

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

ALEX BRISCOE, Director



ENVIRONMENTAL HEALTH DEPARTMENT  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

April 8, 2014

Charles Carmel  
Atlantic Richfield Company  
PO Box 1257  
San Ramon, CA 94583  
(Sent via E-mail to: [charles.carmel@bp.com](mailto:charles.carmel@bp.com))

Omid Enterprises, Inc.  
c/o Abbas Farahbakhsh  
8110 Blackwood Lane  
Roseville, CA 95747-9745

Subject: Case Closure for Fuel Leak Case No. RO0000393 and GeoTracker Global ID T0600100111, ARCO #06113, 785 East Stanley Boulevard, Livermore, CA 94550

Dear Mr. Carmel and Mr. Farahbakhsh:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25296.10[g]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (<http://geotracker.waterboards.ca.gov>) and the Alameda County Environmental Health website (<http://www.acgov.org/aceh/index.htm>).

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org). Case files can be reviewed online at the following website: <http://www.acgov.org/aceh/index.htm>. Thank you.

Sincerely,

A handwritten signature in blue ink that reads "Dilan Roe".

Dilan Roe, P.E.  
LOP and SCP Program Manager

Enclosures: 1. Remedial Action Completion Certification  
2. Case Closure Summary

Responsible Parties  
RO0000393  
April 8, 2014, Page 2

Cc w/enc.:

Danielle Stefani, Livermore Pleasanton Fire Department, 3560 Nevada St, Pleasanton, CA 94566  
(Sent via E-mail to: [dstefani@lpfire.org](mailto:dstefani@lpfire.org))

Colleen Winey (QIC 8021), Zone 7 Water Agency, 100 North Canyons Pkwy, Livermore, CA 94551  
(Sent via E-mail to: [cwiney@zone7water.com](mailto:cwiney@zone7water.com))

Jason Duda, Broadbent & Associates, Inc., 1324 Mangrove Avenue, Suite 212, Chico, CA 95926  
(Sent via E-mail to: [jduda@broadbentinc.com](mailto:jduda@broadbentinc.com))

Matt Herrick, Broadbent & Associates, Inc., 1324 Mangrove Avenue, Suite 212, Chico, CA 95926  
(Sent via E-mail to: [mherrick@broadbentinc.com](mailto:mherrick@broadbentinc.com))

Jerry Wickham, ACEH (Sent via E-mail to: [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org))

GeoTracker, eFile



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**REMEDIAL ACTION COMPLETION CERTIFICATION**

April 8, 2014

Charles Carmel  
Atlantic Richfield Company  
PO Box 1257  
San Ramon, CA 94583  
(Sent via E-mail to: [charles.carmel@bp.com](mailto:charles.carmel@bp.com))

Omid Enterprises, Inc.  
c/o Abbas Farahbakhsh  
8110 Blackwood Lane  
Roseville, CA 95747-9745

Subject: Case Closure for Fuel Leak Case No. RO0000393 and GeoTracker Global ID T0600100111, ARCO #06113, 785 East Stanley Boulevard, Livermore, CA 94550

Dear Mr. Carmel and Mr. Farahbakhsh:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

Please be aware that claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

  
Ariu Levi  
Director

**CASE CLOSURE SUMMARY**  
**LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM**

**I. AGENCY INFORMATION**

Date: December 18, 2013

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6791
Responsible Staff Person: Jerry Wickham	Title: Senior Hazardous Materials Specialist

**II. CASE INFORMATION**

Site Facility Name: ARCO #06113		
Site Facility Address: 785 East Stanley Boulevard, Livermore, California 94550		
RB Case No.: 01-0119	Local Case No.: STID 3883	LOP Case No.: RO0000393
URF Filing Date: 02/08/1989	Geotracker ID: T0600100111	APN: 99-256-5
Current Land Use: Active Fueling Station		
Responsible Parties	Addresses	Phone Numbers
Charles Carmel Atlantic Richfield Company	PO Box 1257 San Ramon, CA 94583	(925) 275-3803
Omid Enterprises, Inc. c/o Abbas Farahbakhsh	8110 Blackwood Lane Roseville, CA 95747-9745	No phone number

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
----	12,000	Gasoline	Removed	01/03/2001
----	12,000	Gasoline	Removed	01/03/2001
----	10,000	Gasoline	Removed	01/03/2001
Piping			Removed	01/03/2001

### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Release from underground storage tank (UST) system.		
Site characterization complete? Yes		
Monitoring wells installed? Yes	Number: 18	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 12.3 feet bgs	Lowest Depth: 44.16 feet bgs	Flow Direction: Northeast
Most Sensitive Current Groundwater Use: Drinking water source.		

Summary of Production Wells in Vicinity:	
The nearest active water supply well is California Water Service municipal well 3S/2E 8N2, located approximately 1,800 feet north northeast (downgradient) of the site. Based on the stability of the plume and distance of the plume from the water supply well, the water supply well is not expected to be a receptor for the site. No other water supply wells were identified within 2,000 feet of the site.	
Are drinking water wells affected? No	Aquifer Name: Mocho II Subbasin of Livermore- Amador Groundwater Basin
Is surface water affected? No	Nearest Surface Water Name: Arroyo Mocho is approximately 120 feet south and 200 feet west of the site.
Off-Site Beneficial Use Impacts (Addresses/Locations): None identified.	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	Three	Transported to Pacheco Pass Landfill in Gilroy, CA for disposal	01/04/2001
Piping	Not Reported	Transported to Pacheco Pass Landfill in Gilroy, CA for disposal	01/04/2001
Free Product	----	----	----
Soil	1,425 cubic yards	Transported to Forward Landfill in Manteca, CA for disposal	01/16/2001 to 02/14/2001
Groundwater	----	----	----

**LTCP GROUNDWATER SPECIFIC CRITERIA**

LTCP Groundwater Specific Scenario under which case was closed: Scenario 5

Site Data		LTCP Scenario 1 Criteria (ppb)	LTCP Scenario 2 Criteria (ppb)	LTCP Scenario 3 Criteria (ppb)	LTCP Scenario 4 Criteria (ppb)
Plume Length	150 feet	<100 feet	<250 feet	<250 feet	<1,000 feet
Free Product	No free product	No free product	No free product	Removed to maximum extent practicable	No free product
Plume Stable or Decreasing	Stable	Stable or decreasing	Stable or decreasing	Stable or decreasing for minimum of 5 Years	Stable or decreasing
Distance to Nearest Water Supply Well	1,800 feet	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet
Distance to Nearest Surface Water and Direction	120 feet upgradient	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet
Property Owner Willing to Accept a Land Use Restriction?	Not applicable	Not applicable	Not applicable	Yes	Not applicable

**GROUNDWATER CONCENTRATIONS**

Constituent	Historic Site Maximum (ppb)	Current Site Maximum (ppb)	LTCP Scenario 1 Criteria (ppb)	LTCP Scenario 2 Criteria (ppb)	LTCP Scenario 3 Criteria (ppb)	LTCP Scenario 4 Criteria (ppb)
Benzene	7,800	5,100	No criteria	3,000	No criteria	1,000
MTBE	15,100	280	No criteria	1,000	No criteria	1,000

Scenario 5: If the site does not meet scenarios 1 through 4, has a determination been made that under current and reasonably expected future scenarios, the contaminant plume poses a low threat to human health and safety and to the environment and water quality objectives will be achieved within a reasonable time frame?

Yes

**LTCP VAPOR SPECIFIC CRITERIA**

LTCP Vapor Specific Scenario under which case was closed: Active fueling station exempt from vapor specific criteria

Active Fueling Station		Active as of 11/13/2013					
Site Data		LTCP Scenario 1 Criteria	LTCP Scenario 2 Criteria	LTCP Scenario 3A Criteria	LTCP Scenario 3B Criteria	LTCP Scenario 3C Criteria	LTCP Scenario 4 Criteria
Unweathered NAPL	No NAPL	LNAPL in groundwater	LNAPL in soil	No NAPL	No NAPL	No NAPL	No criteria
Thickness of Bioattenuation Zone Beneath Foundation	>5 feet	≥30 feet	≥30 feet	≥5 feet	≥10 feet	≥5 feet	≥5 feet
Total TPH in Bioattenuation Zone	<100 ppm	<100 ppm	<100 ppm	<100 ppm	<100 ppm	<100 ppm	<100 ppm
Maximum Current Benzene Concentration in Groundwater	5,100 ppb	No criteria	No criteria	<100 ppb	≥100 and <1,000 ppb	<1,000 ppb	No criteria
Oxygen Data within Bioattenuation Zone	No oxygen data	No criteria	No criteria	No oxygen data or <4%	No oxygen data or <4%	≥4% at lower end of zone	≥4% at lower end of zone
Depth of soil vapor measurement beneath foundation	----	No criteria	No criteria	No criteria	No criteria	No criteria	≥5 feet

**SCENARIO 4 DIRECT MEASUREMENT OF SOIL VAPOR CONCENTRATIONS**

Site Soil Vapor Data			No Bioattenuation Zone		Bioattenuation Zone	
Constituent	Historic Maximum (µg/m <sup>3</sup> )	Current Maximum (µg/m <sup>3</sup> )	Residential	Commercial	Residential	Commercial
Benzene	----	----	<85	<280	<85,000	<280,000
Ethylbenzene	----	----	<1,100	<3,600	<1,100,000	<3,600,000
Naphthalene	----	----	<93	<310	<93,000	<310,000

If the site does not meet scenarios 1 through 4, does a site-specific risk assessment for the vapor intrusion pathway demonstrate that human health is protected?

----

If the site does not meet scenarios 1 through 4, has a determination been made that petroleum vapors from soil or groundwater will have no significant risk of adversely affecting human health as a result of controlling exposure through the use of mitigation measures or through the use of institutional controls?

----

**LTCP DIRECT CONTACT AND OUTDOOR AIR EXPOSURE CRITERIA**

LTCP Direct Contact and Outdoor Air Exposure Specific Scenario under which case was closed: A determination been made that the concentrations of petroleum in soil will have no significant risk of adversely affecting human health.

Are maximum concentrations less than those in Table 1 below?

No

Constituent		Residential		Commercial/Industrial		Utility Worker
		0 to 5 feet bgs (ppm)	Volatilization to outdoor air (5 to 10 feet bgs) ppm	0 to 5 feet bgs (ppm)	Volatilization to outdoor air (5 to 10 feet bgs) ppm	0 to 10 feet bgs (ppm)
Site Maximum	Benzene	0.59	0.59	0.59	0.59	0.59
LTCP Criteria	Benzene	≤1.9	≤2.8	≤8.2	≤12	≤14
Site Maximum	Ethylbenzene	3.6	3.6	3.6	3.6	3.6
LTCP Criteria	Ethylbenzene	≤21	≤32	≤89	≤134	≤314
Site Maximum	Naphthalene	----	----	----	----	----
LTCP Criteria	Naphthalene	≤9.7	≤9.7	≤45	≤45	≤219
Site Maximum	PAHs	----	----	----	----	----
LTCP Criteria	PAHs	≤0.063	NA	≤0.68	NA	≤4.5

If maximum concentrations are greater than those in Table 1, are they less than levels from a site-specific risk assessment?

----

If maximum concentrations are greater than those in Table 1, has a determination been made that the concentrations of petroleum in soil will have no significant risk of adversely affecting human health as a result of controlling exposure through the use of mitigation measures or through the use of institutional controls?

Yes



**IV. CLOSURE**

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, closure of this site appears to be consistent with the policies established by the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy which became effective on August 17, 2012.		
<p>Site Management Requirements:</p> <p>This fuel leak case has been evaluated for closure consistent with the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). Based on this evaluation, no site management requirements appear to be necessary. However, excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.</p>		
Should corrective action be reviewed if land use changes? No		
Was a deed restriction or deed notification filed? No		Date Recorded: ----
Monitoring Wells Decommissioned: No	Number Decommissioned: 7	Number Retained: 11
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: ----		

## V. ADDITIONAL COMMENTS AND CONCLUSION

### Considerations and/or Variances:

The site does not appear to meet scenarios 1, 2, 3, or 4 of the groundwater media-specific criteria for closure under the LTCP because Arroyo Mocho is approximately 120 feet south and 200 feet west of the site.

However, ACEH believes case closure is appropriate based on the following site-specific conditions:

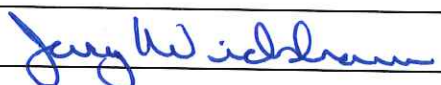
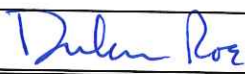
1. The plume is stable or decreasing in size for a minimum of 5 years.
2. The plume is less than 250 feet in length.
3. There is no free product.
4. The dissolved concentration of MTBE is less than 1,000 ppb.
5. No water supply wells are within 1,000 feet of the plume boundary.
6. The groundwater flow direction during the past 18 years of groundwater monitoring has been away from Arroyo Mocho.
7. Groundwater monitoring wells between the source areas and Arroyo Mocho have not shown evidence of contaminant migration towards Arroyo Mocho.
8. Based on the age of the plume, site hydrogeology, and apparent stability of the plume, the potential for the plume to pose a threat to Arroyo Mocho appears to be low.

Naphthalene was not an analyte in shallow soil samples. However, since the release at the site consisted primarily of gasoline and benzene and ethylbenzene concentrations in shallow soil do not exceed media-specific criteria for direct contact, naphthalene concentrations in shallow soil are not likely to exceed the LTCP media-specific criteria.

### Conclusion:

Alameda County Environmental Health staff believe that the site meets the conditions for case closure under the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy. Based upon the information available in our files to date, no further investigation or cleanup for the fuel leak case is necessary at this time.

## VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham, P.G.	Title: Senior Hazardous Materials Specialist
Signature: 	Date: 12/19/13
Approved by: Dilan Roe	Title: LOP and SCP Program Manager
Signature: 	Date: DECEMBER 19, 2013

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

**VII. REGIONAL BOARD AND PUBLIC NOTIFICATION**

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Regional Board Notification Date: November 12, 2013	
Public Notification Date: November 12, 2013	

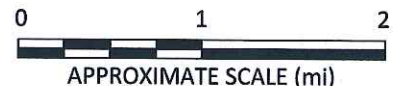
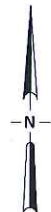
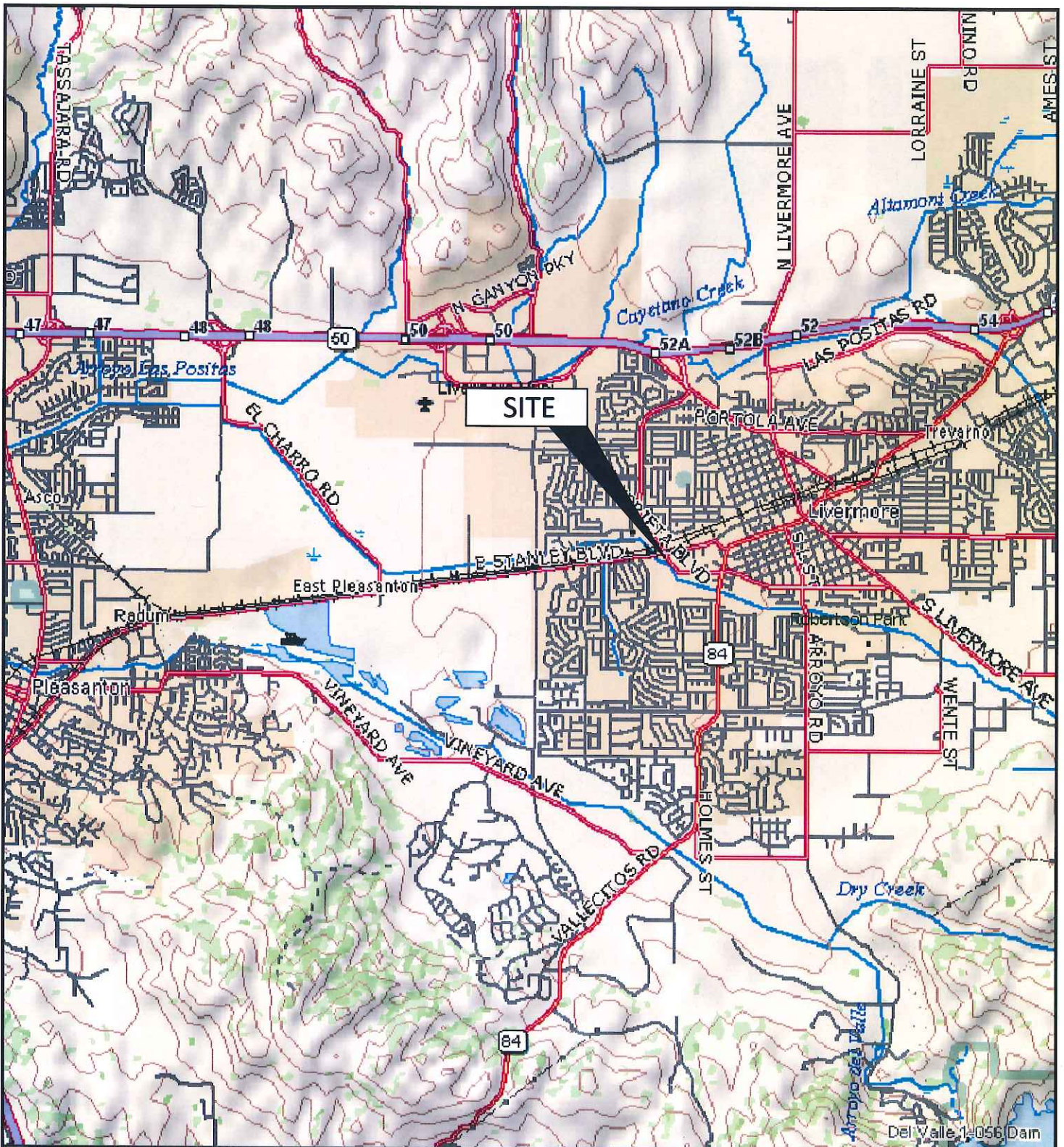
**VIII. MONITORING WELL DECOMMISSIONING**

Date Requested by ACEH: 01/22/14	Date of Well Decommissioning Report: 03/21/14	
All Monitoring Wells Decommissioned: <input checked="" type="radio"/> Yes <input type="radio"/> No	Number Decommissioned: 10	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: <i>Jay Williams</i>		Date: 04/03/14

Attachments:

1. Site Vicinity Map and Aerial Photo (2 pp)
2. Site Plans (3 p)
3. Groundwater Contour and Chemical Concentration Maps (7 pp)
4. Soil Analytical Data (10 pp)
5. Groundwater Analytical Data (35 pp)
6. Cross Sections (9 pp)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.



APPROXIMATE SCALE (mi)

IMAGE SOURCE: DELORME

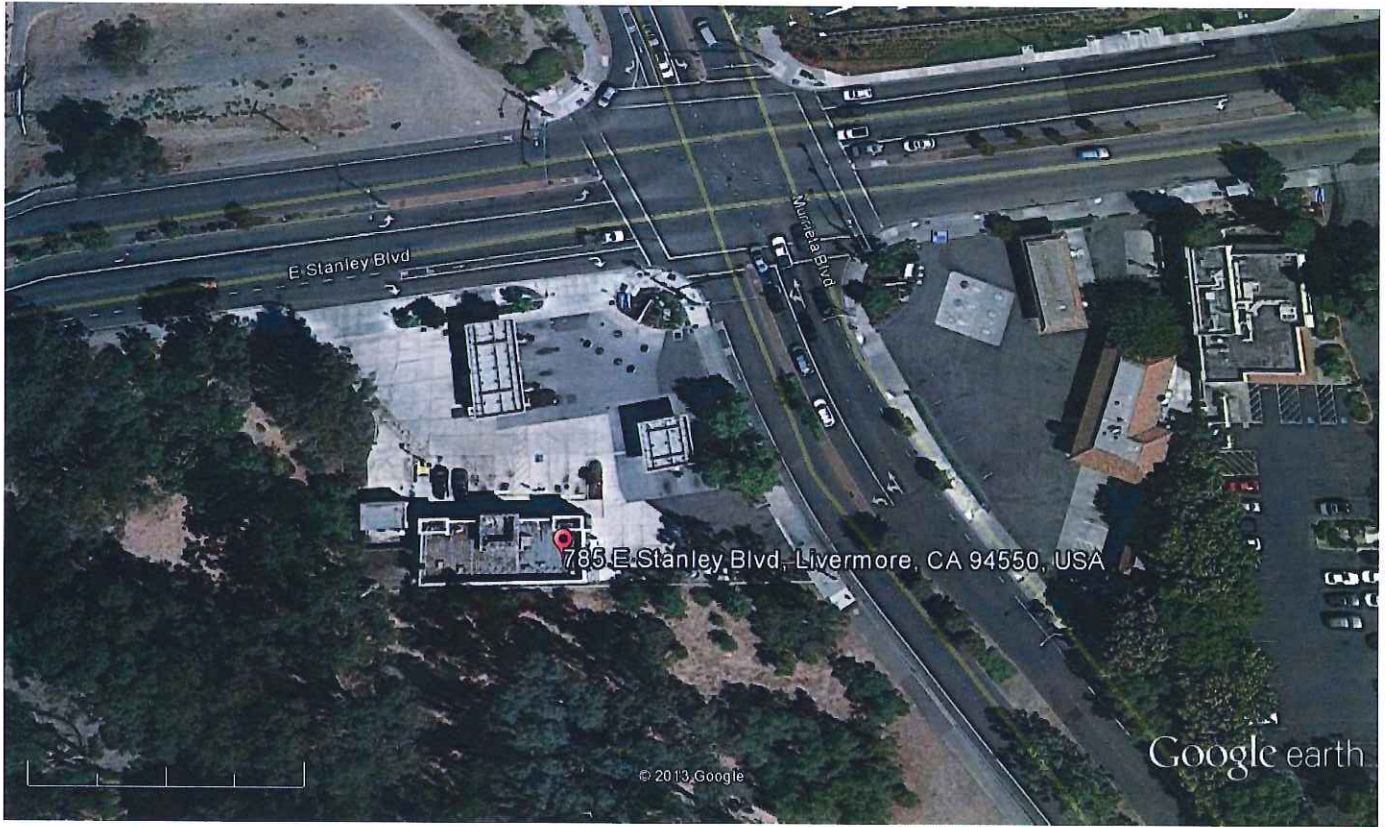
**BROADBENT**  
 1370 Ridgewood Dr., Suite 5  
 Chico, California 95973  
 Project No.: 06-82-637 Date: 12/4/2012

Station #6113  
 785 East Stanley Boulevard  
 Livermore, California

Site Location Map

Drawing  
**1**

**ATTACHMENT 1**



785 E Stanley Blvd, Livermore, CA 94550, USA

© 2013, Google

Google earth

Google earth

feet 300  
meters 90



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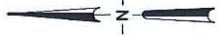
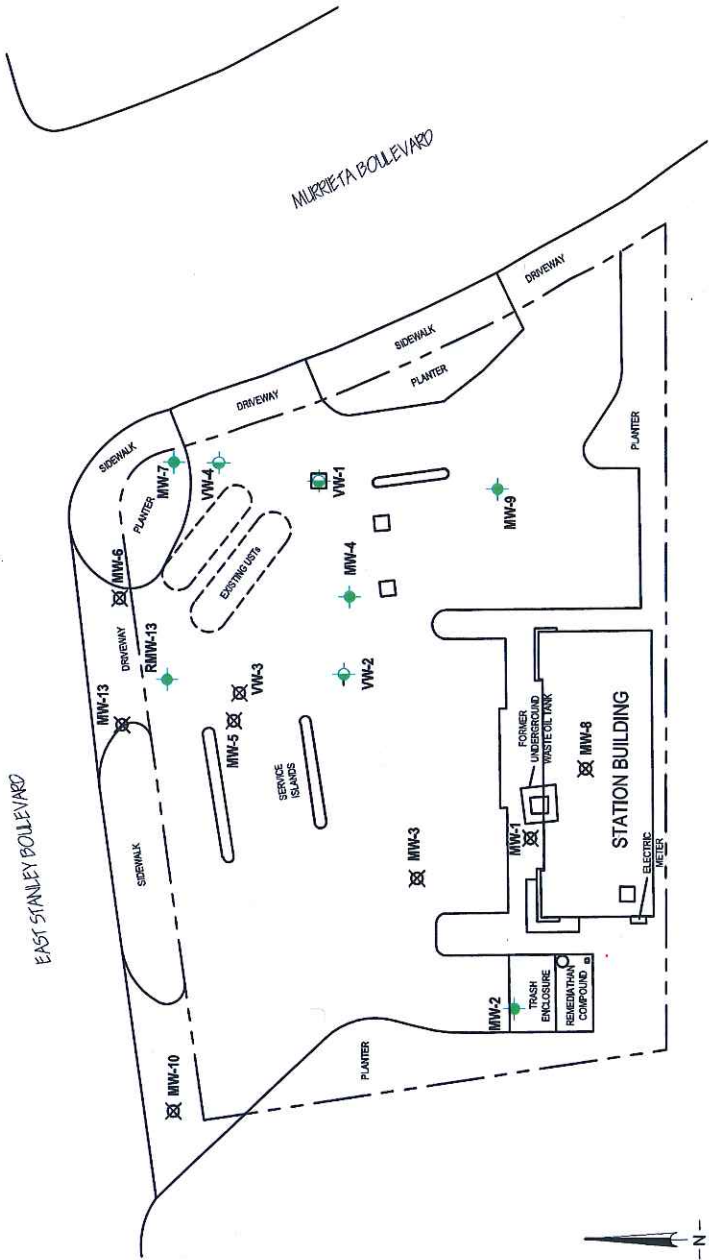
MW-12

MW-11

**LEGEND**

- Monitoring well
- Vapor extraction well
- Abandoned well

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



**BROADBENT & ASSOCIATES, INC.**  
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL  
 1324 Mangrove Ave, Suite 212, Chico, California 95926  
 Project No.: 06-82-637 Date: 11/3/2010

Station #6113  
 785 East Stanley Boulevard  
 Livermore, California

Site Map with Former and Current  
 Well Locations

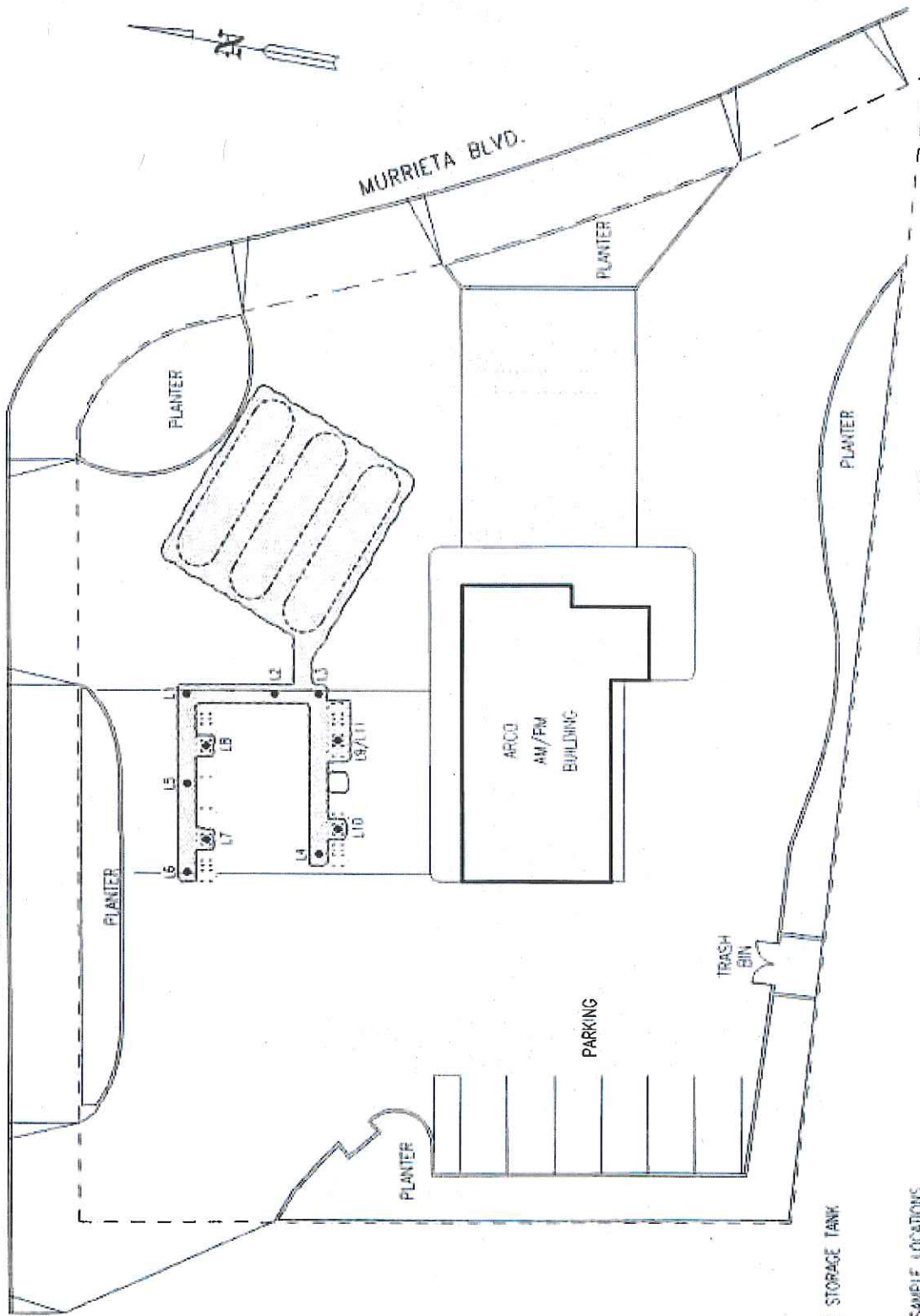
Drawing

2

ATTACHMENT 2

EAST STANLEY BLVD.

MURRIETA BLVD.



0' 30' 60'  
APPROXIMATE SCALE

SOURCE:  
MAP MODIFIED FROM BLUEPRINT PROVIDED BY  
WATSON WEST, INC. SEPTEMBER 1992.

**EXPLANATION:**

- UNDERGROUND GASOLINE STORAGE TANK
- REMOVED PUMP ISLAND
- PRODUCT LINE TRENCH SAMPLE LOCATIONS
- EXCAVATED AREA

PREPARED FOR:

COMPILED BY:	T.R.
PREPARED BY:	R.P.
PROJECT MGR:	P.S.
DATE:	03/93
SCALE:	AS SHOWN
PROJECT NO.:	ALS4WD1
FILE NAME:	AR613XX

ARCO Products Company

LOCATION OF SOIL SAMPLES

ARCO FACILITY NO. 6113

FIGURE

3



UST Excavation Areas and Sampling Locations

CAMBRIA



785 East Stanley Boulevard  
Livermore, California

ARCO Service Station 6113

Sheet

EXPLANATION	
MW-1	Monitoring Well Location
VW-1	Vapor Extraction Well Location
MW-5	Destroyed Well Location
DP-5	Soil Sample Location
	Approximate Excavation Limits

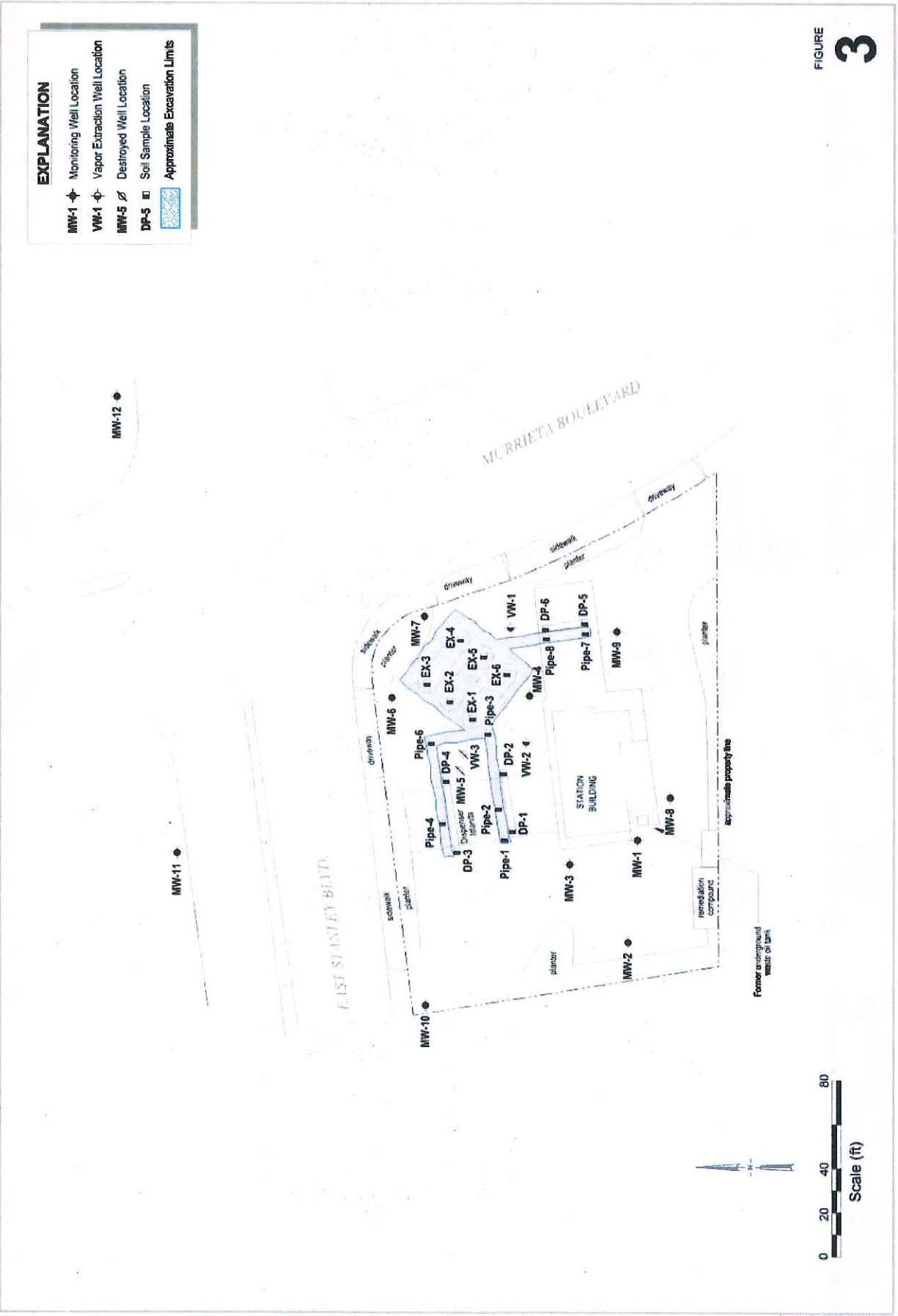


FIGURE 3



MW-12
437.45
<50
<0.50
<0.50
SA(2.4)

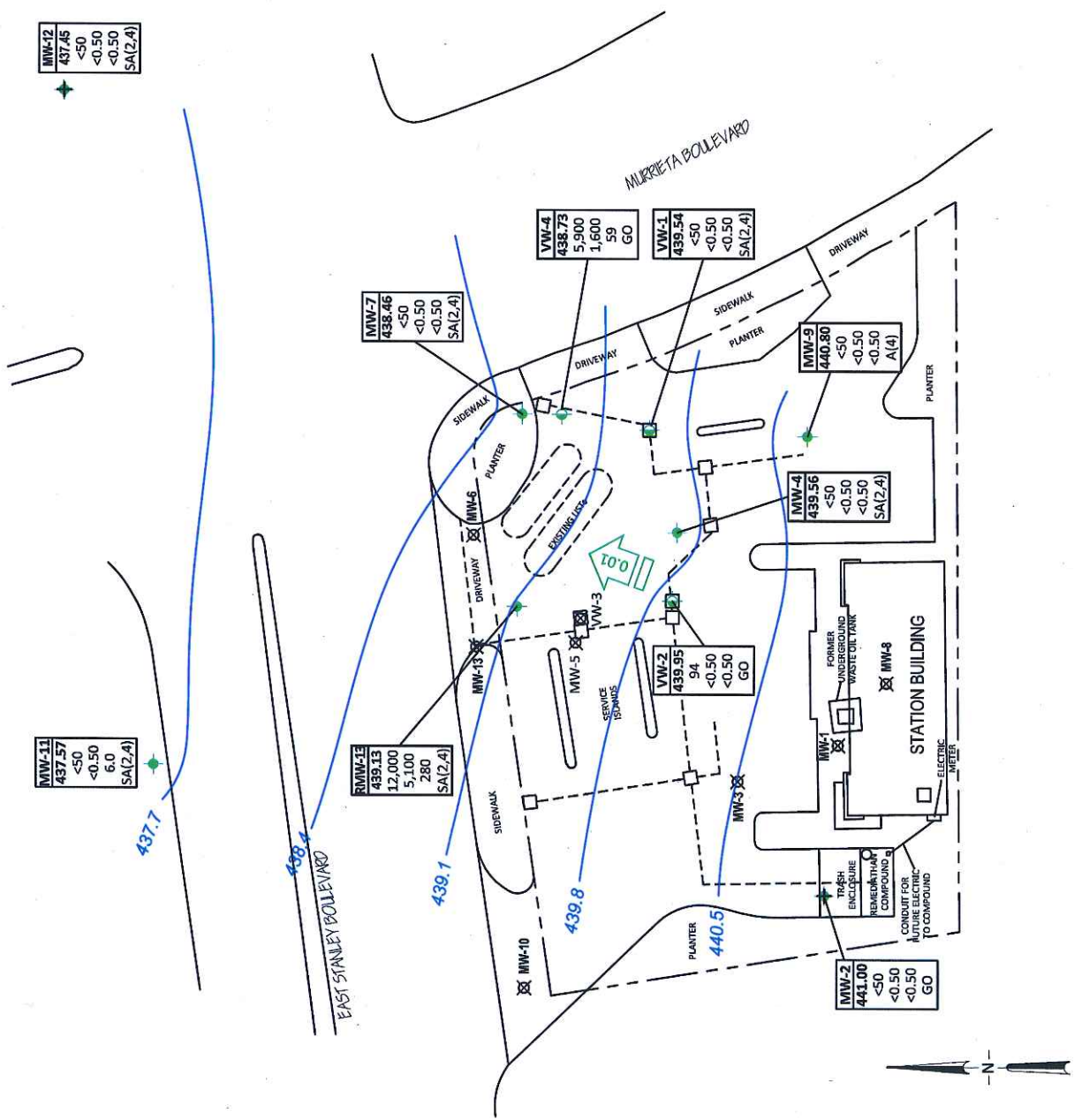
MW-11
437.57
<50
<0.50
6.0
SA(2.4)

**LEGEND**

- Monitor Well Location
- Vapor Extraction Well
- Abandoned Well
- Groundwater Elevation Contour (ft/MSL)
- Well Designation
- Groundwater Elevation
- GRO, Benzene, and MTBE Concentration (µg/L); Highest conc. detected in screen interval posted
- Sampling Frequency
- Sampled Annually, 2nd and 4th Quarters
- Semi-annual Sampling, 2nd and 4th Quarters
- Gauge Only
- Not Sampled
- Not Used in Contouring
- Approximate Groundwater Flow Gradient (ft./ft.)
- Vault Box
- Piping Trench

Well	Elev	GRO	Benzene	MTBE	A/SA
MW-12	437.45	<50	<0.50	<0.50	SA(2.4)
MW-11	437.57	<50	<0.50	6.0	SA(2.4)
MW-7	438.46	<50	<0.50	<0.50	SA(2.4)
MW-13	439.13	12,000	5,100	280	SA(2.4)
MW-10	439.13	<50	<0.50	<0.50	SA(2.4)
MW-5	439.95	94	<0.50	<0.50	GO
MW-2	439.95	94	<0.50	<0.50	GO
MW-4	439.56	<50	<0.50	<0.50	SA(2.4)
MW-9	440.80	<50	<0.50	<0.50	A(4)
MW-1	439.54	<50	<0.50	<0.50	SA(2.4)
MW-3	440.5	<50	<0.50	<0.50	GO
MW-8	441.00	<50	<0.50	<0.50	GO
MW-6	438.73	5,200	1,600	59	GO

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



 <b>BROADBENT</b> 1370 Ridgewood Dr., Suite 5 Chico, California 95973 Project No.: 06-82-637 Date: 7/19/2013	Station #6113 785 East Stanley Boulevard Livermore, California	Groundwater Elevation Contour and Analytical Summary Map April 9-10, 2013	Drawing <b>3</b>
	SCALE (ft) 0 50 100		

# ATTACHMENT 3

**LEGEND**

- Monitor Well Location
- ⊕ Vapor Extraction Well
- ⊗ Abandoned Well
- Vault Box
- - - Piping Trench
- MMW-12 Well Designation
- <50 GRO Concentration (µg/L)
- - - GRO Isoconcentration Contour (µg/L)

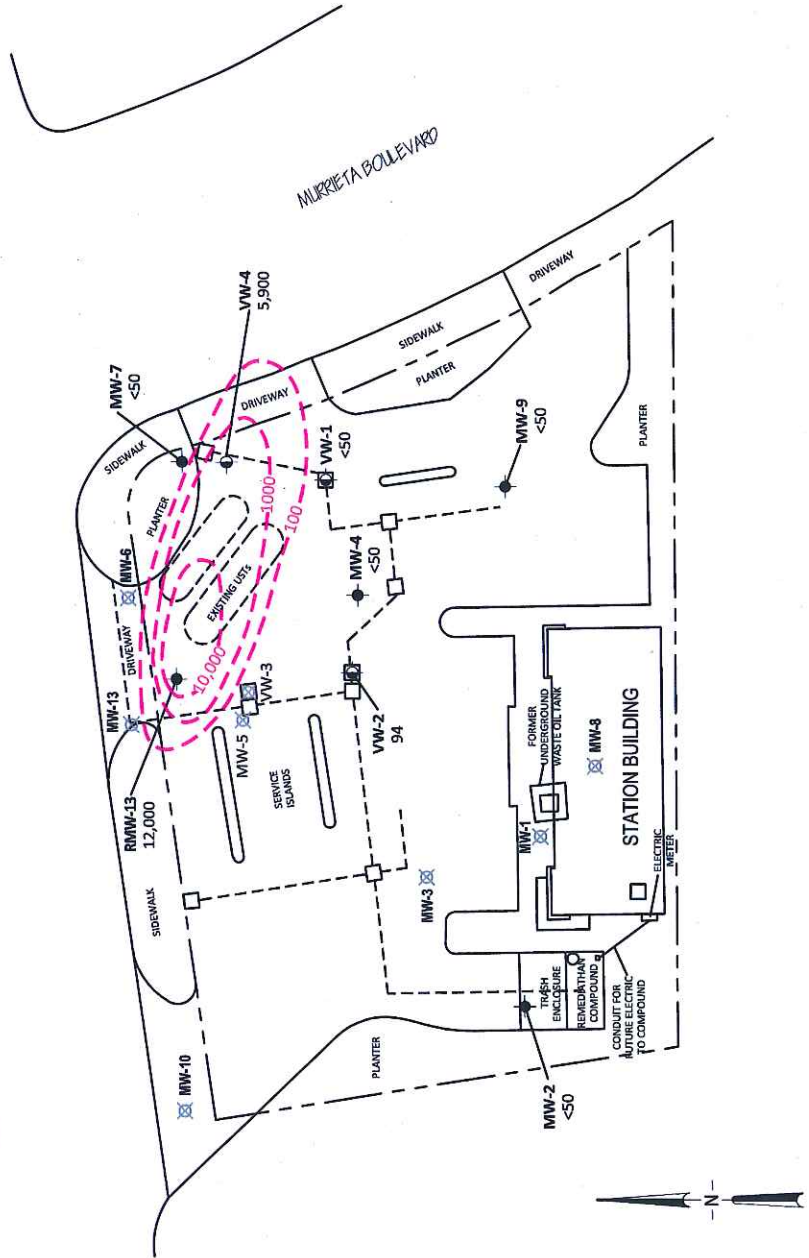
NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

MMW-12 <50

MMW-11 <50

EAST STANLEY BOULEVARD

MURRIETA BOULEVARD



**LEGEND**

- Monitor Well Location
- ⊗ Vapor Extraction Well
- ⊗ Abandoned Well
- Vault Box
- - - Piping Trench
- MMW-12 Well Designation <0.50
- GRO Concentration (µg/L)
- GRO Isoconcentration Contour (µg/L)

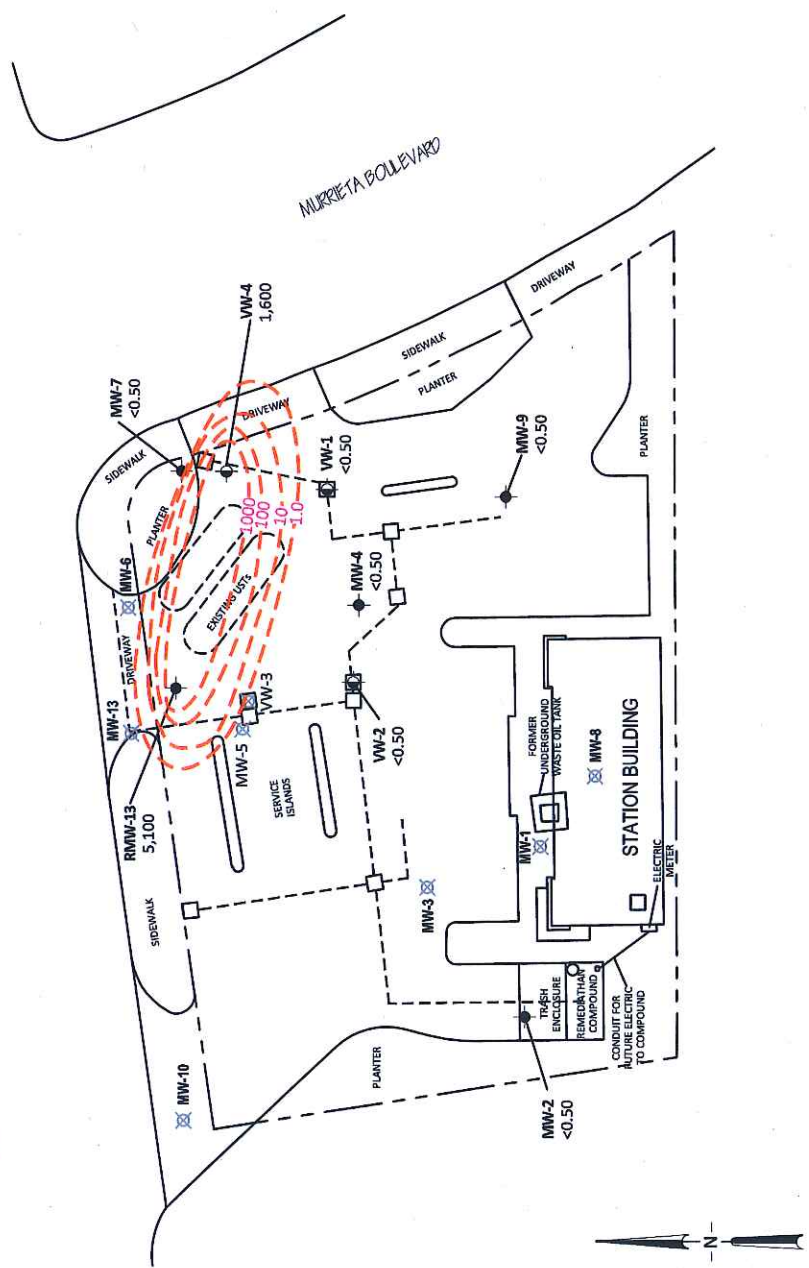
NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

MMW-12 <0.50

MMW-11 <0.50

EAST STANLEY BOULEVARD

MURRIETA BOULEVARD

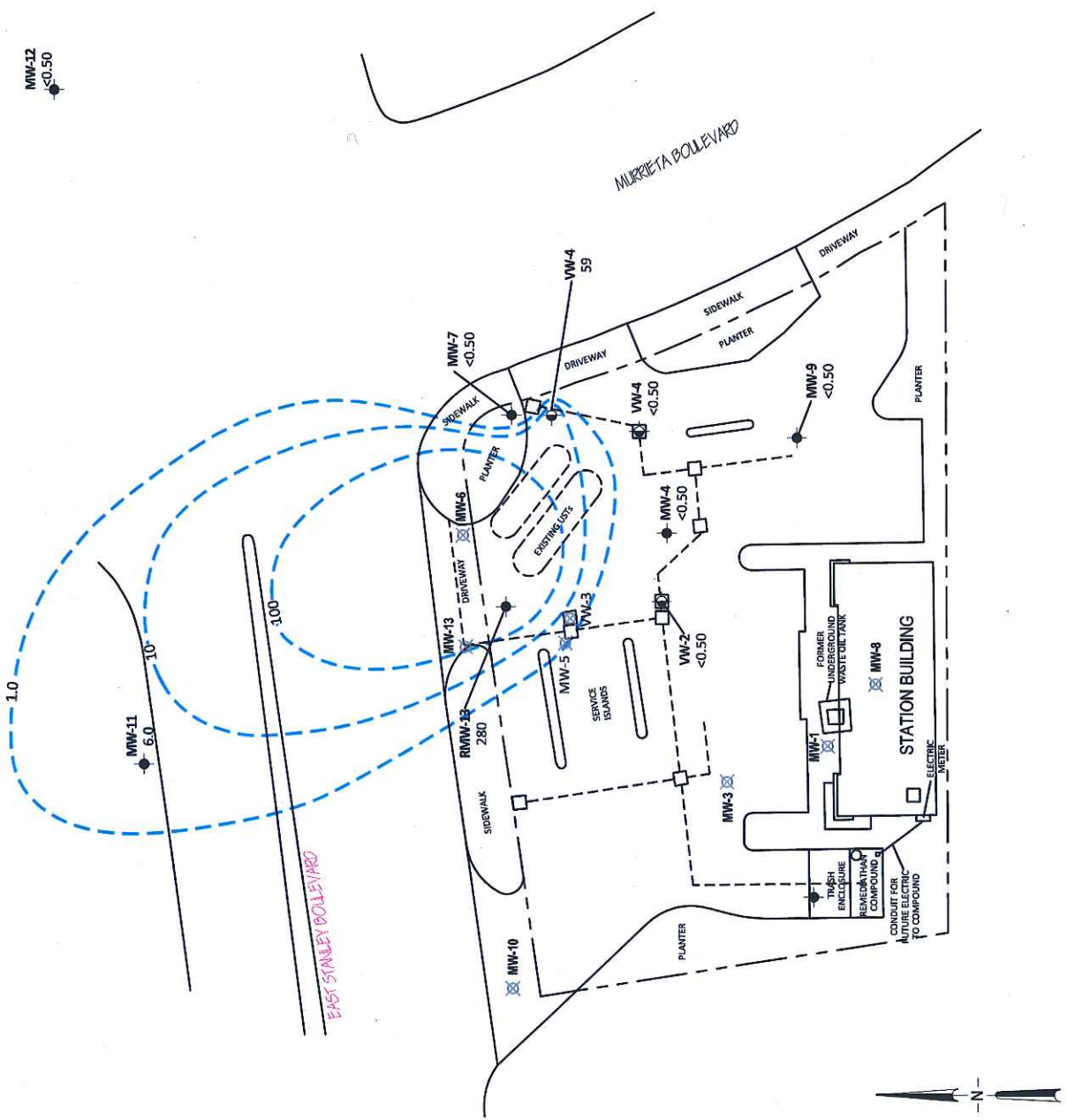


<p><b>BROADBENT</b> 1370 Ridgewood Dr., Suite 5 Chico, California 95973 Project No.: 06-82-637 Date: 7/19/2013</p>	<p>Station #6113 785 East Stanley Boulevard Livermore, California</p>	<p>Benzene Isoconcentration Contour Map- April 2013</p>	<p>Drawing <b>5</b></p>
	<p>0 50 100 SCALE (ft)</p>		

**LEGEND**

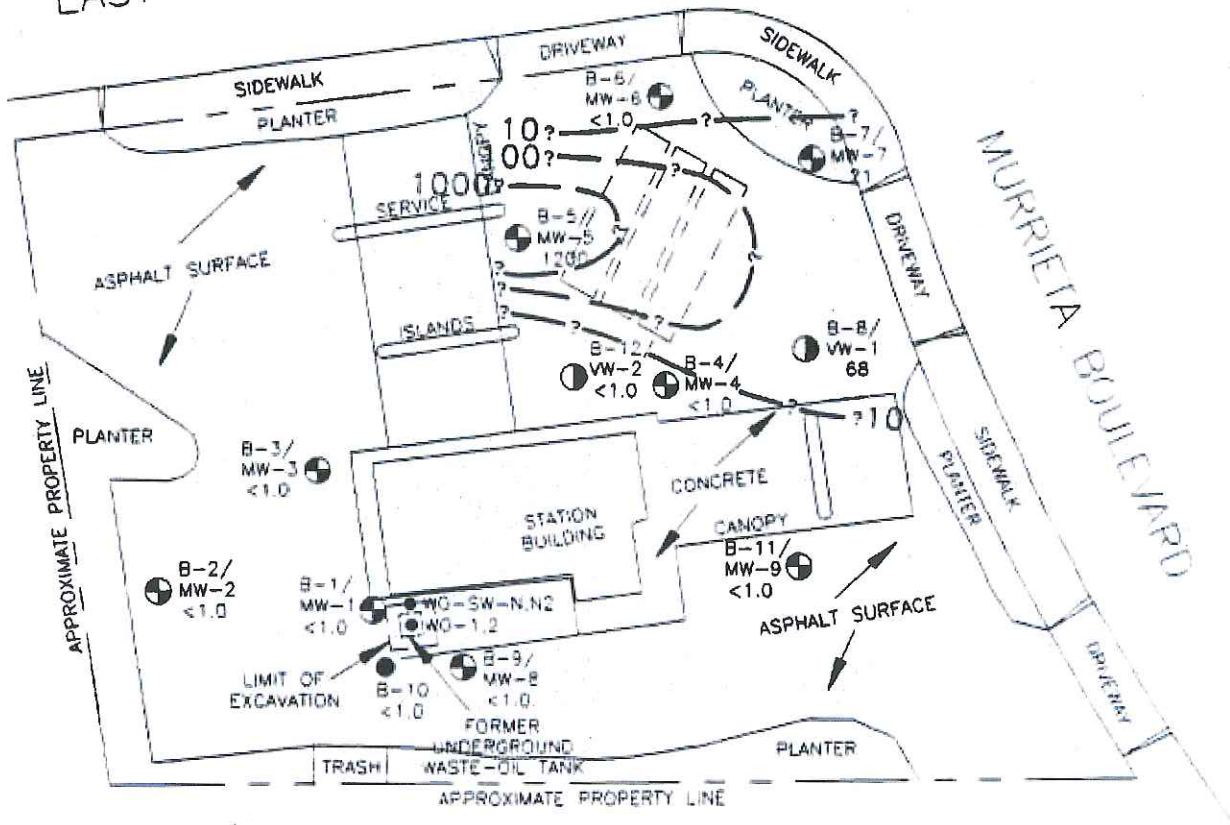
- Monitor Well Location
- Vapor Extraction Well
- ⊗ Abandoned Well
- Vault Box
- - - Piping Trench
- MW-12 Well Designation <0.50
- MTBE Concentration (µg/L)
- MTBE Isoconcentration Contour (µg/L)

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



<p>SCALE (ft)</p>	<p>Project No.: 06-82-637 Date: 7/19/2013</p>	<p><b>BROADBENT</b> 1370 Ridgewood Dr., Suite 5 Chico, California 95973</p>	<p>Station #6113 785 East Stanley Boulevard Livermore, California</p>	<p>MTBE Isoconcentration Contour Map- April 2013</p>	<p>Drawing <b>6</b></p>
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EAST STANLEY BOULEVARD



**EXPLANATION**

- $\text{---}1000$  = Line of equal concentration of TPHg in soil in parts per million (ppm)
- 1200 = Concentration of TPHg in soil at depths between 14 and 20-1/2 feet, in ppm
- B-11/MW-9  $\oplus$  = Boring/monitoring well (RESNA, 09/89, 02/91, and 06/92)
- B-12/VW-2  $\ominus$  = Boring/vapor extraction well (RESNA, 06/92 and 08/92)
- B-10  $\bullet$  = Boring (RESNA, 06/92)
- WO-SW-N,N2  $\bullet$  = Soil sample collected by Pacific (1989)
- $\square$  = Existing underground gasoline storage tank



Source: Modified from plan supplied by Ron Archer, Civil Engineer Inc., October 1988

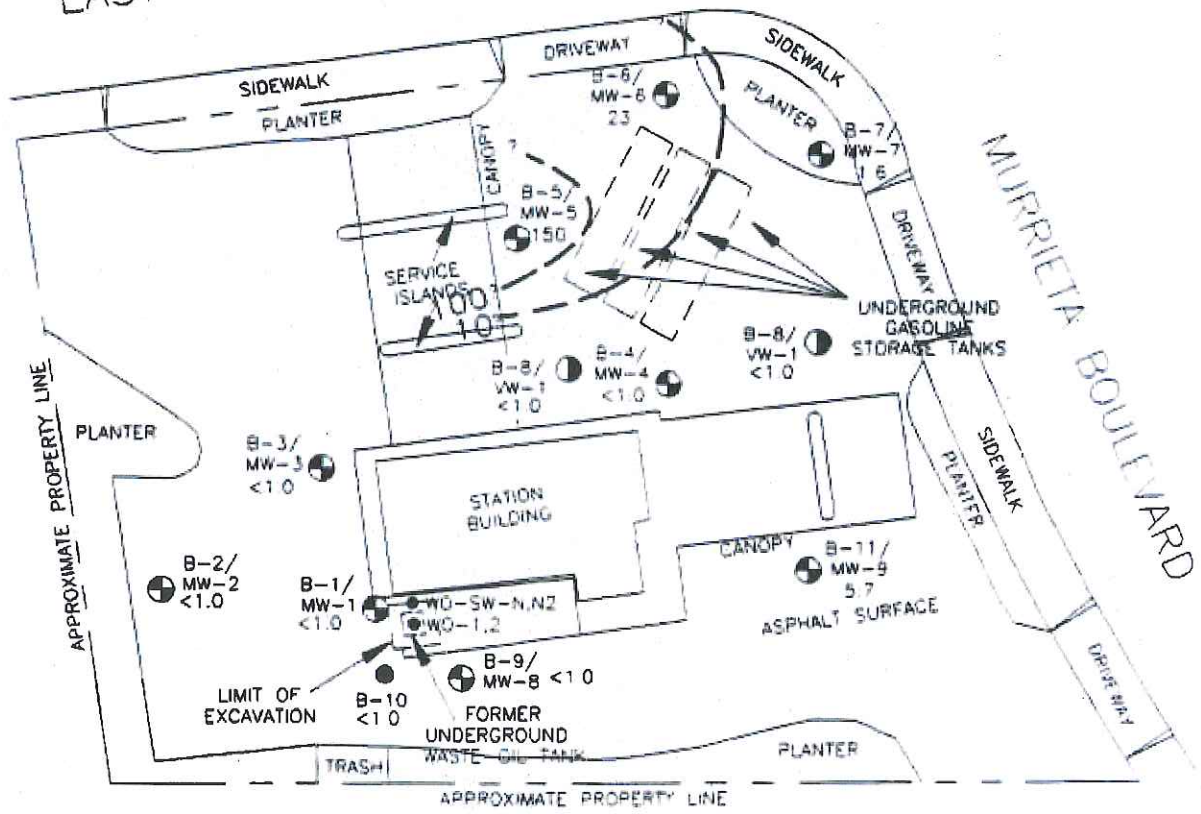


**TPHg CONCENTRATIONS IN SOIL  
BETWEEN 14 AND 20-1/2 FEET  
ARCO Service Station 6113  
785 East Stanley Boulevard  
Livermore, California**

**PLATE  
9**

**PROJECT: 69028.09**

EAST STANLEY BOULEVARD



**EXPLANATION**

100 — = Line of equal concentration of TPHg in soil in parts per million (ppm)

150 = Concentration of TPHg in groundwater in parts per billion, June 29, 1992

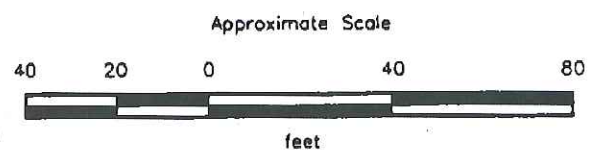
B-11/  
MW-9 ⊕ = Boring/monitoring well (RESNA, 09/89, 02/91, and 06/92)

B-8/  
VW-2 ⊖ = Boring/vapor extraction well (RESNA, 06/92 and 08/92)

B-10 ● = Boring (RESNA, 06/92)

WO-SW-N, N2 ● = Soil sample collected by Pacific (1989)

□ = Underground gasoline storage tanks



Source Modified from plan supplied by Ron Archer, Civil Engineer Inc., February 1991



**TPHg CONCENTRATIONS IN SOIL  
BETWEEN 29 AND 34-1/2 FEET  
ARCO Station 6113  
785 East Stanley Boulevard  
Livermore, California**

**PLATE  
10**

**PROJECT: 69028.09**



**TABLE 1**  
**CUMULATIVE RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES**  
 ARCO Station 6113  
 Livermore, California  
 (Page 1 of 3)

Sample	B	T	E	X	TPHg	TPHd	TOG
<u>September 1989</u>							
S-14½-B1	<0.005	<0.005	<0.005	<0.005	<1.0	<10	<30
S-34½-B1	<0.005	<0.005	<0.005	<0.005	<1.0	<10	<30
S-44½-B1	<0.005	<0.005	<0.005	<0.005	<1.0	<10	<30
S-19-B2	<0.005	<0.005	<0.005	<0.005	<1.0	<10	<50
S-34-B2	<0.005	<0.005	<0.005	<0.005	<1.0	<10	<50
S-41-B2	<0.005	<0.005	<0.005	<0.005	<1.0	<10	<50
S-14-B3	<0.005	<0.005	<0.005	<0.005	<1.0	<10	<50
S-34-B3	<0.005	<0.005	<0.005	<0.005	<1.0	<10	<50
S-37½-B3	<0.005	<0.005	<0.005	<0.005	<1.0	<10	<50
<u>February 1991</u>							
S-14½-B4	<0.005	<0.005	<0.005	<0.005	<1.0	<10	<50
S-19½-B4	<0.005	<0.005	<0.005	<0.005	<1.0	<10	<50
S-29-B4	0.008	<0.005	<0.005	<0.005	<1.0	<10	<50
S-0221-SP(A-D)	<0.005	<0.005	<0.005	<0.005	<1.0	<10	NA
<u>June 1992</u>							
S-10½-B5	<0.005	<0.005	<0.005	<0.005	<1.0	NA	NA
S-20½-B5	1.4	2.0	13	67	1,200	NA	NA
S-30½-B5	1.1	0.30	1.1	6.0	150	NA	NA
S-40½-B5	17	32	14	150	230	NA	NA
S-50½-B5	0.012	<0.005	<0.005	<0.005	<1.0	NA	NA
S-10½-B6	<0.005	<0.005	<0.005	<0.005	<1.0	NA	NA
S-20½-B6	<0.005	<0.005	<0.005	<0.005	<1.0	NA	NA
S-30½-B6	0.45	0.079	0.035	0.15	23	NA	NA
S-45½-B6	0.70	0.021	<0.005	<0.005	1.9	NA	NA
S-50½-B6	0.056	<0.005	<0.005	0.006	<1.0	NA	NA
S-10½-B7	<0.005	<0.005	<0.005	<0.005	<1.0	NA	NA
S-20½-B7	0.43	1.3	0.35	2.5	21	NA	NA
S-30½-B7	0.094	0.20	<0.005	0.023	1.6	NA	NA
S-40½-B7	0.009	<0.005	<0.005	<0.005	<1.0	NA	NA
S-50½-B7	<0.005	<0.005	<0.005	<0.005	<1.0	NA	NA
S-10½-B8	<0.005	<0.005	<0.005	<0.005	<1.0	NA	NA
S-20½-B8	<0.005	0.22	0.42	2.1	68	NA	NA
S-30½-B8	0.043	<0.005	<0.005	<0.005	<1.0	NA	NA
S-45½-B8	0.022	<0.005	<0.005	<0.005	1.1	NA	NA

See notes on Page 3 of 3.



**TABLE 1**  
**CUMULATIVE RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES**  
 ARCO Station 6113  
 Livermore, California  
 (Page 2 of 3)

Sample	B	T	E	X	TPHg	TPHd	TOG
<u>June 1992 (cont.)</u>							
S-8½-B9	<0.005	<0.005	<0.005	<0.005	<1.0	<1.0	<30
S-20½-B9	<0.005	<0.005	<0.005	<0.005	<1.0	<1.0	74
S-30½-B9	<0.005	<0.005	<0.005	<0.005	<1.0	<1.0	<30
S-40½-B9	<0.005	<0.005	<0.005	<0.005	<1.0	<1.0	<30
S-50½-B9	<0.005	<0.005	<0.005	<0.005	<1.0	<1.0	<30
S-10-B10	<0.005	<0.005	<0.005	<0.005	<1.0	<1.0	<30
S-20-B10	<0.005	<0.005	<0.005	<0.005	<1.0	<1.0	<30
S-30-B10	<0.005	<0.005	<0.005	<0.005	<1.0	<1.0	<30
S-45-B10	<0.005	<0.005	<0.005	<0.005	<1.0	<1.0	77
S-55-B10	<0.005	<0.005	<0.005	<0.005	<1.0	<1.0	<30
S-10½-B11	<0.005	<0.005	<0.005	<0.005	<1.0	NA	NA
S-20½-B11	<0.005	<0.005	<0.005	<0.005	<1.0	NA	NA
S-30½-B11	<0.005	<0.005	<0.005	<0.005	5.7	NA	NA
S-40½-B11	<0.005	<0.005	<0.005	<0.005	<1.0	NA	NA
S-50½-B11	<0.005	<0.005	<0.005	<0.005	<1.0	NA	NA
S-55½-B11	<0.005	<0.005	<0.005	<0.005	<1.0	NA	NA
S-0615-SP1(A-D)	<0.005	<0.005	<0.005	<0.005	<1.0	NA	NA
S-0615-SP2(A-D)	0.014	0.037	0.054	0.45	24	NA	NA
<u>August 1992</u>							
S-10-B12	<0.005	<0.005	<0.005	<0.005	<1.0	NA	NA
S-20-B12	<0.005	<0.005	<0.005	<0.005	<1.0	NA	NA
S-30-B12	<0.005	<0.005	<0.005	<0.005	<1.0	NA	NA
S-40-B12	0.59	0.60	1.3	2.0	110	NA	NA
S-50-B12	<0.005	<0.005	<0.005	<0.005	<1.0	NA	NA
S-0804-SP(A-D)	<0.005	0.011	0.030	0.066	2.6	NA	NA
<u>June 1993</u>							
B13-2-16	<0.0050	<0.0050	0.011	0.046	15	NA	NA
B13-4-23.5	14	54	18	110	1,100	NA	NA
B14-5-23	3.0	13	5.1	34	340	NA	NA
B14-7-30.5	0.69	0.085	0.021	0.054	2.9	NA	NA
B15-2-10.5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	NA	NA
B15-4-20.5	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	NA	NA
B15-6-31	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	NA	NA
SP1 (A-D)	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	NA	NA

See notes on Page 3 of 3.

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**TABLE 1**  
**CUMULATIVE RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES**  
ARCO Station 6113  
Livermore, California  
(Page 3 of 3)

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Results in parts per million (ppm).

<: Results reported as less than the detection limit.

NA: Not Analyzed

TPHg: Total petroleum hydrocarbons as gasoline by EPA method 5030/8015/8020.

TPHd: Total petroleum hydrocarbons as diesel by EPA method 3550/8015.

B: Benzene, T: Toluene, E: Ethylbenzene, X: Total Xylene isomers

BTEX: Analyzed by EPA method 5030/8015/8020.

TOG: Total Oil and Grease by Standard Method 5520 E&F.

VOCs = Halogenated volatile organics.

NA = Compound not analyzed for.

ND = Compound not detected.

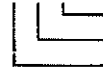
Sample designation:

S-55-B11



Boring number  
Sample depth in feet below ground surface  
Soil sample

B13-2-16



Sample depth in feet below ground surface  
Sample collected from boring  
Boring number

---

Table 1  
UST Removal Compliance Sampling Results

ARCO Service Station 6113  
785 East Stanley Boulevard, Livermore, California

Sample ID	Date Sampled	Depth Sampled (ft)	TPHg (mg/kg)	Benzene (mg/kg)	Toulene (mg/kg)	Ethyl-benzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	Lead (mg/kg)
DP-1	12/6/00	4.5	1.57	<0.00500	0.00694	<0.00500	0.0124	<0.0250	<10.4
DP-2	12/6/00	4.5	5.00	<0.00500	0.0102	<0.00500	0.0332	0.0268	<10.1
DP-3	12/6/00	4.5	1.40	<0.00500	0.00710	<0.00500	0.0126	<0.0250	22.9
DP-4	12/6/00	4.5	6.80	<0.00500	0.00568	0.0222	0.0241	<0.0250	<9.71
DP-5	12/6/00	4.5	1.40	<0.00500	0.0173	0.00522	0.0355	0.133	<9.27
DP-6	12/6/00	4.5	1.05	<0.00500	<0.00500	<0.00500	<0.00500	<0.0250	<9.27
Pipe-1	12/6/00	4.5	<1.00	<0.00500	<0.00500	<0.00500	0.00624	<0.0250	10.9
Pipe-2	12/6/00	4.5	<1.00	<0.00500	<0.00500	<0.00500	<0.00500	<0.0250	<9.71
Pipe-3	12/6/00	4.5	<1.00	<0.00500	<0.00500	<0.00500	0.00848	<0.0250	<10.0
Pipe-4	12/6/00	4.5	<1.00	<0.00500	0.00536	<0.00500	0.0102	<0.0250	15.1
Pipe-6	12/6/00	4.5	<1.00	0.00918	0.0326	<0.00500	0.0193	0.0610	<9.90
Pipe-7	12/6/00	4.5	<1.00	<0.00500	<0.00500	<0.00500	<0.00500	<0.0250	<9.90
Pipe-8	12/6/00	4.5	<1.00	<0.00500	<0.00500	<0.00500	<0.00500	<0.0250	<9.27
EX-1	1/8/01	17.5	3.030	2.74	9.85	33.7	297	11.8	<9.81
EX-2	1/8/01	18.0	2.930	2.74	10.7	37.4	225	<6.25	<9.90

**Table 1**  
**UST Removal Compliance Sampling Results**

**ARCO Service Station 6113**  
**785 East Stanley Boulevard, Livermore, California**

Sample ID	Date Sampled	Depth Sampled (fbg)	TPHg (mg/kg)	Benzene (mg/kg)	Toulene (mg/kg)	Ethyl-benzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	Lead (mg/kg)
EX-3	1/8/01	18.0	1,480	<0.500	8.86	8.33	16.8	5.42	<10.0
EX-4	1/8/01	18.0	295	<0.500	0.846	1.66	10.1	2.72	<10.0
EX-5	1/8/01	18.0	3,490	<1.25	<1.25	22.8	39.8	<6.25	<9.62
EX-6	1/8/01	18.5	1.36	<0.00500	<0.00500	0.00906	0.0242	0.471	<9.71

**Notes**

fbg = feet below grade  
mg/kg = milligrams per kilogram

TPHg = total petroleum hydrocarbons as gasoline  
TPHd = total petroleum hydrocarbons as diesel  
MTBE = methyl tert butyl ether

**TABLE 1: Summary of Soil Analyses: Product Line Trenches  
ARCO Facility No. 6113, Livermore, California**

Sample Designation	Date	Depth (feet bgs)	TPH-G	BTEX Distinction				Lead
				Benzene	Toluene	Ethylbenzene	Xylenes	
L1	12/11/92	4.0	ND	0.010	0.019	0.0081	0.059	2.5
L2	12/11/92	4.0	14	0.063	0.42	0.28	2.0	5.7
L3	12/11/92	4.0	ND	ND	0.0057	ND	0.033	2.7
L4	12/11/92	4.0	ND	0.0095	0.011	0.0052	0.031	12
L5	12/11/92	4.0	ND	0.0069	0.010	ND	0.028	5.4
L6	12/11/92	4.0	ND	0.064	0.13	ND	0.13	7.9
L7	12/11/92	3.5	7.0	0.59	1.6	0.15	1.1	6.9
L8	12/11/92	3.5	1.3	0.035	0.019	0.0054	0.052	4.4
L9	12/11/92	4.0	210	ND	3.5	3.6	23	11
L10	12/11/92	3.5	1.0	ND	0.0079	ND	0.017	15
L11	12/16/92	6.0	ND	ND	ND	ND	ND	3.3

**FOOTNOTES**

All concentrations reported in mg/kg (ppm)

TPH-G = Total Purgeable Petroleum Hydrocarbons (USEPA Method 8015)

BTEX Distinction (USEPA Method 8020)

Lead = Total Lead (USEPA Method 7421)

ND = Not Detected (for detection limits see laboratory reports in Appendix B)

bgs = Below ground surface

**Table 3**  
**Soil Analytical Results**

**November 9, 2001**

**ARCO Service Station No. 6113**  
**785 East Stanley Boulevard, Livermore, California**

<b>Sample ID</b>	<b>Sample Depth (fbg)</b>	<b>TPHg (mg/kg)</b>	<b>Benzene (mg/kg)</b>	<b>Toulene (mg/kg)</b>	<b>Ethyl-benzene (mg/kg)</b>	<b>Xylene (mg/kg)</b>	<b>MTBE (mg/kg)</b>
MW-13 5.5'	5.5	<1.0	<0.0050	0.0068	0.0058	0.046	<0.050
MW-13 10.5'	10.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.28
MW-13 15.5'	15.5	13	<0.010	<0.010	0.045	0.30	<0.10

**Notes**

fbg = feet below grade

mg/kg = milligrams per kilogram

TPHg = total petroluem hydrocarbons as gasoline

MTBE = methyl tertiary butyl ether by EPA Méthod 8020

**Table 1. Summary of Soil Sample Analytical Data  
Station #6113, 785 East Stanley Boulevard, Livermore, CA**

Soil Boring Identification*	Sample ID	Date Collected	GRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	Comments
RMW-13	RMW15@14.5-15.0	3/11/2010	<0.50	0.001	<0.0010	0.0057	0.0054	0.0018	0.17	
	RMW13@21.0-21.5	3/11/2010	1,900	2.1	0.13	22	52	0.15	<1.0	
	RMW15@25.5-26.0	3/11/2010	160	0.98	<0.1	2.0	5.3	0.28	<1.0	
	RMW13@31.0-31.5	3/11/2010	63	0.54	<0.1	0.32	0.25	<0.1	<1.0	

**Abbreviations & Symbols:**

\* = See Drawing 2 for soil boring location

GRO: Gasoline range organics

Calscience Environmental Laboratories, Inc.: GRO(C6-C12)

GRO analyzed using EPA method 8015B

MTBE: Methyl tert-butyl ether

TBA: Tert-butyl alcohol

Benzene, toluene, ethylbenzene, total xylenes, MTBE, and TBA analyzed using EPA method 8260B  
mg/kg = Milligrams per kilogram

**Notes:**

1,2-dibromoethane (EDB), 1,2-dichloroethane (1,2 DCA), Di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), ter-amy methyl ether (TAME), and ethanol were not detected at or above their respective laboratory reporting limit.

The number after @ in Sample ID denotes the depth range at which the sample was collected in feet bgs (i.e., RMW13@14.5-15.0 was collected between 14.5 and 15.0 feet bgs.



# SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063  
(415) 364-9600 • FAX (415) 364-9233

RESNA	Client Project ID: Arco 6113, Livermore	Sampled: Mar 24, 1993
3315 Almaden Expwy., Suite 34	Sample Matrix: Soil	Received: Mar 25, 1993
San Jose, CA 95118	Analysis Method: EPA 5030/8015/8020	Reported: Apr 7, 1993
Attention: Joel Coffman	First Sample #: 3CD0901	

## TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 3CD0901 S-15.5-B17	Sample I.D. 3CD0902 S-20-B17	Sample I.D. 3CD0903 S-30.5-B17	Sample I.D. 3CD0904 S-35-B17	Sample I.D. 3CD0905 S-10-B18	Sample I.D. 3CD0906 S-20-B18
Purgeable Hydrocarbons	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromatogram Pattern:		..	..	..	..	..	..

### Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	3/31/93	3/31/93	3/31/93	3/31/93	3/30/93	3/30/93
Instrument Identification:	GCHP-7	GCHP-7	GCHP-7	GCHP-7	GCHP-7	GCHP-6
Surrogate Recovery, %: (QC Limits = 70-130%)	77	87	87	89	82	89

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.  
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL

*[Handwritten Signature]*  
 Maria Lee  
 Project Manager





# SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063  
(415) 364-9600 • FAX (415) 364-9233

RESNA  
3315 Almaden Expwy., Suite 34  
San Jose, CA 95118  
Attention: Joel Coffman

Client Project ID: Arco 6113, Livermore  
Sample Matrix: Soil  
Analysis Method: EPA 5030/8015/8020  
First Sample #: 3CD0907

Sampled: Mar 24, 1993  
Received: Mar 25, 1993  
Reported: Apr 7, 1993

## TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 3CD0907 S-30-B18	Sample I.D. 3CD0908 S-35-B18	Sample I.D. 3CD0909 S-45-B18	Sample I.D. 3CD0910 S-10-B19	Sample I.D. 3CD0911 S-15-B19	Sample I.D. 3CD0912 S-35.5-B19
Purgeable Hydrocarbons	1.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.0050	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

Chromatogram Pattern: .. .. .

### Quality Control Data

Report Limit Multiplication Factor:	1.0	1.0	1.0	1.0	1.0	1.0
Date Analyzed:	3/30/93	3/31/93	3/31/93	3/31/93	3/31/93	3/31/93
Instrument Identification:	GCHP-7	GCHP-7	GCHP-7	GCHP-7	GCHP-7	GCHP-7
Surrogate Recovery, %: (QC Limits = 70-130%)	105	87	95	85	92	90

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.  
Analytes reported as N.D. were not detected above the stated reporting limit.

### SEQUOIA ANALYTICAL

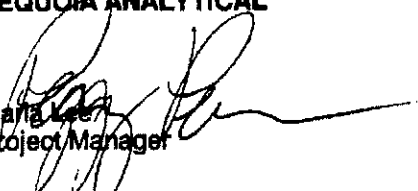
  
Maria Lee  
Project Manager

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote	
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-1																
3/23/1995	-	457.04	29.00	44.00	14.12	442.92	-	-	-	-	-	-	-	-	-	e
5/31/1995	-		29.00	44.00	14.45	442.59	-	-	-	-	-	-	-	-	-	e
8/31/1995	-		29.00	44.00	17.12	439.92	-	-	-	-	-	-	-	-	-	e
11/28/1995	-		29.00	44.00	16.34	440.70	<50	<0.5	<0.5	<0.5	<0.5	<3	-	-	-	e
2/22/1996	-		29.00	44.00	13.23	443.81	-	-	-	-	-	-	-	-	-	e
5/23/1996	-		29.00	44.00	14.02	443.02	-	-	-	-	-	-	-	-	-	e
8/8/1996	-		29.00	44.00	16.13	440.91	-	-	-	-	-	-	-	-	-	e
11/7/1996	-		29.00	44.00	17.28	439.76	<50	<0.5	<0.5	<0.5	<0.5	<3	-	-	-	e
3/27/1997	-		29.00	44.00	14.91	442.13	-	-	-	-	-	-	-	-	-	e
5/19/1997	-		29.00	44.00	16.47	440.57	-	-	-	-	-	-	-	-	-	e
5/18/1998	-		29.00	44.00	14.69	442.35	-	-	-	-	-	-	-	-	-	e
11/2/1998	-		29.00	44.00	25.94	431.10	<50	<0.5	<0.5	<0.5	<0.5	<3	-	-	-	e
6/4/1999	-		29.00	44.00	17.38	439.66	-	-	-	-	-	-	-	-	-	e
11/11/1999	P		29.00	44.00	18.63	438.41	<50	<0.5	<0.5	<0.5	<1	<3	1.03	-	-	e
6/20/2000	-		29.00	44.00	17.09	439.95	-	-	-	-	-	-	3.1	-	-	e
8/29/2000	-		29.00	44.00	18.20	438.84	-	-	-	-	-	-	2.66	-	-	e
11/29/2000	P		29.00	44.00	20.30	436.74	<50.0	<0.500	<0.500	<0.500	1.36	<2.50	0.71	-	-	e
5/2/2001	-		29.00	44.00	22.39	434.65	-	-	-	-	-	-	-	-	-	e
8/15/2001	-		29.00	44.00	24.97	432.07	-	-	-	-	-	-	-	-	-	e
10/5/2001	P		29.00	44.00	25.09	431.95	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.78	-	-	e
1/21/2002	-		29.00	44.00	24.58	432.46	-	-	-	-	-	-	-	-	-	e
4/26/2002	-		29.00	44.00	24.19	432.85	-	-	-	-	-	-	-	-	-	e
10/7/2002	-		29.00	44.00	20.13	436.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	-	-	e
05/01/2003	-		29.00	44.00	17.98	439.06	-	-	-	-	-	-	-	-	-	r
10/27/2005	-	459.41	29.00	44.00	18.45	440.96	-	-	-	-	-	-	-	-	-	
04/12/2006	-		29.00	44.00	15.18	444.23	-	-	-	-	-	-	-	-	-	
10/31/2006	-		29.00	44.00	19.18	440.23	-	-	-	-	-	-	-	-	-	
4/19/2007	-		29.00	44.00	23.20	436.21	-	-	-	-	-	-	-	-	-	
10/16/2007	-		29.00	44.00	38.28	421.13	-	-	-	-	-	-	-	-	-	
4/24/2008	-		29.00	44.00	25.97	433.44	-	-	-	-	-	-	-	-	-	

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	P/N/P	TOC (feet)	Top of Screen (ft. bgs)	Bottom of Screen (ft. bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote	
							GRO/TPHG	Benzene	Toluene	Ethyl-Benzene	Total Xylenes				MTBE
MW-1 Cont.															
6/18/2008	--	459.41	29.00	44.00	--	--	--	--	--	--	--	--	--	--	k
MW-2															
3/23/1995	--	457.74	28.00	38.00	14.15	443.59	--	--	--	--	--	--	--	--	e
5/31/1995	--		28.00	38.00	14.67	443.07	--	--	--	--	--	--	--	--	e
8/31/1995	--		28.00	38.00	17.24	440.50	--	--	--	--	--	--	--	--	e
11/28/1995	--		28.00	38.00	16.40	441.34	<50	<0.5	<0.5	<0.5	<3	--	--	--	e
2/22/1996	--		28.00	38.00	13.55	444.19	--	--	--	--	--	--	--	--	e
5/23/1996	--		28.00	38.00	14.29	443.45	--	--	--	--	--	--	--	--	e
8/8/1996	--		28.00	38.00	16.19	441.55	--	--	--	--	--	--	--	--	e
11/7/1996	--		28.00	38.00	17.50	440.24	65	0.6	7.4	2.1	5	--	--	--	e
3/27/1997	--		28.00	38.00	15.32	442.42	--	--	--	--	--	--	--	--	e
5/19/1997	--		28.00	38.00	16.62	441.12	--	--	--	--	--	--	--	--	e
5/18/1998	--		28.00	38.00	15.12	442.62	--	--	--	--	--	--	--	--	e
11/2/1998	--		28.00	38.00	26.66	431.08	<50	<0.5	<0.5	<0.5	<3	--	--	--	e
6/4/1999	--		28.00	38.00	17.74	440.00	--	--	--	--	--	--	--	--	e
11/11/1999	P		28.00	38.00	18.75	438.99	<50	<0.5	<0.5	<0.5	<3	0.82	--	--	e
6/20/2000	--		28.00	38.00	17.21	440.53	--	--	--	--	--	2.6	--	--	e
8/29/2000	--		28.00	38.00	18.25	439.49	--	--	--	--	--	2.65	--	--	e
11/29/2000	P		28.00	38.00	20.69	437.05	<50.0	<0.500	0.581	0.827	<2.50	0.88	--	--	e
5/2/2001	--		28.00	38.00	22.69	435.05	--	--	--	--	--	--	--	--	e
8/15/2001	--		28.00	38.00	25.15	432.59	--	--	--	--	--	--	--	--	e
10/5/2001	P		28.00	38.00	25.22	432.52	<50	<0.50	<0.50	<0.50	<2.5	0.8	--	--	e
1/21/2002	--		28.00	38.00	24.70	433.04	--	--	--	--	--	--	--	--	e
4/26/2002	--		28.00	38.00	24.53	433.21	--	--	--	--	--	--	--	--	e
10/7/2002	--		28.00	38.00	19.45	438.29	<50	<0.50	<0.50	<0.50	<0.50	1.5	--	--	r
05/01/2003	--		28.00	38.00	18.18	439.56	--	--	--	--	--	--	--	--	t
10/27/2005	--	460.07	28.00	38.00	--	--	--	--	--	--	--	--	--	--	
04/12/2006	--		28.00	38.00	15.30	444.77	--	--	--	--	--	--	--	--	
10/31/2006	--		28.00	38.00	19.48	440.59	--	--	--	--	--	--	--	--	
4/19/2007	--		28.00	38.00	23.85	436.22	--	--	--	--	--	--	--	--	

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote		
							GRO/TPHG	Benzene	Toluene	Ethyl-Benzene	Total Xylenes				MTBE	
<b>MW-2 Cont.</b>																
10/16/2007	--	460.07	28.00	38.00	36.78	423.29	--	--	--	--	--	--	--	--		
4/24/2008	--		28.00	38.00	26.38	433.69	--	--	--	--	--	--	--	--		
10/15/2008	--		28.00	38.00	37.21	422.86	--	--	--	--	--	--	--	--		
4/28/2009	--		28.00	38.00	33.30	426.77	--	--	--	--	--	--	--	--		
11/9/2009	--		28.00	38.00	21.87	438.20	--	--	--	--	--	--	--	--		
4/12/2010	--		28.00	38.00	18.53	441.54	--	--	--	--	--	--	--	--		
11/4/2010	--		28.00	38.00	19.31	440.76	--	--	--	--	--	--	--	--		
5/18/2011	--		28.00	38.00	17.72	442.35	--	--	--	--	--	--	--	--		
10/20/2011	--		28.00	38.00	18.26	441.81	--	--	--	--	--	--	--	--		
4/11/2012	--		28.00	38.00	21.71	438.36	--	--	--	--	--	--	--	--		
10/10/2012	--		28.00	38.00	21.57	438.50	--	--	--	--	--	--	--	--		
4/9/2013	--		28.00	38.00	19.07	441.00	--	--	--	--	--	--	--	--		
4/9/2013	P		28.00	38.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	3.8	7.30		Top	
4/9/2013	P		28.00	38.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	3.9	7.28		Middle	
4/9/2013	P		28.00	38.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	4.1	7.31		Bottom	
<b>MW-3</b>																
3/23/1995	--	456.97	28.50	38.50	14.13	442.84	--	--	--	--	--	--	--	--		e
5/31/1995	--		28.50	38.50	14.46	442.51	--	--	--	--	--	--	--	--		e
8/31/1995	--		28.50	38.50	17.06	439.91	--	--	--	--	--	--	--	--		e
11/28/1995	--		28.50	38.50	16.27	440.70	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		e
2/22/1996	--		28.50	38.50	13.14	443.83	--	--	--	--	--	--	--	--		e
5/23/1996	--		28.50	38.50	13.95	443.02	--	--	--	--	--	--	--	--		e
8/8/1996	--		28.50	38.50	16.03	440.94	--	--	--	--	--	--	--	--		e
11/7/1996	--		28.50	38.50	17.26	439.71	<50	<0.5	0.9	<0.5	<0.5	1.5	--	--		e
3/27/1997	--		28.50	38.50	14.85	442.12	--	--	--	--	--	--	--	--		e
5/19/1997	--		28.50	38.50	16.40	440.57	--	--	--	--	--	--	--	--		e
5/18/1998	--		28.50	38.50	14.66	442.31	--	--	--	--	--	--	--	--		e
11/2/1998	--		28.50	38.50	25.85	431.12	<1,000	<10	<10	<10	<10	--	--	1,700		e
6/4/1999	--		28.50	38.50	17.35	439.62	--	--	--	--	--	--	--	--		e
11/11/1999	P		28.50	38.50	18.58	438.39	<50	<0.5	<0.5	<0.5	<0.5	--	--	<3		e

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							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			
<b>MW-3 Cont.</b>														
6/20/2000	--	456.97	28.50	38.50	17.03	439.94	--	--	--	--	--	2.8	--	e
8/29/2000	--		28.50	38.50	18.25	438.72	--	--	--	--	--	3.39	--	e
11/29/2000	--		28.50	38.50	20.27	436.70	<0.500	<0.500	1.08	3.34	<2.50	0.67	--	
5/2/2001	--		28.50	38.50	22.33	434.64	--	--	--	--	--	--	--	e
8/15/2001	--		28.50	38.50	25.03	431.94	--	--	--	--	--	--	--	e
10/5/2001	P		28.50	38.50	25.17	431.80	<0.50	<0.50	<0.50	<0.50	<2.5	0.79	--	
1/21/2002	--		28.50	38.50	24.79	432.18	--	--	--	--	--	--	--	e
4/26/2002	--		28.50	38.50	24.27	432.70	--	--	--	--	--	--	--	e
10/7/2002	--		28.50	38.50	20.20	436.77	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	--	c,e
05/01/2003	--		28.50	38.50	18.27	438.70	--	--	--	--	--	--	--	
10/03/2003	P		28.50	38.50	20.07	436.90	<0.50	<0.50	<0.50	<0.50	<0.50	5.2	7.3	d
04/06/2004	--	459.32	28.50	38.50	17.24	442.08	--	--	--	--	--	--	--	e
10/28/2004	P		28.50	38.50	19.38	439.94	<0.50	<0.50	<0.50	<0.50	<0.50	8.1	7.3	
04/13/2005	--		28.50	38.50	16.02	443.30	--	--	--	--	--	--	--	
10/27/2005	--		28.50	38.50	--	--	--	--	--	--	--	--	--	t
04/12/2006	--		28.50	38.50	15.12	444.20	--	--	--	--	--	--	--	
10/31/2006	P		28.50	38.50	19.14	440.18	400	5.5	<0.50	9.6	22	--	7.64	
4/19/2007	--		28.50	38.50	23.07	436.25	--	--	--	--	--	--	--	f
10/16/2007	--		28.50	38.50	--	--	--	--	--	--	--	--	--	
4/24/2008	--		28.50	38.50	25.65	433.67	--	--	--	--	--	--	--	
9/10/2008	--		28.50	38.50	--	--	--	--	--	--	--	--	--	k
<b>MW-4</b>														
3/23/1995	--	456.55	21.00	27.00	15.39	441.16	210	2.1	0.6	0.8	2.1	--	--	
5/31/1995	--		21.00	27.00	15.32	441.23	190	1.6	<0.5	0.7	0.9	--	--	
8/31/1995	--		21.00	27.00	17.86	438.69	160	1.2	0.7	<0.5	<2	--	--	
11/28/1995	--		21.00	27.00	17.18	439.37	150	0.7	<0.5	0.7	1.4	--	--	
2/22/1996	--		21.00	27.00	14.80	441.75	100	<0.5	<0.5	<0.6	0.8	--	--	
5/23/1996	--		21.00	27.00	14.43	442.12	86	<0.5	<0.5	<0.5	<0.7	--	--	
8/8/1996	--		21.00	27.00	16.80	439.75	98	<0.5	<0.5	<0.5	1.3	--	--	
11/7/1996	--		21.00	27.00	17.90	438.65	140	<0.5	<0.5	<0.9	1.3	--	--	

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							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes				MTBE
MW-4 Cont.															
3/27/1997	--	456.55	21.00	27.00	15.22	441.33	<50	1.1	<0.5	<0.5	1.6	<3	--	--	
5/19/1997	--		21.00	27.00	16.98	439.57	62	<0.5	<0.5	<0.5	0.6	<3	--	--	
5/18/1998	--		21.00	27.00	14.99	441.56	<50	<0.5	<0.5	<0.5	<0.5	64	--	--	
11/2/1998	--		21.00	27.00	25.29	431.26	74	<0.5	<0.5	<0.5	<0.5	96	--	--	
6/4/1999	P		21.00	27.00	17.95	438.60	100	<0.5	<0.5	<0.5	<0.5	38	--	--	
11/11/1999	P		21.00	27.00	19.25	437.30	88	<0.5	<0.5	<0.5	<1	10	0.77	--	
6/20/2000	--		21.00	27.00	17.79	438.76	<50.0	<0.500	<0.500	<0.500	<0.500	62.3	--	--	q
6/20/2000	P		21.00	27.00	17.79	438.76	<50.0	<0.500	<0.500	<0.500	<0.500	82.4	1.3	--	
8/29/2000	P		21.00	27.00	18.90	437.65	56	<0.500	<0.500	<0.500	<0.500	47.9	0.97	--	
11/29/2000	P		21.00	27.00	20.50	436.05	<50.0	<0.500	<0.500	<0.500	<0.500	9.88/10.4	0.59	--	s
5/2/2001	--		21.00	27.00	22.65	433.90	<50.0	<0.500	<0.500	<0.500	<0.500	59.4/68.4	--	--	s
5/2/2001	P		21.00	27.00	22.65	433.90	<50.0	<0.500	<0.500	<0.500	<0.500	61.1/70.9	0.74	--	q,s
8/15/2001	--		21.00	27.00	--	--	--	--	--	--	--	--	--	--	f
10/5/2001	--		21.00	27.00	--	--	--	--	--	--	--	--	--	--	f
1/21/2002	--		21.00	27.00	--	--	--	--	--	--	--	--	--	--	f
4/26/2002	P		21.00	27.00	20.15	436.40	110	<0.50	<0.50	<0.50	<0.50	150	0.21	--	
10/7/2002	P		21.00	27.00	20.76	435.79	96	<0.50	<0.50	0.54	<0.50	260	1.0	--	a
05/01/2003	P		21.00	27.00	19.67	436.88	120	1.3	<0.50	<0.50	<0.50	86	1.7	--	c
10/03/2003	P		21.00	27.00	20.23	436.32	<50	<0.50	<0.50	<0.50	<0.50	22	13.5	6.8	d
04/06/2004	P	458.88	21.00	27.00	18.13	440.75	96	<0.50	<0.50	<0.50	<0.50	17	1.6	6.8	
10/28/2004	P		21.00	27.00	20.02	438.86	<50	<0.50	<0.50	<0.50	<0.50	4.5	1.2	6.7	
04/13/2005	P		21.00	27.00	16.68	442.20	<50	<0.50	<0.50	<0.50	<0.50	2.8	0.8	6.7	
10/27/2005	P		21.00	27.00	19.05	439.83	400	14	<0.50	11	1.8	22	1.0	6.9	
04/12/2006	P		21.00	27.00	15.47	443.41	100	<0.50	<0.50	<0.50	<0.50	1.9	1.6	7.2	
10/31/2006	P		21.00	27.00	19.67	439.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	7.63	
4/19/2007	NP		21.00	27.00	22.72	436.16	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.92	7.36	
10/16/2007	--		21.00	27.00	--	--	--	--	--	--	--	--	--	--	f
4/24/2008	--		21.00	27.00	--	--	--	--	--	--	--	--	--	--	f
10/15/2008	--		21.00	27.00	--	--	--	--	--	--	--	--	--	--	f
4/28/2009	--		21.00	27.00	--	--	--	--	--	--	--	--	--	--	f

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote	
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-4 Cont.</b>																
11/9/2009	NP	458.88	21.00	27.00	22.73	436.15	270	4.6	<0.50	<0.50	<0.50	<0.50	3.1	--	--	x (GRO)
4/12/2010	P		21.00	27.00	19.25	439.63	1,200	2.0	<0.50	<0.50	<0.50	<0.50	2.7	0.81	6.87	
11/4/2010	P		21.00	27.00	20.40	438.48	330	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	0.44	6.5	x (GRO)
5/18/2011	P		21.00	27.00	17.84	441.04	290	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	1.04	7.1	x (GRO)
10/20/2011	P		21.00	27.00	19.33	439.55	120	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	0.95	7.23	x (GRO)
4/11/2012	P		21.00	27.00	21.33	437.55	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	0.22	7.11	
10/10/2012	P		21.00	27.00	21.50	437.38	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.51	1.39	7.29	
4/9/2013	P		21.00	27.00	19.32	439.56	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3.8	7.13	
<b>MW-5</b>																
3/23/1995	--	455.84	43.00	63.00	13.97	441.87	68	4.2	3.4	2.3	12	--	--	--	--	g
5/31/1995	--		43.00	63.00	--	--	--	--	--	--	--	--	--	--	--	g
8/31/1995	--		43.00	63.00	--	--	--	--	--	--	--	--	--	--	--	g
11/28/1995	--		43.00	63.00	16.46	439.38	960	41	24	38	210	<5	--	--	--	f
2/22/1996	--		43.00	63.00	13.34	442.50	--	--	--	--	--	--	--	--	--	f
5/23/1996	--		43.00	63.00	14.36	441.48	7,100	440	180	270	1,700	<50	--	--	--	f
8/8/1996	--		43.00	63.00	16.38	439.46	--	--	--	--	--	--	--	--	--	f
11/7/1996	--		43.00	63.00	17.26	438.58	5,600	230	86	210	1,100	<80	--	--	--	f
3/27/1997	--		43.00	63.00	15.95	439.89	--	--	--	--	--	--	--	--	--	f
5/19/1997	--		43.00	63.00	16.64	439.20	7,600	480	140	400	1,200	<40	--	--	--	f
5/18/1998	--		43.00	63.00	14.75	441.09	990	46	13	45	180	4	--	--	--	f
11/2/1998	--		43.00	63.00	27.83	428.01	14,000	690	140	550	2,200	100	--	--	--	f
6/4/1999	P		43.00	63.00	17.47	438.37	8,300	690	370	90	440	1,400	--	--	--	s
11/11/1999	P		43.00	63.00	18.80	437.04	18,000	900	190	1,100	3,200	72	0.86	--	--	k
6/20/2000	P		43.00	63.00	17.14	438.70	10,200	618	122	832	2,020	<50.0	1.6	--	--	
8/29/2000	P		43.00	63.00	18.60	437.24	12,300	436	166	711	2,120	517	0.79	--	--	
11/29/2000	P		43.00	63.00	20.57	435.27	26,000	491	149	1,090	3,810	671/<20.0	0.51	--	--	s
5/2/2001	--		43.00	63.00	--	--	--	--	--	--	--	--	--	--	--	k
<b>MW-6</b>																
3/23/1995	--	454.93	48.00	68.00	13.38	441.55	<50	1.5	<0.5	<0.5	0.9	--	--	--	--	

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	P/N/P	TOC (feet)	Top of Screen (ft. bgs)	Bottom of Screen (ft. bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-6 Cont.															
5/31/1995	--	454.93	48.00	68.00	13.96	440.97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	
8/31/1995	--		48.00	68.00	16.71	438.22	150	9	1.8	4	12	<3	--	--	
11/28/1995	--		48.00	68.00	15.65	439.28	<50	0.6	<0.5	<0.5	0.8	<3	--	--	
2/22/1996	--		48.00	68.00	12.53	442.40	<50	1.9	<0.5	0.8	2.1	<3	--	--	
5/23/1996	--		48.00	68.00	13.24	441.69	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	
8/8/1996	--		48.00	68.00	16.65	438.28	<50	0.5	<0.5	<0.5	0.5	<3	--	--	
11/7/1996	--		48.00	68.00	16.65	438.28	110	5.3	1.3	3.1	6.6	<3	--	--	
3/27/1997	--		48.00	68.00	14.25	440.68	<50	2.3	<0.5	0.9	3.5	4	--	--	
5/19/1997	--		48.00	68.00	15.87	439.06	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	
5/18/1998	--		48.00	68.00	14.00	440.93	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	
11/2/1998	--		48.00	68.00	24.95	429.98	<50	1.2	<0.5	<0.5	<0.5	3	--	--	
6/4/1999	P		48.00	68.00	16.68	438.25	310	41	3.8	11	19	33	--	--	
11/11/1999	P		48.00	68.00	16.12	438.81	<50	0.5	<0.5	<0.5	<1	<3	--	--	
6/20/2000	P		48.00	68.00	16.63	438.30	<50.0	<0.50	<0.50	<0.50	<0.50	17.3	--	--	q
8/29/2000	--		48.00	68.00	17.91	437.02	<50.0	<0.50	<0.50	<0.50	<0.50	<2.50	--	--	
8/29/2000	P		48.00	68.00	17.91	437.02	<50.0	<0.50	0.551	<0.50	<0.50	<2.50	--	--	
11/29/2000	P		48.00	68.00	20.30	434.63	<50.0	<0.50	<0.50	<0.50	1.03	<2.50	--	--	
5/2/2001	P		48.00	68.00	22.20	432.73	3,230	1,300	33.6	89.4	136	1,810/2,310	--	--	s
8/15/2001	P		48.00	68.00	27.95	426.98	<50	<0.50	<0.50	<0.50	<0.50	21/25	--	--	s
10/5/2001	P		48.00	68.00	28.05	426.88	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	
1/21/2002	P		48.00	68.00	26.81	428.12	<50	<0.50	<0.50	<0.50	<0.50	<5.0	--	--	
4/26/2002	P		48.00	68.00	26.27	428.66	<50	<0.50	<0.50	<0.50	<0.50	17	--	--	
10/7/2002	P		48.00	68.00	20.05	434.88	60	13	1.7	1.7	3.5	8	--	--	a
05/01/2003	P		48.00	68.00	17.62	437.31	<50	5.4	<0.50	0.63	1.3	12	--	--	c
10/03/2003	P		48.00	68.00	19.62	435.31	80	2.6	<2.5	<2.5	<2.5	120	--	--	d
04/06/2004	P	457.24	48.00	68.00	16.88	440.36	<2,500	<25	<25	<25	<25	1,700	6.9	7.0	
10/28/2004	P		48.00	68.00	19.20	438.04	3,200	<25	<25	<25	<25	3,100	6.8	6.9	
04/13/2005	P		48.00	68.00	15.15	442.09	<5,000	<50	<50	<50	<50	3,900	3.9	7.0	
10/27/2005	P		48.00	68.00	18.12	439.12	<5,000	<50	<50	<50	<50	2,900	3.15	7.0	
04/12/2006	P		48.00	68.00	15.32	441.92	<5,000	<50	<50	<50	<50	3,400	4.3	7.6	



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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote	
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes				MTBE
<b>MW-6 Cont.</b>															
10/31/2006	P	457.24	48.00	68.00	18.85	438.39	2,700	<25	<25	<25	<25	<25	3,400	10.36	u, v
4/19/2007	P		48.00	68.00	22.25	434.99	970	<25	<25	<25	<25	<25	2,200	10.52	v
10/16/2007	P		48.00	68.00	37.17	420.07	2,700	240	50	55	55	2,600	4.56	v, w (MTBE)	
4/24/2008	P		48.00	68.00	24.55	432.69	15,000	5,300	620	470	470	4,200	2.15		
9/10/2008	--		48.00	68.00	--	--	--	--	--	--	--	--	--	6.90	k
<b>MW-7</b>															
3/23/1995	--	454.92	48.00	68.00	13.29	441.63	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	
5/31/1995	--		48.00	68.00	13.72	441.20	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	
8/31/1995	--		48.00	68.00	16.53	438.39	<50	<0.5	<0.5	<0.5	1.2	<3	<3	--	
11/28/1995	--		48.00	68.00	15.50	439.42	<50	<0.5	<0.5	<0.5	<0.5	<3	<3	--	
2/22/1996	--		48.00	68.00	12.30	442.62	<50	<0.5	<0.5	<0.5	<0.5	<3	<3	--	
5/23/1996	--		48.00	68.00	13.02	441.90	<50	<0.5	<0.5	<0.5	<0.5	<3	<3	--	
8/8/1996	--		48.00	68.00	--	--	--	--	--	--	--	--	--	--	m
11/7/1996	--		48.00	68.00	16.50	438.42	<50	<0.5	<0.5	<0.5	0.8	<3	<3	--	
3/27/1997	--		48.00	68.00	14.22	440.70	<50	<0.5	<0.5	<0.5	<0.5	<3	<3	--	
5/19/1997	--		48.00	68.00	15.74	439.18	<50	<0.5	<0.5	<0.5	<0.5	<3	<3	--	
5/18/1998	--		48.00	68.00	13.82	441.10	<50	<0.5	<0.5	<0.5	<0.5	<3	<3	--	
11/2/1998	--		48.00	68.00	24.80	430.12	<50	<0.5	<0.5	<0.5	<0.5	4	4	--	
6/4/1999	P		48.00	68.00	16.55	438.37	<50	<0.5	<0.5	<0.5	<0.5	<3	<3	--	
11/11/1999	P		48.00	68.00	18.02	436.90	<50	<0.5	<0.5	<0.5	<1	<3	<3	1.03	
6/20/2000	P		48.00	68.00	16.50	438.42	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<2.50	1.3	
8/29/2000	P		48.00	68.00	17.80	437.12	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<2.50	1.67	
11/29/2000	P		48.00	68.00	19.61	435.31	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	<2.50	0.51	
5/2/2001	P		48.00	68.00	22.05	432.87	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50/2.66	<2.50/2.66	0.9	s
8/15/2001	P		48.00	68.00	27.55	427.37	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<2.5	0.84	
10/5/2001	P		48.00	68.00	27.59	427.33	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<2.5	0.62	
1/21/2002	P		48.00	68.00	26.50	428.42	<50	<0.50	<0.50	<0.50	<0.50	15/21	15/21	0.65	s
4/26/2002	P		48.00	68.00	26.22	428.70	<50	<0.50	<0.50	<0.50	<0.50	18	18	0.61	
10/7/2002	--		48.00	68.00	20.04	434.88	<50	1.2	<0.50	<0.50	<0.50	41	41	4.8	
05/01/2003	P		48.00	68.00	17.47	437.45	<50	<0.50	<0.50	<0.50	0.5	43	43	2.7	c

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			
<b>MW-8 Cont.</b>														
8/8/1996	--	456.97	47.00	67.00	13.85	443.12	--	--	--	--	--	--	--	e
11/7/1996	--		47.00	67.00	15.08	441.89	<50	<0.5	<0.5	<0.5	<3	--	--	e
3/27/1997	--		47.00	67.00	12.96	444.01	--	--	--	--	--	--	--	e
5/19/1997	--		47.00	67.00	14.35	442.62	--	--	--	--	--	--	--	e
5/18/1998	--		47.00	67.00	12.97	444.00	--	--	--	--	--	--	--	e
11/2/1998	--		47.00	67.00	26.01	430.96	<50	<0.5	<0.5	<0.5	<3	--	--	e
6/4/1999	--		47.00	67.00	15.53	441.44	--	--	--	--	--	--	--	e
11/11/1999	P		47.00	67.00	16.67	440.30	<50	<0.5	<0.5	<1	<3	1.01	--	e
6/20/2000	--		47.00	67.00	15.29	441.68	--	--	--	--	--	2.4	--	e
8/29/2000	--		47.00	67.00	16.59	440.38	--	--	--	--	--	3.37	--	e
11/29/2000	P		47.00	67.00	19.80	437.17	<50.0	<0.500	<0.500	0.772	<2.50	1.35	--	e
5/2/2001	--		47.00	67.00	22.12	434.85	--	--	--	--	--	--	--	e
8/15/2001	--		47.00	67.00	27.63	429.34	--	--	--	--	--	--	--	e
10/5/2001	P		47.00	67.00	27.65	429.32	<50	<0.50	<0.50	<0.50	<2.5	1.07	--	e
1/21/2002	--		47.00	67.00	26.73	430.24	--	--	--	--	--	--	--	e
4/26/2002	--		47.00	67.00	26.39	430.58	--	--	--	--	--	--	--	e
10/7/2002	--		47.00	67.00	18.43	438.54	<50	<0.50	<0.50	0.86	<0.50	4.2	--	r
05/01/2003	--		47.00	67.00	16.47	440.50	--	--	--	--	--	--	--	
10/27/2005	--		47.00	67.00	17.14	439.83	--	--	--	--	--	--	--	
04/12/2006	--		47.00	67.00	14.08	442.89	--	--	--	--	--	--	--	
10/31/2006	--		47.00	67.00	18.12	438.85	--	--	--	--	--	--	--	
4/19/2007	--		47.00	67.00	22.39	434.58	--	--	--	--	--	--	--	
10/16/2007	--		47.00	67.00	38.18	418.79	--	--	--	--	--	--	--	
4/24/2008	--		47.00	67.00	25.43	431.54	--	--	--	--	--	--	--	
6/18/2008	--		47.00	67.00	--	--	--	--	--	--	--	--	--	k
<b>MW-9</b>														
3/23/1995	--	456.18	48.00	68.00	13.18	443.00	--	--	--	--	--	--	--	e
5/31/1995	--		48.00	68.00	12.66	443.52	--	--	--	--	--	--	--	e
8/31/1995	--		48.00	68.00	14.40	441.78	--	--	--	--	--	--	--	e
11/28/1995	--		48.00	68.00	14.26	441.92	<50	<0.5	<0.5	<0.5	<3	--	--	

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Well ID and Date Monitored	P/N/P	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote	
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes				MTBE
MW-9 Cont.															
2/22/1996	--	456.18	48.00	68.00	12.05	444.13	--	--	--	--	--	--	--	--	e
5/23/1996	--		48.00	68.00	12.07	444.11	--	--	--	--	--	--	--	--	e
8/8/1996	--		48.00	68.00	14.12	442.06	--	--	--	--	--	--	--	--	e
11/7/1996	--		48.00	68.00	15.42	440.76	<50	<0.5	<0.5	<0.5	<3	--	--	--	e
3/27/1997	--		48.00	68.00	13.01	443.17	--	--	--	--	--	--	--	--	e
5/19/1997	--		48.00	68.00	14.60	441.58	--	--	--	--	--	--	--	--	e
5/18/1998	--		48.00	68.00	12.60	443.58	--	--	--	--	--	--	--	--	e
11/2/1998	--		48.00	68.00	25.08	431.10	--	--	--	--	--	--	--	--	e
6/4/1999	P		48.00	68.00	15.87	440.31	<50	<0.5	<0.5	<0.5	<3	--	--	--	e
11/11/1999	P		48.00	68.00	17.02	439.16	<50	<0.5	<0.5	<1	<3	0.96	--	--	e
6/20/2000	--		48.00	68.00	15.54	440.64	--	--	--	--	--	2.1	--	--	e
8/29/2000	--		48.00	68.00	16.81	439.37	--	--	--	--	--	2.59	--	--	e
11/29/2000	P		48.00	68.00	18.81	437.37	<50.0	<0.500	<0.500	<0.500	<2.50	0.81	--	--	e
5/2/2001	--		48.00	68.00	22.09	434.09	--	--	--	--	--	--	--	--	e
8/15/2001	--		48.00	68.00	27.59	428.59	--	--	--	--	--	--	--	--	e
10/5/2001	--		48.00	68.00	27.63	428.55	<50	<0.50	<0.50	<0.50	<2.5	--	--	--	q
10/5/2001	P		48.00	68.00	27.63	428.55	<50	<0.50	<0.50	<0.50	<2.5	0.93	--	--	e
1/21/2002	--		48.00	68.00	26.77	429.41	--	--	--	--	--	--	--	--	e
4/26/2002	--		48.00	68.00	26.41	429.77	--	--	--	--	--	--	--	--	e
10/7/2002	P		48.00	68.00	18.85	437.33	<50	<0.50	<0.50	<0.50	<0.50	2.6	--	--	c, e
05/01/2003	--		48.00	68.00	17.84	438.34	--	--	--	--	--	--	--	--	d
10/03/2003	P		48.00	68.00	18.69	437.49	<50	1.1	0.57	<0.50	<0.50	4.9	6.8	--	e
04/06/2004	--	458.55	48.00	68.00	16.08	442.47	--	--	--	--	--	--	--	--	e
10/28/2004	P		48.00	68.00	18.35	440.20	<50	<0.50	<0.50	<0.50	<0.50	6.8	6.9	--	e
04/13/2005	--		48.00	68.00	14.09	444.46	--	--	--	--	--	--	--	--	e
10/27/2005	P		48.00	68.00	17.41	441.14	<50	0.51	<0.50	<0.50	1.4	2.56	7.0	--	e
04/12/2006	--		48.00	68.00	14.18	444.37	--	--	--	--	--	--	--	--	e
10/31/2006	P		48.00	68.00	17.97	440.58	<50	<0.50	<0.50	<0.50	<0.50	--	7.46	--	e
4/19/2007	--		48.00	68.00	22.37	436.18	--	--	--	--	--	--	--	--	e
10/16/2007	P		48.00	68.00	37.75	420.80	<50	0.83	<0.50	<0.50	<0.50	1.27	7.59	--	e

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
 ARCO Service Station #61113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote	
							GRO/TPHig	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
<b>MW-9 Cont.</b>																
4/24/2008	--	458.55	48.00	68.00	24.89	433.66	--	--	--	--	--	--	--	--	--	
10/15/2008	P		48.00	68.00	44.16	414.39	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.14	7.08		
4/28/2009	--		48.00	68.00	32.61	425.94	--	--	--	--	--	--	--	--	--	
11/9/2009	P		48.00	68.00	20.69	437.86	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.33	6.82		
4/12/2010	--		48.00	68.00	17.29	441.26	--	--	--	--	--	--	--	--	--	
11/4/2010	P		48.00	68.00	18.62	439.93	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.73	6.8		
5/18/2011	--		48.00	68.00	15.83	442.72	--	--	--	--	--	--	--	--	--	
10/20/2011	P		48.00	68.00	17.30	441.25	<50	<0.50	<0.50	<0.50	<0.50	<0.50	4.87	7.96		
4/11/2012	P		48.00	68.00	19.75	438.80	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.99	7.45		
10/10/2012	P		48.00	68.00	19.93	438.62	<50	<0.50	<0.50	<0.50	<1.0	<0.50	1.70	7.68		
4/10/2013	--		48.00	68.00	17.75	440.80	--	--	--	--	--	--	--	--	--	
4/10/2013	P		48.00	68.00	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	6.2	7.31	Top	
4/10/2013	P		48.00	68.00	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	5.3	7.42	Middle	
4/10/2013	P		48.00	68.00	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	3.9	7.70	Bottom	
<b>MW-10</b>																
3/23/1995	--	456.85	32.00	52.00	14.86	441.99	--	--	--	--	--	--	--	--	--	e
5/31/1995	--		32.00	52.00	15.63	441.22	--	--	--	--	--	--	--	--	--	e
8/31/1995	--		32.00	52.00	14.40	442.45	--	--	--	--	--	--	--	--	--	e
11/28/1995	--		32.00	52.00	17.24	439.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<3	--		
2/22/1996	--		32.00	52.00	14.30	442.55	--	--	--	--	--	--	--	--	--	e
5/23/1996	--		32.00	52.00	14.93	441.92	--	--	--	--	--	--	--	--	--	e
8/8/1996	--		32.00	52.00	17.20	439.65	--	--	--	--	--	--	--	--	--	e
11/7/1996	--		32.00	52.00	18.25	438.60	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<3	--		
3/27/1997	--		32.00	52.00	15.77	441.08	--	--	--	--	--	--	--	--	--	e
5/19/1997	--		32.00	52.00	17.38	439.47	--	--	--	--	--	--	--	--	--	e
5/18/1998	--		32.00	52.00	15.47	441.38	--	--	--	--	--	--	--	--	--	e
11/2/1998	--		32.00	52.00	26.94	429.91	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<3	--		
6/4/1999	--		32.00	52.00	17.19	439.66	--	--	--	--	--	--	--	--	--	e
11/11/1999	P		32.00	52.00	19.35	437.50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<3	--		
6/20/2000	--		32.00	52.00	17.92	438.93	--	--	--	--	--	--	--	--	--	e

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
							GRO/TPHig	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>MW-10 Cont.</b>															
8/29/2000	-	456.85	32.00	52.00	19.15	437.70	-	-	-	-	-	-	1.54	-	e
11/29/2000	P		32.00	52.00	21.30	435.55	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	0.95	-	e
5/2/2001	-		32.00	52.00	29.95	426.90	-	-	-	-	-	-	-	-	e
8/15/2001	-		32.00	52.00	30.74	426.11	-	-	-	-	-	-	-	-	e
10/5/2001	P		32.00	52.00	30.95	425.90	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.89	-	e
1/21/2002	-		32.00	52.00	28.97	427.88	-	-	-	-	-	-	-	-	e
4/26/2002	-		32.00	52.00	28.50	428.35	-	-	-	-	-	-	-	-	e
10/7/2002	-		32.00	52.00	21.15	435.70	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.0	-	c, e
05/01/2003	-		32.00	52.00	18.90	437.95	-	-	-	-	-	-	-	-	d
10/03/2003	P		32.00	52.00	20.64	436.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	7.1	e
04/06/2004	-	459.20	32.00	52.00	17.99	441.21	-	-	-	-	-	-	-	-	e
10/28/2004	P		32.00	52.00	20.27	438.93	<50	<0.50	<0.50	<0.50	<0.50	<0.50	5.9	7.1	e
04/13/2005	-		32.00	52.00	16.25	442.95	-	-	-	-	-	-	-	-	e
10/27/2005	P		32.00	52.00	19.03	440.17	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.38	7.2	e
04/12/2006	-		32.00	52.00	14.95	444.25	-	-	-	-	-	-	-	-	
10/31/2006	P		32.00	52.00	20.20	439.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	-	7.30	
4/19/2007	-		32.00	52.00	24.00	435.20	-	-	-	-	-	-	-	-	
10/16/2007	NP		32.00	52.00	38.99	420.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.20	7.36	
4/24/2008	-		32.00	52.00	26.62	432.58	-	-	-	-	-	-	-	-	
9/10/2008	-		32.00	52.00	-	-	-	-	-	-	-	-	-	-	k
<b>MW-11</b>															
3/23/1995	-	455.07	38.00	45.00	17.34	437.73	-	-	-	-	-	-	-	-	
5/31/1995	-		38.00	45.00	16.68	438.39	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	
8/31/1995	-		38.00	45.00	20.20	434.87	-	-	-	-	-	-	-	-	h
11/28/1995	-		38.00	45.00	17.80	437.27	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	h
2/22/1996	-		38.00	45.00	15.97	439.10	-	-	-	-	-	-	-	-	
5/23/1996	-		38.00	45.00	15.50	439.57	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	h
8/8/1996	-		38.00	45.00	17.77	437.30	-	-	-	-	-	-	-	-	h
11/7/1996	-		38.00	45.00	17.45	437.62	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	h
3/27/1997	-		38.00	45.00	15.77	439.30	-	-	-	-	-	-	-	-	h

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-11 Cont.															
5/19/1997	--	455.07	38.00	45.00	16.80	438.27	<50	1.1	4.5	<0.5	2.2	<3	--		
5/18/1998	--		38.00	45.00	15.38	439.69	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
11/2/1998	--		38.00	45.00	24.15	430.92	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
6/4/1999	P		38.00	45.00	18.39	436.68	<50	<0.5	<0.5	<0.5	<0.5	<3	--		
11/11/1999	P		38.00	45.00	18.62	436.45	<50	<0.5	<0.5	<0.5	<1	<3	1.01		
6/20/2000	P		38.00	45.00	17.82	437.25	<50.0	0.631	<0.500	<0.500	<0.500	<2.50	4.1		
8/29/2000	--		38.00	45.00	19.50	435.57	--	--	--	--	--	--	--	h	
11/29/2000	P		38.00	45.00	20.60	434.47	<50.0	<0.500	<0.500	<0.500	1.63	<2.50	0.97		
5/2/2001	P		38.00	45.00	22.42	432.65	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	1.04		
8/15/2001	--		38.00	45.00	27.41	427.66	--	--	--	--	--	--	--	h	
10/5/2001	P		38.00	45.00	27.59	427.48	<50	<0.50	<0.50	<0.50	<0.50	<2.5	1.05		
1/21/2002	--		38.00	45.00	26.75	428.32	--	--	--	--	--	--	--	h	
4/26/2002	P		38.00	45.00	26.50	428.57	<50	<0.50	<0.50	<0.50	<0.50	<2.5	0.47		
10/7/2002	--		38.00	45.00	20.79	434.28	<50	<0.50	<0.50	<0.50	<0.50	1.0	1.4		
05/01/2003	P		38.00	45.00	20.55	434.52	<50	<0.50	<0.50	<0.50	<0.50	1.5	3.2	c	
10/03/2003	P		38.00	45.00	20.58	434.49	<50	<0.50	<0.50	<0.50	<0.50	3.1	3.0	d	
04/06/2004	P	457.40	38.00	45.00	17.52	439.88	<50	<0.50	<0.50	<0.50	<0.50	14	5.1		
10/28/2004	P		38.00	45.00	20.32	437.08	<50	<0.50	<0.50	<0.50	<0.50	29	1.3		
04/13/2005	P		38.00	45.00	16.20	441.20	<50	<0.50	<0.50	<0.50	<0.50	3.7	2.8		
10/27/2005	P		38.00	45.00	21.98	435.42	<50	<0.50	<0.50	<0.50	<0.50	21	1.04		
04/12/2006	--		38.00	45.00	--	--	--	--	--	--	--	--	--	Well inaccessible m	
10/31/2006	--		38.00	45.00	--	--	--	--	--	--	--	--	--		
4/19/2007	P		38.00	45.00	22.38	435.02	<50	<0.50	<0.50	<0.50	<0.50	12	7.11	7.57	
10/16/2007	P		38.00	45.00	37.11	420.29	<50	<0.50	<0.50	<0.50	<0.50	6.6	0.60	7.57	
4/24/2008	P		38.00	45.00	26.10	431.30	<50	<0.50	<0.50	<0.50	<0.50	17	1.83	7.26	
10/15/2008	--		38.00	45.00	43.34	414.06	--	--	--	--	--	--	--		
4/28/2009	P		38.00	45.00	32.85	424.55	<50	<0.50	<0.50	<0.50	<0.50	5.3	5.89	7.23	
11/9/2009	P		38.00	45.00	22.99	434.41	<50	<0.50	<0.50	<0.50	<0.50	12	0.72	7.0	
4/12/2010	P		38.00	45.00	21.14	436.26	<50	<0.50	<0.50	<0.50	<0.50	10	2.03	7.25	
11/4/2010	P		38.00	45.00	20.62	436.78	<50	<0.50	<0.50	<0.50	<0.50	9.9	1.64	6.9	

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			
<b>MW-11 Cont.</b>														
5/18/2011	P	457.40	38.00	45.00	19.17	438.23	<50	<0.50	<0.50	<0.50	<0.50	4.28	--	lw
10/20/2011	P		38.00	45.00	19.58	437.82	<50	<0.50	<0.50	<0.50	<0.50	0.95	7.84	
4/11/2012	P		38.00	45.00	21.58	435.82	<50	<0.50	<0.50	<0.50	<0.50	0.30	7.54	
10/10/2012	P		38.00	45.00	22.02	435.38	<50	<0.50	<0.50	<0.50	<0.50	1.58	7.75	
4/9/2013	--		38.00	45.00	19.83	437.57	--	--	--	--	--	--	--	
4/9/2013	P		38.00	45.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	7.4	7.86	Top
4/9/2013	P		38.00	45.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	4.0	7.45	Middle
4/9/2013	P		38.00	45.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	3.9	7.37	Bottom
<b>MW-12</b>														
3/23/1995	--	455.04	18.00	34.50	15.54	439.50	--	--	--	--	--	--	--	h
5/31/1995	--		18.00	34.50	15.66	439.38	<50	<0.5	<0.5	<0.5	<0.5	--	--	h
8/31/1995	--		18.00	34.50	18.23	436.81	--	--	--	--	--	--	--	h
11/28/1995	--		18.00	34.50	17.53	437.51	<50	<0.5	<0.5	<0.5	<0.5	--	--	h
2/22/1996	--		18.00	34.50	14.45	440.59	--	--	--	--	--	--	--	h
5/23/1996	--		18.00	34.50	14.88	440.16	<50	<0.5	<0.5	<0.5	<0.5	--	--	h
8/8/1996	--		18.00	34.50	17.30	437.74	--	--	--	--	--	--	--	h
11/7/1996	--		18.00	34.50	18.30	436.74	<50	<0.5	<0.5	<0.5	<0.5	--	--	h
3/27/1997	--		18.00	34.50	15.69	439.35	--	--	--	--	--	--	--	h
5/19/1997	--		18.00	34.50	17.41	437.63	<50	<0.5	<0.5	<0.5	<0.5	--	--	h
5/18/1998	--		18.00	34.50	15.21	439.83	<50	<0.5	<0.5	<0.5	<0.5	--	--	m
11/2/1998	--		18.00	34.50	--	--	--	--	--	--	--	--	--	m
6/4/1999	--		18.00	34.50	--	--	--	--	--	--	--	--	--	m
11/11/1999	--		18.00	34.50	--	--	--	--	--	--	--	--	--	m
6/20/2000	--		18.00	34.50	--	--	--	--	--	--	--	--	--	m
8/29/2000	--		18.00	34.50	--	--	--	--	--	--	--	--	--	m
11/29/2000	--		18.00	34.50	--	--	--	--	--	--	--	--	--	m
5/2/2001	--		18.00	34.50	--	--	--	--	--	--	--	--	--	m
8/15/2001	--		18.00	34.50	--	--	--	--	--	--	--	--	--	m
10/5/2001	--		18.00	34.50	--	--	--	--	--	--	--	--	--	m
1/21/2002	--		18.00	34.50	--	--	--	--	--	--	--	--	--	m

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			
MW-12 Cont.														
4/26/2002	-	455.04	18.00	34.50	-	-	-	-	-	-	-	-	-	m
10/7/2002	-		18.00	34.50	-	-	-	-	-	-	-	-	-	m
05/01/2003	-		18.00	34.50	-	-	-	-	-	-	-	-	-	c, m
10/03/2003	-		18.00	34.50	-	-	-	-	-	-	-	-	-	m
04/06/2004	P	457.37	18.00	34.50	18.14	439.23	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	6.4	
10/28/2004	P		18.00	34.50	20.66	436.71	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	6.8	
04/13/2005	P		18.00	34.50	16.25	441.12	<0.50	<0.50	<0.50	0.55	<0.50	1.9	7.5	
10/27/2005	P		18.00	34.50	19.77	437.60	<0.50	<0.50	<0.50	<0.50	<0.50	1.81	7.0	
04/12/2006	P		18.00	34.50	16.08	441.29	<0.50	<0.50	<0.50	<0.50	<0.50	2.6	7.2	
10/31/2006	-		18.00	34.50	-	-	-	-	-	-	-	-	-	
4/19/2007	NP		18.00	34.50	22.34	435.03	<0.50	<0.50	<0.50	<0.50	<0.50	4.66	7.28	f
10/16/2007	-		18.00	34.50	-	-	-	-	-	-	-	-	-	
4/24/2008	-		18.00	34.50	-	-	-	-	-	-	-	-	-	m
10/15/2008	-		18.00	34.50	-	-	-	-	-	-	-	-	-	f
4/28/2009	NP		18.00	34.50	32.21	425.16	<0.50	<0.50	<0.50	<0.50	1.4	7.68	6.63	
11/9/2009	NP		18.00	34.50	23.74	433.63	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	
4/12/2010	NP		18.00	34.50	19.93	437.44	<0.50	<0.50	<0.50	<0.50	<0.50	-	7.18	
11/4/2010	NP		18.00	34.50	21.53	435.84	<0.50	<0.50	<0.50	<0.50	<0.50	0.96	7.0	
5/18/2011	NP		18.00	34.50	18.40	438.97	<0.50	<0.50	<0.50	<0.50	<0.50	2.93	-	
10/20/2011	NP		18.00	34.50	20.25	437.12	<0.50	<0.50	<0.50	<0.50	<0.50	0.87	7.94	
4/11/2012	P		18.00	34.50	22.27	435.10	<0.50	<0.50	<0.50	<0.50	<0.50	1.19	7.17	
10/10/2012	P		18.00	34.50	22.50	434.87	<0.50	<0.50	<0.50	<0.50	<0.50	2.34	7.57	
4/9/2013	-		18.00	34.50	19.92	437.45	-	-	-	-	-	-	-	Top
4/9/2013	P		18.00	34.50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	4.0	7.26	Bottom
4/9/2013	P		18.00	34.50	-	-	<0.50	<0.50	<0.50	<1.0	<0.50	4.1	7.26	
MW-13														
1/21/2002	P	NS	-	-	24.61	-	15,000	160	68	1,700	3,200	0.71	-	
4/26/2002	P		-	-	24.20	-	17,000	98	<100	1,700	3,400	0.6	-	
10/7/2002	-		-	-	20.12	-	14,000	510	<50	2,200	2,300	0.8	-	b
05/01/2003	P		-	-	17.82	-	21,000	230	<50	1,900	2,300	1.9	-	c



Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote	
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
MW-7 Cont.																
10/03/2003	P	454.92	48.00	68.00	19.55	435.37	<50	<1.0	<1.0	<1.0	<1.0	<1.0	49	5.7	7.1	d
04/06/2004	P	457.17	48.00	68.00	16.60	440.57	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.76	0.7	7.0	
10/28/2004	P		48.00	68.00	19.17	438.00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	14	6.7	6.9	
04/13/2005	P		48.00	68.00	14.84	442.33	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	2.3	6.9	
10/27/2005	P		48.00	68.00	17.38	439.79	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	2.16	7.0	
04/12/2006	P		48.00	68.00	14.84	442.33	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	3.0	7.2	
10/31/2006	P		48.00	68.00	18.74	438.43	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	7.55	
4/19/2007	P		48.00	68.00	22.11	435.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.37	7.60	
10/16/2007	P		48.00	68.00	37.23	419.94	140	68	6.8	6.8	<0.50	5.0	24	4.87	8.02	
4/24/2008	P		48.00	68.00	24.47	432.70	<50	<0.50	0.99	0.99	<0.50	<0.50	22	1.96	7.24	
10/15/2008	P		48.00	68.00	43.40	413.77	<50	<0.50	<0.50	<0.50	<0.50	<0.50	8.2	2.31	7.14	
4/28/2009	P		48.00	68.00	32.13	425.04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3.78	6.93	
11/9/2009	P		48.00	68.00	22.15	435.02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	6.8	
4/12/2010	P		48.00	68.00	18.49	438.68	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	7.55	
11/4/2010	P		48.00	68.00	19.90	437.27	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.59	4.15	8.4	
5/18/2011	P		48.00	68.00	16.96	440.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50	3.9	4.45	10.6	
10/20/2011	P		48.00	68.00	18.38	438.79	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.37	9.02	
4/11/2012	P		48.00	68.00	20.66	436.51	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.33	7.50	
10/10/2012	P		48.00	68.00	21.01	436.16	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5.87	8.92	
4/10/2013	--		48.00	68.00	18.71	438.46	--	--	--	--	--	--	--	--	--	
4/10/2013	P		48.00	68.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	7.3	8.30	Top
4/10/2013	P		48.00	68.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	3.0	7.55	Middle
4/10/2013	P		48.00	68.00	--	--	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	3.2	7.51	Bottom
MW-8																
3/23/1995	--	456.97	47.00	67.00	11.55	445.42	--	--	--	--	--	--	--	--	--	e
5/31/1995	--		47.00	67.00	12.37	444.60	--	--	--	--	--	--	--	--	--	e
8/31/1995	--		47.00	67.00	15.68	441.29	--	--	--	--	--	--	--	--	--	e
11/28/1995	--		47.00	67.00	14.15	442.82	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<3	--	--	e
2/22/1996	--		47.00	67.00	10.97	446.00	--	--	--	--	--	--	--	--	--	e
5/23/1996	--		47.00	67.00	11.90	445.07	--	--	--	--	--	--	--	--	--	e

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 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote		
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes				MTBE	
<b>MW-13 Cont.</b>																
10/03/2003	P	NS	-	-	19.91	-	-	19,000	570	55	1,900	2,300	2,400	0.8	6.9	d
04/06/2004	P	457.91	-	-	17.14	440.77	15,000	470	35	35	1,600	1,300	1,800	2.0	6.7	
10/28/2004	P	-	-	-	18.83	439.08	18,000	350	<25	<25	1,900	1,800	1,800	0.8	6.7	
04/13/2005	P	-	-	-	15.23	442.68	9,700	110	<25	<25	860	280	920	0.9	6.9	
10/27/2005	P	-	-	-	18.45	439.46	11,000	120	12	12	1,500	450	580	0.75	6.8	
04/12/2006	P	-	-	-	15.06	442.85	4,700	65	<10	<10	450	69	470	1.2	6.8	
10/31/2006	P	-	-	-	19.06	438.85	15,000	150	<25	<25	1,700	400	710	-	6.87	
4/19/2007	NP	-	-	-	22.21	435.70	14,000	60	<25	<25	1,800	640	330	1.44	7.09	f
10/16/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/24/2008	NP	-	-	-	24.68	433.23	1,400	4.5	1.1	1.1	9.4	15	49	2.78	7.25	k
9/10/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>RMW-13</b>																
4/12/2010	NP	458.03	15.00	35.00	18.50	439.53	63,000	7,800	200	200	1,600	6,400	1,500	2.47	7.21	y
11/4/2010	NP	-	15.00	35.00	18.83	439.20	31,000	4,000	<120	<120	1,700	2,500	390	1.01	7.40	
5/18/2011	NP	-	15.00	35.00	17.43	440.60	26,000	4,700	<50	<50	1,700	2,200	380	2.34	7.3	
10/20/2011	NP	-	15.00	35.00	18.25	439.78	560	1,100	<20	<20	550	620	55	0.84	7.54	x
4/11/2012	P	-	15.00	35.00	20.64	437.39	13,000	3,100	<0.50	<0.50	820	790	280	0.18	7.10	
10/10/2012	P	-	15.00	35.00	21.10	436.93	15,000	6,000	62	62	1,300	670	460	1.09	7.26	
4/10/2013	-	-	15.00	35.00	18.90	439.13	-	-	-	-	-	-	-	-	-	-
4/10/2013	P	-	15.00	35.00	-	-	10,000	4,600	<50	<50	1,300	400	270	2.5	7.34	Top
4/10/2013	P	-	15.00	35.00	-	-	12,000	5,100	53	53	1,300	460	280	2.7	7.86	Bottom
<b>VW-1</b>																
8/29/2000	P	NS	24.00	45.00	17.40	-	2,360	27.6	11.6	11.6	26.3	33.2	110	4.47	-	
11/29/2000	P	-	24.00	45.00	18.75	-	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<2.50	0.46	-	
5/2/2001	-	-	24.00	45.00	21.59	-	-	-	-	-	-	-	-	-	-	-
8/15/2001	P	-	24.00	45.00	24.62	-	1,200	6.3	4.3	4.3	1.7	1.3	20/17	-	-	s
8/15/2001	-	-	24.00	45.00	24.62	-	1,200	6.2	4.1	4.1	1.8	1.1	20/17	-	-	q
10/5/2001	P	-	24.00	45.00	24.75	-	1,500	1.40	55	55	28	82	610/660	0.71	-	s
1/21/2002	P	-	24.00	45.00	24.59	-	6,700	810	350	350	270	1,100	2,600/3,400	0.69	-	s

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
<b>VW-1 Cont.</b>															
1/21/2002	--	NS	24.00	45.00	24.59	--	8,000	770	320	96	1,100	2,500/3,200	--	--	q, s
4/26/2002	P		24.00	45.00	24.27	--	370	26	2.1	6.6	1.7	48	0.5	--	
4/26/2002	--		24.00	45.00	24.27	--	350	24	1.6	5.9	1.6	45	--	--	q
10/7/2002	P		24.00	45.00	19.20	--	410	25	2.2	8	4.3	88	1.7	--	b
05/01/2003	P		24.00	45.00	16.60	--	240	6.4	<0.50	3.3	1.3	36	1.7	--	c
10/03/2003	P		24.00	45.00	18.82	--	180	1.5	<0.50	0.69	<0.50	12	1.1	7.3	d
04/06/2004	P	457.08	24.00	45.00	15.78	441.30	300	2.2	<0.50	3.0	1.3	13	2.4	7.2	
10/28/2004	P		24.00	45.00	18.33	438.75	210	<0.50	<0.50	0.67	<0.50	<0.50	1.2	7.1	
04/13/2005	P		24.00	45.00	14.02	443.06	740	1.8	<0.50	3.6	1.1	9.6	2.4	7.1	
10/27/2005	P		24.00	45.00	17.65	439.43	1,500	78	73	36	81	13	1.64	7.3	
04/12/2006	P		24.00	45.00	13.89	443.19	230	1.4	<0.50	2.2	0.76	1.6	1.4	7.3	
10/31/2006	P		24.00	45.00	17.87	439.21	80	<0.50	<0.50	2.3	0.82	<0.50	--	7.76	
4/19/2007	P		24.00	45.00	21.09	435.99	250	1.6	<0.50	4.7	1.3	3.0	1.15	7.66	
10/16/2007	NP		24.00	45.00	37.10	419.98	12,000	2,300	1,900	860	2,800	150	2.65	7.61	
4/24/2008	NP		24.00	45.00	24.40	432.68	<50	<0.50	<0.50	<0.50	<0.50	4.5	4.95	7.47	
10/15/2008	--		24.00	45.00	43.07	414.01	--	--	--	--	--	--	--	--	
4/28/2009	NP		24.00	45.00	31.06	426.02	3,500	140	2.8	25	4.0	19	6.38	7.02	
11/9/2009	P		24.00	45.00	21.12	435.96	230	1.8	<0.50	<0.50	<0.50	1.1	2.28	6.95	x (GRO)
4/12/2010	P		24.00	45.00	17.27	439.81	410	0.80	<0.50	<0.50	<0.50	<0.50	3.38	7.21	
11/4/2010	P		24.00	45.00	18.65	438.43	160	<0.50	<0.50	<0.50	<0.50	<0.50	1.15	6.9	x (GRO)
5/18/2011	P		24.00	45.00	15.77	441.31	69	<0.50	<0.50	<0.50	<0.50	<0.50	0.71	7.5	x (GRO)
10/20/2011	P		24.00	45.00	17.44	439.64	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.77	7.89	
4/11/2012	P		24.00	45.00	19.74	437.34	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.02	7.50	
10/10/2012	P		24.00	45.00	19.90	437.18	<50	<0.50	<0.50	<0.50	<1.0	<0.50	1.39	7.82	
4/10/2013	--		24.00	45.00	17.54	439.54	--	--	--	--	--	--	--	--	
4/10/2013	P		24.00	45.00	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	3.1	7.60	Top
4/10/2013	P		24.00	45.00	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	3.2	7.59	Middle
4/10/2013	P		24.00	45.00	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	3.0	7.63	Bottom
<b>VW-2</b>															
8/29/2000	--	NS	28.00	49.50	--	--	--	--	--	--	--	--	--	--	g

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 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			
VW-2 Cont.														
11/29/2000	--	NS	28.00	49.50	--	--	--	--	--	--	--	--	--	g
5/2/2001	--		28.00	49.50	--	--	--	--	--	--	--	--	--	g
10/5/2001	--		28.00	49.50	--	--	--	--	--	--	--	--	--	g
1/21/2002	--		28.00	49.50	--	--	--	--	--	--	--	--	--	g
4/26/2002	--		28.00	49.50	--	--	--	--	--	--	--	--	--	m
10/7/2002	--		28.00	49.50	--	--	--	--	--	--	--	--	--	g
05/01/2003	--		28.00	49.50	--	--	--	--	--	--	--	--	--	C, g
10/03/2003	--		28.00	49.50	--	--	--	--	--	--	--	--	--	Well inaccessible g
04/06/2004	--	458.64	28.00	49.50	16.96	441.68	--	--	--	--	--	--	--	
10/28/2004	--		28.00	49.50	19.35	439.29	--	--	--	--	--	--	--	
04/13/2005	--		28.00	49.50	15.51	443.13	--	--	--	--	--	--	--	
10/27/2005	--		28.00	49.50	18.50	440.14	--	--	--	--	--	--	--	
04/12/2006	--		28.00	49.50	14.92	443.72	--	--	--	--	--	--	--	
10/31/2006	--		28.00	49.50	19.01	439.63	--	--	--	--	--	--	--	
4/19/2007	--		28.00	49.50	22.52	436.12	--	--	--	--	--	--	--	
10/16/2007	--		28.00	49.50	38.58	420.06	--	--	--	--	--	--	--	
4/24/2008	--		28.00	49.50	24.91	433.73	--	--	--	--	--	--	--	
10/15/2008	--		28.00	49.50	43.31	415.33	--	--	--	--	--	--	--	
4/28/2009	--		28.00	49.50	32.56	426.08	--	--	--	--	--	--	--	
11/9/2009	--		28.00	49.50	22.38	436.26	--	--	--	--	--	--	--	
4/12/2010	--		28.00	49.50	18.50	440.14	--	--	--	--	--	--	--	
11/4/2010	--		28.00	49.50	19.87	438.77	--	--	--	--	--	--	--	
5/18/2011	--		28.00	49.50	16.94	441.70	--	--	--	--	--	--	--	
10/20/2011	--		28.00	49.50	18.54	440.10	--	--	--	--	--	--	--	
4/1/2012	--		28.00	49.50	20.97	437.67	--	--	--	--	--	--	--	
10/10/2012	--		28.00	49.50	21.07	437.57	--	--	--	--	--	--	--	
4/10/2013	P		28.00	49.50	18.69	439.95	--	--	--	--	--	--	--	Top
4/10/2013	P		28.00	49.50	--	--	<50	<0.50	<0.50	<1.0	<0.50	3.3	7.45	Middle
4/10/2013	P		28.00	49.50	--	--	94	<0.50	<0.50	<1.0	<0.50	3.0	7.56	Bottom
4/10/2013	P		28.00	49.50	--	--	87	<0.50	<0.50	<1.0	<0.50	3.4	7.54	

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote	
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes				MTBE
VW-3															
8/29/2000	P	NS	15.50	24.00	17.93	--		25,400	3,540	10,600	1,280	43,000	44,700	--	
11/29/2000	P		15.50	24.00	19.75	--		54,200	9,450	1,870	2,350	9,400	12,300/15,100	0.47	s
5/2/2001	--		15.50	24.00	--	--		--	--	--	--	--	--	--	k
VW-4															
8/29/2000	--	NS	17.00	30.00	--	--		--	--	--	--	--	--	--	B
11/29/2000	--		17.00	30.00	19.45	--		36,100	3,700	206	1,850	7,890	6,430/8,460	--	q, s
11/29/2000	P		17.00	30.00	19.45	--		37,500	4,510	206	2,100	9,030	6,770/7,880	0.42	s
5/2/2001	--		17.00	30.00	21.66	--		--	--	--	--	--	--	--	
8/15/2001	--		17.00	30.00	--	--		--	--	--	--	--	--	--	
10/5/2001	--		17.00	30.00	--	--		--	--	--	--	--	--	--	
1/21/2002	--		17.00	30.00	--	--		--	--	--	--	--	--	--	f
4/26/2002	--		17.00	30.00	--	--		--	--	--	--	--	--	--	f
10/7/2002	--		17.00	30.00	19.25	--		--	--	--	--	--	--	--	f
05/01/2003	--		17.00	30.00	17.29	--		--	--	--	--	--	--	--	c
10/03/2003	P		17.00	30.00	19.10	--		48,000	3,300	1,700	3,600	21,000	1,600	10.5	d, n
04/06/2004	--	456.99	17.00	30.00	18.05	438.94		--	--	--	--	--	--	--	
10/28/2004	--		17.00	30.00	18.71	438.28		--	--	--	--	--	--	--	
04/13/2005	--		17.00	30.00	14.62	442.37		--	--	--	--	--	--	--	
10/27/2005	--		17.00	30.00	18.00	438.99		--	--	--	--	--	--	--	
04/12/2006	--		17.00	30.00	14.42	442.57		--	--	--	--	--	--	--	
10/31/2006	--		17.00	30.00	18.30	438.69		--	--	--	--	--	--	--	
4/19/2007	--		17.00	30.00	20.91	436.08		--	--	--	--	--	--	--	f
10/16/2007	--		17.00	30.00	--	--		--	--	--	--	--	--	--	
4/24/2008	--		17.00	30.00	23.40	433.59		--	--	--	--	--	--	--	
10/15/2008	--		17.00	30.00	--	--		--	--	--	--	--	--	--	f
4/28/2009	--		17.00	30.00	--	--		--	--	--	--	--	--	--	f
11/9/2009	--		17.00	30.00	21.65	435.34		--	--	--	--	--	--	--	
4/12/2010	--		17.00	30.00	17.80	439.19		--	--	--	--	--	--	--	
11/4/2010	--		17.00	30.00	19.13	437.86		--	--	--	--	--	--	--	
5/18/2011	--		17.00	30.00	16.67	440.32		--	--	--	--	--	--	--	

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote	
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
VW-4 Cont.																
10/20/2011	--	456.99	17.00	30.00	18.25	438.74	--	--	--	--	--	--	--	--	--	--
4/11/2012	--		17.00	30.00	20.08	436.91	--	--	--	--	--	--	--	--	--	--
10/10/2012	--		17.00	30.00	20.52	436.47	--	--	--	--	--	--	--	--	--	--
4/9/2013	P		17.00	30.00	18.26	438.73	5,900	1,600	44	510	60	59	2.5	7.17		

Symbols & Abbreviations:

- = Not analyzed/applicable/measured/available  
< = Not detected at or above specified laboratory reporting limit  
DO = Dissolved oxygen  
DTW = Depth to water in ft bgs  
GRO = Gasoline range organics  
GWE = Groundwater elevation measured in ft  
mg/L = Milligrams per liter  
MTBE = Methyl tert-butyl ether  
NP = Well not purged prior to sampling  
P = Well purged prior to sampling  
TOC = Top of casing measured in ft  
TPH-g = Total petroleum hydrocarbons as gasoline  
µg/L = Micrograms per liter

Footnotes:

a = Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel  
b = Chromatogram Pattern: C6-C10  
c = TPH-g, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and MTBE analyzed using EPA Method 8260B beginning second quarter 2003 (05/01/03)  
d = This sample was analyzed 3 days after the EPA recommended holding time. The results may still be useful for their intended purpose  
e = Well sampled annually in the fourth quarter  
f = Well dry  
g = Well inaccessible  
h = Well sampled semi-annually in second and fourth quarters  
k = Well abandoned  
m = Unable to locate well  
n = Sheen in well  
q = Duplicate sample  
r = Well removed from sampling schedule  
s = Original sample analyzed by 8021B and confirmation by 8260  
t = Bolts securing well box cover stripped at head. Unable to sample well  
u = Hydrocarbon result partly due to individ. peak(s) in quant. range  
v = pH measurement is believed to be erroneous  
w = Sample > 4x spike concentration  
x = Quantitation of unknown hydrocarbon(s) in sample based on gasoline  
y = Replacement well for abandoned wells MW-6 and MW-13 installed on 3/11/2010, and surveyed on 4/23/2010  
z = pH probe malfunctioned, pH measurement not collected

Notes:

Beginning in the second quarter 2003 (05/01/03) TPH-g and BTEX were analyzed using EPA Method 8260B, and MTBE was analyzed by EPA Method 8260B beginning in fourth quarter 2002. Prior to 05/01/03, TPH-g was analyzed by EPA Method 8015; BTEX by EPA Method 8021B (EPA method 8020 before 11/11/99); and MTBE by EPA Method 8021B. (EPA method 8020 before 11/11/99). Any MTBE detection by 8021B was confirmed by EPA Method 8260 beginning third quarter 2000 (08-29-00 results).

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

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

Wells were resurveyed to NAVD '88 datum by URS Corporation on March 8, 2004.

Values for DO and pH were obtained through field measurements. DO measured by lab in 2Q 2013.

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

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

During the Second Quarter 2013 groundwater monitoring event wells were purged with a low-flow peristaltic pump and sampled from multiple screen intervals, consisting of the top, middle and/or bottom of the well screen, on a one-time basis for comparison purposes.



Table 3. Summary of Fuel Additives Analytical Data  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote		
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB					
<b>MW-1</b>													
11/28/1995	-	-	<3	-	-	-	-	-	-	-	-	-	
11/7/1996	-	-	<3	-	-	-	-	-	-	-	-	-	
11/2/1998	-	-	<3	-	-	-	-	-	-	-	-	-	
11/11/1999	-	-	<3	-	-	-	-	-	-	-	-	-	
11/29/2000	-	-	<2.50	-	-	-	-	-	-	-	-	-	
10/5/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-	
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>MW-2</b>													
11/28/1995	-	-	<3	-	-	-	-	-	-	-	-	-	
11/7/1996	-	-	5	-	-	-	-	-	-	-	-	-	
11/2/1998	-	-	<3	-	-	-	-	-	-	-	-	-	
11/11/1999	-	-	<3	-	-	-	-	-	-	-	-	-	
11/29/2000	-	-	<2.50	-	-	-	-	-	-	-	-	-	
10/5/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-	
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/9/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Top
4/9/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Middle
4/9/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Bottom
<b>MW-3</b>													
11/28/1995	-	-	<3	-	-	-	-	-	-	-	-	-	
11/7/1996	-	-	<3	-	-	-	-	-	-	-	-	-	
11/2/1998	-	-	1,700	-	-	-	-	-	-	-	-	-	
11/11/1999	-	-	<3	-	-	-	-	-	-	-	-	-	
11/29/2000	-	-	<2.50	-	-	-	-	-	-	-	-	-	
10/5/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-	
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/03/2003	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<1.0	<1.0	<0.50	<0.50	a
10/28/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/31/2006	<300	<20	22	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>MW-4</b>													

Table 3. Summary of Fuel Additives Analytical Data  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote		
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB					
MW-4 Cont.													
8/31/1995	-	-	<3	-	-	-	-	-	-	-	-	-	
11/28/1995	-	-	<3	-	-	-	-	-	-	-	-	-	
2/22/1996	-	-	<3	-	-	-	-	-	-	-	-	-	
5/23/1996	-	-	<3	-	-	-	-	-	-	-	-	-	
8/8/1996	-	-	<3	-	-	-	-	-	-	-	-	-	
11/7/1996	-	-	<3	-	-	-	-	-	-	-	-	-	
3/27/1997	-	-	<3	-	-	-	-	-	-	-	-	-	
5/19/1997	-	-	<3	-	-	-	-	-	-	-	-	-	
5/18/1998	-	-	64	-	-	-	-	-	-	-	-	-	
11/2/1998	-	-	96	-	-	-	-	-	-	-	-	-	
6/4/1999	-	-	38	-	-	-	-	-	-	-	-	-	
11/11/1999	-	-	10	-	-	-	-	-	-	-	-	-	
6/20/2000	-	-	62.3	-	-	-	-	-	-	-	-	-	
6/20/2000	-	-	82.4	-	-	-	-	-	-	-	-	-	
8/29/2000	-	-	47.9	-	-	-	-	-	-	-	-	-	
11/29/2000	-	-	9.88/10.4	-	-	-	-	-	-	-	-	-	
5/2/2001	-	-	59.4/68.4	-	-	-	-	-	-	-	-	-	
5/2/2001	-	-	61.1/70.9	-	-	-	-	-	-	-	-	-	
4/26/2002	-	-	150	-	-	-	-	-	-	-	-	-	
10/7/2002	<400	<200	260	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
05/01/2003	<100	25	86	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/03/2003	<100	<20	22	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
04/06/2004	<100	<20	17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/28/2004	<100	<20	4.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
04/13/2005	<100	<20	2.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/27/2005	<100	<20	22	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
04/12/2006	<300	<20	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
10/31/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/19/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.66	<0.50	<0.50	<0.50	
11/9/2009	<300	12	3.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/12/2010	<300	<10	2.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/4/2010	<300	<10	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 3. Summary of Fuel Additives Analytical Data  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote	
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB				
<b>MW-4 Cont.</b>												
5/18/2011	<300	<10	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/20/2011	<300	<10	0.59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/11/2012	<300	<10	0.59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/10/2012	<150	<10	0.51	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/9/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>MW-5</b>												
11/28/1995	-	-	<5	-	-	-	-	-	-	-	-	-
5/23/1996	-	-	<50	-	-	-	-	-	-	-	-	-
11/7/1996	-	-	<80	-	-	-	-	-	-	-	-	-
5/19/1997	-	-	<40	-	-	-	-	-	-	-	-	-
5/18/1998	-	-	4	-	-	-	-	-	-	-	-	-
11/2/1998	-	-	100	-	-	-	-	-	-	-	-	-
6/4/1999	-	-	1,400	-	-	-	-	-	-	-	-	-
11/11/1999	-	-	72	-	-	-	-	-	-	-	-	-
6/20/2000	-	-	<50.0	-	-	-	-	-	-	-	-	-
8/29/2000	-	-	517	-	-	-	-	-	-	-	-	-
11/29/2000	-	-	671/<20.0	-	-	-	-	-	-	-	-	-
<b>MW-6</b>												
8/31/1995	-	-	<3	-	-	-	-	-	-	-	-	-
11/28/1995	-	-	<3	-	-	-	-	-	-	-	-	-
2/22/1996	-	-	<3	-	-	-	-	-	-	-	-	-
5/23/1996	-	-	<3	-	-	-	-	-	-	-	-	-
8/8/1996	-	-	<3	-	-	-	-	-	-	-	-	-
11/7/1996	-	-	<3	-	-	-	-	-	-	-	-	-
3/27/1997	-	-	4	-	-	-	-	-	-	-	-	-
5/19/1997	-	-	<3	-	-	-	-	-	-	-	-	-
5/18/1998	-	-	<3	-	-	-	-	-	-	-	-	-
11/2/1998	-	-	3	-	-	-	-	-	-	-	-	-
6/4/1999	-	-	33	-	-	-	-	-	-	-	-	-
11/11/1999	-	-	<3	-	-	-	-	-	-	-	-	-

Table 3. Summary of Fuel Additives Analytical Data  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote	
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB				
<b>MW-6 Cont.</b>												
6/20/2000	-	-	17.3	-	-	-	-	-	-	-	-	-
8/29/2000	-	-	<2.50	-	-	-	-	-	-	-	-	-
8/29/2000	-	-	<2.50	-	-	-	-	-	-	-	-	-
11/29/2000	-	-	<2.50	-	-	-	-	-	-	-	-	-
5/2/2001	-	-	1,810/2,310	-	-	-	-	-	-	-	-	-
8/15/2001	-	-	21/25	-	-	-	-	-	-	-	-	-
10/5/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-
1/21/2002	-	-	<5.0	-	-	-	-	-	-	-	-	-
4/26/2002	-	-	17	-	-	-	-	-	-	-	-	-
10/7/2002	<40	<20	8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
05/01/2003	<100	<20	12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
10/03/2003	<500	<100	120	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
04/06/2004	<5,000	<1,000	1,700	<25	<25	<25	<25	<25	<25	<25	<25	<25
10/28/2004	<5,000	<1,000	3,100	<25	<25	<25	<25	<25	<25	<25	<25	<25
04/13/2005	<10,000	<2,000	3,900	<50	<50	<50	<50	<50	<50	<50	<50	<50
10/27/2005	<10,000	<2,000	2,900	<50	<50	<50	<50	<50	<50	<50	<50	<50
04/12/2006	<30,000	<2,000	3,400	<50	<50	<50	<50	<50	<50	<50	<50	<50
10/31/2006	<15,000	<1,000	3,400	<25	<25	<25	<25	<25	<25	<25	<25	<25
4/19/2007	<15,000	<1,000	2,200	<25	<25	<25	<25	<25	<25	<25	<25	<25
10/16/2007	<15,000	<1,000	2,600	<25	<25	<25	<25	<25	<25	<25	<25	<25
4/24/2008	<6,000	1,500	4,200	<10	<10	<10	<10	<10	<10	<10	<10	<10
<b>MW-7</b>												
8/31/1995	-	-	<3	-	-	-	-	-	-	-	-	-
11/28/1995	-	-	<3	-	-	-	-	-	-	-	-	-
2/22/1996	-	-	<3	-	-	-	-	-	-	-	-	-
5/23/1996	-	-	<3	-	-	-	-	-	-	-	-	-
11/7/1996	-	-	<3	-	-	-	-	-	-	-	-	-
3/27/1997	-	-	<3	-	-	-	-	-	-	-	-	-
5/19/1997	-	-	<3	-	-	-	-	-	-	-	-	-
5/18/1998	-	-	<3	-	-	-	-	-	-	-	-	-
11/2/1998	-	-	4	-	-	-	-	-	-	-	-	-

Table 3. Summary of Fuel Additives Analytical Data  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote		
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB					
MW-7 Cont.													
6/4/1999	-	-	<3	-	-	-	-	-	-	-	-	-	-
11/11/1999	-	-	<3	-	-	-	-	-	-	-	-	-	-
6/20/2000	-	-	<2.50	-	-	-	-	-	-	-	-	-	-
8/29/2000	-	-	<2.50	-	-	-	-	-	-	-	-	-	-
11/29/2000	-	-	<2.50	-	-	-	-	-	-	-	-	-	-
5/2/2001	-	-	<2.50/2.66	-	-	-	-	-	-	-	-	-	-
8/15/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-	-
10/5/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-	-
1/21/2002	-	-	15/21	-	-	-	-	-	-	-	-	-	-
4/26/2002	-	-	18	-	-	-	-	-	-	-	-	-	-
10/7/2002	<40	<20	41	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
05/01/2003	<100	<20	43	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
10/03/2003	<200	<40	49	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<1.0	a
04/06/2004	<100	<20	0.76	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
10/28/2004	<100	<20	14	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
04/13/2005	<100	<20	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
10/27/2005	<100	<20	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
04/12/2006	<300	<20	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
10/31/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4/19/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
10/16/2007	<300	<20	24	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4/24/2008	<300	<10	22	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
10/15/2008	<300	<10	8.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4/28/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
11/9/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4/12/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
11/4/2010	<300	<10	0.59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
5/18/2011	<300	<10	3.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
10/20/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4/11/2012	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
10/10/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4/10/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Top

Table 3. Summary of Fuel Additives Analytical Data  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote	
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB				
<b>MW-7 Cont.</b>												
4/10/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Middle
4/10/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Bottom
<b>MW-8</b>												
11/28/1995	-	-	<3	-	-	-	-	-	-	-	-	-
11/7/1996	-	-	<3	-	-	-	-	-	-	-	-	-
11/2/1998	-	-	<3	-	-	-	-	-	-	-	-	-
11/11/1999	-	-	<3	-	-	-	-	-	-	-	-	-
11/29/2000	-	-	<2.50	-	-	-	-	-	-	-	-	-
10/5/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
<b>MW-9</b>												
11/28/1995	-	-	<3	-	-	-	-	-	-	-	-	-
11/7/1996	-	-	<3	-	-	-	-	-	-	-	-	-
6/4/1999	-	-	<3	-	-	-	-	-	-	-	-	-
11/11/1999	-	-	<3	-	-	-	-	-	-	-	-	-
11/29/2000	-	-	<2.50	-	-	-	-	-	-	-	-	-
10/5/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-
10/5/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
10/03/2003	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	a
10/28/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
10/27/2005	<100	<20	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
10/31/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
10/16/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
10/15/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
11/9/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
11/4/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
10/20/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
4/11/2012	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
10/10/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 3. Summary of Fuel Additives Analytical Data  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote	
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB				
<b>MW-9 Cont.</b>												
4/10/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Top
4/10/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Middle
4/10/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Bottom
<b>MW-10</b>												
11/28/1995	-	-	<3	-	-	-	-	-	-	-	-	-
11/7/1996	-	-	<3	-	-	-	-	-	-	-	-	-
11/2/1998	-	-	<3	-	-	-	-	-	-	-	-	-
11/11/1999	-	-	<3	-	-	-	-	-	-	-	-	-
11/29/2000	-	-	<2.50	-	-	-	-	-	-	-	-	-
10/5/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-
10/7/2002	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
10/03/2003	<100	<20	<0.50	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
10/28/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
10/27/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
10/31/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
10/16/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
<b>MW-11</b>												
11/28/1995	-	-	<3	-	-	-	-	-	-	-	-	-
5/23/1996	-	-	<3	-	-	-	-	-	-	-	-	-
11/7/1996	-	-	<3	-	-	-	-	-	-	-	-	-
5/19/1997	-	-	<3	-	-	-	-	-	-	-	-	-
5/18/1998	-	-	<3	-	-	-	-	-	-	-	-	-
11/2/1998	-	-	<3	-	-	-	-	-	-	-	-	-
6/4/1999	-	-	<3	-	-	-	-	-	-	-	-	-
11/11/1999	-	-	<3	-	-	-	-	-	-	-	-	-
6/20/2000	-	-	<2.50	-	-	-	-	-	-	-	-	-
11/29/2000	-	-	<2.50	-	-	-	-	-	-	-	-	-
5/2/2001	-	-	<2.50	-	-	-	-	-	-	-	-	-
10/5/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-
4/26/2002	-	-	<2.5	-	-	-	-	-	-	-	-	-

Table 3. Summary of Fuel Additives Analytical Data  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote		
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB					
<b>MW-11 Cont.</b>													
10/7/2002	<40	<20	1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
05/01/2003	<100	<20	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
10/03/2003	<100	<20	3.1	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	a	
04/06/2004	<100	<20	14	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
10/28/2004	<100	<20	29	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
04/13/2005	<100	<20	3.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
10/27/2005	<100	<20	21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
04/12/2006	-	-	-	-	-	-	-	-	-	-	-	Well inaccessible	
4/19/2007	<300	<20	12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
10/16/2007	<300	<20	6.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
4/24/2008	<300	<10	17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
4/28/2009	<300	<10	5.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	d	
11/9/2009	<300	<10	12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
4/12/2010	<300	<10	10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
11/4/2010	<300	<10	9.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
5/18/2011	<300	<10	7.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
10/20/2011	<300	<10	6.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
4/11/2012	<300	<10	5.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
10/10/2012	<150	<10	4.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
4/9/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Top	
4/9/2013	<150	<10	5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Middle	
4/9/2013	<150	<10	6.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Bottom	
<b>MW-12</b>													
11/28/1995	-	-	<3	-	-	-	-	-	-	-	-	-	
5/23/1996	-	-	<3	-	-	-	-	-	-	-	-	-	
11/7/1996	-	-	<3	-	-	-	-	-	-	-	-	-	
5/19/1997	-	-	<3	-	-	-	-	-	-	-	-	-	
5/18/1998	-	-	<3	-	-	-	-	-	-	-	-	-	
04/06/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
10/28/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
04/13/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		



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Well ID and Date Monitored	Concentrations in µg/L										Footnote			
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB						
<b>MW-12 Cont.</b>														
10/27/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
04/12/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b	
4/19/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
4/28/2009	<300	<10	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	d	
11/9/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
4/12/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
11/4/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
5/18/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
10/20/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
4/11/2012	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
10/10/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
4/9/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Top	
4/9/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Bottom	
<b>MW-13</b>														
1/21/2002	-	-	4,900/5,200	-	-	-	-	-	-	-	-	-	-	
4/26/2002	-	-	1,600	-	-	-	-	-	-	-	-	-	-	
10/7/2002	<4,000	<2,000	2,800	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
05/01/2003	<10,000	<2,000	1,600	<50	<50	<100	<100	<100	<100	<100	<100	<100	<100	
10/03/2003	<10,000	<2,000	2,400	<100	<100	<25	<25	<25	<25	<25	<25	<25	<25	a
04/06/2004	<5,000	<1,000	1,800	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
10/28/2004	<5,000	<1,000	1,800	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
04/13/2005	<5,000	<1,000	920	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
10/27/2005	<2,000	<400	580	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
04/12/2006	<6,000	<400	470	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	b
10/31/2006	<15,000	<1,000	710	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	b
4/19/2007	<15,000	<1,000	330	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	
4/24/2008	<300	14	49	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
<b>RMW-13</b>														
4/12/2010	<75,000	<2,500	1,500	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	
11/4/2010	<75,000	<2,500	390	<120	<120	<120	<120	<120	<120	<120	130	<120	<120	

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 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB			
RMW-13 Cont.											
5/18/2011	<30,000	<1,000	380	<50	<50	<50	<50	<50	<50	<50	
10/20/2011	<12,000	<400	55	<20	<20	<20	<20	<20	<20	<20	
4/11/2012	<30,000	<1,000	280	<50	<50	<50	<50	<50	<50	<50	
10/10/2012	<15,000	<1,000	460	<50	<50	<50	<50	<50	<50	<50	
4/10/2013	<15,000	<1,000	270	<50	<50	<50	<50	<50	<50	<50	Top
4/10/2013	<15,000	<1,000	280	<50	<50	<50	<50	<50	<50	<50	Bottom
VW-1											
8/29/2000	-	-	110	-	-	-	-	-	-	-	
11/29/2000	-	-	<2.50	-	-	-	-	-	-	-	
8/15/2001	-	-	20/17	-	-	-	-	-	-	-	
8/15/2001	-	-	20/17	-	-	-	-	-	-	-	
10/5/2001	-	-	610/660	-	-	-	-	-	-	-	
1/21/2002	-	-	2,600/3,400	-	-	-	-	-	-	-	
1/21/2002	-	-	2,500/3,200	-	-	-	-	-	-	-	
4/26/2002	-	-	48	-	-	-	-	-	-	-	
4/26/2002	-	-	45	-	-	-	-	-	-	-	
10/7/2002	<80	<40	88	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
05/01/2003	<100	<20	36	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/03/2003	<100	<20	12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	a
04/06/2004	<100	<20	13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/28/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
04/13/2005	<100	<20	9.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/27/2005	<100	<20	13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
04/12/2006	<300	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
10/31/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
4/19/2007	<300	<20	3.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/16/2007	<15,000	<1,000	150	<25	<25	<25	<25	<25	<25	<25	b
4/24/2008	<300	<10	4.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/28/2009	<300	<10	19	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	d
11/9/2009	<300	<10	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/12/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 3. Summary of Fuel Additives Analytical Data  
 ARCO Service Station #6113, 785 East Stanley Blvd., Livermore, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote	
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB				
<b>VW-1 Cont.</b>												
11/4/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
5/18/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/20/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/11/2012	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
10/10/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/10/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Top
4/10/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Middle
4/10/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Bottom
<b>VW-2</b>												
10/03/2003	-	-	-	-	-	-	-	-	-	-	-	Well inaccessible
4/10/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Top
4/10/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Middle
4/10/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	Bottom
<b>VW-3</b>												
8/29/2000	-	-	44,700	-	-	-	-	-	-	-	-	
11/29/2000	-	-	12,300/15,100	-	-	-	-	-	-	-	-	
<b>VW-4</b>												
11/29/2000	-	-	6,430/8,460	-	-	-	-	-	-	-	-	
11/29/2000	-	-	6,770/7,880	-	-	-	-	-	-	-	-	
10/03/2003	<100,000	<20,000	1,600	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<500	<500	a
4/9/2013	<6,000	<400	59	<20	<20	<20	<20	<20	<20	<20	<20	

**Symbols & Abbreviations:**

-- = Not analyzed/applicable/measured/available  
< = Not detected at or above specified laboratory reporting limit  
1,2-DCA = 1,2-Dichloroethane  
DIPE = Diisopropyl ether  
EDB = 1,2-Dibromoethane  
ETBE = Ethyl tert-butyl ether  
MTBE = Methyl tert-butyl ether  
TAME = tert-Amyl methyl ether  
TBA = tert-Butyl alcohol  
µg/L = Micrograms per Liter

**Footnotes:**

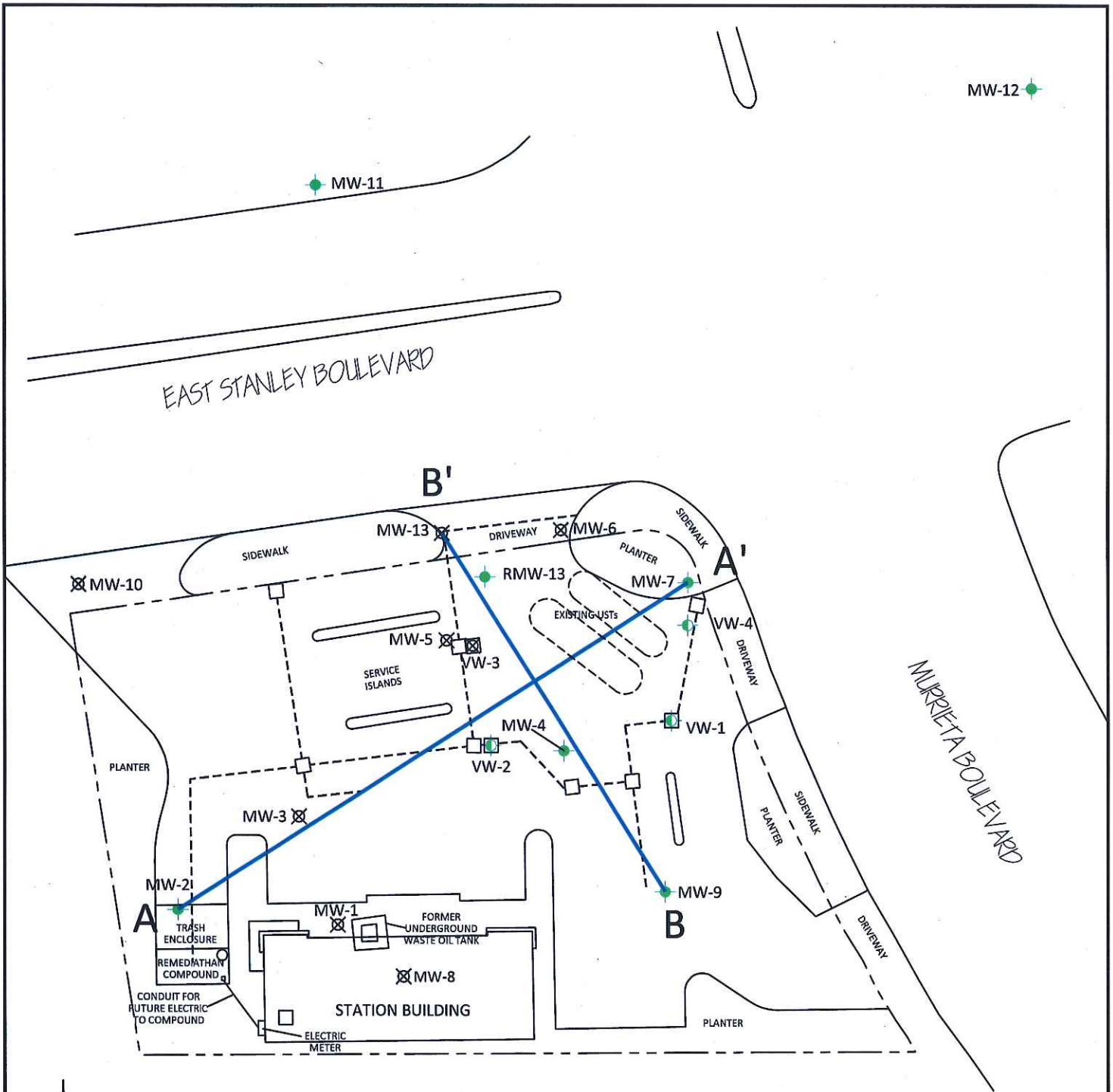
a = This sample was analyzed 3 days after the EPA recommended holding time. The results may still be useful for their intended purpose  
b = Calibration verification for ethanol was within method limits but outside contract limits  
c = Sample >4x spike concentration  
d = Calibrtn. verif. recov. Below method CL for TAME

**Notes:**

All volatile organic compounds analyzed using EPA Method 8260B.

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

During the Second Quarter 2013 groundwater monitoring event wells were purged with a low-flow peristaltic pump and sampled from multiple screen intervals, consisting of the top, middle and/or bottom of the well screen, on a one-time basis for comparison purposes.



MW-12

MW-11

EAST STANLEY BOULEVARD

MURRIETA BOULEVARD

B'

MW-13

MW-6

MW-7

MW-10

RMW-13

MW-5

VW-4

SERVICE ISLANDS

VW-3

MW-4

VW-1

PLANTER

MW-3

VW-2

MW-21

MW-9

TRASH ENCLOSURE

REMEDIATION COMPOUND

MW-1

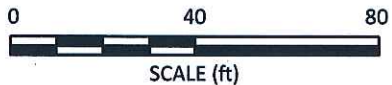
FORMER UNDERGROUND WASTE OIL TANK

MW-8

STATION BUILDING

ELECTRIC METER

PLANTER



LEGEND	
	Monitor Well Location
	Vapor Extraction Well Location
	Abandoned Well Location
	Piping Trench
	Cross Section Location

**BROADBENT**  
1370 Ridgewood Dr., Suite 5  
Chico, California 95973  
Project No.: 06-82-637 Date: 6/7/2013

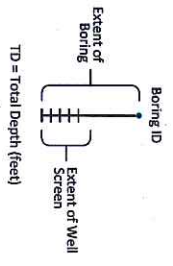
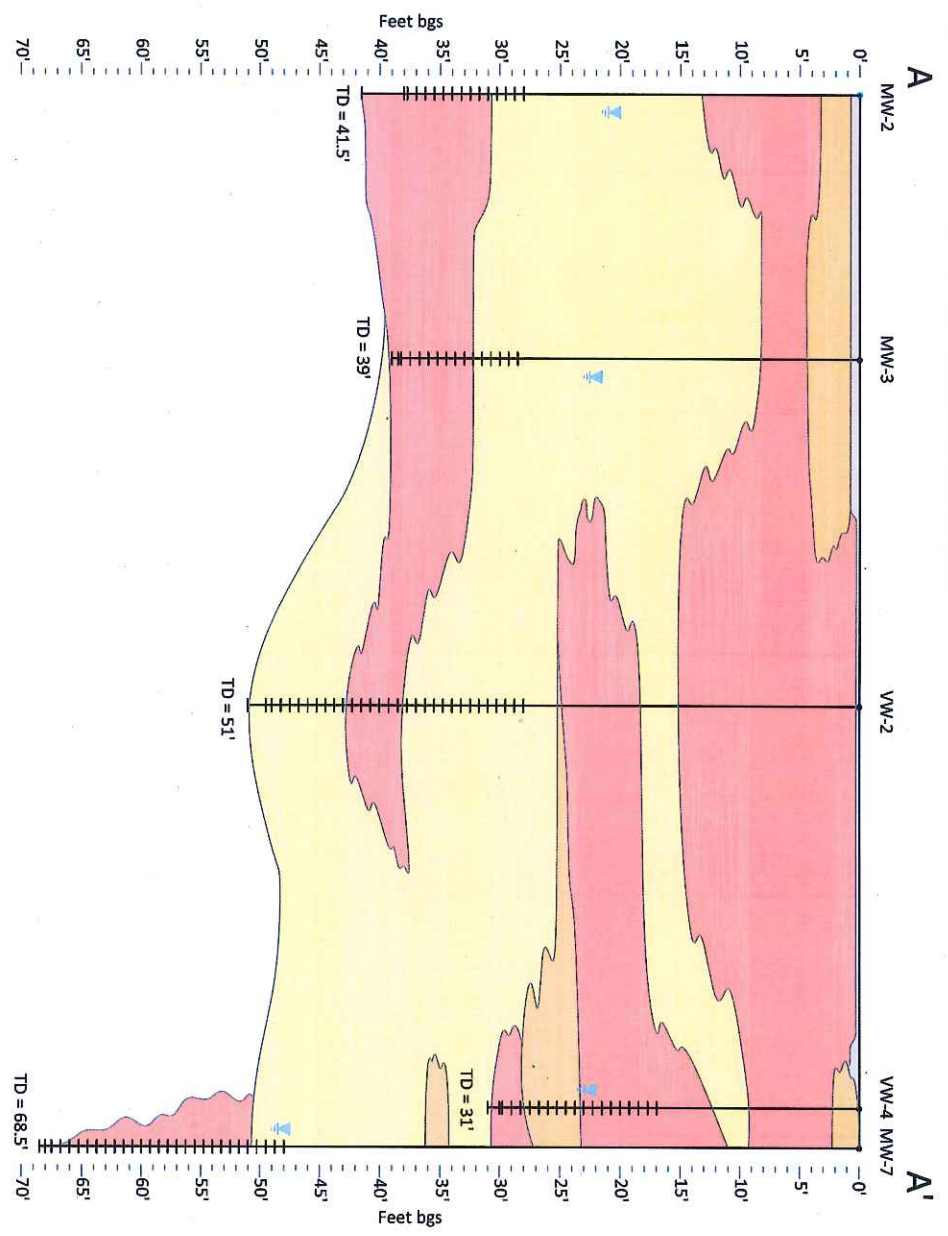
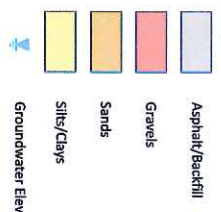
Station #6113  
785 East Stanley Boulevard  
Livermore, California

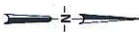
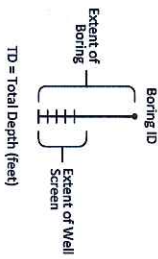
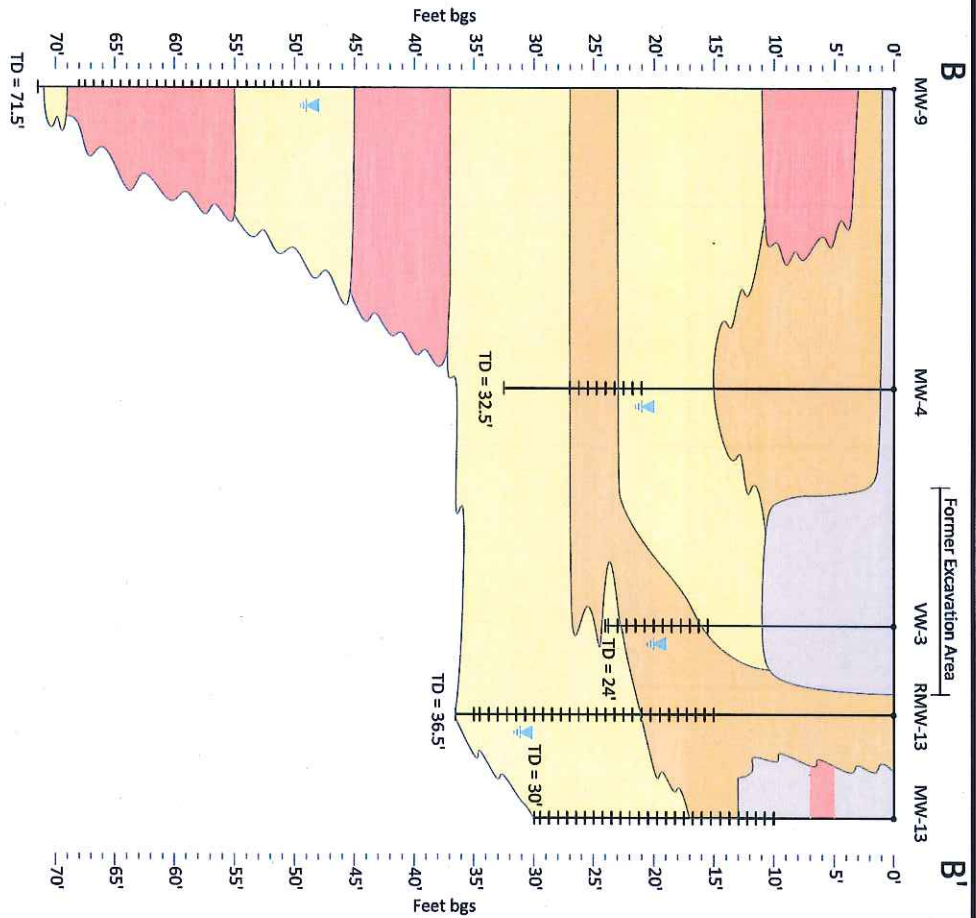
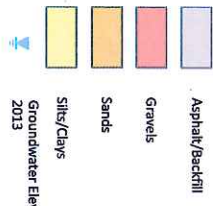
Cross Section Location Map

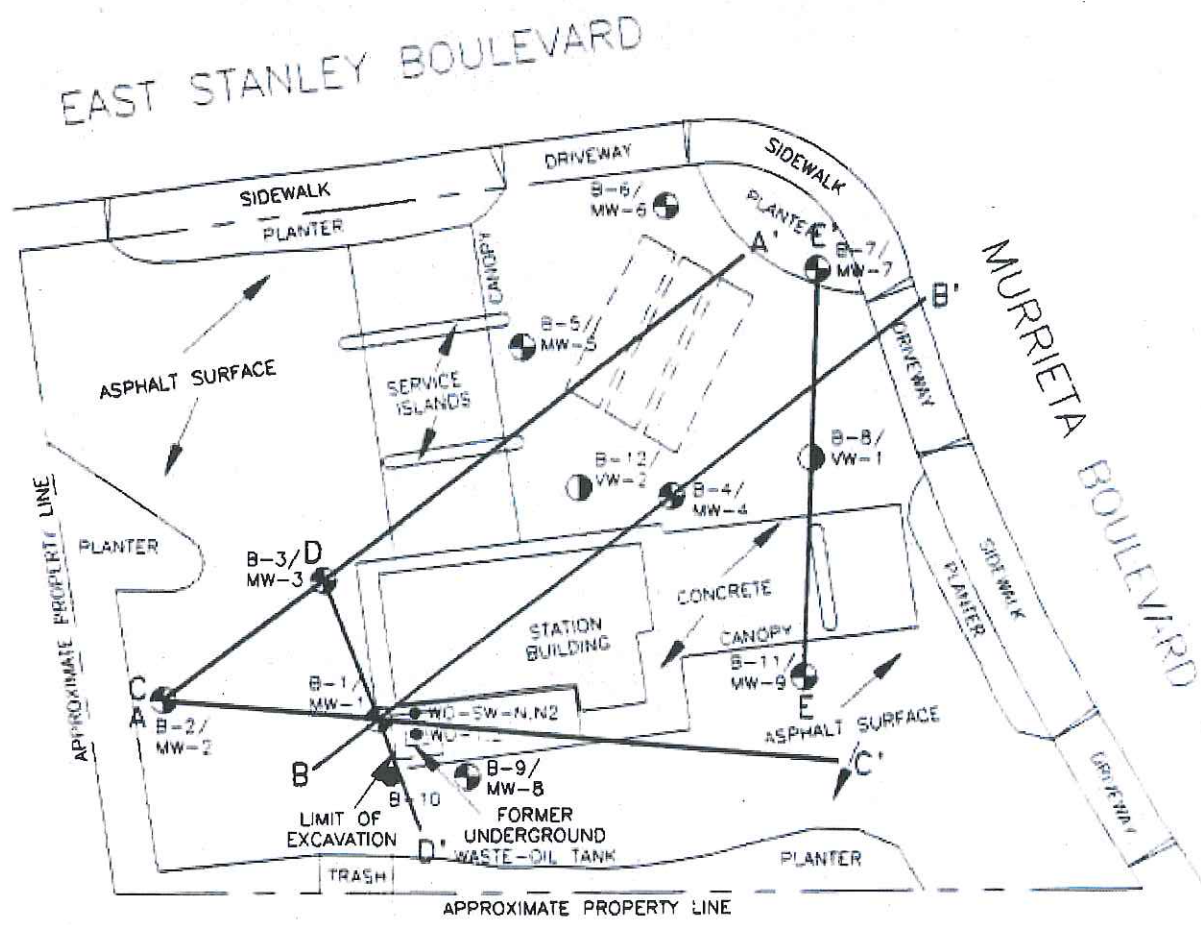
Drawing

7

**ATTACHMENT 6**

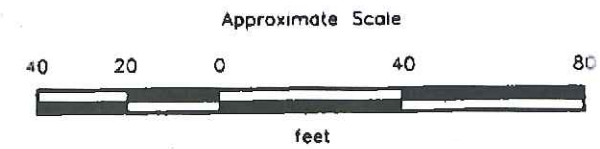






**EXPLANATION**

- B-11/  
MW-9 ⊕ = Boring/monitoring well  
(RESNA, 09/89, 02/91, and 06/92)
- B-12/  
VW-2 ⊖ = Boring/vapor extraction well  
(RESNA, 06/92)
- B-10 ● = Boring  
(RESNA, 06/92)
- WO-SW-N,N2  
● = Soil sample collected by Pacific (1989)
- E — E' = Geologic cross section
- = Existing gasoline-storage tanks



Source: Modified from plan supplied by Ron Archer, Civil Engineer Inc., October 1988

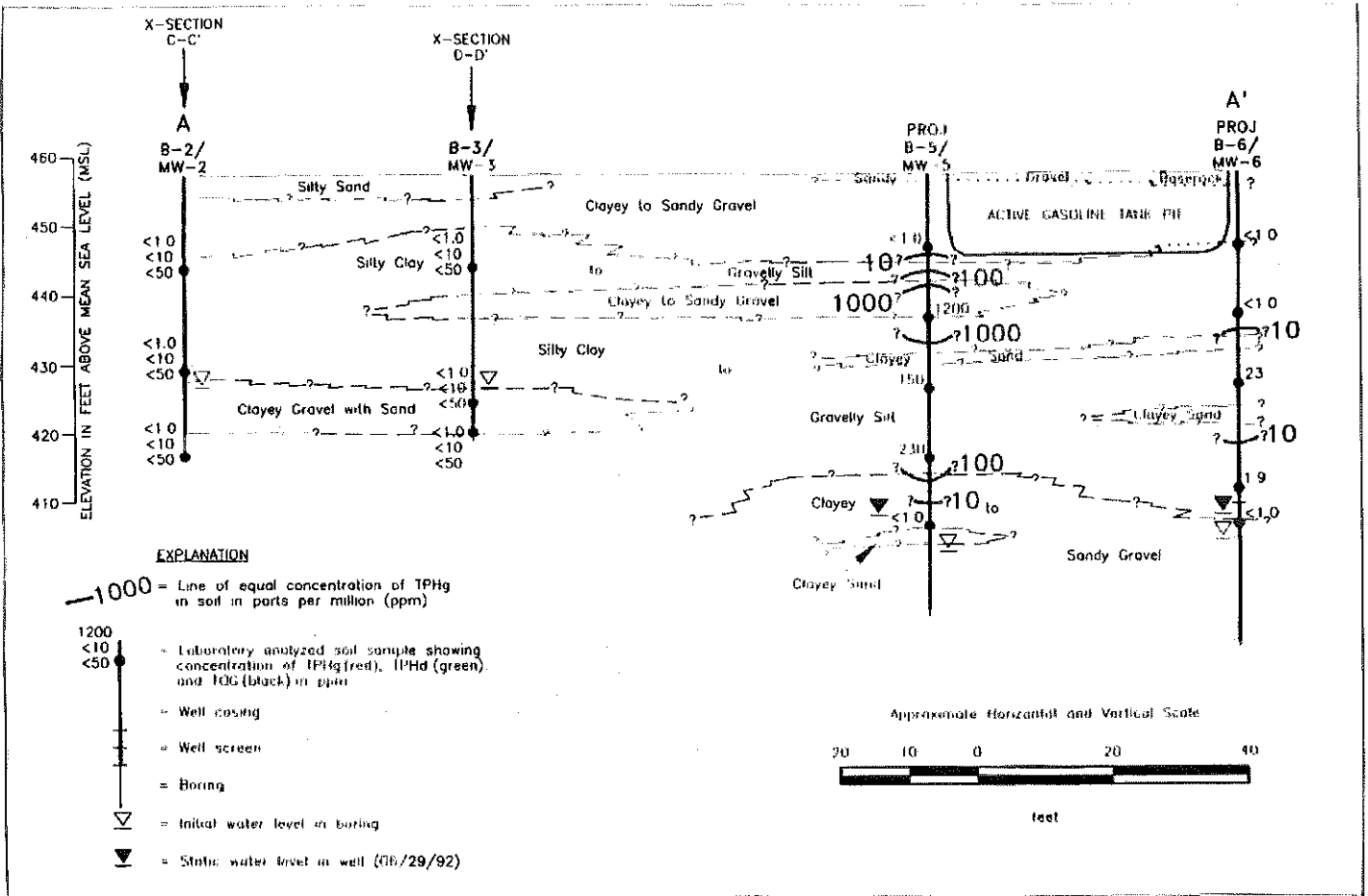


**GEOLOGICAL CROSS SECTIONS**  
**ARCO Service Station 6113**  
**785 East Stanley Boulevard**  
**Livermore, California**

**PLATE**  
**3**

**PROJECT: 69028.09**





PLATE

4

**GEOLOGIC CROSS SECTION A-A'**  
**ARCO Service Station 6113**  
**785 East Stanley Boulevard**  
**Livermore, California**

**RESNA**  
*Working to Restore Nature*

PROJECT

69028.09

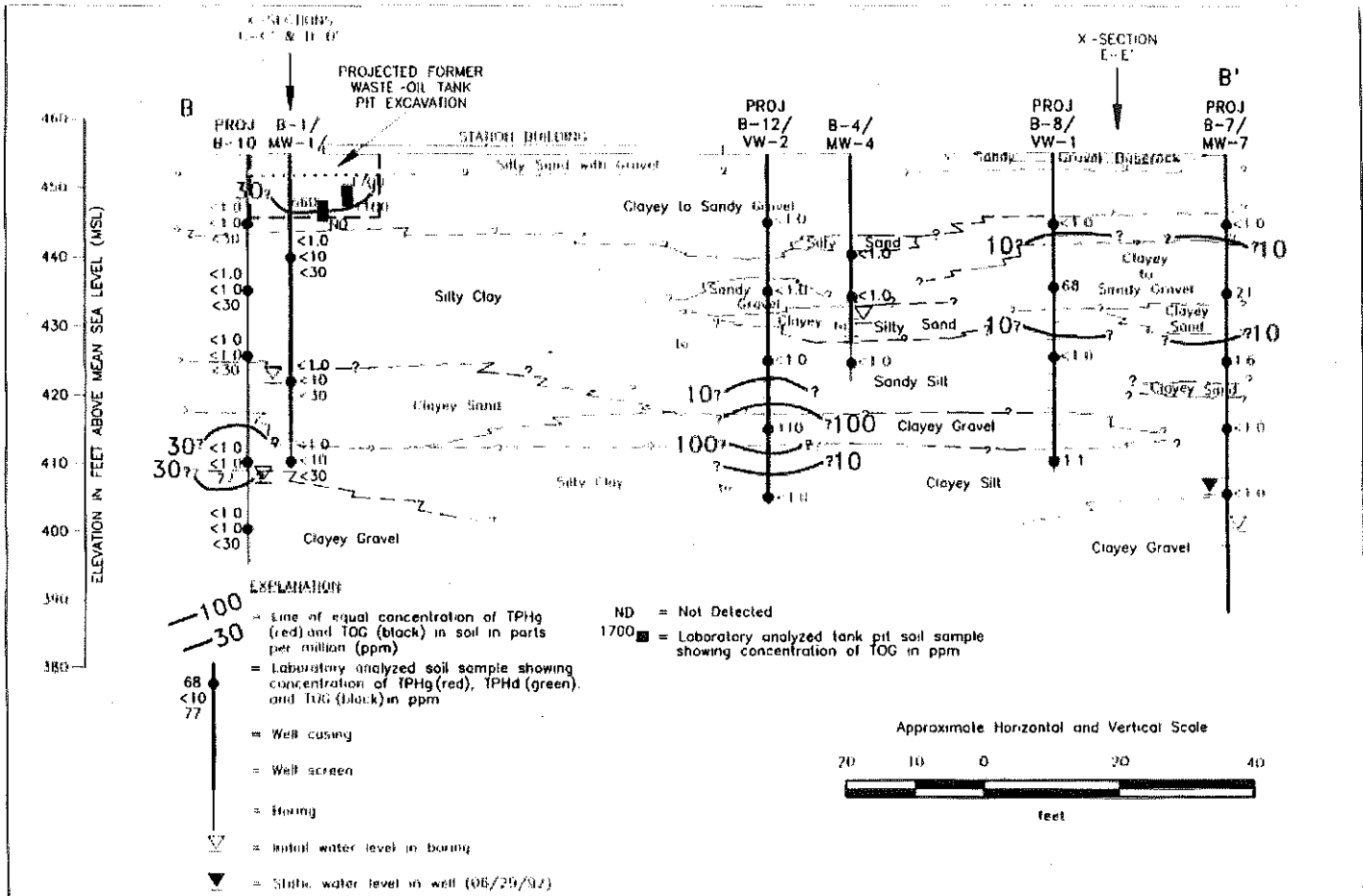


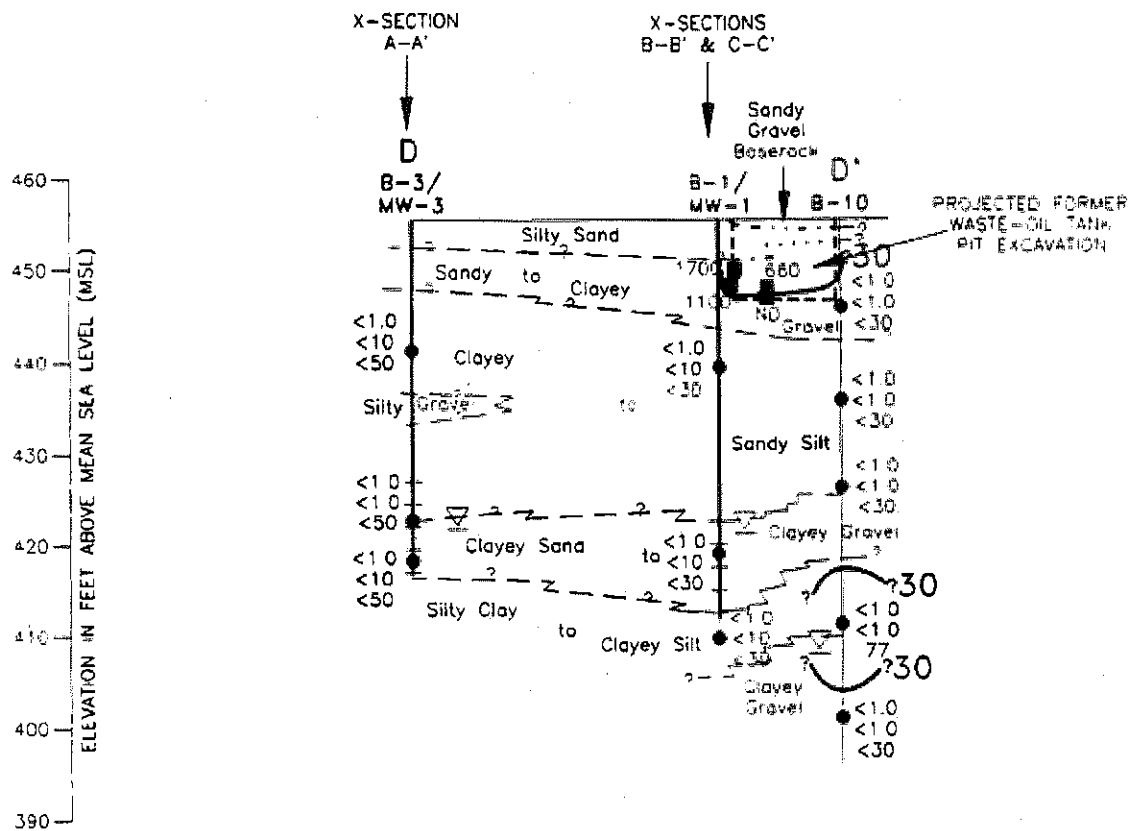
PLATE  
5

**GEOLOGIC CROSS SECTION B-B'**  
**ARCO Service Station 6113**  
**785 East Stanley Boulevard**  
**Livermore, California**



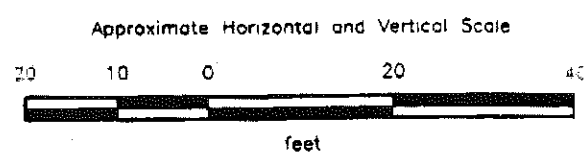
PROJECT 69028.09





**EXPLANATION**

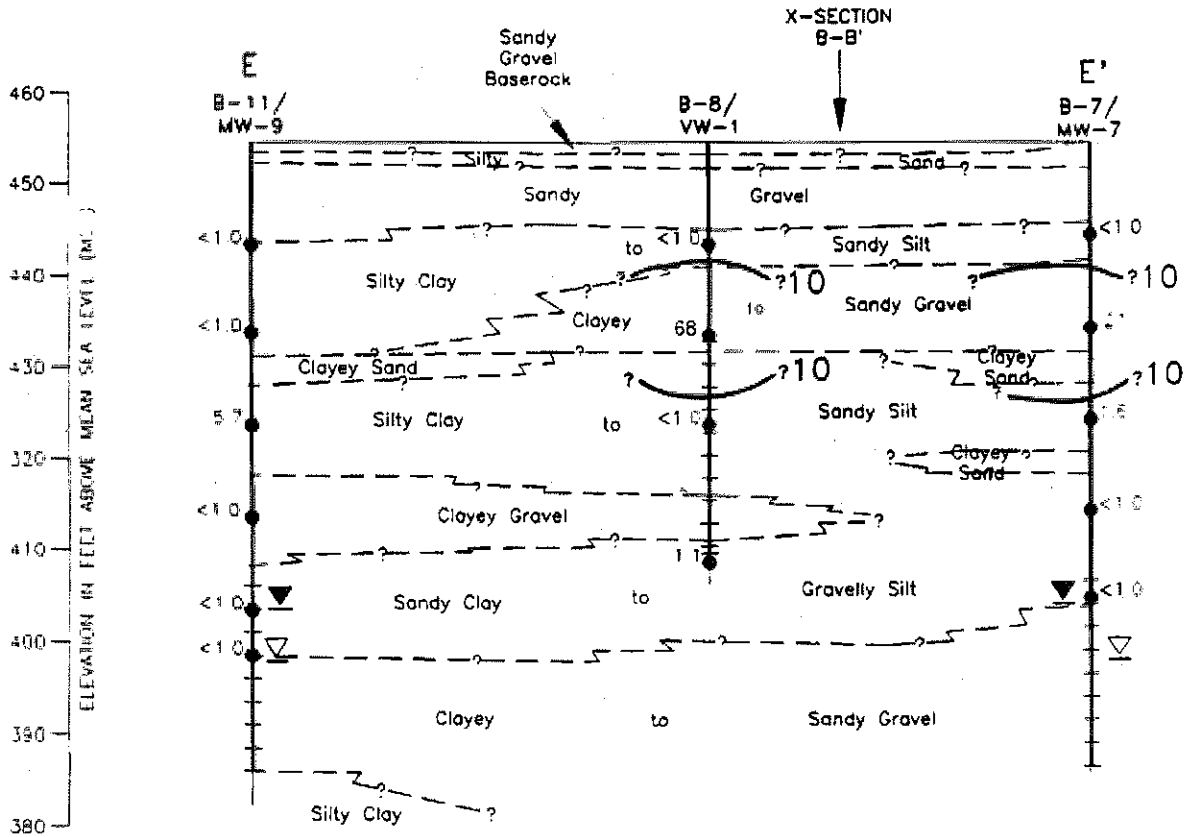
- = Line of equal concentration of TOG in soil in parts per million (ppm)
- = Laboratory analyzed soil sample showing concentration of TPHg (red), TPHd (green), and TOG (black) in ppm
- = Well casing
- = Well screen
- = Boring
- = Initial water level in boring
- ND = Not Detected
- = Laboratory analyzed tank pit soil sample showing concentration of TOG in ppm



**GEOLOGIC CROSS SECTION D-D'**  
**ARCO Service Station 6113**  
**785 East Stanley Boulevard**  
**Livermore, California**

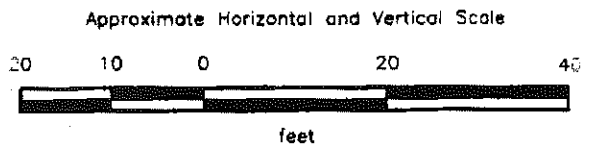
**PLATE**  
**7**

**PROJECT 69028.09**



**EXPLANATION**

- = Line of equal concentration of TPHg in soil in parts per million (ppm)
- = Laboratory analyzed soil sample showing concentration of TPHg in ppm
- = Well casing
- = Well screen
- = Boring
- = Initial water level in boring
- = Static water level in well (06/29/92)



**RESNA**  
Working to Restore Nature

**GEOLOGIC CROSS SECTION E-E'**  
ARCO Service Station 6113  
785 East Stanley Boulevard  
Livermore, California

**PLATE**  
**8**

**PROJECT 69028.09**