	3.4	<10	<0.50	<0.50	<0.50	<150	
	02/07/12			56.10	0.00	51.81	81	15	<0.50	<0.50	<4.0	7.2	13	<0.50	<0.50	<0.50	<150	
	05/08/12	MD		55.80	0.00	52.11	-	-	-	-	-	-	-	-	-	-	-	
	05/09/12			-	-	-	55	8.9	<0.50	<0.50	<4.0	2.3	<10	<0.50	<0.50	<0.50	<150	
	08/07/12			55.64	0.00	52.27	75	12	<0.50	<0.50	<4.0	2.0	<10	<0.50	<0.50	<0.50	<150	
	11/06/12	MD		55.80	0.00	52.11	-	-	-	-	-	-	-	-	-	-	-	
	11/07/12			-	-	-	130	25	0.54	<0.50	<4.0	3.5	<10	<0.50	<0.50	<0.50	<150	
	02/12/13			56.10	0.00	51.81	74	2.4	<0.50	<0.50	<1.0	1.2	<10	<0.50	<0.50	<0.50	<150	
MW-A6	12/07/01		105.78	46.86	0.00	58.92	150	59	<5.0	<5.0	<5.0	<5.0	18 J	<5.0	<5.0	<5.0	-	
	03/28/02			47.06	0.00	58.72	58 J	31	<5.0	<5.0	<5.0	<5.0	10 J	<5.0	<5.0	<5.0	-	
	06/06/02		107.90	47.26	0.00	60.64	77	30	<2.0	0.18 J	0.31 J	<5.0	18 J	<5.0	<5.0	<5.0	-	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-A6	09/05/02		107.90	48.20	0.00	59.70	74	22	<2.0	<2.0	<4.0	<5.0	23 J	<5.0	<5.0	<5.0	-	
	12/05/02			48.75	0.00	59.15	78	28	<2.0	<2.0	<4.0	<5.0	18 J	<5.0	<5.0	<5.0	-	
	02/18/03			47.85	0.00	60.05	60	13	<2.0	<2.0	<4.0	<5.0	26 J	<5.0	<5.0	<5.0	<150	
	05/19/03			48.98	0.00	58.92	66	25	<2.0	<2.0	<4.0	<5.0	15 J	<5.0	<5.0	<5.0	<150	
	08/19/03			49.21	0.00	58.69	56	24	<2.0	<2.0	<4.0	<5.0	12 J	<5.0	<5.0	<5.0	<150	
	11/18/03			49.62	0.00	58.28	59	17	<2.0	<2.0	<4.0	<5.0	11 J	<5.0	<5.0	<5.0	<150	
	02/24/04			49.91	0.00	57.99	58	20	<2.0	<2.0	<4.0	<5.0	13 J	<5.0	<5.0	<5.0	<150	
	05/25/04			50.25	0.00	57.65	62	19	<2.0	<2.0	<4.0	<5.0	8.2 J	<5.0	<5.0	<5.0	<150	
	08/24/04			50.87	0.00	57.03	94	24	0.39 J	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	11/16/04			51.44	0.00	56.46	67	21	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	02/08/05			51.48	0.00	56.42	62	17	<2.0	0.30 J	1.0 J	<5.0	<50	<5.0	<5.0	<5.0	<150	
	05/03/05			51.58	0.00	56.32	78	20	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	08/02/05			51.49	0.00	56.41	76	11	<2.0	<2.0	<4.0	<5.0	5.0 J	0.25 J	<5.0	0.36 J	<150	
	11/01/05			51.00	0.00	56.90	80	11	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	01/31/06			50.77	0.00	57.13	88	7.0	<2.0	<2.0	<4.0	<5.0	7.1 J	<5.0	<5.0	<5.0	<150	
	05/02/06			52.80	0.00	55.10	130	11	<2.0	0.28 J	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	08/01/06			50.13	0.00	57.77	140	10	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	11/08/06			49.87	0.00	58.03	150	7.5	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	02/13/07			49.75	0.00	58.15	110	6.9	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	05/01/07			49.72	0.00	58.18	88	3.2	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	08/07/07			49.77	0.00	58.13	110	3.5	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	11/15/07			50.03	0.00	57.87	110	2.7	<2.0	<2.0	<4.0	<5.0	5.5 J	<5.0	<5.0	<5.0	<150	
	02/12/08	MD		50.08	0.00	57.82	-	-	-	-	-	-	-	-	-	-	-	
	02/13/08			-	-	-	120	1.9 J	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	05/13/08			50.46	0.00	57.44	140	3.1	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	08/12/08			50.71	0.00	57.19	150	4.8	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	11/11/08			51.51	0.00	56.39	180	7.8	0.39 J	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	02/10/09			52.31	0.00	55.59	170	5.0	<2.0	0.25 J	<4.0	<5.0	12 J	<5.0	<5.0	<5.0	<150	
	05/12/09			52.32	0.00	55.58	180	3.8	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	08/11/09			53.00	0.00	54.90	170	7.5	<2.0	<2.0	<4.0	<5.0	9.8 J	<5.0	<5.0	<5.0	<150	
	02/17/10	MD		54.02	0.00	53.88	-	-	-	-	-	-	-	-	-	-	-	
	02/18/10			-	-	-	170	5.3	<2.0	0.33 J	<4.0	<5.0	13 J	<5.0	<5.0	<5.0	<150	
	05/11/10	MD		54.48	0.00	53.42	-	-	-	-	-	-	-	-	-	-	-	
	05/13/10			-	-	-	150	6.3	<2.0	0.61 J	<4.0	<5.0	10 J	<5.0	<5.0	<5.0	<150	
	08/10/10			54.89	0.00	53.01	210	9.1	<2.0	1.1 J	<4.0	<5.0	13 J	<5.0	<5.0	<5.0	<150	
	11/09/10	MD		55.34	0.00	52.56	-	-	-	-	-	-	-	-	-	-	-	
	11/11/10			-	-	-	200	13	<2.0	1.1 J	<4.0	<5.0	15 J	<5.0	<5.0	<5.0	<150	
	02/09/11	MD		55.62	0.00	52.28	-	-	-	-	-	-	-	-	-	-	-	
	02/10/11			-	-	-	230	18	<2.0	0.75 J	<4.0	<5.0	20 J	<5.0	<5.0	<5.0	<150	
	05/10/11	MD		55.93	0.00	51.97	-	-	-	-	-	-	-	-	-	-	-	

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ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-A6	05/12/11		107.90	-	-	-	240	22	<2.0	0.52 J	<4.0	<5.0	11 J	<5.0	<5.0	<5.0	<150	
	08/09/11	MD		55.91	0.00	51.99	-	-	-	-	-	-	-	-	-	-	-	
	08/10/11			-	-	-	150	14	<0.50	0.45 J	<4.0	<0.50	17	<0.50	<0.50	<0.50	<150	
	11/08/11	MD		55.92	0.00	51.98	-	-	-	-	-	-	-	-	-	-	-	
	11/09/11			-	-	-	180	3.2	<0.50	0.28 J	<4.0	<0.50	8.0 J	<0.50	<0.50	<0.50	<150	
	02/07/12			55.76	0.00	52.14	570	10	<0.50	0.46 J	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	05/08/12	MD		55.46	0.00	52.44	-	-	-	-	-	-	-	-	-	-	-	
	05/09/12			-	-	-	310	4.5	<0.50	0.32 J	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	08/07/12			55.43	0.00	52.47	280	3.0	<0.50	<0.50	<4.0	<0.50	7.9 J	<0.50	<0.50	0.92	<150	
	11/06/12	MD		56.16	0.00	51.74	-	-	-	-	-	-	-	-	-	-	-	
	11/07/12			-	-	-	380	5.2	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	0.92	<150	
	02/12/13			55.74	0.00	52.16	300	3.2	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
MW-A7	06/06/02		110.63	49.32	0.00	61.31	55,000	3,500	6,300	2,400	13,000	1,700	1,200	7.1	<5.0	<5.0	-	
	09/05/02			50.12	0.00	60.51	37,000	3,300	3,800	2,400	13,000	2,400	670	<50	<50	16 J	-	
	12/05/02			50.85	0.00	59.78	19,000	2,900	46	1,600	9,100	1,500	630 J	<100	<100	7.4 J	-	
	02/18/03			51.00	0.00	59.63	19,000	2,600	21 J	1,000	4,000	670	400 J	<200	<200	<200	<6,000	
	05/19/03			51.15	0.00	59.48	18,000	2,800	42 J	1,400	6,500	1,700	300 J	<200	<200	<200	<6,000	
	08/19/03			51.37	0.00	59.26	14,000	3,000	<80	1,200	2,400	1,800	530 J	<200	<200	<200	<6,000	
	11/18/03			51.85	0.00	58.78	7,500	1,800	<80	1,200	440	1,700	640 J	<200	<200	<200	<6,000	
	02/24/04			52.07	0.00	58.56	5,800	4,100	15 J	640	210	190 J	<2,000	<200	<200	<200	<6,000	
	05/25/04			52.38	0.00	58.25	4,200	1,800	<80	470	47 J	550	320 J	<200	<200	<200	<6,000	
	08/24/04			52.80	0.00	57.83	4,100	1,600	<80	80	<160	730	890 J	11 J	<200	<200	<6,000	
	11/16/04			53.63	0.00	57.00	2,100	980	<40	<40	<80	210	<1,000	<100	<100	<100	<3,000	
	02/08/05			53.71	0.00	56.92	3,100	1,800	<80	150	140 J	24 J	<2,000	<200	<200	<200	<6,000	
	05/03/05			53.16	0.00	57.47	9,000	4,500	<200	440	440	<500	<5,000	<500	<500	<500	<15,000	
	08/02/05			53.13	0.00	57.50	640	2,100	<80	14 J	190	30 J	490 J	<200	<200	<200	<6,000	
	11/01/05			52.76	0.00	57.87	4,500	2,300	17 J	120	200	54 J	570 J	6.2 J	<120	<120	<3,800	
	01/31/06			52.50	0.00	58.13	3,400	1,500	11 J	92	91	54 J	580 J	5.2 J	<100	<100	<3,000	
	05/02/06			52.23	0.00	58.40	4,600	2,300	9.0 J	170	170	41 J	390 J	<100	<100	<100	<3,000	
	08/01/06			51.87	0.00	58.76	3,300	1,600	8.9 J	110	73	64	530	5.4 J	<50	<50	<1,500	
	11/07/06			51.69	0.00	58.94	5,100	1,700	33	110	140	48 J	420 J	2.5 J	<50	<50	<1,500	
	02/13/07			49.80	0.00	60.83	9,300	4,500	24	310	420	58	270 J	2.9 J	<50	<50	<1,500	
	05/01/07			51.52	0.00	59.11	7,100	3,900	62	260	370	15 J	210 J	<100	<100	<100	<3,000	
	08/07/07			51.46	0.00	59.17	15,000	6,400	56 J	560	920	56 J	<5,000	<500	<500	<500	<15,000	
	11/14/07	MD		51.60	0.00	59.03	-	-	-	-	-	-	-	-	-	-	-	
	11/15/07			-	-	-	10,000	6,000	310	490	1,100	<500	<5,000	<500	<500	<500	<15,000	
	02/12/08			50.69	0.00	59.94	97	18	1.4 J	3.8	4.8	11	<50	<5.0	<5.0	<5.0	<150	
	05/13/08			52.02	0.00	58.61	1,400	410	2.0 J	41	15 J	15 J	<250	<25	<25	<25	<750	
	08/12/08			52.27	0.00	58.36	11,000	5,800	69	500	230 J	180 J	<5,000	<500	<500	<500	<15,000	
	11/11/08			-	-	-	26,000	8,500	94 J	1,200	1,300	25 J	<2,500	<250	<250	<250	<7,500	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-A7	11/18/08	MD	110.63	53.62	0.00	57.01	-	-	-	-	-	-	-	-	-	-	-	
	02/10/09		110.49	53.95	0.00	56.54	15,000	9,000	76 J	290	230 J	<500	<5,000	<500	<500	<500	<15,000	
	05/12/09			53.85	0.00	56.64	17,000	9,900	67 J	340	160 J	<500	<5,000	<500	<500	<500	<15,000	
	08/11/09	MD		54.55	0.00	55.94	-	-	-	-	-	-	-	-	-	-	-	
	08/11/09	DUP		-	-	-	25,000	12,000	82 J	560	140 J	<500	<5,000	<500	<500	<500	<15,000	
	08/12/09			-	-	-	20,000	12,000	74 J	510	160 J	<500	<5,000	<500	<500	<500	<15,000	
	02/17/10	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/11/10			56.18	0.00	54.31	21,000	9,700	150 J	140 J	300 J	<500	<5,000	<500	<500	<500	<15,000	
	11/09/10			57.14	0.00	53.35	19,000	9,500	51 J	99 J	140 J	<500	<5,000	<500	<500	<500	<15,000	
	02/09/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/10/11			57.84	0.00	52.65	20,000	9,900	54 J	110 J	150 J	<500	<5,000	<500	<500	<500	<15,000	
	08/09/11	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/08/11			57.63	0.00	52.86	23,000	13,000	52 J	120 J	180 J	<500	<5,000	<500	<500	<500	<15,000	
	02/07/12	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	05/08/12			57.25	0.00	53.24	25,000	13,000	81 J	130	<800	<100	<2,000	<100	<100	<100	<30,000	
	08/07/12	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11/06/12			57.30	0.00	53.19	19,000	13,000	90 J	110	240 J	<100	<2,000	<100	<100	<100	<30,000	
	02/12/13	INACT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-A8d	01/31/06		107.59	51.80	0.00	55.79	85	1.2 J	<2.0	<2.0	<4.0	11	28 J	0.30 J	<5.0	<5.0	<150	
	05/02/06			51.35	0.00	56.24	88	4.7	0.55 J	0.78 J	1.5 J	12	22 J	0.28 J	<5.0	<5.0	<150	
	08/01/06			51.05	0.00	56.54	120	18	1.1 J	0.87 J	1.4 J	17	23 J	0.31 J	<5.0	<5.0	<150	
	11/08/06			50.74	0.00	56.85	130	26	0.50 J	0.41 J	<4.0	8.9	20 J	0.27 J	<5.0	<5.0	<150	
	02/13/07			50.63	0.00	56.96	150	23	0.59 J	0.71 J	<4.0	13	24 J	0.39 J	<5.0	<5.0	<150	
	05/01/07			50.57	0.00	57.02	90	23	<2.0	0.33 J	<4.0	7.7	27 J	0.32 J	<5.0	<5.0	<150	
	08/07/07			50.85	0.00	56.74	54	4.5	<2.0	<2.0	<4.0	9.3	44 J	0.26 J	<5.0	<5.0	<150	
	11/14/07	MD		51.19	0.00	56.40	-	-	-	-	-	-	-	-	-	-	-	
	11/15/07			-	-	-	59	3.6	0.46 J	<2.0	<4.0	4.7 J	73	0.29 J	<5.0	<5.0	<150	
	02/12/08			51.35	0.00	56.24	50	3.4	0.47 J	<2.0	<4.0	1.0 J	59	<5.0	<5.0	<5.0	<150	
	05/13/08			51.73	0.00	55.86	58	0.59 J	<2.0	<2.0	<4.0	2.3 J	87	<5.0	<5.0	<5.0	<150	
	08/12/08			52.06	0.00	55.53	120	32	<2.0	<2.0	<4.0	5.0	150	0.35 J	<5.0	<5.0	<150	
	11/11/08			53.08	0.00	54.51	100	7.7	<2.0	0.86 J	<4.0	1.6 J	110	0.36 J	<5.0	<5.0	<150	
	02/10/09			53.58	0.00	54.01	120	14	<2.0	1.1 J	1.2 J	1.4 J	210	0.46 J	<5.0	<5.0	<150	
	05/12/09			53.75	0.00	53.84	180	47	<2.0	3.7	3.2 J	0.98 J	210	0.39 J	<5.0	<5.0	<150	
	08/11/09			54.58	0.00	53.01	400	170	1.3 J	14	12	2.0 J	220	0.65 J	<5.0	<5.0	<150	
	02/17/10			55.89	0.00	51.70	880	480	<20	36	37 J	<50	290 J	<50	<50	<50	<1,500	
	05/11/10	MD		56.40	0.00	51.19	-	-	-	-	-	-	-	-	-	-	-	
	05/12/10			-	-	-	1,800	910	<40	66	120	<100	190 J	<100	<100	<100	<3,000	
	08/10/10			56.83	0.00	50.76	1,100	540	3.9 J	40	87	<50	150 J	<50	<50	<50	<1,500	
	08/10/10	DUP		-	-	-	970	500	<20	37	82	<50	140 J	<50	<50	<50	<1,500	
	11/09/10	MD		57.18	0.00	50.41	-	-	-	-	-	-	-	-	-	-	-	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
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5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-A8d	11/10/10		107.59	-	-	-	1,900	650	4.9 J	70	130	<25	140 J	<25	<25	<25	<750	
	02/09/11			57.47	0.00	50.12	400	180	1.6 J	20	35	<20	130 J	<20	<20	<20	<600	
	05/10/11	MD		57.68	0.00	49.91	-	-	-	-	-	-	-	-	-	-	-	
	05/11/11			-	-	-	1,600	530	3.4 J	49	100	<25	59 J	<25	<25	<25	<750	
	08/09/11			57.39	0.00	50.20	1,800	900	5.7	86	200	<5.0	130	<5.0	<5.0	<5.0	<1,500	
	11/08/11	MD		57.29	0.00	50.30	-	-	-	-	-	-	-	-	-	-	-	
	11/09/11			-	-	-	2,200	1,100	6.6	100	200	<5.0	<100	<5.0	<5.0	<5.0	<1,500	
	02/07/12			56.69	0.00	50.90	1,500	1,100	<5.0	<5.0	53	<5.0	71 J	<5.0	<5.0	<5.0	<1,500	
	05/08/12	MD		56.26	0.00	51.33	-	-	-	-	-	-	-	-	-	-	-	
	05/09/12			-	-	-	550	110	2.2	1.7	12	<1.0	44	<1.0	<1.0	<1.0	<300	
	08/07/12			56.20	0.00	51.39	400	20	1.7	0.65	2.8 J	<0.50	46	0.52	<0.50	<0.50	<150	
	11/06/12	MD		56.52	0.00	51.07	-	-	-	-	-	-	-	-	-	-	-	
	11/07/12			-	-	-	610	6.2	1.5	1.7	1.8 J	0.52	69	1.1	<0.50	<0.50	<150	
	02/12/13			56.85	0.00	50.74	390	68	0.74	0.92	3.1	<0.50	61	0.57	<0.50	<0.50	<150	
MW-A8s	01/31/06		107.58	51.37	0.00	56.21	73	2.6	1.7 J	0.32 J	1.0 J	51	28 J	0.52 J	<5.0	<5.0	<150	
	05/02/06			50.88	0.00	56.70	620	10	1.1 J	0.97 J	1.2 J	96	48 J	0.65 J	<5.0	<5.0	<150	
	08/01/06			50.57	0.00	57.01	290	56	1.7 J	1.8 J	2.4 J	120	40	0.67 J	<5.0	0.80 J	<150	
	11/08/06			50.17	0.00	57.41	190	53	1.0 J	0.87 J	<4.0	48	21 J	<5.0	<5.0	<5.0	<150	
	02/13/07			50.13	0.00	57.45	430	120	2.1	1.4 J	<4.0	120	51	0.4 J	<5.0	0.89 J	<150	
	05/01/07			50.04	0.00	57.54	310	170	1.5 J	1.2 J	<4.0	130	84	0.43 J	<5.0	0.88 J	<150	
	08/07/07			50.29	0.00	57.29	220	110	0.92 J	0.62 J	<4.0	63	80	<5.0	<5.0	0.41 J	<150	
	11/14/07	MD		50.65	0.00	56.93	-	-	-	-	-	-	-	-	-	-	-	
	11/15/07			-	-	-	190	72	1.1 J	0.70 J	<4.0	35	79	<5.0	<5.0	<5.0	<150	
	02/12/08			50.74	0.00	56.84	1,100	500	4.6	2.3	1.5 J	31	86	0.40 J	<5.0	<5.0	<150	
	05/13/08			50.98	0.00	56.60	570	190	2.2 J	0.92 J	<10	26	58 J	<12	<12	<12	<380	
	08/12/08			51.30	0.00	56.28	360	100	1.5 J	<4.0	<8.0	10	100	<10	<10	<10	<300	
	11/11/08			52.33	0.00	55.25	470	160	2.1 J	<8.0	5.0 J	5.2 J	140 J	<20	<20	<20	<600	
	02/10/09			52.91	0.00	54.67	210	70	0.92 J	<2.0	1.5 J	3.4 J	210	0.35 J	<5.0	<5.0	<150	
	05/12/09			53.00	0.00	54.58	270	80	0.92 J	<2.0	1.4 J	2.2 J	230	0.25 J	<5.0	<5.0	<150	
	08/11/09			53.74	0.00	53.84	190	62	0.71 J	<2.0	<4.0	2.3 J	280	0.33 J	<5.0	<5.0	<150	
	02/17/10			55.00	0.00	52.58	69	0.88 J	<2.0	<2.0	<4.0	6.6	690	0.92 J	<5.0	<5.0	<150	
	05/11/10	MD		58.48	0.00	49.10	-	-	-	-	-	-	-	-	-	-	-	
	05/12/10			-	-	-	32 J	<2.0	<2.0	<2.0	<4.0	3.7 J	320	0.71 J	<5.0	<5.0	<150	
	08/10/10			55.91	0.00	51.67	43 J	<2.0	<2.0	<2.0	<4.0	3.4 J	330	0.70 J	<5.0	<5.0	<150	
	11/09/10	MD		56.30	0.00	51.28	-	-	-	-	-	-	-	-	-	-	-	
	11/10/10			-	-	-	40 J	<2.0	<2.0	<2.0	<4.0	2.8 J	300	0.79 J	<5.0	<5.0	<150	
	02/09/11			56.67	0.00	50.91	<50	<2.0	<2.0	<2.0	<4.0	2.4 J	260	<5.0	<5.0	<5.0	<150	
	05/10/11	MD		56.97	0.00	50.61	-	-	-	-	-	-	-	-	-	-	-	
	05/11/11			-	-	-	45 J	<2.0	<2.0	<2.0	<4.0	8.3	130	0.54 J	<5.0	<5.0	<150	
	08/09/11			56.78	0.00	50.80	63	<0.50	<0.50	<0.50	<4.0	8.5	310	0.63	<0.50	<0.50	<150	

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Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-A8s	11/08/11	MD	107.58	56.72	0.00	50.86	-	-	-	-	-	-	-	-	-	-	-	
	11/09/11			-	-	-	59	<0.50	<0.50	<0.50	<4.0	2.3	270	0.43 J	<0.50	<0.50	<150	
	02/07/12			56.36	0.00	51.22	65	<0.50	<0.50	<0.50	<4.0	1.5	180	0.35 J	<0.50	<0.50	<150	
	05/08/12	MD		55.99	0.00	51.59	-	-	-	-	-	-	-	-	-	-	-	
	05/09/12			-	-	-	47 J	<0.50	<0.50	<0.50	<4.0	1.1	140	0.33 J	<0.50	<0.50	<150	
	08/07/12			55.85	0.00	51.73	46 J	<0.50	<0.50	<0.50	<4.0	1.3	85	0.31 J	<0.50	<0.50	<150	
	11/06/12	MD		56.04	0.00	51.54	-	-	-	-	-	-	-	-	-	-	-	
	11/07/12			-	-	-	44 J	<0.50	<0.50	<0.50	<4.0	1.2	39	0.28 J	<0.50	<0.50	<150	
	02/12/13			56.32	0.00	51.26	30 J	<0.50	<0.50	<0.50	<1.0	0.91	37	<0.50	<0.50	<0.50	<150	
MW-19	06/26/90		107.07	57.21	0.00	49.86	700	140	<10	<10	<10	-	-	-	-	-	-	
	06/29/93			55.37	0.00	51.70	870	100	0.90	65	18	-	-	-	-	-	-	
	09/20/93			54.48	0.00	52.59	2,100	91	4.1	51	27	-	-	-	-	-	-	
	11/15/93			53.99	0.00	53.08	1,100	65	0.80	20	23	-	-	-	-	-	-	
	04/18/94			51.38	0.00	55.69	1,200	38	4.0	5.0	3.0	-	-	-	-	-	-	
	11/04/94			50.37	0.00	56.70	490	7.0	<0.3	<0.3	<0.5	-	-	-	-	-	-	
	03/20/95			49.05	0.00	58.02	240	1.3	<0.30	<0.30	<0.60	-	-	-	-	-	-	
	04/13/95			48.90	0.00	58.17	230	2.1	<0.30	<0.30	<0.60	-	-	-	-	-	-	
	09/08/95			48.63	0.00	58.44	250	8.1	<0.30	<0.30	<0.60	-	-	-	-	-	-	
	11/15/95			47.33	0.00	59.74	350	7.2	0.34	0.51	<0.60	-	-	-	-	-	-	
	01/22/96			49.53	0.00	57.54	250	5.4	<0.30	29	10	-	-	-	-	-	-	
	04/30/96			46.35	0.00	60.72	250	5.1	<0.30	<0.30	<0.60	-	-	-	-	-	-	
	07/31/96			46.24	0.00	60.83	530	7.4	2.2	0.93	68	<10	-	-	-	-	-	
	11/22/96			46.11	0.00	60.96	350	1.2	0.39	<0.30	<0.60	<10	-	-	-	-	-	
	03/14/97			45.12	0.00	61.95	260	32	1.4	<0.30	2.0	44	-	-	-	-	-	
	05/05/97			44.93	0.00	62.14	190	3.1	<0.30	<0.30	0.86	<10	-	-	-	-	-	
	07/22/97			44.83	0.00	62.24	270	16	0.71	<0.30	1.9	<10	-	-	-	-	-	
	10/10/97			45.05	0.00	62.02	520	29	0.85	0.41	3.7	34	-	-	-	-	-	
	01/30/98			44.75	0.00	62.32	630	31	3.3	0.59	8.2	<10	-	-	-	-	-	
	06/05/98			43.75	0.00	63.32	1,700	230	7.5	73	66	40	-	-	-	-	-	
	09/14/98			43.35	0.00	63.72	3,600	780	120	55	81	<100	-	-	-	-	-	
	12/18/98			42.60	0.00	64.47	15,000	3,700	3,500	500	1,800	<1,000	-	-	-	-	-	
	02/15/99			42.20	0.00	64.87	14,000	3,300	2,800	480	1,600	<1,000	-	-	-	-	-	
	05/12/99			41.65	0.00	65.42	18,000	3,300	2,700	600	2,100	<2,000	-	-	-	-	-	
	09/21/99			41.58	0.00	65.49	14,000	4,400	4,400	800	2,900	<1,000	-	-	-	-	-	
	12/07/99			39.61	0.00	67.46	23,000	3,900	3,800	780	2,800	<250	-	-	-	-	-	
	12/07/99	DUP		-	-	-	20,000	3,800	3,700	770	2,800	<250	-	-	-	-	-	
	03/21/00		107.12	43.38	0.00	63.74	52,000	7,900	6,800	1,300	5,200	<100	-	-	-	-	-	
	06/14/00			43.60	0.00	63.52	39,000	8,700	7,500	1,900	7,400	<250	<2,500	<250	<250	<250	-	
	08/23/00			44.01	0.00	63.11	29,000	9,300	970	2,000	4,900	21 J	<4,000	<400	<400	<400	-	
	12/08/00			44.45	0.00	62.67	27,000	6,800	230	1,300	3,200	7.7 J	85 J	<20	<20	<20	-	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-19	02/15/01		107.12	45.68	0.00	61.44	12,000	3,800	570	610	1,300	<20	<200	<20	<20	<20	-	
	06/14/01			45.58	0.00	61.54	8,100	2,400	250	390	870	25	<200	<20	<20	<20	-	
	09/14/01			46.59	0.00	60.53	10,000	3,000	34	800	400	15 J	<200	<20	<20	<20	-	
	12/07/01			46.88	0.00	60.24	11,000	3,400	<500	980	210 J	14 J	<500	<50	<50	<50	-	
	03/28/02			47.48	0.00	59.64	7,600	2,500	<250	840	140 J	9.0 J	28 J	<10	<10	<10	-	
	06/06/02		109.25	47.74	0.00	61.51	7,700	1,800	2.1 J	720	20	8.4 J	<100	<10	<10	<10	-	
	09/05/02			48.65	0.00	60.60	2,500	770	1.0 J	240	1.9 J	9.7 J	36 J	<10	<10	<10	-	
	12/05/02			49.30	0.00	59.95	480	270	<2.0	23	<4.0	8.0	68	<5.0	<5.0	<5.0	-	
	02/18/03			49.61	0.00	59.64	310	39	<2.0	3.1	<4.0	6.8	87	<5.0	<5.0	<5.0	<150	
	05/19/03			49.63	0.00	59.62	120	4.2	<2.0	3.9	0.59 J	7.7	86	<5.0	<5.0	<5.0	<150	
	08/19/03			49.85	0.00	59.40	140	8.2	<2.0	0.87 J	4.3	4.2 J	70	<5.0	<5.0	<5.0	<150	
	11/18/03			50.41	0.00	58.84	80	4.4	<2.0	0.47 J	<4.0	2.5 J	52	<5.0	<5.0	<5.0	<150	
	02/24/04			50.27	0.00	58.98	140	6.8	0.53 J	0.99 J	0.95 J	3.0 J	35 J	<5.0	<5.0	<5.0	<150	
	05/25/04			50.90	0.00	58.35	76	9.9	0.51 J	0.65 J	0.58 J	2.2 J	36	<5.0	<5.0	<5.0	<150	
	08/24/04			51.38	0.00	57.87	100	12	0.58 J	1.2 J	1.5 J	1.9 J	22 J	<5.0	<5.0	<5.0	<150	
	11/16/04	MD		51.81	0.00	57.44	-	-	-	-	-	-	-	-	-	-	-	
	11/17/04			-	-	-	99	6.4	<2.0	0.50 J	<4.0	3.4 J	22 J	0.25 J	<5.0	<5.0	<150	
	02/08/05			52.09	0.00	57.16	100	8.1	0.37 J	0.68 J	0.94 J	1.7 J	12 J	<5.0	<5.0	<5.0	<150	
	05/03/05			52.05	0.00	57.20	490	290	3.1 J	43	29	1.8 J	<200	<20	<20	<20	<600	
	08/02/05			51.99	0.00	57.26	1,200	680	<20	69	12 J	<50	<500	<50	<50	<50	<1,500	
	11/01/05			51.75	0.00	57.50	260	18	<2.0	0.76 J	0.91 J	3.6 J	13 J	<5.0	<5.0	<5.0	<150	
	01/31/06			51.40	0.00	57.85	190	34	0.59 J	1.8 J	1.7 J	2.6 J	13 J	<5.0	<5.0	0.39 J	<150	
	05/02/06			51.19	0.00	58.06	450	200	0.61 J	3.8	3.5 J	2.3 J	15 J	<5.0	<5.0	<5.0	<150	
	08/01/06			50.88	0.00	58.37	380	120	<4.0	2.3 J	2.5 J	2.4 J	18 J	<10	<10	<10	<300	
	11/07/06			50.66	0.00	58.59	4,900	3,000	6.0	320	22	1.8 J	15 J	<10	<10	<10	<300	
	02/13/07			50.31	0.00	58.94	170	21	<1.0	0.86 J	<1.0	1.2	<25	<2.0	<2.0	<2.0	<500	
	05/01/07			50.49	0.00	58.76	170	28	<1.0	<1.0	<1.0	1.7	26	<2.0	<2.0	<2.0	<500	
	08/07/07			50.50	0.00	58.75	1,300	740	<10	4.8 J	17	<10	<250	<20	<20	<20	<5,000	
	11/14/07			50.55	0.00	58.70	230	54	0.36 J	0.33 J	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	02/12/08			50.18	0.00	59.07	68	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	05/13/08			51.12	0.00	58.13	4,000	1,700	<5.0	100	100	<5.0	<100	<5.0	<5.0	<5.0	<1,500	
	08/12/08			51.15	0.00	58.10	4,500	2,500	46	<10	68 J	<10	<200	<10	<10	<10	<3,000	
	11/11/08			-	-	-	2,100	1,300	<20	76	<160	<20	<400	<20	<20	<20	<6,000	
	11/18/08	MD		52.40	0.00	56.85	-	-	-	-	-	-	-	-	-	-	-	
	02/10/09		109.56	52.81	0.00	56.75	2,800	1,400	13	47	34 J	<10	<200	<10	<10	<10	<3,000	
	05/12/09			52.67	0.00	56.89	2,500	1,500	13	31	<80	<10	<200	<10	<10	<10	<3,000	
	08/11/09	MD		53.85	0.00	55.71	-	-	-	-	-	-	-	-	-	-	-	
	08/14/09			-	-	-	16,000	6,700	63	440	370	<50	<1,000	<50	<50	<50	<15,000	
	02/10/10			54.03	0.00	55.53	1,700	700	<5.0	4.6 J	<40	<5.0	<100	<5.0	<5.0	<5.0	<1,500	
	05/11/10	MD		55.08	0.00	54.48	-	-	-	-	-	-	-	-	-	-	-	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-19	05/11/10		109.56	-	-	-	1,900	870	9.1	19	16 J	<5.0	<100	<5.0	<5.0	<5.0	<1,500	
	08/10/10	MD		54.58	0.00	54.98	-	-	-	-	-	-	-	-	-	-	-	
	08/11/10			-	-	-	1,400	570	<5.0	3.5 J	<40	<5.0	73 J	<5.0	<5.0	<5.0	<1,500	
	11/09/10	MD		56.07	0.00	53.49	-	-	-	-	-	-	-	-	-	-	-	
	11/10/10			-	-	-	3,000	1,300	12	14	14	<5.0	<100	<5.0	<5.0	<5.0	<1,500	
	02/07/11	MD		56.19	0.00	53.37	-	-	-	-	-	-	-	-	-	-	-	
	02/08/11			-	-	-	1,100	600	<5.0	3.9 J	<40	<5.0	<100	<5.0	<5.0	<5.0	<1,500	
	05/10/11			56.46	0.00	53.10	1,600	700	<5.0	6.0	<40	<5.0	<100	<5.0	<5.0	<5.0	<1,500	
	08/09/11			56.49	0.00	53.07	1,100	570	1.9 J	2.4 J	<20	<2.5	<50	<2.5	<2.5	<2.5	<750	
	11/08/11			56.65	0.00	52.91	1,000	450	<2.5	2.0 J	<20	<2.5	<50	<2.5	<2.5	<2.5	<750	
	02/07/12			56.53	0.00	53.03	1,000	500	<5.0	2.7 J	<40	<5.0	<100	<5.0	<5.0	<5.0	<1,500	
	05/08/12			56.25	0.00	53.31	420	89	<1.0	<1.0	<8.0	<1.0	39	<1.0	<1.0	<1.0	<300	
	08/06/12	MD		56.09	0.00	53.47	-	-	-	-	-	-	-	-	-	-	-	
	08/08/12			-	-	-	430	280	<8.0	1.4 J	<8.0	<4.0	<40	<20	<20	1.5 J	<600	
	11/06/12	MD		56.18	0.00	53.38	-	-	-	-	-	-	-	-	-	-	-	
	11/07/12			-	-	-	440	200	<2.0	1.3 J	<16	<2.0	<40	<2.0	<2.0	<2.0	<600	
	02/12/13	MD		56.46	0.00	53.10	-	-	-	-	-	-	-	-	-	-	-	
	02/13/13			-	-	-	710	290	<2.5	1.8 J	<20	<2.5	<50	<2.5	<2.5	<2.5	<750	
MW-20	06/26/90		110.49	56.65	0.00	53.84	400	10	<2	<2	22	-	-	-	-	-	-	
	06/29/93		106.37	54.95	0.00	51.42	1,400	240	41	37	120	-	-	-	-	-	-	
	09/20/93			54.17	0.00	52.20	2,500	440	160	74	240	-	-	-	-	-	-	
	11/15/93			53.57	0.00	52.80	500	41	120	6.0	15	-	-	-	-	-	-	
	04/18/94			52.47	0.00	53.90	720	90	49	23	81	-	-	-	-	-	-	
	11/04/94			49.97	0.00	56.40	4,900	1,200	72	430	870	-	-	-	-	-	-	
	03/20/95			48.76	0.00	57.61	1,600	330	12	46	150	-	-	-	-	-	-	
	04/13/95			48.49	0.00	57.88	6,100	1,100	18	350	580	-	-	-	-	-	-	
	09/08/95			47.42	0.00	58.95	5,300	1,500	15	420	650	-	-	-	-	-	-	
	11/15/95			47.12	0.00	59.25	6,300	230	6.8	370	540	-	-	-	-	-	-	
	01/22/96			49.31	0.00	57.06	1,900	430	<3.0	220	370	-	-	-	-	-	-	
	04/30/96			46.10	0.00	60.27	3,100	630	<6.0	560	560	-	-	-	-	-	-	
	07/31/96			46.10	0.00	60.27	1,500	200	1.9	140	240	43	-	-	-	-	-	
	11/22/96			45.93	0.00	60.44	1,800	280	3.4	230	310	<10	-	-	-	-	-	
	03/14/97			44.91	0.00	61.46	2,800	350	<3.0	340	500	<10	-	-	-	-	-	
	05/05/97			44.55	0.00	61.82	1,700	130	1.7	220	130	64	-	-	-	-	-	
	07/22/97			44.70	0.00	61.67	960	130	1.8	120	160	<25	-	-	-	-	-	
	10/10/97			44.88	0.00	61.49	4,500	730	<5.1	580	750	96	-	-	-	-	-	
	01/30/98			44.46	0.00	61.91	1,600	310	17	160	100	<20	-	-	-	-	-	
	06/05/98			43.35	0.00	63.02	830	67	3.7	1.6	5.8	48	-	-	-	-	-	
	09/14/98			42.35	0.00	64.02	1,400	170	13	52	140	<50	-	-	-	-	-	
	12/18/98			42.45	0.00	63.92	580	52	5.3	25	31	33	-	-	-	-	-	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-20	02/15/99		106.37	42.35	0.00	64.02	480	39	3.0	24	19	23	-	-	-	-	-	
	05/12/99			42.65	0.00	63.72	170	22	3.2	16	8.5	<10	-	-	-	-	-	
	09/21/99			43.29	0.00	63.08	200	18	<0.30	1.3	0.95	<10	-	-	-	-	-	
	12/07/99			43.76	0.00	62.61	220	16	<2.0	2.7	<4.0	10	-	-	-	-	-	
	03/21/00		106.44	44.14	0.00	62.30	170	18	<1.0	0.46 J	<1.0	11	-	-	-	-	-	
	06/14/00			44.54	0.00	61.90	110	37	<2.0	3.1	<4.0	20	<50	<5.0	<5.0	<5.0	-	
	08/23/00			44.19	0.00	62.25	58	6.8	0.31 J	3.4	5.0	59	82	1.7 J	<5.0	<5.0	-	
	12/08/00			45.67	0.00	60.77	7,200	980	96	450	980	190	360	4.3 J	<5.0	<5.0	-	
	02/15/01			45.85	0.00	60.59	2,700	510	26	52	370	99	120	<5.0	<5.0	<5.0	-	
	06/14/01			46.02	0.00	60.42	14,000	2,500	<60	830	1,700	700	<500	<50	<50	<50	-	
	09/14/01			46.75	0.00	59.69	7,700	1,600	16	650	980	1,000	330	6.2 J	<12	9.0 J	-	
	12/07/01			47.12	0.00	59.32	14,000	3,100	<500	1,500	2,100	1,500	940	6.0 J	<20	7.0 J	-	
	03/28/02			47.59	0.00	58.85	8,100	1,600	<250	750	650	1,500	350	<20	<20	<20	-	
	06/06/02		108.58	47.57	0.00	61.01	7,700	1,400	3.4 J	740	370	1,600	720	5.2 J	<25	7.4 J	-	
	09/05/02			48.35	0.00	60.23	6,800	1,900	3.4 J	900	200	1,500	420	4.9 J	<20	10 J	-	
	12/05/02			49.03	0.00	59.55	6,100	1,800	4.6 J	760	37	2,100	470	5.2 J	<20	8.8 J	-	
	02/18/03			49.30	0.00	59.28	8,800	1,900	<50	680	73 J	2,000	720 J	<120	<120	11 J	<3,800	
	05/19/03			49.46	0.00	59.12	4,600	1,500	<50	520	48 J	1,900	510 J	<120	<120	12 J	<3,800	
	08/19/03			49.70	0.00	58.88	5,500	920	<50	270	39 J	1,900	420 J	<120	<120	10 J	<3,800	
	11/18/03			50.31	0.00	58.27	2,700	430	<50	110	28 J	1,200	410 J	<120	<120	<120	<3,800	
	02/24/04			50.14	0.00	58.44	5,000	1,100	<50	420	110	3,300	660 J	<120	<120	18 J	<3,800	
	05/25/04			50.74	0.00	57.84	4,600	860	<40	420	62 J	3,400	920 J	6.2 J	<100	19 J	<3,000	
	08/24/04			51.26	0.00	57.32	4,600	760	<40	330	56 J	3,600	660 J	6.4 J	<100	28 J	<3,000	
	11/16/04			51.94	0.00	56.64	4,600	93	<10	36	5.8 J	340	61 J	<25	<25	2.5 J	<750	
	02/08/05			52.14	0.00	56.44	4,500	680	<100	220	34 J	3,900	580 J	<250	<250	26 J	<7,500	
	05/03/05			51.93	0.00	56.65	5,600	630	<100	99 J	70 J	4,800	910 J	<250	<250	<250	<7,500	
	08/02/05			52.02	0.00	56.56	7,000	2,600	14 J	400	240	1,400	710 J	<200	<200	<200	<6,000	
	11/01/05			51.57	0.00	57.01	6,700	590	<100	68 J	<200	2,500	1,000 J	<250	<250	16 J	<7,500	
	01/31/06			51.07	0.00	57.51	3,500	560	<20	43	61	2,800	2,200	5.7 J	<50	23 J	<1,500	
	05/02/06			50.93	0.00	57.65	3,500	<50	<50	<50	<100	<120	11,000	<120	<120	<120	<3,800	
	08/01/06			50.61	0.00	57.97	3,400	230	<40	11 J	<80	1,100	3,800	<100	<100	<100	<3,000	
	11/07/06			50.37	0.00	58.21	6,100	2,300	140	290	490	820	1,100	2.8 J	<20	<20	<600	
	02/13/07			50.31	0.00	58.27	810	68	6.4	7.7	13	380	4,000	4.2 J	<10	3.0 J	<2,500	
	05/01/07			49.85	0.00	58.73	1,600	380	11	29	64	210	2,800	<10	<10	<10	<2,500	
	08/07/07			50.00	0.00	58.58	5,800	3,000	39 J	460	740	220	2,300	<100	<100	<100	<25,000	
	11/14/07			50.29	0.00	58.29	2,100	500	3.8	65	130	44	3,700	5.8	<2.5	<2.5	<750	
	02/12/08			50.32	0.00	58.26	2,200	440	<5.0	57	100	<5.0	920	<5.0	<5.0	4.1 J	<1,500	
	05/13/08			50.70	0.00	57.88	1,900	550	<5.0	77	89	<5.0	1,800	2.6 J	<5.0	<5.0	<1,500	
	08/12/08			51.17	0.00	57.41	8,600	3,400	450	<20	600	89	1,400	<20	<20	<20	<6,000	
	11/11/08			-	-	-	6,900	4,000	23 J	520	480	33	530	<25	<25	<25	<7,500	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
MW-20	11/18/08	MD	108.58	52.32	0.00	56.26	-	-	-	-	-	-	-	-	-	-	-	
	02/10/09		110.49	52.69	0.00	57.80	2,300	1,000	9.4 J	120	230	<10	590	<10	<10	<10	<3,000	
	05/12/09			52.80	0.00	57.69	11,000	5,200	<50	620	610	<50	<1,000	<50	<50	<50	<15,000	
	08/11/09	MD		53.48	0.00	57.01	-	-	-	-	-	-	-	-	-	-	-	
	08/13/09			-	-	-	10,000	4,200	62	460	820	<50	<1,000	<50	<50	<50	<15,000	
	02/10/10			53.41	0.00	57.08	21,000	8,500	64	1,100	1,000	<25	<500	<25	<25	<25	<7,500	
	05/11/10	MD		55.45	0.00	55.04	-	-	-	-	-	-	-	-	-	-	-	
	05/11/10			-	-	-	22,000	9,700	100	1,200	830	<50	<1,000	<50	<50	<50	<15,000	
	08/10/10	MD		54.03	0.00	56.46	-	-	-	-	-	-	-	-	-	-	-	
	08/11/10			-	-	-	8,100	5,000	<50	300	<400	<50	<1,000	<50	<50	<50	<15,000	
	11/09/10	MD		56.45	0.00	54.04	-	-	-	-	-	-	-	-	-	-	-	
	11/10/10			-	-	-	23,000	12,000	59	860	390 J	<50	<1,000	<50	<50	<50	<15,000	
	02/07/11	MD		55.99	0.00	54.50	-	-	-	-	-	-	-	-	-	-	-	
	02/08/11			-	-	-	8,000	4,900	<50	200	<400	<50	<1,000	<50	<50	<50	<15,000	
	05/10/11			56.39	0.00	54.10	19,000	13,000	69	300	130 J	<50	<1,000	<50	<50	<50	<15,000	
	08/09/11			56.37	0.00	54.12	3,400	2,500	<20	21	<160	<20	<400	<20	<20	<20	<6,000	
	11/08/11			56.48	0.00	54.01	10,000	3,900	34	76	79 J	<10	<200	<10	<10	<10	<3,000	
	02/07/12			56.24	0.00	54.25	28,000	14,000	79	110	180 J	<25	<500	<25	<25	21 J	<7,500	
	05/08/12			55.70	0.00	54.79	17,000	9,700	45	90	96 J	<25	<500	<25	<25	<25	<7,500	
	08/06/12	MD		56.02	0.00	54.47	-	-	-	-	-	-	-	-	-	-	-	
	08/08/12			-	-	-	6,700	4,300	26 J	50 J	67 J	<50	<500	<250	<250	<250	<7,500	
	11/06/12			56.00	0.00	54.49	15,000	8,900	49 J	150	180 J	<50	<1,000	<50	<50	<50	<15,000	
	02/12/13	MD		56.25	0.00	54.24	-	-	-	-	-	-	-	-	-	-	-	
	02/13/13			-	-	-	9,000	5,100	30	55	59 J	<25	<500	<25	<25	<25	<7,500	
Field Blank	11/18/03		-	-	-	-	24 J	<2.0	<2.0	<2.0	<4.0	<5.0	8.4 J	<5.0	<5.0	<5.0	<150	
	11/16/04			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	02/08/05			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	05/03/05			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	08/02/05			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	11/01/05			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	01/31/06			-	-	-	25 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	05/02/06			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	08/01/06			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	11/07/06			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	02/13/07			-	-	-	<100	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<2.0	<2.0	<2.0	<500	
	08/07/07			-	-	-	<100	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<2.0	<2.0	<2.0	<500	
	11/14/07			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	02/12/08			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	05/13/08			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	08/12/08			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
Field Blank	11/11/08		-	-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	02/10/09			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	05/12/09			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	08/13/09			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	02/10/10			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	05/12/10			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	08/11/10			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	11/09/10			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	02/08/11			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	05/10/11			-	-	-	<50	0.28 J	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	08/09/11			-	-	-	<50	<0.50	0.76	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	11/08/11			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	02/08/12			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	05/08/12			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	08/08/12			-	-	-	<50	<2.0	0.92 J	<2.0	1.1 J	<1.0	10	<5.0	<5.0	<5.0	<150	
	11/06/12			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<1.0	<10	<0.50	<0.50	<0.50	<150	
	02/13/13			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<1.0	<10	<0.50	<0.50	<0.50	<150	
Trip Blank	09/29/99		-	-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	-	-	-	-	-	
	12/07/99			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	-	-	-	-	-	
	06/14/00			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	
	08/23/00			-	-	-	<50	0.19 J	0.31 J	0.084 J	<4.0	<5.0	15 J	<5.0	<5.0	<5.0	-	
	12/08/00			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<5.0	<50	<5.0	<5.0	<5.0	-	
	02/15/01			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<5.0	<50	<5.0	<5.0	<5.0	-	
	06/14/01			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<5.0	<50	<5.0	<5.0	<5.0	-	
	09/14/01			-	-	-	<50	<0.30	<0.30	<0.30	<0.60	<5.0	<50	<5.0	<5.0	<5.0	-	
	12/07/01			-	-	-	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	-	
	03/28/02			-	-	-	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	-	
	06/06/02			-	-	-	9.7 J	<2.0	0.18 J	<2.0	0.20 J	<5.0	<50	<5.0	<5.0	<5.0	-	
	09/05/02			-	-	-	12 J	<2.0	0.47 J	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	
	12/05/02			-	-	-	15	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	-	
	02/18/03			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	05/19/03			-	-	-	11 J	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	08/19/03			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	11/18/03			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	02/24/04			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	05/25/04			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	08/24/04			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	11/16/04			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	02/08/05			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	05/03/05			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	

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ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Well No.	Date	Notes	TOC Elevation (ft-MSL)	Depth to Water (feet)	Measured SPH Thickness (feet)	Calc. GW Elev. (ft-MSL)	GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Ethanol (µg/L)	Comments
Trip Blank	05/03/05		-	-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	08/02/05			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	11/01/05			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	01/31/06			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	05/02/06			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	08/01/06			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	11/07/06			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	02/13/07			-	-	-	<100	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<2.0	<2.0	<2.0	<500	
	05/01/07			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	08/07/07			-	-	-	<100	<1.0	<1.0	<1.0	<1.0	<1.0	<25	<2.0	<2.0	<2.0	<500	
	08/07/07			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	11/14/07			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	11/14/07			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	02/12/08			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	02/12/08			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	05/13/08			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	05/13/08			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	08/12/08			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	08/12/08			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	11/11/08			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	11/11/08			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	02/10/09			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	02/10/09			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	02/11/09			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	05/12/09			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	05/12/09			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	08/11/09			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	08/12/09			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	08/13/09			-	-	-	<50	<0.50	<0.50	<0.50	<4.0	<0.50	<10	<0.50	<0.50	<0.50	<150	
	08/13/09			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	
	11/08/11			-	-	-	<50	<2.0	<2.0	<2.0	<4.0	<5.0	<50	<5.0	<5.0	<5.0	<150	

TABLE 2
Summary of Groundwater Analytical & Elevation Results
ARCO Station No. 5110
5731 East Firestone Blvd., South Gate, California

Notes:

GRO = Gasoline range organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total xylenes
MTBE = Methyl Tert-Butyl Ether
TBA = Tert-Butyl Alcohol
DIPE = Di-Isopropyl Ether
ETBE = Ethyl Tert-Butyl Ether
TAME = Tert-Amyl Methyl Ether
SPH = Separate phase hydrocarbons
TOC = Top of casing (surveyed)
Calc. GW Elev. = Calculated groundwater elevation = TOC - Depth to Water + 0.75*(Measured SPH Thickness); assuming a specific gravity of 0.75 for SPH
ft-MSL = feet above mean sea level
µg/L = Micrograms per liter
< = Analyte was not detected at or above the specified method detection limit (MDL); except after 2006 Quarter 2 where reporting limits are used.
- = Not measured or analyzed
J = Estimated value (less than the method reporting limit and greater than or equal to the method detection limit)
Refer to the reports in which data was first presented for more information on historical data.

GRO analyzed by EPA Method 8015 Modified. The carbon chain range used for analysis since 2000 Quarter 2 is C4-C12.
BTEX and oxygenates analyzed by EPA Method 8260B since 2000 Quarter 2.
ABN = Well abandoned; no sampling performed
DUP = Duplicate sample
GAU = Well gauged, but not sampled, per monitoring program.
INA = Well inaccessible; not sampled
INACT = Well inactive; not included in groundwater monitoring program
MD = Sampling & gauging performed over mutiple days during this event.

TABLE 3
WELL CONSTRUCTION DETAILS
ARCO STATION NO. 5110
5731 EAST FIRESTONE BOULEVARD
SOUTH GATE, CALIFORNIA

Well Number	Well Installation Date	Well Destruction Date	Casing Diameter (in)	Casing Slot Size (in)	Total Depth (ft bgs)	Screened Intervals (ft bgs)
MW-19	9/20/1989	-	4	0.020	70.3	45-70
MW-20	9/20/1989	-	4	0.020	69.0	44-69
D-1	6/21/1990	1/24/2002	4	0.020	72.0	7-72
D-2	6/22/1990	1/25/2002	4	0.020	46.9	6.9-46.9
D-3	6/22/1990	-	4	0.020	47.3	7-47
VEW-1	4/6/1995	1/24/2002	2	0.040	50.0	15-25
			2	0.040		30-50
VEW-2	4/7/1995	-	2	0.040	54.0	4-7
			2	0.040		12-29
			2	0.040		34-54
VEW-3	4/8/1995	1/24/2002	2	0.040	50.0	5-11
			2	0.040		15-25
			2	0.040		30-50
VEW-4	4/9/1995	1/25/2002	2	0.040	50.0	5-10
			2	0.040		15-25
			2	0.040		30-50
MW-A1	1998	-	2	0.020	61.4	NA
MW-A2	1998	-	2	0.020	56.6	NA
MW-A3	12/1/1999	-	4	0.020	65.0	35-65
MW-A4	12/1/1999	-	4	0.020	65.0	35-65
MW-A5	10/21/2001	-	4	0.020	65.0	30-65
MW-A6	10/30/2001	-	4	0.020	65.0	30-65
MW-A7	4/16/2002	-	2	0.020	65.0	10-30
			4	0.020		35-65
MW-A8s	10/12/2005	-	2	0.020	94.0	43-63
MW-A8d			2	0.020	67.5	74-94
AS/SVE-1	9/30/2003	-	2	0.020	70.0	8-28
			2	0.020		35-55
			1	0.020		64-66
AS/SVE-2	10/2/2003	-	2	0.020	70.0	7-27
			2	0.020		35-55
			1	0.020		63-65
AS/SVE-3	10/4/2003	-	2	0.020	70.0	8-28
			2	0.020		35-55
			1	0.020		66-68
AS/SVE-4	9/30/2003	-	2	0.020	70.0	7-27
			2	0.020		34-54
			1	0.020		60-62
AS/SVE-5	9/29/2003	-	2	0.020	70.0	7-27
			2	0.020		35-55
			1	0.020		64-66
DW-1	12/11/2008	-	2	0.020	70.0	45-70
DW-2	12/10/2008	-	2	0.020	70.0	45-70
DW-3	12/18/2008	-	2	0.020	70.0	45-70
DW-4	12/12/2008	-	2	0.020	70.0	45-70

Notes:
- - Active

Appendix A

Groundwater Field Data Sheets

Subjective and Well -Head Evaluation Form

Project No.: Q1-2013 GROUNDWATER Location: South Gate Date: 2-12-13

Station No.: 5110 Field Technician: DANNIE MEYER Day of Week: TUESDAY

DTW ORDER	WELL ID	SURFICIAL SEAL	CONCRETE SEAL	LID SECURE	GASKET	LOCK	EXPANDING CAP	TOTAL DEPTH (feet)	DEPTH TO WATER (feet)	~~FLOATING PRODUCT THICKNESS (feet)~~ Log to DT Bottom	DISSOLVED OXYGEN READING (mg/L)	COMMENTS
5	MW-A1	P	P	P	N	N	Y	62.00	56.35	(60) –	0.33	WELL BOX DINGED, ONE BOLT, BAD CONCRETE
4	MW-A2	P	P	P	N	N	Y	59.12	55.65	(56) –	0.41	NO BOLTS
3	MW-A5	P	G	P	N	N	Y	64.77	56.10	(65) –	0.28	NO BOLTS, NO LOCK, DIRT IN WELL BOX
6	MW-A6	G	G	P	P	N	Y	64.60	55.74	(65) >64.2	0.84	NO BOLTS *SBS BACK
2	MW-A8S	G	G	G	G	N	Y	63.61	56.32	(63) –	0.21	RETAP BOLT
1	MW-A8D	G	G	G	G	N	Y	94.56	56.85	(94) –	0.57	RETAP BOLT
	MW-19	G	G	N	N	Y	Y	70.00	56.46	—	~~0~~.49	NO Bolts / holes full of DIRT
	MW-20	G	G	N	N	Y	Y	69.00	56.25	—	~~0~~ 56.76	No Bolts

Note: Use G=Good and P=poor for well condition

GROUI WATER SAMPLE FIELD DATA `HEET

ATLANTIC RICHFIELD COMPANY

PROJECT NO: Q1-2013 Groundwater	SAMPLE ID: MW-A1
SAMPLER: D. Mellon	FACILITY NO: 5110
DATE: 2-12-13	LOCATION: South Gate

CASING DIAMETER (inches) 2 3 4 6 8 12 OTHER:

DEPTH OF WELL (feet): 62	CALCULATED PURGE (gal): 3
DEPTH TO WATER (feet): 56.35	ACTUAL PURGE VOL (gal): 3
Standing Water in Casing (feet) 5.65 x 0.20= 1.13	+ DTW 57.48 =80% Recharge Water Level

2 (inches)	Standing Water in Casing (feet) 5.65	x 0.5= 2.825	3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	x 2.0=	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=	3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=	3 Casing Volumes (gal.)

Date Purged: 2-12-13 Start (2400 Hr.): 2332 End (2400 Hr.): 2336

Date Sampled: 2-12-13 Time (2400 Hr.): 2345 DTW @ Samp. Time: 56.32

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1):

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) x1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
2333	0	11.1°C	633.5	9.31	Black/Brown	Heavy	0
2334	1	13.9°C	1383 uS	8.87	Brown	Heavy	1
2335	1	16.3°C	1599	8.94	Clear	Light	2
2336	1	18.4°C	1574	8.72	Clear	Trace	3

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	~~Bailer (Teflon)~~
Submersible Pump	~~Bailer (Stainless Steel)~~	Dipper	~~Bailer (Disposable Teflon)~~
Redi-Flo2	Dedicated	Well Wizard	Dedicated

OTHER: VAC TRUCK	OTHER:

Well Condition (cap, cement, padlock, screws, lid, etc.): ONE BOLT, CRACKED CONCRETE, LOOSE RIM

Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS:

40 ml VOA, HCL: 6 1 liter amber, none: 0 16 ox poly, HNO3: 0

WATER LEVEL ONLY. NO SAMPLE COLLECTED:

REVIEWED BY: Tracey Poulsen DATE: 2/20/13

GROUI WATER SAMPLE FIELD DATA HEET

ATLANTIC RICHFIELD COMPANY

PROJECT NO: Q1-2013 Groundwater	SAMPLE ID: MW-A2
SAMPLER: D. MOLNER	FACILITY NO: 5110
DATE: 2-12-13	LOCATION: South Gate

CASING DIAMETER (inches) (2) 3 4 6 8 12 OTHER:

DEPTH OF WELL (feet): 59.12	CALCULATED PURGE (gal): 2
DEPTH TO WATER (feet): 55.65	ACTUAL PURGE VOL (gal): 2
Standing Water in Casing (feet) 3.47 x 0.20= 0.694	+ DTW 56.34 =80% Recharge Water Level

2 (inches)	Standing Water in Casing (feet)	3.47 x 0.5= 1.735	3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	x 2.0=	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=	3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=	3 Casing Volumes (gal.)

Date Purged: 2-12-13 Start (2400 Hr.): 2218 End (2400 Hr.): 2218

Date Sampled: 2-12-13 Time (2400 Hr.): 2230 DTW @ Samp. Time: 55.67

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1):

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) X1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
2218	0	11.2°C	1986	9.26	Cloudy	Moderate	0
2226	0.5	14.7°C	2148	8.80	Cloudy	Light	0.5
2227	0.5	16.8°C	2165	8.96	Clear	Trace	1.0
2228	1.0	17.6°C	2157	8.81	Clear	Trace	2

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	Bailer (Teflon)
Submersible Pump	Bailer (Stainless Steel)	Dipper	Bailer (Disposable Teflon)
Redi-Flo2	Dedicated	Well Wizard	Dedicated

OTHER: VAC TRUCK	OTHER:

Well Condition (cap, cement, padlock, screws, lid, etc.): BOLTS MISSING - TEMP BOLT INSTALLED

Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS: INSTALLED TEMP BOLT

40 ml VOA, HCL: 6 1 liter amber, none: 0 16 ox poly, HNO3: 0

WATER LEVEL ONLY. NO SAMPLE COLLECTED:

REVIEWED BY: Tracy Cortez DATE: 2/20/13

GROU(WATER SAMPLE FIELD DAT/ `HEET

ATLANTIC RICHFIELD COMPANY	PROJECT NO: Q1-2013 Groundwater	SAMPLE ID: MW-A5
	SAMPLER: D. MEYER	FACILITY NO: 5110
	DATE: 2-12-13	LOCATION: South Gate

CASING DIAMETER (inches) 2 3 (4) 6 8 12 OTHER:

DEPTH OF WELL (feet): 64.77	CALCULATED PURGE (gal): 17
DEPTH TO WATER (feet): 56.10	ACTUAL PURGE VOL (gal): 17
Standing Water in Casing (feet) 8.67 x 0.20= 1.734	+ DTW 57.83 =80% Recharge Water Level

2 (inches)	Standing Water in Casing (feet)	x 0.5=		3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	8.67	x 2.0= 17.34	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=		3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=		3 Casing Volumes (gal.)

Date Purged: 2-12-13 Start (2400 Hr.): 2126 End (2400 Hr.): 2134

Date Sampled: 2-12-13 Time (2400 Hr.): 2140 DTW @ Samp. Time: 56.22

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1):

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) X1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
2128	0	13.4°C	2020 uS	8.03	Cloudy	Light	0
2130	6	19.0°C	1599	8.46	Clear	Trace	6
2132	6	20.6°C	1679	8.56	Clear	Trace	12
2134	6	20.1°C	1711	8.69	Clear	Trace	17

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	Bailer (Teflon)
Submersible Pump	Bailer (Stainless Steel)	Dipper	Bailer (Disposable Teflon)
Redi-Flo2	Dedicated	Well Wizard	Dedicated
OTHER: VAC TRUCK		OTHER:	

Well Condition (cap, cement, padlock, screws, lid, etc.): ONE BOLT MISSING

Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS: INSTALLED ONE BOLT

40 ml VOA, HCL: 6 1 liter amber, none: 0 16 ox poly, HNO3: 0

WATER LEVEL ONLY. NO SAMPLE COLLECTED: REVIEWED BY: Randy Bertaine DATE: 2/20/13

GROU! WATER SAMPLE FIELD DAT/ 'HEET

ATLANTIC RICHFIELD COMPANY	PROJECT NO: Q1-2013 Groundwater	SAMPLE ID: MW-A6
	SAMPLER: D. MEIJER	FACILITY NO: 5110
	DATE: 2-13-13	LOCATION: South Gate

CASING DIAMETER (inches) 2 3 (4) 6 8 12 OTHER:

DEPTH OF WELL (feet):	64.60	CALCULATED PURGE (gal):	18
DEPTH TO WATER (feet):	55.74	ACTUAL PURGE VOL (gal):	18

Standing Water in Casing (feet) 8.86 x 0.20= 1.772 + DTW 57.51 =80% Recharge Water Level

2 (inches)	Standing Water in Casing (feet)	x 0.5=		3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	8.86	x 2.0= 17.72	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=		3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=		3 Casing Volumes (gal.)

Date Purged: 2-13-13 Start (2400 Hr.): 0010 End (2400 Hr.): 0028

Date Sampled: 2-13-13 Time (2400 Hr.): 0040 DTW @ Samp. Time: 56.79

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1):

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) X1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
0011	0	10.7°C	1814 uS	9.08	Brown	Moderate	0
0016	6	14.2°C	1833	9.28	Cloudy	Light	6
0021	6	15.2°C	1864	9.17	Cloudy	Light	12
0028	6	15.2°C	1854	9.03	Cloudy	Light	18

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	Bailer (Teflon)
Submersible Pump	Bailer (Stainless Steel)	Dipper	Bailer (Disposable Teflon)
Redi-Flo2	Dedicated	Well Wizard	Dedicated
OTHER: VAC TRUCK		OTHER:	

Well Condition (cap, cement, padlock, screws, lid, etc.): NO BOLTS, SAND IN WELL

Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS:

40 ml VOA, HCL: 6 1 liter amber, none: 0 16 ox poly, HNO3: 0

WATER LEVEL ONLY. NO SAMPLE COLLECTED: REVIEWED BY: Reveg Rodue DATE: 2/20/13

GROU WATER SAMPLE FIELD DAT/ SHEET

ATLANTIC RICHFIELD COMPANY

PROJECT NO: Q1-2013 Groundwater	SAMPLE ID: MW-A8D
SAMPLER: D. MEIJER	FACILITY NO: 5110
DATE: 2-12-13	LOCATION: South Gate

CASING DIAMETER (inches) (2) 3 4 6 8 12 OTHER:

DEPTH OF WELL (feet): 94.56	CALCULATED PURGE (gal):
DEPTH TO WATER (feet): 56.85	ACTUAL PURGE VOL (gal): N/A
Standing Water in Casing (feet) x 0.20=	+ DTW =80% Recharge Water Level

2 (inches)	Standing Water in Casing (feet)	x 0.5=	3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	x 2.0=	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=	3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=	3 Casing Volumes (gal.)

Date Purged: N/A Start (2400 Hr.): N/A End (2400 Hr.): N/A

Date Sampled: 2-12-13 Time (2400 Hr.): 1850 DTW @ Samp. Time: 56.85

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1):

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (degrees F)	E.C. (uS/cm) X1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
		NO	PURGE	SAMPLE			

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT: (NONE)		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	Bailer (Teflon)
Submersible Pump	Bailer (Stainless Steel)	Dipper	(Bailer (Disposable Teflon))
Redi-Flo2	Dedicated	Well Wizard	Dedicated

OTHER: VAC TRUCK	OTHER:

Well Condition (cap, cement, padlock, screws, lid, etc.): BOLT RETAP NEEDED

Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS:

NO PURGE SAMPLE

40 ml VOA, HCL: 6 1 liter amber, none: 3 16 ox poly, HNO3: 0

WATER LEVEL ONLY. NO SAMPLE COLLECTED: REVIEWED BY: Ronald Cortez DATE: 2/20/13

GROU' 'WATER SAMPLE FIELD DAT/ 'HEET

ATLANTIC RICHFIELD COMPANY

PROJECT NO: Q1-2013 Groundwater	SAMPLE ID: MW-A8S
SAMPLER: D. MEIDER	FACILITY NO: 5110
DATE: 2-12-13	LOCATION: South Gate

CASING DIAMETER (inches) (2) 3 4 6 8 12 OTHER:

DEPTH OF WELL (feet): ~~56.63~~ 61	CALCULATED PURGE (gal): 4
DEPTH TO WATER (feet): 56.32	ACTUAL PURGE VOL (gal): 4
Standing Water in Casing (feet) 7.29 x 0.20= 1.458	+ DTW 57.78 =80% Recharge Water Level

2 (inches)	Standing Water in Casing (feet) 7.29	x 0.5= 3.6	3 Casing Volumes (gal.)
4 (inches)	Standing Water in Casing (feet)	x 2.0=	3 Casing Volumes (gal.)
6 (inches)	Standing Water in Casing (feet)	x 4.4=	3 Casing Volumes (gal.)
8 (inches)	Standing Water in Casing (feet)	x 7.8=	3 Casing Volumes (gal.)

Date Purged: 2-12-13 Start (2400 Hr.): 1807 End (2400 Hr.): 1812

Date Sampled: 2/12/13 Time (2400 Hr.): 1820 DTW @ Samp. Time: 56.32

FIELD QC SAMPLES COLLECTED AT THIS WELL (IE: FB-1, X-DUP-1): TB-5110-20130212@1700

TIME (2400 Hr.)	VOLUME (gallons)	TEMP (~~degrees F~~)	E.C. (uS/cm) x1000	pH (units)	COLOR (visual)*	TURBIDITY (visual)**	TOTALIZE (gallons)
1808	0	14.3 °C	15.77 mS	4.17	Cloudy	Moderate	0
1810	1.5	16.5	2891 µS	7.96	Cloudy	Moderate	1.5
1811	1.5	16.6	2603	8.95	Clear	Light	3.0
1812	1.5	17.0	2342	8.76	Clear	Trace	~~4.5~~ 4.0

* (Color) Clear, Cloudy, Yellow, Brown ** (Turbidity) Heavy, Moderate, Light, Trace

PURGING EQUIPMENT		SAMPLING EQUIPMENT	
2" Bladder Pump	Bailer (Teflon)	2" Bladder Pump	Bailer (Stainless Steel)
Contrifugal Pump	Bailer (PVC)	Submersible Pump	Bailer (Teflon)
Submersible Pump	Bailer (Stainless Steel)	Dipper	(Bailer (Disposable Teflon))
Redi-Flo2	(Dedicated)	Well Wizard	Dedicated

OTHER: (VAC TRUCK)	OTHER:

Well Condition (cap, cement, padlock, screws, lid, etc.): BOLT RETAP NEEDED

Floating Product Thickness (feet): Color: Padlock Number:

COMMENTS:

40 ml VOA, HCL: 6 1 liter amber, none: 0 16 ox poly, HNO3: 0

WATER LEVEL ONLY. NO SAMPLE COLLECTED: REVIEWED BY: Randy Cantrell DATE: 2/20/13

Appendix B

Laboratory Report and Chain of Custody

TestAmerica

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: 440-38271-1
Client Project/Site: ARCO 5110, South Gate

For:
Stantec Consulting Corp.
290 Conejo Ridge Avenue, Suite 200
Thousand Oaks, California 91361

Attn: BP CentralLA

Authorized for release by:
2/27/2013 4:44:16 PM

Kathleen Robb
Project Manager II
kathleen.robb@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC 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.

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Sample Summary

Client: Stantec Consulting Corp.
Project/Site: ARCO 5110, South Gate

TestAmerica Job ID: 440-38271-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-38271-1	MW-A1	Water	02/12/13 23:45	02/13/13 17:30
440-38271-2	MW-A2	Water	02/12/13 22:30	02/13/13 17:30
440-38271-3	MW-A5	Water	02/12/13 21:40	02/13/13 17:30
440-38271-4	MW-A6	Water	02/13/13 00:40	02/13/13 17:30
440-38271-5	MW-A8s	Water	02/12/13 18:20	02/13/13 17:30
440-38271-6	MW-A8d	Water	02/12/13 18:50	02/13/13 17:30

Job ID: 440-38271-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-38271-1

Comments
No additional comments.

Receipt
The samples were received on 2/13/2013 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.9º C, 2.5º C, 3.0º C, 3.2º C and 3.2º C.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 87446 exceeded control limits for the following analytes: ethanol.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 87446 were outside control limits.

No other analytical or quality issues were noted.

GC VOA
Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: MW-A2 (440-38271-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: ARCO 5110, South Gate

TestAmerica Job ID: 440-38271-1

Client Sample ID: MW-A1

Lab Sample ID: 440-38271-1
Matrix: Water

Date Collected: 02/12/13 23:45
Date Received: 02/13/13 17:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**5.1**		0.50	0.28	ug/L			02/23/13 11:26	1
Isopropyl Ether (DIPE)	ND		0.50	0.25	ug/L			02/23/13 11:26	1
Ethanol	ND		150	100	ug/L			02/23/13 11:26	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	0.28	ug/L			02/23/13 11:26	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/23/13 11:26	1
m,p-Xylene	ND		1.0	0.60	ug/L			02/23/13 11:26	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.32	ug/L			02/23/13 11:26	1
o-Xylene	ND		0.50	0.30	ug/L			02/23/13 11:26	1
Tert-amyl-methyl ether (TAME)	ND		0.50	0.33	ug/L			02/23/13 11:26	1
tert-Butyl alcohol (TBA)	ND		10	6.5	ug/L			02/23/13 11:26	1
Toluene	ND		0.50	0.36	ug/L			02/23/13 11:26	1
Xylenes, Total	ND		1.0	0.90	ug/L			02/23/13 11:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*02/23/13 11:26*	*1*
Dibromofluoromethane (Surr)	*93*		*80 - 120*		*02/23/13 11:26*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*02/23/13 11:26*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	**150**		50	25	ug/L			02/19/13 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*65 - 140*		*02/19/13 21:17*	*1*

Client Sample ID: MW-A2

Lab Sample ID: 440-38271-2
Matrix: Water

Date Collected: 02/12/13 22:30
Date Received: 02/13/13 17:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**170**		2.0	1.1	ug/L			02/24/13 03:44	4
Isopropyl Ether (DIPE)	ND		2.0	1.0	ug/L			02/24/13 03:44	4
Ethanol	ND	LQ	600	400	ug/L			02/24/13 03:44	4
Ethyl-t-butyl ether (ETBE)	ND		2.0	1.1	ug/L			02/24/13 03:44	4
Ethylbenzene	ND		2.0	1.0	ug/L			02/24/13 03:44	4
m,p-Xylene	ND		4.0	2.4	ug/L			02/24/13 03:44	4
Methyl-t-Butyl Ether (MTBE)	ND		2.0	1.3	ug/L			02/24/13 03:44	4
o-Xylene	ND		2.0	1.2	ug/L			02/24/13 03:44	4
Tert-amyl-methyl ether (TAME)	ND		2.0	1.3	ug/L			02/24/13 03:44	4
tert-Butyl alcohol (TBA)	ND		40	26	ug/L			02/24/13 03:44	4
Toluene	ND		2.0	1.4	ug/L			02/24/13 03:44	4
Xylenes, Total	ND		4.0	3.6	ug/L			02/24/13 03:44	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*02/24/13 03:44*	*4*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*02/24/13 03:44*	*4*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/24/13 03:44*	*4*

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: ARCO 5110, South Gate

TestAmerica Job ID: 440-38271-1

Client Sample ID: MW-A2

Lab Sample ID: 440-38271-2
Matrix: Water

Date Collected: 02/12/13 22:30
Date Received: 02/13/13 17:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	**380**		50	25	ug/L			02/20/13 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*360*	*LH*	*65 - 140*		*02/20/13 17:40*	*1*

Client Sample ID: MW-A5

Lab Sample ID: 440-38271-3
Matrix: Water

Date Collected: 02/12/13 21:40
Date Received: 02/13/13 17:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.4**		0.50	0.28	ug/L			02/23/13 13:28	1
Isopropyl Ether (DIPE)	ND		0.50	0.25	ug/L			02/23/13 13:28	1
Ethanol	ND		150	100	ug/L			02/23/13 13:28	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	0.28	ug/L			02/23/13 13:28	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/23/13 13:28	1
m,p-Xylene	ND		1.0	0.60	ug/L			02/23/13 13:28	1
Methyl-t-Butyl Ether (MTBE)	**1.2**		0.50	0.32	ug/L			02/23/13 13:28	1
o-Xylene	ND		0.50	0.30	ug/L			02/23/13 13:28	1
Tert-amyl-methyl ether (TAME)	ND		0.50	0.33	ug/L			02/23/13 13:28	1
tert-Butyl alcohol (TBA)	ND		10	6.5	ug/L			02/23/13 13:28	1
Toluene	ND		0.50	0.36	ug/L			02/23/13 13:28	1
Xylenes, Total	ND		1.0	0.90	ug/L			02/23/13 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*02/23/13 13:28*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*02/23/13 13:28*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*02/23/13 13:28*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	**74**		50	25	ug/L			02/19/13 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*65 - 140*		*02/19/13 22:13*	*1*

Client Sample ID: MW-A6

Lab Sample ID: 440-38271-4
Matrix: Water

Date Collected: 02/13/13 00:40
Date Received: 02/13/13 17:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.2**		0.50	0.28	ug/L			02/23/13 13:59	1
Isopropyl Ether (DIPE)	ND		0.50	0.25	ug/L			02/23/13 13:59	1
Ethanol	ND		150	100	ug/L			02/23/13 13:59	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	0.28	ug/L			02/23/13 13:59	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/23/13 13:59	1
m,p-Xylene	ND		1.0	0.60	ug/L			02/23/13 13:59	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.32	ug/L			02/23/13 13:59	1
o-Xylene	ND		0.50	0.30	ug/L			02/23/13 13:59	1
Tert-amyl-methyl ether (TAME)	ND		0.50	0.33	ug/L			02/23/13 13:59	1

Client Sample ID: MW-A6

Lab Sample ID: 440-38271-4
Matrix: Water

Date Collected: 02/13/13 00:40
Date Received: 02/13/13 17:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		10	6.5	ug/L			02/23/13 13:59	1
Toluene	ND		0.50	0.36	ug/L			02/23/13 13:59	1
Xylenes, Total	ND		1.0	0.90	ug/L			02/23/13 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*		*02/23/13 13:59*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*02/23/13 13:59*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*02/23/13 13:59*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	**300**		50	25	ug/L			02/19/13 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*65 - 140*		*02/19/13 22:42*	*1*

Client Sample ID: MW-A8s

Lab Sample ID: 440-38271-5
Matrix: Water

Date Collected: 02/12/13 18:20
Date Received: 02/13/13 17:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.28	ug/L			02/23/13 14:30	1
Isopropyl Ether (DIPE)	ND		0.50	0.25	ug/L			02/23/13 14:30	1
Ethanol	ND		150	100	ug/L			02/23/13 14:30	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	0.28	ug/L			02/23/13 14:30	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/23/13 14:30	1
m,p-Xylene	ND		1.0	0.60	ug/L			02/23/13 14:30	1
Methyl-t-Butyl Ether (MTBE)	**0.91**		0.50	0.32	ug/L			02/23/13 14:30	1
o-Xylene	ND		0.50	0.30	ug/L			02/23/13 14:30	1
Tert-amyl-methyl ether (TAME)	ND		0.50	0.33	ug/L			02/23/13 14:30	1
tert-Butyl alcohol (TBA)	**37**		10	6.5	ug/L			02/23/13 14:30	1
Toluene	ND		0.50	0.36	ug/L			02/23/13 14:30	1
Xylenes, Total	ND		1.0	0.90	ug/L			02/23/13 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*		*02/23/13 14:30*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*02/23/13 14:30*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*02/23/13 14:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	**30**	J,DX	50	25	ug/L			02/20/13 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*65 - 140*		*02/20/13 18:08*	*1*

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: ARCO 5110, South Gate

TestAmerica Job ID: 440-38271-1

Client Sample ID: MW-A8d

Lab Sample ID: 440-38271-6

Date Collected: 02/12/13 18:50
Date Received: 02/13/13 17:30

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**68**		0.50	0.28	ug/L			02/24/13 04:13	1
Isopropyl Ether (DIPE)	**0.57**		0.50	0.25	ug/L			02/24/13 04:13	1
Ethanol	ND	LQ	150	100	ug/L			02/24/13 04:13	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	0.28	ug/L			02/24/13 04:13	1
Ethylbenzene	**0.92**		0.50	0.25	ug/L			02/24/13 04:13	1
m,p-Xylene	**2.7**		1.0	0.60	ug/L			02/24/13 04:13	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.32	ug/L			02/24/13 04:13	1
o-Xylene	**0.41**	J,DX	0.50	0.30	ug/L			02/24/13 04:13	1
Tert-amyl-methyl ether (TAME)	ND		0.50	0.33	ug/L			02/24/13 04:13	1
tert-Butyl alcohol (TBA)	**61**		10	6.5	ug/L			02/24/13 04:13	1
Toluene	**0.74**		0.50	0.36	ug/L			02/24/13 04:13	1
Xylenes, Total	**3.1**		1.0	0.90	ug/L			02/24/13 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*02/24/13 04:13*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*02/24/13 04:13*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*02/24/13 04:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	**390**		50	25	ug/L			02/19/13 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*65 - 140*		*02/19/13 23:38*	*1*

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: ARCO 5110, South Gate

TestAmerica Job ID: 440-38271-1

Client Sample ID: MW-A1

Lab Sample ID: 440-38271-1
Matrix: Water

Date Collected: 02/12/13 23:45
Date Received: 02/13/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	87372	02/23/13 11:26	WC	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	86342	02/19/13 21:17	SC	TAL IRV

Client Sample ID: MW-A2

Lab Sample ID: 440-38271-2
Matrix: Water

Date Collected: 02/12/13 22:30
Date Received: 02/13/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	10 mL	10 mL	87446	02/24/13 03:44	MP	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	86342	02/20/13 17:40	SC	TAL IRV

Client Sample ID: MW-A5

Lab Sample ID: 440-38271-3
Matrix: Water

Date Collected: 02/12/13 21:40
Date Received: 02/13/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	87372	02/23/13 13:28	WC	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	86342	02/19/13 22:13	SC	TAL IRV

Client Sample ID: MW-A6

Lab Sample ID: 440-38271-4
Matrix: Water

Date Collected: 02/13/13 00:40
Date Received: 02/13/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	87372	02/23/13 13:59	WC	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	86342	02/19/13 22:42	SC	TAL IRV

Client Sample ID: MW-A8s

Lab Sample ID: 440-38271-5
Matrix: Water

Date Collected: 02/12/13 18:20
Date Received: 02/13/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	87372	02/23/13 14:30	WC	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	86342	02/20/13 18:08	SC	TAL IRV

Client Sample ID: MW-A8d

Lab Sample ID: 440-38271-6
Matrix: Water

Date Collected: 02/12/13 18:50
Date Received: 02/13/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	87446	02/24/13 04:13	MP	TAL IRV

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: ARCO 5110, South Gate

TestAmerica Job ID: 440-38271-1

Client Sample ID: MW-A8d

Lab Sample ID: 440-38271-6

Date Collected: 02/12/13 18:50
Date Received: 02/13/13 17:30

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		1	10 mL	10 mL	86342	02/19/13 23:38	SC	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: Stantec Consulting Corp.
Project/Site: ARCO 5110, South Gate

TestAmerica Job ID: 440-38271-1

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

Lab Sample ID: MB 440-87372/4
Matrix: Water
Analysis Batch: 87372

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.28	ug/L			02/23/13 08:58	1
Isopropyl Ether (DIPE)	ND		0.50	0.25	ug/L			02/23/13 08:58	1
Ethanol	ND		150	100	ug/L			02/23/13 08:58	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	0.28	ug/L			02/23/13 08:58	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/23/13 08:58	1
m,p-Xylene	ND		1.0	0.60	ug/L			02/23/13 08:58	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.32	ug/L			02/23/13 08:58	1
o-Xylene	ND		0.50	0.30	ug/L			02/23/13 08:58	1
Tert-amyl-methyl ether (TAME)	ND		0.50	0.33	ug/L			02/23/13 08:58	1
tert-Butyl alcohol (TBA)	ND		10	6.5	ug/L			02/23/13 08:58	1
Toluene	ND		0.50	0.36	ug/L			02/23/13 08:58	1
Xylenes, Total	ND		1.0	0.90	ug/L			02/23/13 08:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*80 - 120*		*02/23/13 08:58*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*02/23/13 08:58*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*02/23/13 08:58*	*1*

Lab Sample ID: LCS 440-87372/5
Matrix: Water
Analysis Batch: 87372

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	23.4		ug/L		93	70 - 120
Isopropyl Ether (DIPE)	25.0	27.2		ug/L		109	60 - 135
Ethanol	250	323		ug/L		129	40 - 155
Ethyl-t-butyl ether (ETBE)	25.0	25.7		ug/L		103	65 - 135
Ethylbenzene	25.0	27.0		ug/L		108	75 - 125
m,p-Xylene	50.0	53.9		ug/L		108	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	25.8		ug/L		103	60 - 135
o-Xylene	25.0	27.0		ug/L		108	75 - 125
Tert-amyl-methyl ether (TAME)	25.0	26.5		ug/L		106	60 - 135
tert-Butyl alcohol (TBA)	125	147		ug/L		117	70 - 135
Toluene	25.0	25.9		ug/L		103	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*109*		*80 - 120*

Lab Sample ID: 440-38271-1 MS
Matrix: Water
Analysis Batch: 87372

Client Sample ID: MW-A1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.1		25.0	26.4		ug/L		85	65 - 125
Isopropyl Ether (DIPE)	ND		25.0	24.0		ug/L		96	60 - 140

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

Lab Sample ID: 440-38271-1 MS — **Client Sample ID: MW-A1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 87372

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethanol	ND		250	321		ug/L		128	40 - 155
Ethyl-t-butyl ether (ETBE)	ND		25.0	22.7		ug/L		91	60 - 135
Ethylbenzene	ND		25.0	26.6		ug/L		106	65 - 130
m,p-Xylene	ND		50.0	53.0		ug/L		106	65 - 130
Methyl-t-Butyl Ether (MTBE)	ND		25.0	23.4		ug/L		93	55 - 145
o-Xylene	ND		25.0	26.0		ug/L		104	65 - 125
Tert-amyl-methyl ether (TAME)	ND		25.0	23.2		ug/L		93	60 - 140
tert-Butyl alcohol (TBA)	ND		125	146		ug/L		117	65 - 140
Toluene	ND		25.0	24.7		ug/L		99	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*109*		*80 - 120*

Lab Sample ID: 440-38271-1 MSD — **Client Sample ID: MW-A1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 87372

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5.1		25.0	28.4		ug/L		93	65 - 125	7	20
Isopropyl Ether (DIPE)	ND		25.0	25.3		ug/L		101	60 - 140	6	25
Ethanol	ND		250	317		ug/L		127	40 - 155	1	30
Ethyl-t-butyl ether (ETBE)	ND		25.0	23.8		ug/L		95	60 - 135	5	25
Ethylbenzene	ND		25.0	28.2		ug/L		113	65 - 130	6	20
m,p-Xylene	ND		50.0	55.8		ug/L		112	65 - 130	5	25
Methyl-t-Butyl Ether (MTBE)	ND		25.0	24.0		ug/L		96	55 - 145	3	25
o-Xylene	ND		25.0	27.4		ug/L		110	65 - 125	5	20
Tert-amyl-methyl ether (TAME)	ND		25.0	24.3		ug/L		97	60 - 140	5	30
tert-Butyl alcohol (TBA)	ND		125	151		ug/L		121	65 - 140	3	25
Toluene	ND		25.0	26.3		ug/L		105	70 - 125	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*109*		*80 - 120*

Lab Sample ID: MB 440-87446/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 87446

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.28	ug/L			02/23/13 20:46	1
Isopropyl Ether (DIPE)	ND		0.50	0.25	ug/L			02/23/13 20:46	1
Ethanol	ND		150	100	ug/L			02/23/13 20:46	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	0.28	ug/L			02/23/13 20:46	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/23/13 20:46	1
m,p-Xylene	ND		1.0	0.60	ug/L			02/23/13 20:46	1

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

Lab Sample ID: MB 440-87446/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 87446

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.32	ug/L			02/23/13 20:46	1
o-Xylene	ND		0.50	0.30	ug/L			02/23/13 20:46	1
Tert-amyl-methyl ether (TAME)	ND		0.50	0.33	ug/L			02/23/13 20:46	1
tert-Butyl alcohol (TBA)	ND		10	6.5	ug/L			02/23/13 20:46	1
Toluene	ND		0.50	0.36	ug/L			02/23/13 20:46	1
Xylenes, Total	ND		1.0	0.90	ug/L			02/23/13 20:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*02/23/13 20:46*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*02/23/13 20:46*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*02/23/13 20:46*	*1*

Lab Sample ID: LCS 440-87446/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 87446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	23.2		ug/L		93	70 - 120
Isopropyl Ether (DIPE)	25.0	26.9		ug/L		108	60 - 135
Ethanol	250	461	LQ	ug/L		184	40 - 155
Ethyl-t-butyl ether (ETBE)	25.0	19.9		ug/L		80	65 - 135
Ethylbenzene	25.0	25.3		ug/L		101	75 - 125
m,p-Xylene	50.0	54.7		ug/L		109	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	23.7		ug/L		95	60 - 135
o-Xylene	25.0	27.9		ug/L		111	75 - 125
Tert-amyl-methyl ether (TAME)	25.0	20.4		ug/L		81	60 - 135
tert-Butyl alcohol (TBA)	125	151		ug/L		120	70 - 135
Toluene	25.0	25.2		ug/L		101	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: 440-38602-B-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 87446

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	22.0		ug/L		88	65 - 125
Isopropyl Ether (DIPE)	ND		25.0	26.8		ug/L		107	60 - 140
Ethanol	ND	LQ	250	508	LM	ug/L		203	40 - 155
Ethyl-t-butyl ether (ETBE)	ND		25.0	19.6		ug/L		78	60 - 135
Ethylbenzene	ND		25.0	24.4		ug/L		98	65 - 130
m,p-Xylene	ND		50.0	52.6		ug/L		105	65 - 130
Methyl-t-Butyl Ether (MTBE)	ND		25.0	23.3		ug/L		93	55 - 145
o-Xylene	ND		25.0	27.2		ug/L		109	65 - 125
Tert-amyl-methyl ether (TAME)	ND		25.0	19.3		ug/L		77	60 - 140

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

Lab Sample ID: 440-38602-B-1 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 87446

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butyl alcohol (TBA)	ND		125	143		ug/L		114	65 - 140
Toluene	ND		25.0	23.9		ug/L		96	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: 440-38602-B-1 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 87446

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	21.6		ug/L		86	65 - 125	2	20
Isopropyl Ether (DIPE)	ND		25.0	25.9		ug/L		104	60 - 140	4	25
Ethanol	ND	LQ	250	496	LM	ug/L		198	40 - 155	2	30
Ethyl-t-butyl ether (ETBE)	ND		25.0	18.4		ug/L		74	60 - 135	6	25
Ethylbenzene	ND		25.0	22.6		ug/L		90	65 - 130	8	20
m,p-Xylene	ND		50.0	48.1		ug/L		96	65 - 130	9	25
Methyl-t-Butyl Ether (MTBE)	ND		25.0	22.9		ug/L		91	55 - 145	2	25
o-Xylene	ND		25.0	24.7		ug/L		99	65 - 125	10	20
Tert-amyl-methyl ether (TAME)	ND		25.0	18.6		ug/L		75	60 - 140	3	30
tert-Butyl alcohol (TBA)	ND		125	144		ug/L		115	65 - 140	1	25
Toluene	ND		25.0	23.4		ug/L		94	70 - 125	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

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

Lab Sample ID: MB 440-86342/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 86342

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			02/19/13 18:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*65 - 140*		*02/19/13 18:57*	*1*

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

Lab Sample ID: LCS 440-86342/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 86342

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			800	812		ug/L		101	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*126*		*65 - 140*

Lab Sample ID: 440-38141-B-3 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 86342

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	ND		800	798		ug/L		100	65 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*65 - 140*

Lab Sample ID: 440-38141-B-3 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 86342

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		800	784		ug/L		98	65 - 140	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*65 - 140*

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: ARCO 5110, South Gate

TestAmerica Job ID: 440-38271-1

GC/MS VOA

Analysis Batch: 87372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-38271-1	MW-A1	Total/NA	Water	8260B	
440-38271-1 MS	MW-A1	Total/NA	Water	8260B	
440-38271-1 MSD	MW-A1	Total/NA	Water	8260B	
440-38271-3	MW-A5	Total/NA	Water	8260B	
440-38271-4	MW-A6	Total/NA	Water	8260B	
440-38271-5	MW-A8s	Total/NA	Water	8260B	
LCS 440-87372/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-87372/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 87446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-38271-2	MW-A2	Total/NA	Water	8260B	
440-38271-6	MW-A8d	Total/NA	Water	8260B	
440-38602-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-38602-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 440-87446/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-87446/4	Method Blank	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 86342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-38141-B-3 MS	Matrix Spike	Total/NA	Water	8015B	
440-38141-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	
440-38271-1	MW-A1	Total/NA	Water	8015B	
440-38271-2	MW-A2	Total/NA	Water	8015B	
440-38271-3	MW-A5	Total/NA	Water	8015B	
440-38271-4	MW-A6	Total/NA	Water	8015B	
440-38271-5	MW-A8s	Total/NA	Water	8015B	
440-38271-6	MW-A8d	Total/NA	Water	8015B	
LCS 440-86342/2	Lab Control Sample	Total/NA	Water	8015B	
MB 440-86342/3	Method Blank	Total/NA	Water	8015B	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
LQ	LCS/LCSD recovery above method control limits
J,DX	Estimated value; value < lowest standard (MQL), but >than MDL
LM	MS and/or MSD above acceptance limits. See Blank Spike (LCS)

GC VOA

Qualifier	Qualifier Description
LH	Surrogate Recoveries were higher than QC limits
J,DX	Estimated value; value < lowest standard (MQL), but >than MDL

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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)
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: Stantec Consulting Corp.
Project/Site: ARCO 5110, South Gate

TestAmerica Job ID: 440-38271-1

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	06-30-13
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	02-28-13
Hawaii	State Program	9	N/A	02-28-13
Nevada	State Program	9	CA015312007A	07-31-13
New Mexico	State Program	6	N/A	02-28-13
Northern Mariana Islands	State Program	9	MP0002	02-28-13
Oregon	NELAP	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

bp rm

Laboratory Management Program LaMP Chain of Custody Record

BP Site Node Path: 2013-Q1 Quarterly Groundwater
BP Facility No: ARCO 5110
Req Due Date (mm/dd/yy): _____
Rush TAT: Yes _____ No _____
Lab Work Order Number: MW0-29271

Lab Name:	Test America, Inc.	BP/ARC Facility Address:	5110	Consultant/Contractor:	Stantec Consulting Corporation
Lab Address:	17461 Derian Avenue, Suite 100, Irvine, CA 92614	City, State, ZIP Code:	5731 E. Firestone Blvd., South Gate, CA	Consultant/Contractor Project No:	211812077
Lab PM:	Lena Davidkova	Lead Regulatory Agency:	LARWQCB	Address:	290 Conejo Ridge Avenue, Thousand Oaks, CA 91361
Lab Phone:	(949) 261-1022 / (949) 260-3297	California Global ID No.:	T0603703915	Consultant/Contractor PM:	Randy Couture
Lab Shipping Acct:		Enfos Proposal No:	006QQ-0010 WR# 258798	Phone:	(805) 230-1266
Lab Bottle Order No:		Accounting Mode:	Provision X OOC-BU ___ OOC-RM ___	Email EDD To:	bpdata@stantec.com; bpvinyale@stantec.com; lab.enfosdoc@bp.com
Other Info:		Stage:	Execute Activity: Monitoring	Invoice To:	BP/ARC X Contractor ___

BP/ARC EBM: Darrell Fah
EBM Phone: (800) 282-0191
EBM Email: darrell.fah@bp.com

Report Type & QC Level: Standard ___ Full Data Package ___

Lab No.	Sample Description	Date	Time	Soil / Solid	Water / Liquid	Air / Vapor		Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	Methanol	GRO C4-12 (8015M)	BTEX/OXY/ET (8260B)	VOC 1,2 DCA (8260B)	Heterotrophic Bacteria	BOD	TDS	TOC	Sulfate, Nitrate	Methane	pH	Fe+2 EPA 6010B	Comments
1	MW-A1	02/12/13	2345		X			6				X		X	X										
2	MW-A2	02/12/13	2230		X			6				X		X	X										
3	MW-A5	02/12/13	2140		X			6				X		X	X										
4	MW-A6	02/12/13	0040		X			6				X		X	X										
5	MW-A8s	02/12/13	1820		X			6				X		X	X										
6	MW-A8d	02/12/13	1850		X			6				X		X	X										
7	TB-5110-20130212	02/12/13	1700		X			6				X		X	X										Put on hold
8																									

Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: DAANTHE MEWER						
Sampler's Company: STANTEC	[illegible] STANTEC	02/13/13	1445	[illegible] TAT	2/12/13	1445
Shipment Method: Ship Date:	[illegible] TAT	2/13/13	1700	[illegible]	2.13.13	
Shipment Tracking No:						

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: _____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

3.5, 3.6, 2.5, 3.8, 3.1

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 440-38271-1

Login Number: 38271
List Number: 1
Creator: Perez, Angel

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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.	N/A	
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	Danntje Meijer
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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: 440-38274-1
Client Project/Site: ARCO 0031, South Gate

For:
Stantec Consulting Corp.
290 Conejo Ridge Ave.
Suite 200
Thousand Oaks, California 91361

Attn: BP Vinvale

Authorized for release by:
2/27/2013 4:12:49 PM
Lena Davidkova
Project Manager I
lena.davidkova@testamericainc.com

Designee for

Kathleen Robb
Project Manager II
kathleen.robb@testamericainc.com

LINKS

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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.

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Sample Summary

Client: Stantec Consulting Corp.
Project/Site: ARCO 0031, South Gate

TestAmerica Job ID: 440-38274-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-38274-1	MW-19	Water	02/13/13 05:55	02/13/13 17:30
440-38274-2	MW-20	Water	02/13/13 06:40	02/13/13 17:30
440-38274-3	FB-0031-20130213	Water	02/13/13 05:10	02/13/13 17:30

Job ID: 440-38274-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-38274-1

Comments
No additional comments.

Receipt
The samples were received on 2/13/2013 5:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.9º C, 2.5º C, 3.0º C, 3.2º C and 3.2º C.

GC/MS VOA
No analytical or quality issues were noted.

GC VOA
Method(s) 8015B: Surrogate recovery for the following sample(s) was outside control limits: MW-20 (440-38274-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8015B: The Gasoline Range Organics (GRO) concentration reported for the following sample(s) is due to the presence of discrete peaks: MW-19 (440-38274-1), MW-20 (440-38274-2).

No other analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: ARCO 0031, South Gate

TestAmerica Job ID: 440-38274-1

Client Sample ID: MW-19

Lab Sample ID: 440-38274-1
Matrix: Water

Date Collected: 02/13/13 05:55
Date Received: 02/13/13 17:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	**7.8**		2.5	1.4	ug/L			02/23/13 17:46	5
Benzene	**290**		2.5	1.4	ug/L			02/23/13 17:46	5
Ethanol	ND		750	500	ug/L			02/23/13 17:46	5
Isopropyl Ether (DIPE)	ND		2.5	1.3	ug/L			02/23/13 17:46	5
Ethyl-t-butyl ether (ETBE)	ND		2.5	1.4	ug/L			02/23/13 17:46	5
Ethylbenzene	**1.8**	J,DX	2.5	1.3	ug/L			02/23/13 17:46	5
m,p-Xylene	ND		5.0	3.0	ug/L			02/23/13 17:46	5
Methyl-t-Butyl Ether (MTBE)	ND		2.5	1.6	ug/L			02/23/13 17:46	5
o-Xylene	ND		2.5	1.5	ug/L			02/23/13 17:46	5
Tert-amyl-methyl ether (TAME)	ND		2.5	1.7	ug/L			02/23/13 17:46	5
Toluene	ND		2.5	1.8	ug/L			02/23/13 17:46	5
Xylenes, Total	ND		20	4.5	ug/L			02/23/13 17:46	5
tert-Butyl alcohol (TBA)	ND		50	33	ug/L			02/23/13 17:46	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*02/23/13 17:46*	*5*
Dibromofluoromethane (Surr)	*96*		*80 - 120*		*02/23/13 17:46*	*5*
Toluene-d8 (Surr)	*102*		*80 - 120*		*02/23/13 17:46*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	**710**		250	130	ug/L			02/22/13 22:28	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*65 - 140*		*02/22/13 22:28*	*5*

Client Sample ID: MW-20

Lab Sample ID: 440-38274-2
Matrix: Water

Date Collected: 02/13/13 06:40
Date Received: 02/13/13 17:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		25	14	ug/L			02/23/13 18:14	50
Benzene	**5100**		25	14	ug/L			02/23/13 18:14	50
Ethanol	ND		7500	5000	ug/L			02/23/13 18:14	50
Isopropyl Ether (DIPE)	ND		25	13	ug/L			02/23/13 18:14	50
Ethyl-t-butyl ether (ETBE)	ND		25	14	ug/L			02/23/13 18:14	50
Ethylbenzene	**55**		25	13	ug/L			02/23/13 18:14	50
m,p-Xylene	**59**		50	30	ug/L			02/23/13 18:14	50
Methyl-t-Butyl Ether (MTBE)	ND		25	16	ug/L			02/23/13 18:14	50
o-Xylene	ND		25	15	ug/L			02/23/13 18:14	50
Tert-amyl-methyl ether (TAME)	ND		25	17	ug/L			02/23/13 18:14	50
Toluene	**30**		25	18	ug/L			02/23/13 18:14	50
Xylenes, Total	**59**	J,DX	200	45	ug/L			02/23/13 18:14	50
tert-Butyl alcohol (TBA)	ND		500	330	ug/L			02/23/13 18:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/23/13 18:14*	*50*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*02/23/13 18:14*	*50*
Toluene-d8 (Surr)	*100*		*80 - 120*		*02/23/13 18:14*	*50*

Client Sample Results

Client: Stantec Consulting Corp.
Project/Site: ARCO 0031, South Gate

TestAmerica Job ID: 440-38274-1

Client Sample ID: MW-20

Lab Sample ID: 440-38274-2
Matrix: Water

Date Collected: 02/13/13 06:40
Date Received: 02/13/13 17:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	9000		2500	1300	ug/L			02/22/13 22:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*188*	*LH*	*65 - 140*		*02/22/13 22:55*	*50*

Client Sample ID: FB-0031-20130213

Lab Sample ID: 440-38274-3
Matrix: Water

Date Collected: 02/13/13 05:10
Date Received: 02/13/13 17:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.50	0.28	ug/L			02/23/13 17:17	1
Benzene	ND		0.50	0.28	ug/L			02/23/13 17:17	1
Ethanol	ND		150	100	ug/L			02/23/13 17:17	1
Isopropyl Ether (DIPE)	ND		0.50	0.25	ug/L			02/23/13 17:17	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	0.28	ug/L			02/23/13 17:17	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/23/13 17:17	1
m,p-Xylene	ND		1.0	0.60	ug/L			02/23/13 17:17	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.32	ug/L			02/23/13 17:17	1
o-Xylene	ND		0.50	0.30	ug/L			02/23/13 17:17	1
Tert-amyl-methyl ether (TAME)	ND		0.50	0.33	ug/L			02/23/13 17:17	1
Toluene	ND		0.50	0.36	ug/L			02/23/13 17:17	1
Xylenes, Total	ND		4.0	0.90	ug/L			02/23/13 17:17	1
tert-Butyl alcohol (TBA)	ND		10	6.5	ug/L			02/23/13 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*02/23/13 17:17*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*02/23/13 17:17*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*02/23/13 17:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			02/22/13 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*65 - 140*		*02/22/13 23:23*	*1*

Lab Chronicle

Client: Stantec Consulting Corp.
Project/Site: ARCO 0031, South Gate

TestAmerica Job ID: 440-38274-1

Client Sample ID: MW-19

Lab Sample ID: 440-38274-1
Matrix: Water

Date Collected: 02/13/13 05:55
Date Received: 02/13/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	10 mL	10 mL	87368	02/23/13 17:46	AT	TAL IRV
Total/NA	Analysis	8015B		5	10 mL	10 mL	87271	02/22/13 22:28	IM	TAL IRV

Client Sample ID: MW-20

Lab Sample ID: 440-38274-2
Matrix: Water

Date Collected: 02/13/13 06:40
Date Received: 02/13/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	10 mL	10 mL	87368	02/23/13 18:14	AT	TAL IRV
Total/NA	Analysis	8015B		50	10 mL	10 mL	87271	02/22/13 22:55	IM	TAL IRV

Client Sample ID: FB-0031-20130213

Lab Sample ID: 440-38274-3
Matrix: Water

Date Collected: 02/13/13 05:10
Date Received: 02/13/13 17:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	87368	02/23/13 17:17	AT	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	87271	02/22/13 23:23	IM	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: Stantec Consulting Corp.
Project/Site: ARCO 0031, South Gate

TestAmerica Job ID: 440-38274-1

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

Lab Sample ID: MB 440-87368/4
Matrix: Water
Analysis Batch: 87368

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.50	0.28	ug/L			02/23/13 08:50	1
Benzene	ND		0.50	0.28	ug/L			02/23/13 08:50	1
Ethanol	ND		150	100	ug/L			02/23/13 08:50	1
Isopropyl Ether (DIPE)	ND		0.50	0.25	ug/L			02/23/13 08:50	1
Ethyl-t-butyl ether (ETBE)	ND		0.50	0.28	ug/L			02/23/13 08:50	1
Ethylbenzene	ND		0.50	0.25	ug/L			02/23/13 08:50	1
m,p-Xylene	ND		1.0	0.60	ug/L			02/23/13 08:50	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.32	ug/L			02/23/13 08:50	1
o-Xylene	ND		0.50	0.30	ug/L			02/23/13 08:50	1
Tert-amyl-methyl ether (TAME)	ND		0.50	0.33	ug/L			02/23/13 08:50	1
Toluene	ND		0.50	0.36	ug/L			02/23/13 08:50	1
Xylenes, Total	ND		4.0	0.90	ug/L			02/23/13 08:50	1
tert-Butyl alcohol (TBA)	ND		10	6.5	ug/L			02/23/13 08:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*02/23/13 08:50*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 120*		*02/23/13 08:50*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*02/23/13 08:50*	*1*

Lab Sample ID: LCS 440-87368/5
Matrix: Water
Analysis Batch: 87368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	25.0	25.8		ug/L		103	60 - 140
Benzene	25.0	22.9		ug/L		92	70 - 120
Ethanol	250	273		ug/L		109	40 - 155
Isopropyl Ether (DIPE)	25.0	30.7		ug/L		123	60 - 135
Ethyl-t-butyl ether (ETBE)	25.0	27.2		ug/L		109	65 - 135
Ethylbenzene	25.0	25.7		ug/L		103	75 - 125
m,p-Xylene	50.0	54.3		ug/L		109	75 - 125
Methyl-t-Butyl Ether (MTBE)	25.0	25.9		ug/L		103	60 - 135
o-Xylene	25.0	27.3		ug/L		109	75 - 125
Tert-amyl-methyl ether (TAME)	25.0	26.1		ug/L		104	60 - 135
Toluene	25.0	26.5		ug/L		106	70 - 120
tert-Butyl alcohol (TBA)	125	139		ug/L		111	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

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

Lab Sample ID: 440-38267-E-12 MS
Matrix: Water
Analysis Batch: 87368

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	ND		25.0	23.6		ug/L		94	60 - 140
Benzene	ND		25.0	22.0		ug/L		88	65 - 125
Ethanol	ND		250	238		ug/L		95	40 - 155
Isopropyl Ether (DIPE)	ND		25.0	28.0		ug/L		112	60 - 140
Ethyl-t-butyl ether (ETBE)	ND		25.0	24.4		ug/L		98	60 - 135
Ethylbenzene	ND		25.0	25.9		ug/L		103	65 - 130
m,p-Xylene	ND		50.0	54.6		ug/L		109	65 - 130
Methyl-t-Butyl Ether (MTBE)	ND		25.0	23.2		ug/L		93	55 - 145
o-Xylene	ND		25.0	26.9		ug/L		108	65 - 125
Tert-amyl-methyl ether (TAME)	ND		25.0	23.4		ug/L		94	60 - 140
Toluene	ND		25.0	25.1		ug/L		101	70 - 125
tert-Butyl alcohol (TBA)	ND		125	133		ug/L		106	65 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: 440-38267-E-12 MSD
Matrix: Water
Analysis Batch: 87368

Client Sample ID: Matrix Spike Duplicate
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-Dichloroethane	ND		25.0	23.6		ug/L		94	60 - 140	0	20
Benzene	ND		25.0	22.1		ug/L		88	65 - 125	1	20
Ethanol	ND		250	272		ug/L		109	40 - 155	13	30
Isopropyl Ether (DIPE)	ND		25.0	28.5		ug/L		114	60 - 140	1	25
Ethyl-t-butyl ether (ETBE)	ND		25.0	25.3		ug/L		101	60 - 135	4	25
Ethylbenzene	ND		25.0	26.7		ug/L		107	65 - 130	3	20
m,p-Xylene	ND		50.0	56.5		ug/L		113	65 - 130	3	25
Methyl-t-Butyl Ether (MTBE)	ND		25.0	24.6		ug/L		99	55 - 145	6	25
o-Xylene	ND		25.0	28.0		ug/L		112	65 - 125	4	20
Tert-amyl-methyl ether (TAME)	ND		25.0	24.3		ug/L		97	60 - 140	4	30
Toluene	ND		25.0	25.4		ug/L		101	70 - 125	1	20
tert-Butyl alcohol (TBA)	ND		125	132		ug/L		106	65 - 140	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

QC Sample Results

Client: Stantec Consulting Corp.
Project/Site: ARCO 0031, South Gate

TestAmerica Job ID: 440-38274-1

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

Lab Sample ID: MB 440-87271/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 87271

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			02/22/13 18:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*65 - 140*		*02/22/13 18:45*	*1*

Lab Sample ID: LCS 440-87271/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 87271

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	800	807		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*65 - 140*

Lab Sample ID: 440-38262-B-2 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 87271

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	2500		8000	10300		ug/L		97	65 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*65 - 140*

Lab Sample ID: 440-38262-B-2 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 87271

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	2500		8000	10100		ug/L		95	65 - 140	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*65 - 140*

QC Association Summary

Client: Stantec Consulting Corp.
Project/Site: ARCO 0031, South Gate

TestAmerica Job ID: 440-38274-1

GC/MS VOA

Analysis Batch: 87368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-38267-E-12 MS	Matrix Spike	Total/NA	Water	8260B	
440-38267-E-12 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
440-38274-1	MW-19	Total/NA	Water	8260B	
440-38274-2	MW-20	Total/NA	Water	8260B	
440-38274-3	FB-0031-20130213	Total/NA	Water	8260B	
LCS 440-87368/5	Lab Control Sample	Total/NA	Water	8260B	
MB 440-87368/4	Method Blank	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 87271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-38262-B-2 MS	Matrix Spike	Total/NA	Water	8015B	
440-38262-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	
440-38274-1	MW-19	Total/NA	Water	8015B	
440-38274-2	MW-20	Total/NA	Water	8015B	
440-38274-3	FB-0031-20130213	Total/NA	Water	8015B	
LCS 440-87271/2	Lab Control Sample	Total/NA	Water	8015B	
MB 440-87271/3	Method Blank	Total/NA	Water	8015B	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J,DX	Estimated value; value < lowest standard (MQL), but >than MDL

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.
☼	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, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
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: Stantec Consulting Corp.
Project/Site: ARCO 0031, South Gate

TestAmerica Job ID: 440-38274-1

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	06-30-13
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	02-28-13
Hawaii	State Program	9	N/A	02-28-13
Nevada	State Program	9	CA015312007A	07-31-13
New Mexico	State Program	6	N/A	02-28-13
Northern Mariana Islands	State Program	9	MP0002	02-28-13
Oregon	NELAP	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

bp rm

Laboratory Management Program LaMP Chain of Custody Record

BP Site Node Path: 2013-Q1 Quarterly Groundwater
BP Facility No: 31T
Req Due Date (mm/dd/yy):
Rush TAT: Yes ____ No ____
Lab Work Order Number: 440-39274

Lab Name:	Test America	BP/ARC Facility Address:	8601 South Garfield Ave	Consultant/Contractor:	Stantec Consulting
Lab Address:	17461 Derian Avenue, Ste 100, Irvine, CA 92614	City, State, ZIP Code:	South Gate, CA 90280-3709	Consultant/Contractor Project No:	211812177
Lab PM:	Lena Davidkova	Lead Regulatory Agency:	LARWQCB	Address:	290 Conejo Ridge Ave, Thousand Oaks, CA 91361
Lab Phone:	949-261-1022 / 949-260-3297 Fax	California Global ID No.:	SL373452448	Consultant/Contractor PM:	Paul La Bonte
Lab Shipping Acct:		Enfos Proposal No:	0058G-0009 / WR#259074	Phone:	805-230-1266 / 805-230-1277 Fax
Lab Bottle Order No:		Accounting Mode:	Provision X OOC-BU ____ OOC-RM ____	Email EDD To:	bpdata@stantec.com; bpvinvale@stantec.com; lab.enfosdoc@bp.com
Other Info:		Stage:	6_OM&M/Other Activity: OM&M Spend	Invoice To:	BP/ARC X Contractor ____

BP/ARC EBM: Darrell Fah
EBM Phone: 714-670-5228
EBM Email: darrell.fah@bp.com

Report Type & QC Level: Standard X; Full Data Package ____

Lab No.	Sample Description	Date	Time	Soil / Solid	Water / Liquid	Air / Vapor		Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	Methanol	GRO C4-12 (8015	BTEX/OXY/ET (8260B)	VOC 1,2 DCA (8260B)	Heterotrophic Bacteria	BOD	TDS	TOC	Sulfate, Nitrate	Methane	pH	Fe+2 EPA 6010B	Comments
1	MW-19	02/13/13	0555		X			6				X		X	X	X									
2	MW-20	02/13/13	0640		X			6				X		X	X	X									
3	FB-5110-20130213	02/13/13	0510		X			6				X		X	X	X									
4	TB-5110-20130213	02/13/13	0400		X			6				X		X	X	X									PUT ON HOLD
5																									
6																									
7																									
8																									
9																									
10																									

Note: If sample not collected, indicate "No Sample" in comments and single-strike out and initial any preprinted sample description.

	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name: Raymond Dickinson						
Sampler's Company: Stantec Consulting	Stantec	2-13-13	1445	TAI	2/13/13	1445
Shipment Method: Ship Date:	TAI	2/13/13	1730	Kay	2.13.13	1730
Shipment Tracking No:						

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: ____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP Remediation Management COC - Effective Date: starting August 16, 2011. Use for Remediation Management projects only

BP LaMP COC Rev. 8, 24 June 2012

3.8, 3.6, 2.5, 3.5, 3.1

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2/27/2013

Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 440-38274-1

Login Number: 38274
List Number: 1
Creator: Perez, Angel

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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	Ryan D. Dickinson
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 <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Appendix C

Waste Disposal Documents

NO. 49151

NON-HAZARDOUS WASTE DATA FORM

7

TO BE COMPLETED BY GENERATOR

	GENERATING SITE
NAME: BP West Coast Products LLC	BP 05110
ADDRESS: P.O. Box 80249	5731 Firestone Blvd.
CITY, STATE, ZIP: Rancho Santa Margarita, CA 92688	South Gate, CA 90280

PHONE NO. (949) 753-5820 SITE CONTACT _____ PROFILE NO. _____

CONTAINERS: No. 1 GALLONS 55 Gallons WEIGHT _____

TYPE: [X] TANK TRUCK [ ] DUMP TRUCK [ ] DRUMS [ ] CARTONS [ ] OTHER _____

WASTE DESCRIPTION: Non-Hazardous Water GENERATING PROCESS: Purged Groundwater

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. Water	99-100%		4.		
2. TPH	<1%		5.		
3.			6. BESI # 216189		

PROPERTIES pH 7 [ ] SOLID [X] LIQUID [ ] SLUDGE [ ] SLURRY [ ] OTHER _____

HANDLING INSTRUCTIONS: Wear Appropriate Protective Clothing

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Larry Moothart as Agent of BP West Coast Products LLC — 02 / 12 / 13

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

TRANSPORTER

NAME: NIETO AND SONS TRUCKING, INC. EPA I.D. NO. _____

ADDRESS: 1281 BREA CANYON ROAD SERVICE ORDER NO. _____

CITY, STATE, ZIP: BREA, CALIFORNIA 92821 PICK UP DATE 02 / 12 / 13

PHONE NO. (714) 990-6855

TRUCK, UNIT, I.D. NO. 508 — X Rafael Varela — 02 / 12 / 13

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

TSD FACILITY

NAME: DeMenno Kerdoon EPA I.D. NO. CAT080013352

ADDRESS: 2000 N. Alameda Street DISPOSAL METHOD: [ ] LANDFILL [X] RECYCLER

CITY, STATE, ZIP: Compton, CA 90222

PHONE NO. (310) 537-7100

Marcus Wormley — 02/21/13

TYPED OR PRINTED FULL NAME & SIGNATURE — DATE

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	
C/O		RT/CD	HWDF	

Reconciled quantity 44 with STOVE NONE DISCREPANCY Nieto & Sons on 2/21/13

05110
837032