

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director



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

May 20, 2014

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

Lawrence and Lynne Freeman Trust and John LeStrange Trust
Attn: John LeStrange
1340 Country Commons
Lake Oswego, OR 97034-2168

Subject: Case Closure for Fuel Leak Case No. RO0000100 and GeoTracker Global ID T0600100081,
ARCO #02035, 1001 San Pablo Avenue, Albany, CA 94706

Dear Mr. Carmel:

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.swrcb.ca.gov>) and the Alameda County Environmental Health website (<http://www.acgov.org/aceh/index.htm>).

Due to residual contamination, the site was closed with Site Management Requirements that limit future land use to the current commercial land use. Site Management Requirements are further described in section IV of the attached Case Closure Summary.

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

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

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

Responsible Parties
RO0000100
May 20, 2014
Page 2

Cc w/enc.:

Kristene Tidwell, Broadbent, 875 Cotting Lane, Suite G, Vacaville, CA 95688 (Sent via E-mail to: ktidwell@broadbentinc.com)

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

GeoTracker (uploaded)
eFile (w/orig enc)



REMEDIAL ACTION COMPLETION CERTIFICATION

May 20, 2014

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

Lawrence and Lynne Freeman Trust and John LeStrange Trust
Attn: John LeStrange
1340 Country Commons
Lake Oswego, OR 97034-2168

Subject: Case Closure for Fuel Leak Case No. RO0000100 and GeoTracker Global ID T0600100081, ARCO #02035, 1001 San Pablo Avenue, Albany, CA 94706

Dear Mr. Carmel:

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,

A handwritten signature in black ink, appearing to read 'Ariu Levi', written over a horizontal line.

Ariu Levi
Director

Alameda County Environmental Health

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

I. AGENCY INFORMATION

Date: January 8, 2014

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 #02035		
Site Facility Address: 1001 San Pablo Avenue, Albany, CA 94706		
RB Case No.: 01-0088	STID No.: 3858	LOP Case No.: RO0000100
URF Filing Date: ---	Geotracker ID: T0600100081	APN: 65-2662-1
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
Lawrence and Lynne Freeman Trust and John LeStrange Trust Attn: John LeStrange	1340 Country Commons Lake Oswego, OR 97034-2168	No Phone Number

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
T1	6,000 gallons	Gasoline	Removed	07/01/1991
T2	4,000 gallons	Gasoline	Removed	07/01/1991
T3	4,000 gallons	Gasoline	Removed	07/01/1991
T4	10,000 gallons	Gasoline	Removed	07/01/1991
Piping			Removed	07/01/1991

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: 11	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 6.62 feet bgs	Lowest Depth: 12.90 feet bgs	Flow Direction: West
Most Sensitive Current Groundwater Use: Potential drinking water source		

Summary of Production Wells in Vicinity: No water supply wells have been identified within 1,000 feet of the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest Surface Water Name: Village Creek, is approximately 190 feet south (crossgradient) from the site
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
Free Product	---	---	---
Soil	450 cubic yards	Transported to West Contra Costa County Sanitary Landfill in Richmond, CA for disposal	07/10/1991
	350 cubic yards	Transported to Redwood Landfill in Novato, CA for disposal	08/08/1991
Groundwater	---	---	---

LTCP GROUNDWATER SPECIFIC CRITERIA

LTCP Groundwater Specific Scenario under which case was closed: Scenario 2

Site Data		LTCP Scenario 1 Criteria (ppb)	LTCP Scenario 2 Criteria (ppb)	LTCP Scenario 3 Criteria (ppb)	LTCP Scenario 4 Criteria (ppb)
Plume Length	<250 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 or decreasing	Stable or decreasing	Stable or decreasing	Stable or decreasing for minimum of 5 Years	Stable or decreasing
Distance to Nearest Water Supply Well	>1,000 feet	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet
Distance to Nearest Surface Water and Direction	190 feet crossgradient*	>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	9,900	70	No criteria	3,000	No criteria	1,000
MTBE	1,500	3.5	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, see Section V. Additional Comments

* Village Creek is approximately 190 feet south of the site. However, Village Creek is in a cross gradient direction from the site and the plume is stable or decreasing in size. Due to the low potential for the plume to reach Village Creek, the site appears to meet scenario 2 of the LTCP groundwater specific criteria.

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 12/13/2013

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	1-9 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	70 ppb	No criteria	No criteria	<100 ppb	≥100 and <1,000 ppb	<1,000 ppb	No criteria
Oxygen Data within Bioattenuation Zone	5.1%	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	3.0 to 3.5 feet	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 ³)	Current Maximum (µg/m ³)	Residential	Commercial	Residential	Commercial
Benzene	2.6	2.6	<85	<280	<85,000	<280,000
Ethylbenzene	<3.4	<3.4	<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 has 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	36	36	36	36	36
LTCP Criteria	Benzene	≤1.9	≤2.8	≤8.2	≤12	≤14
Site Maximum	Ethylbenzene	100	100	100	100	100
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.		
Site Management Requirements:		
<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). Benzene and ethylbenzene concentrations in shallow soil exceed the numerical criteria for direct contact and outdoor air exposure prescribed in the LTCP for residential and commercial land use. Under the current land use as an active fueling station, most of the site is paved with minor landscaped areas near the site boundaries resulting in a low potential for direct exposure under the current land use. Therefore, case closure is granted for the current commercial land use.</p> <p>If a change in land use to any residential or other conservative land use, or if any redevelopment occurs, Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2. Due to the potential for vapor intrusion to indoor air for future buildings, ACEH will re-evaluate the case upon receipt of approved development/construction plans.</p> <p>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? Yes		
Was a deed restriction or deed notification filed? No		Date Recorded: ---
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 11

V. ADDITIONAL COMMENTS AND CONCLUSION

<p>Additional Comments:</p> <p>Maximum benzene and ethylbenzene concentrations in shallow soil exceed the LTCP criteria for direct contact under both residential and commercial land use. The maximum concentrations of these constituents were detected in soil samples collected from product line trenches in 1991. Under the current land use as an active fueling station, the site is paved resulting in a low potential for direct exposure under the current land use. Future risks from direct contact and outdoor air exposure can be mitigated through the use of land use restrictions. In addition, these concentrations have likely decreased due to natural attenuation and remediation by soil vapor extraction.</p> <p>Conclusion:</p> <p>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.</p>
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VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham, P.G.	Title: Senior Hazardous Materials Specialist
Signature: <i>Jerry Wickham</i>	Date: 01/09/14
Approved by: Dylan Boe	Title: LOP and SCP Program Manager
Signature: <i>Dylan Boe</i>	Date: January 9, 2014

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: 11/25/2013	
Public Notification Date: 11/25/2013	

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 01/28/14	Date of Well Decommissioning Report: 05/19/14	
All Monitoring Wells Decommissioned: Yes	Number Decommissioned: 23	Number Retained: 0
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: <i>Jerry Wickham</i>	Date: 05/20/14	

Attachments:

1. Site Vicinity Map (1 p)
2. Site Plans and Cross Sections (11 pp)
3. Groundwater Contour and Chemical Concentration Maps (9 pp)
4. Soil Analytical Data (11 pp)
5. Soil Vapor Analytical Data (3 pp)
6. Groundwater Analytical Data (20 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.

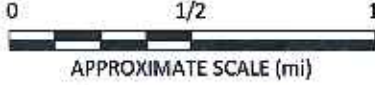
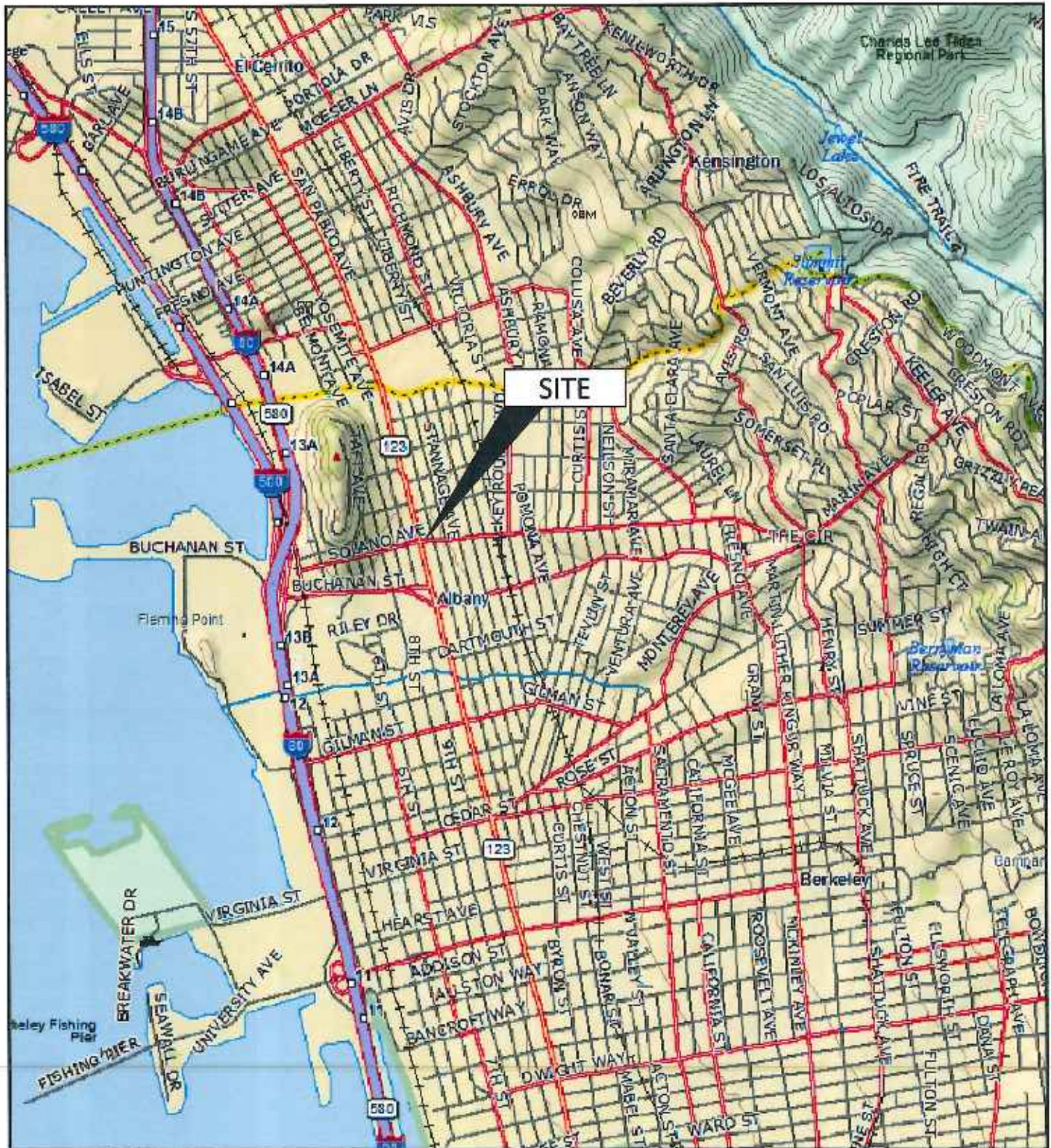


IMAGE SOURCE: DeLorme USA Topo 7.0

Drawing

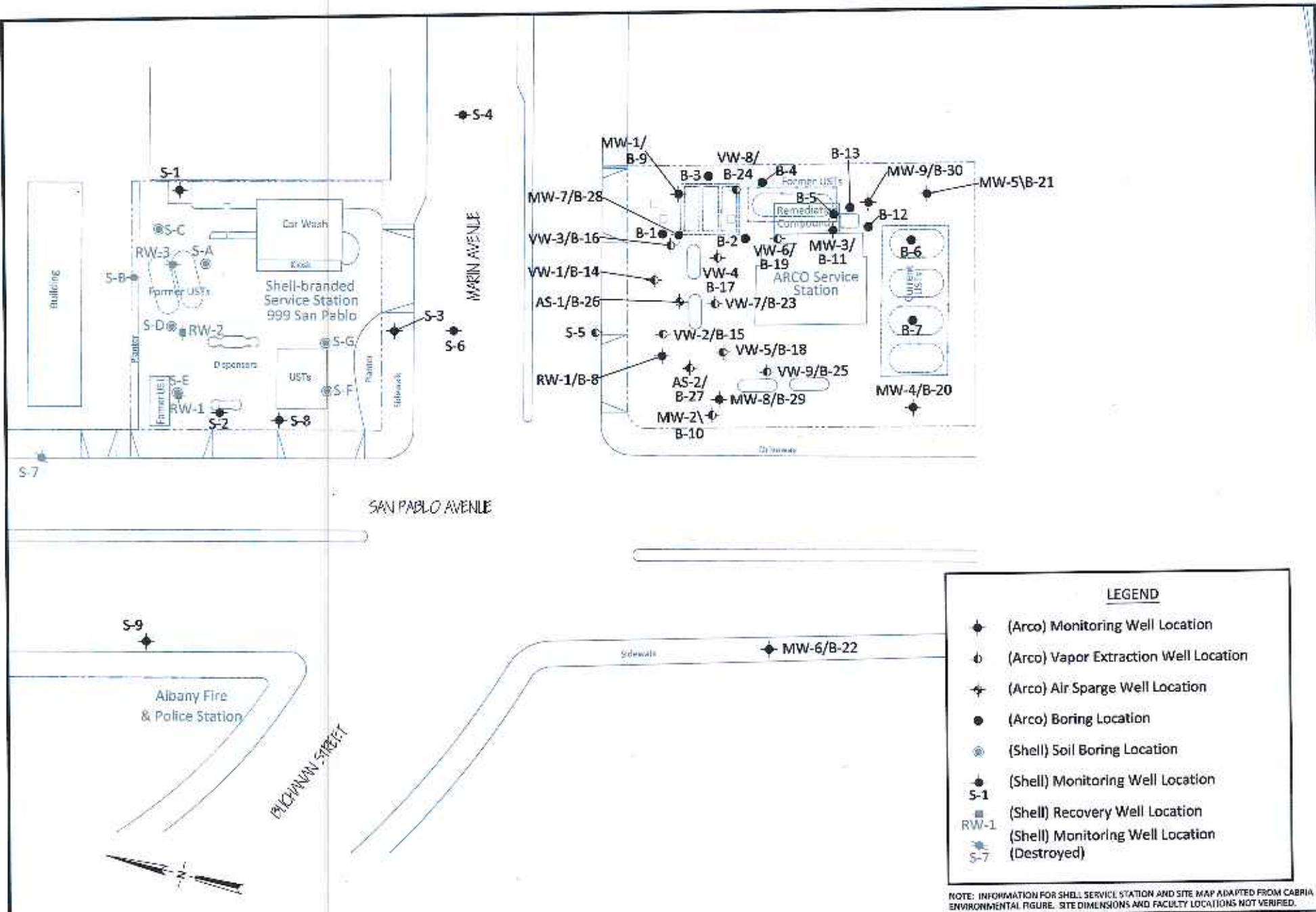
BROADBENT
 1370 Ridgewood Dr., Suite 3
 Chico, California 95973
 Project No.: 06-88-610 Date: 4/9/2013

ARCO Service Station #2095
 1001 San Pablo Avenue
 Albany, California

Site Location Map

1

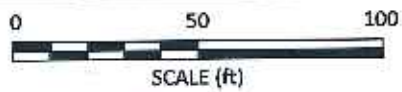
ATTACHMENT 1



LEGEND

- ◆ (Arco) Monitoring Well Location
- ⊕ (Arco) Vapor Extraction Well Location
- ⋄ (Arco) Air Sparge Well Location
- (Arco) Boring Location
- ⊙ (Shell) Soil Boring Location
- ◆ (Shell) Monitoring Well Location
- S-1 (Shell) Recovery Well Location
- RW-1 (Shell) Monitoring Well Location
- S-7 (Destroyed)

NOTE: INFORMATION FOR SHELL SERVICE STATION AND SITE MAP ADAPTED FROM CABRIA ENVIRONMENTAL FIGURE. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



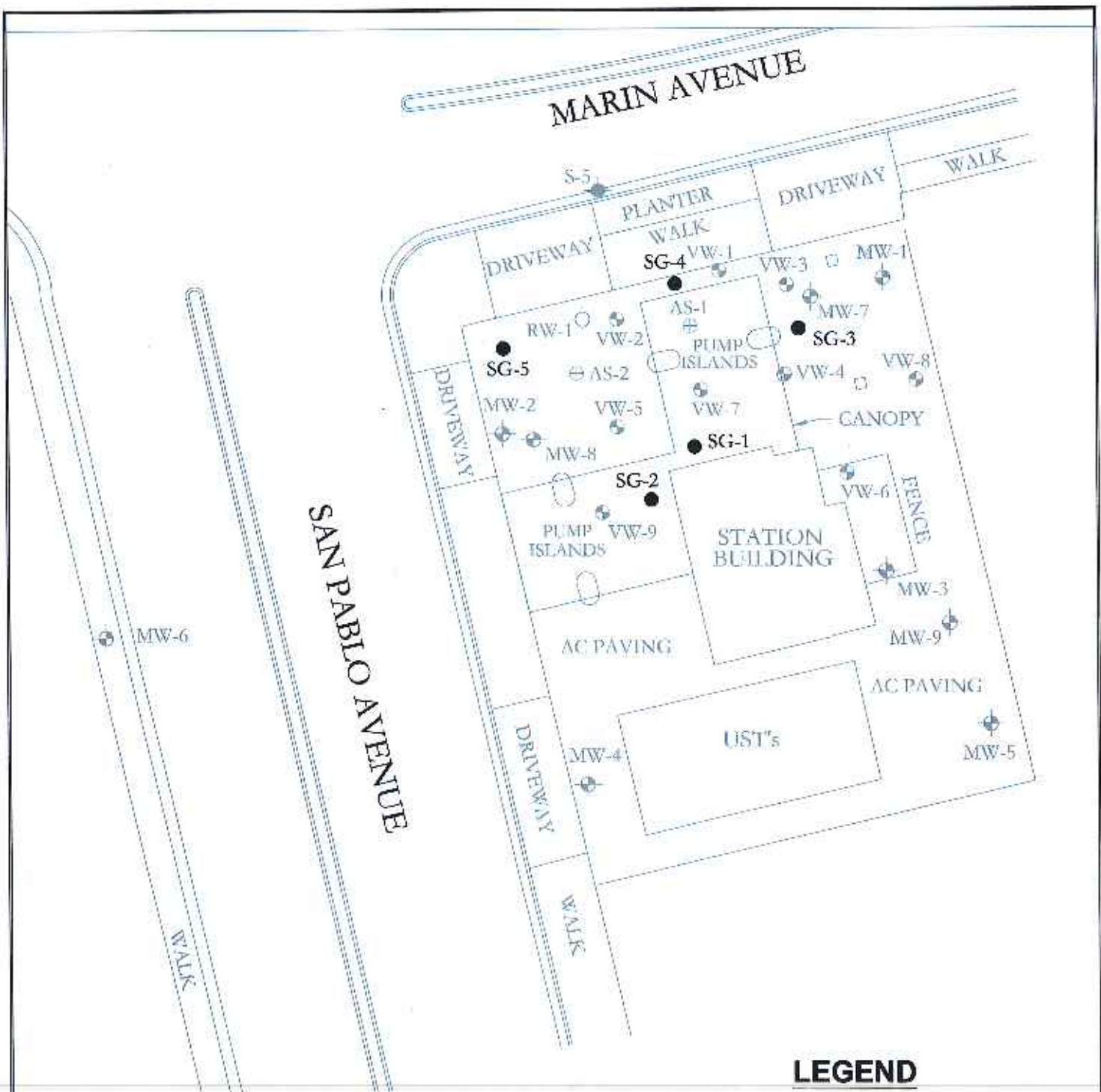
BROADBENT
 1370 Ridgewood Dr., Suite 5
 Chico, California 95973
 Project No.: 06-88-610 Date: 5/20/2013

ARCO Service Station #2035
 1001 San Pablo Avenue
 Albany, California

Site Map with Monitoring Well,
 Historical Boring, and Soil Vapor
 Sampling Locations

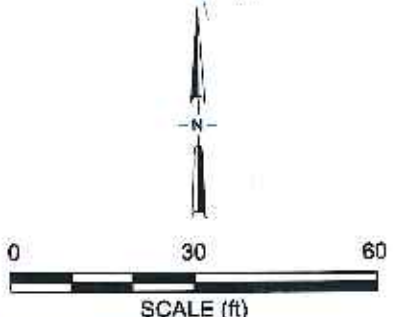
Drawing
2

ATTACHMENT 2



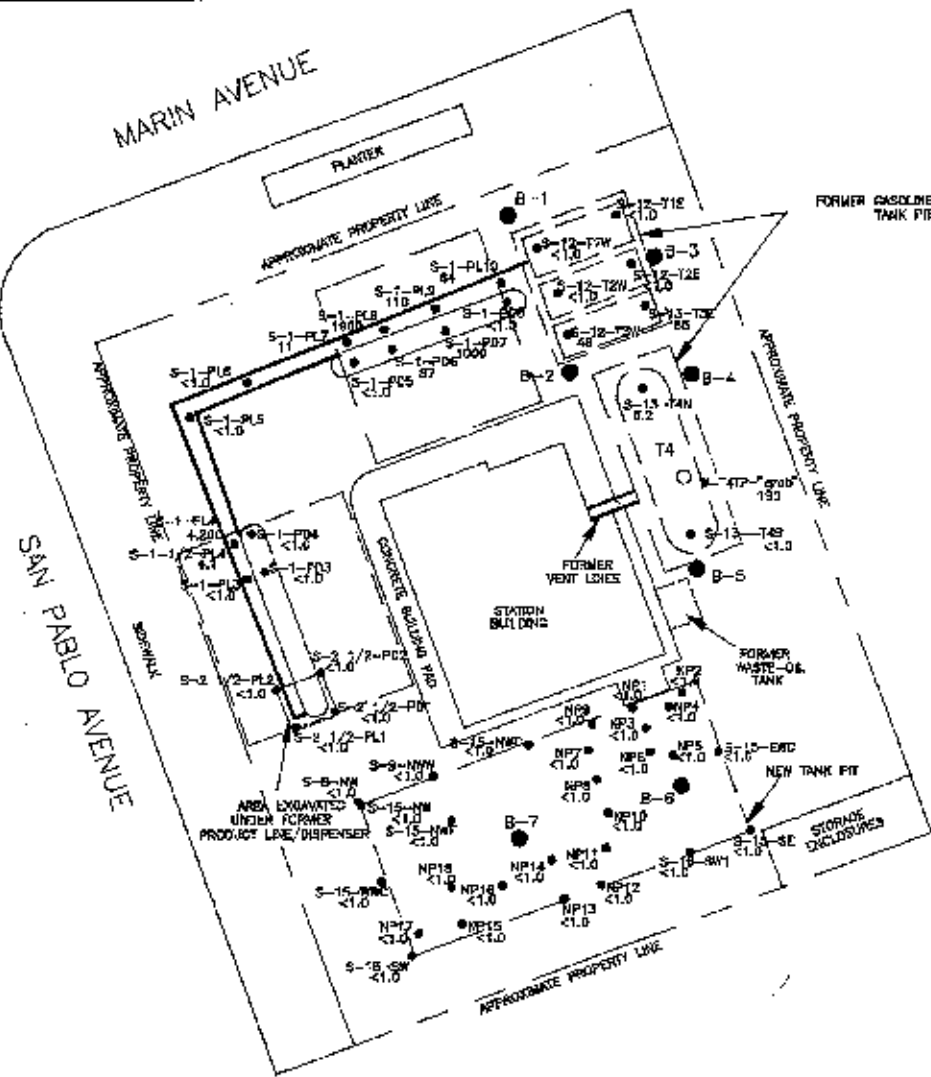
LEGEND

- Soil Gas Boring/ Temporary Vapor well
- ⊕ (ARCO) Monitoring well
- ⊕ (ARCO) Vapor extraction well
- ⊕ (ARCO) Air sparge well
- S-5 ⊕ (Shell) Monitoring well



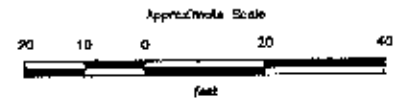
NOTES: SITE MAP ADAPTED FROM WOOD RODGERS FIGURE. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

MARIN AVENUE



EXPLANATION

- B-7 ● = Soil boring (RESNA, June 1981)
- S-1-PL4 ■ = Soil sample with identifier, showing laboratory reported concentrations of TPHg (red) in ppm
- W-T4CP "grab" ○ = "grab" sample of water in T4 tank pH showing concentration of TPHg (red) in ppm



Source: Modified from plan supplied by ARCO.

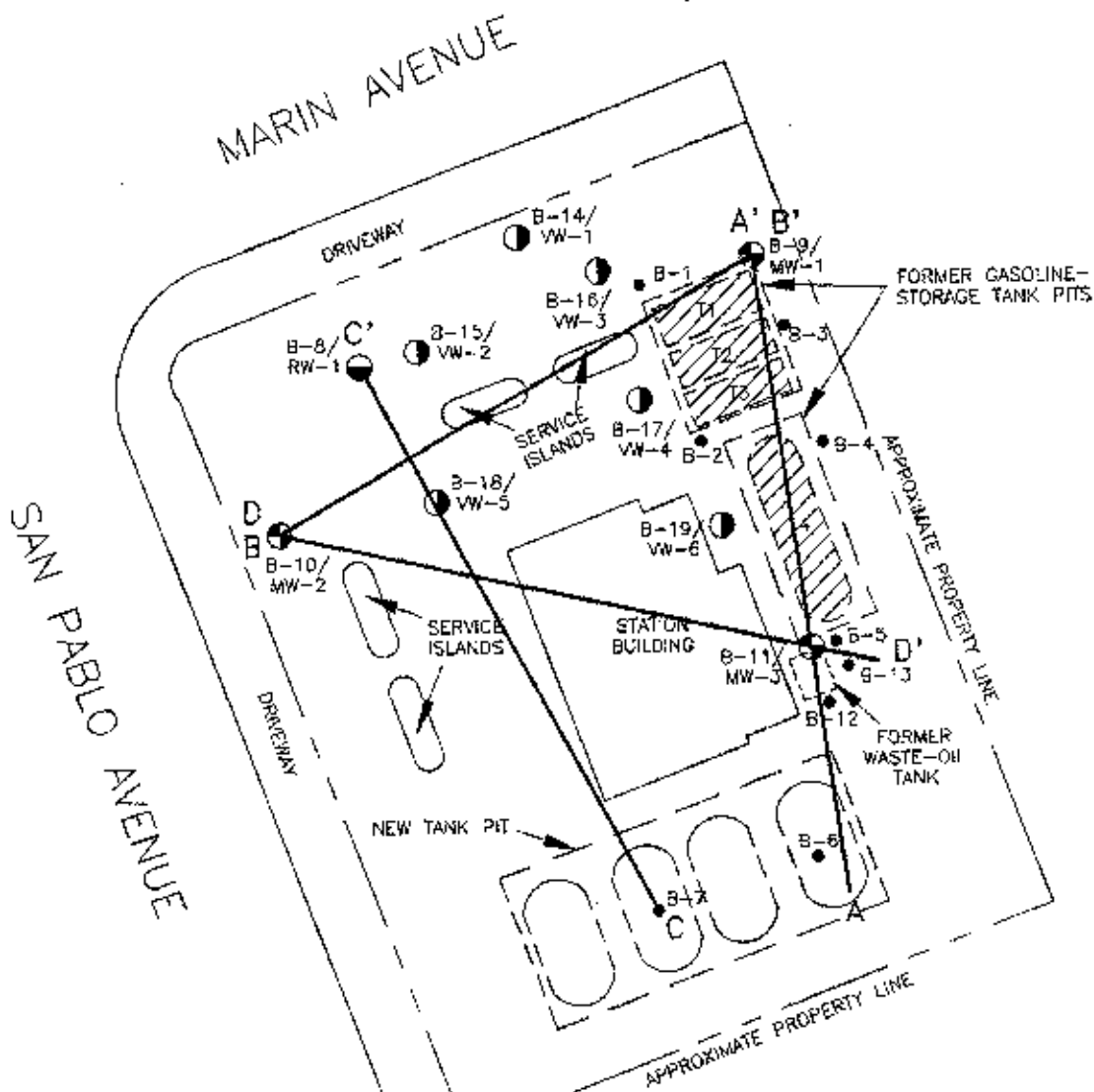
RESNA
Working to Restore Nature

PROJECT 89028.06

SOIL SAMPLING
ARCO Station 2038
1001 San Pablo Avenue
Albany, California

PLATE

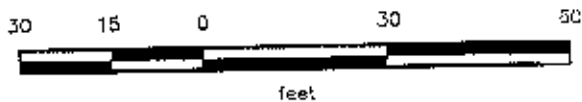
3



EXPLANATION

- B-19/
VW-6 ● = Boring/vapor extraction well
(RESNA, August 1992)
- B-8/
RW-1 ● = Boring/recovery well
(Exceltech, October 1991)
- B-11/
MW-3 ● = Boring/monitoring well
(Exceltech, October 1991)
- B-13 ● = Soil boring
(RESNA, August 1989 and June 1991)
- D—D' = Geologic cross section

Approximate Scale



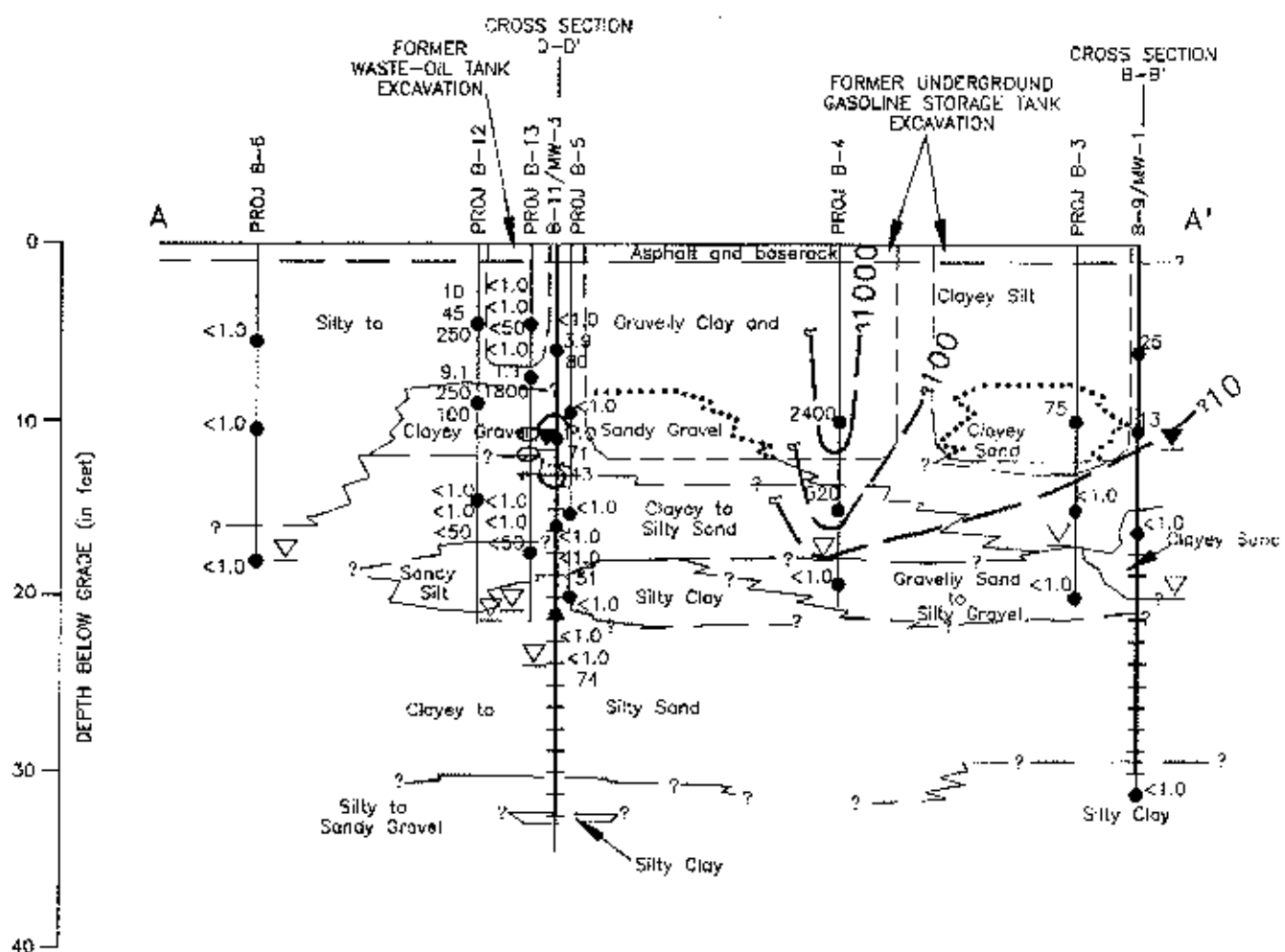
Source: Surveyed by John E. Koch, Lend Surveyor.



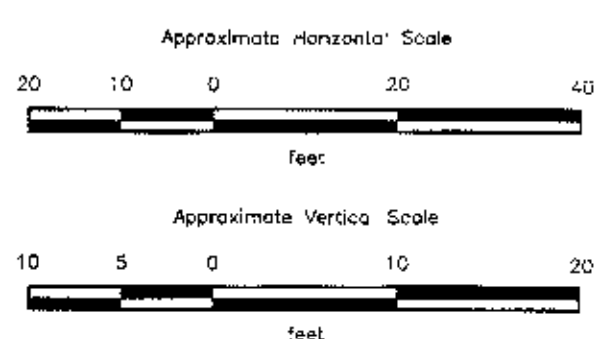
GENERALIZED SITE PLAN
ARCO Station 2035
1001 San Pablo Avenue
Albany, California

PLATE
2

PROJECT 69036.06



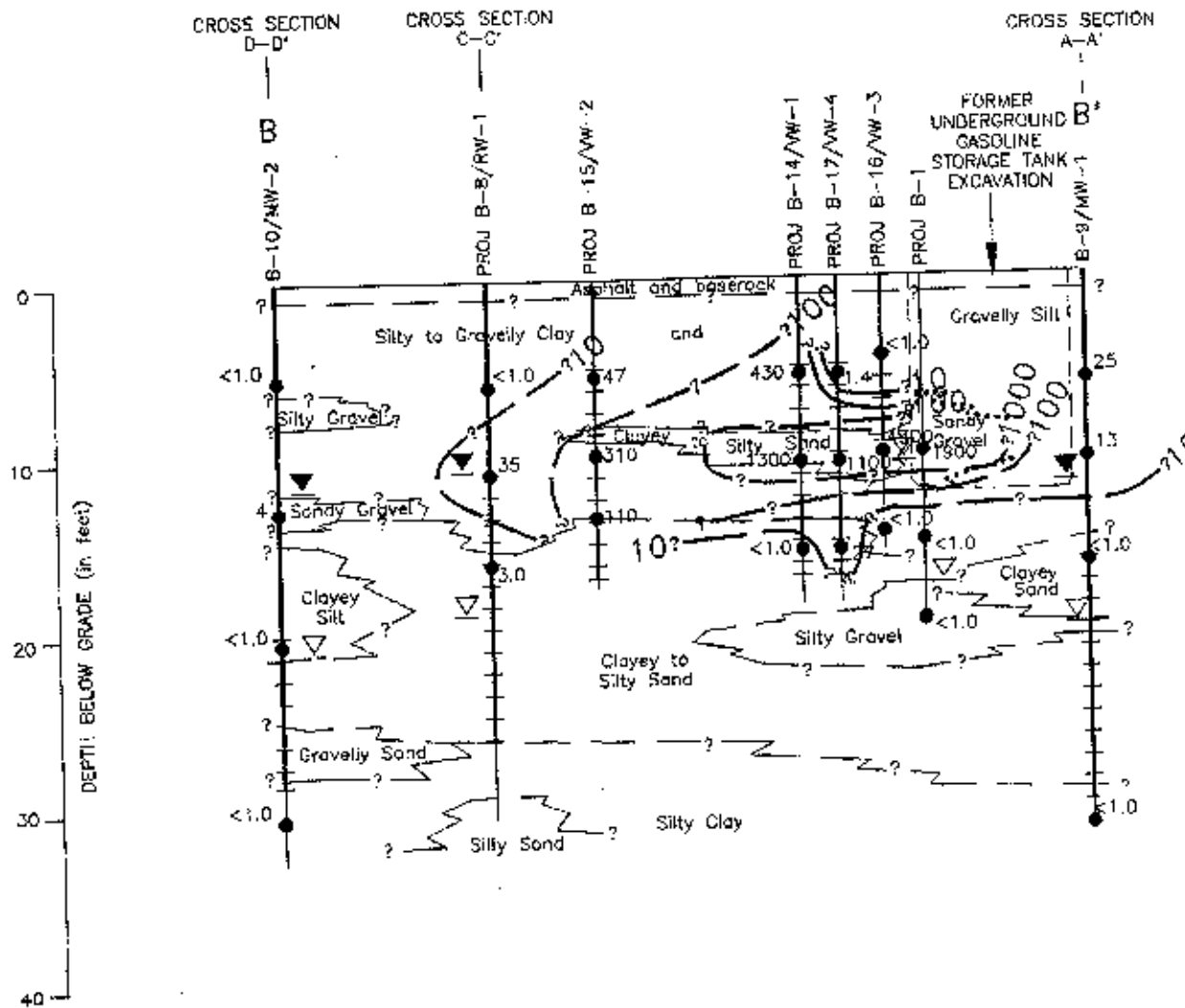
- EXPLANATION**
- = Line of equal concentration of TPHg in soil in parts per million (ppm)
 - Laboratory analyzed soil sample showing concentration of TPHg (red), TPHd (green), and TOG (blue) in ppm
 - = Well casing
 - = Well screen
 - = Boring
 - = Initial water level in boring
 - = Static water level in well (09/08/92)



GEOLOGIC CROSS SECTION A-A'
ARCO Station 2035
1001 San Pablo Avenue
Albany, California

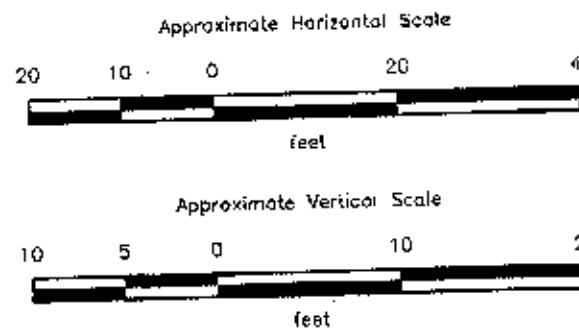
PLATE
5

PROJECT 69036.06



EXPLANATION

- 1000 = Line of equal concentration of TPHs in soil in parts per million (ppm)
- 4300 = Laboratory analyzed soil sample showing concentration of TPHs in ppm
- = Well casing
- = Well screen
- = Boring
- ▽ = Initial water level in boring
- ▽ = Static water level in well (09/08/92)



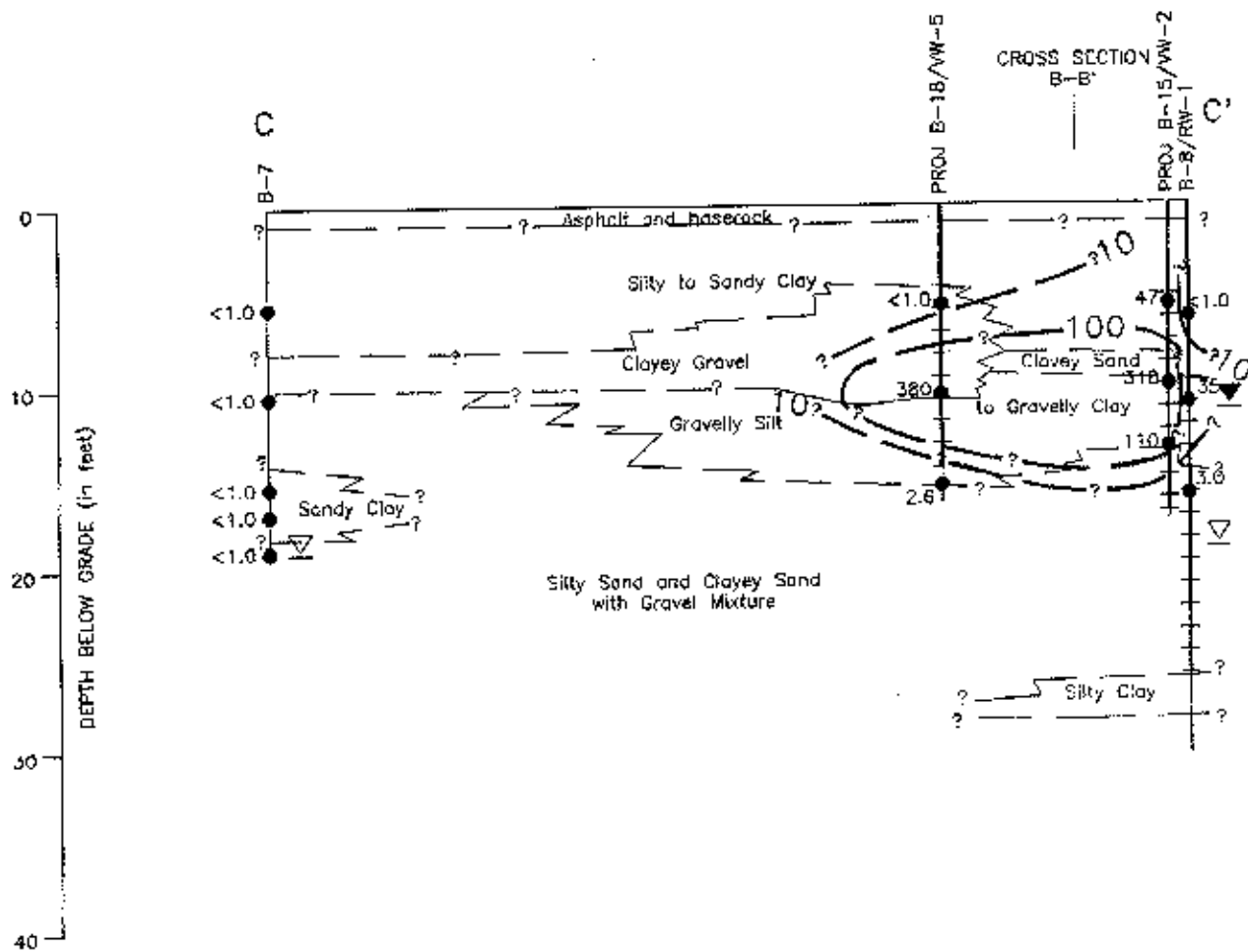
RESNA
Working to Restore Nature

GEOLOGIC CROSS SECTION B-B'
ARCO Station 2035
1001 San Pablo Avenue
Albany, California

PLATE

6

PROJECT 69036.06



EXPLANATION

- 100 — Line of equal concentration of TPHg in soil in parts per million (ppm)
- 380 — 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 (09/08/92)

Approximate Horizontal Scale



Approximate Vertical Scale



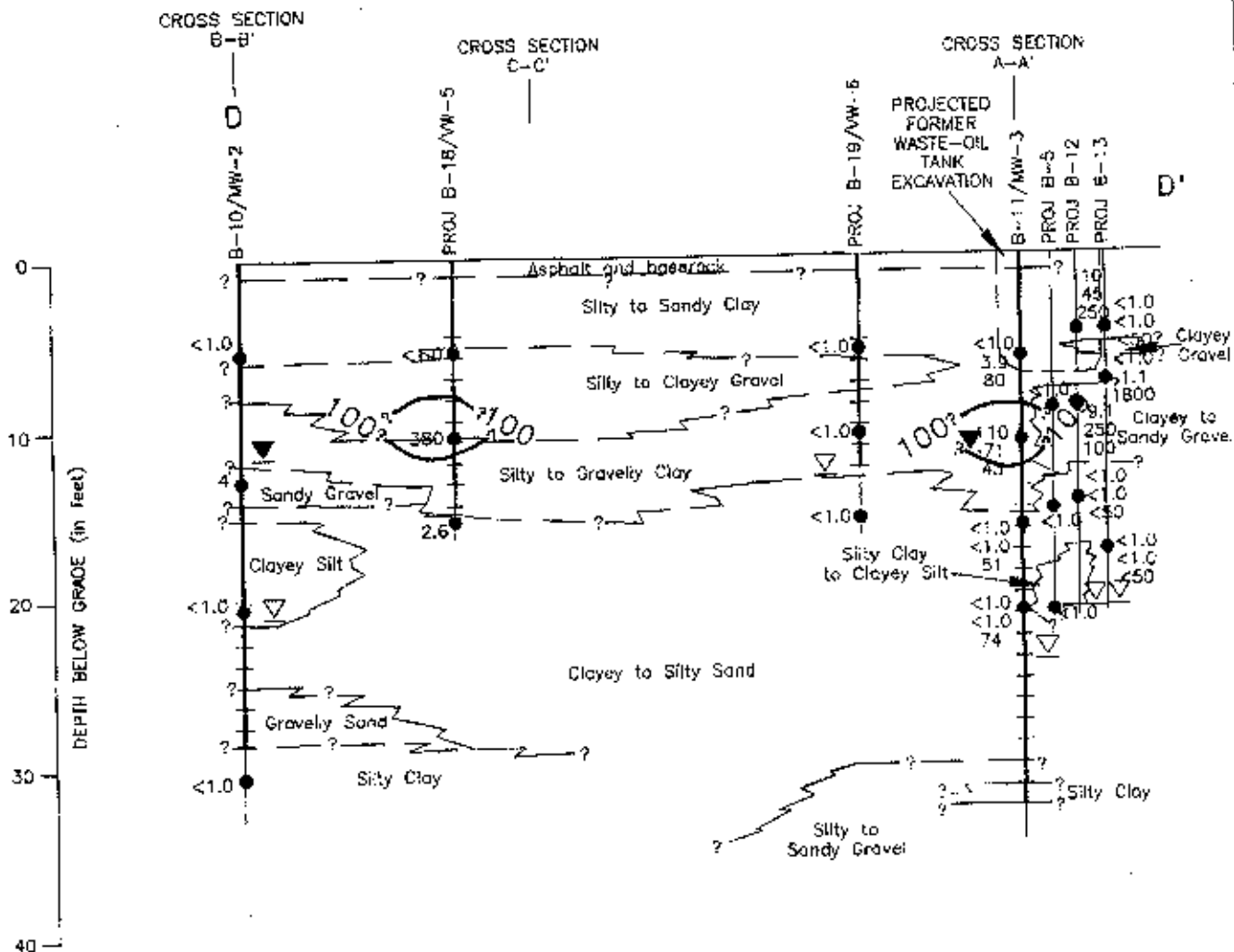
GEOLOGIC CROSS SECTION C-C'
ARCO Station 2035
1001 San Pablo Avenue
Albany, California

PLATE

7

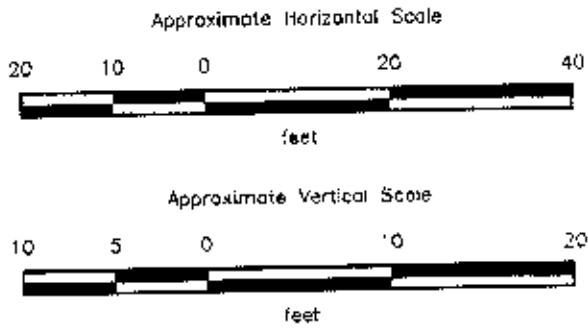
PROJECT

69036.06



EXPLANATION

- 100 = Line of equal concentration of TPHg in soil in parts per million (ppm)
- 380 = Laboratory analyzed soil sample showing concentration of TPHg (red), TPHd (green), and TOG (blue) in ppm
- 250
- 1800
- = Well casing
- = Well screen
- = Boring
- ▽ = Initial water level in boring
- ▽ = Static water level in well (09/08/92)



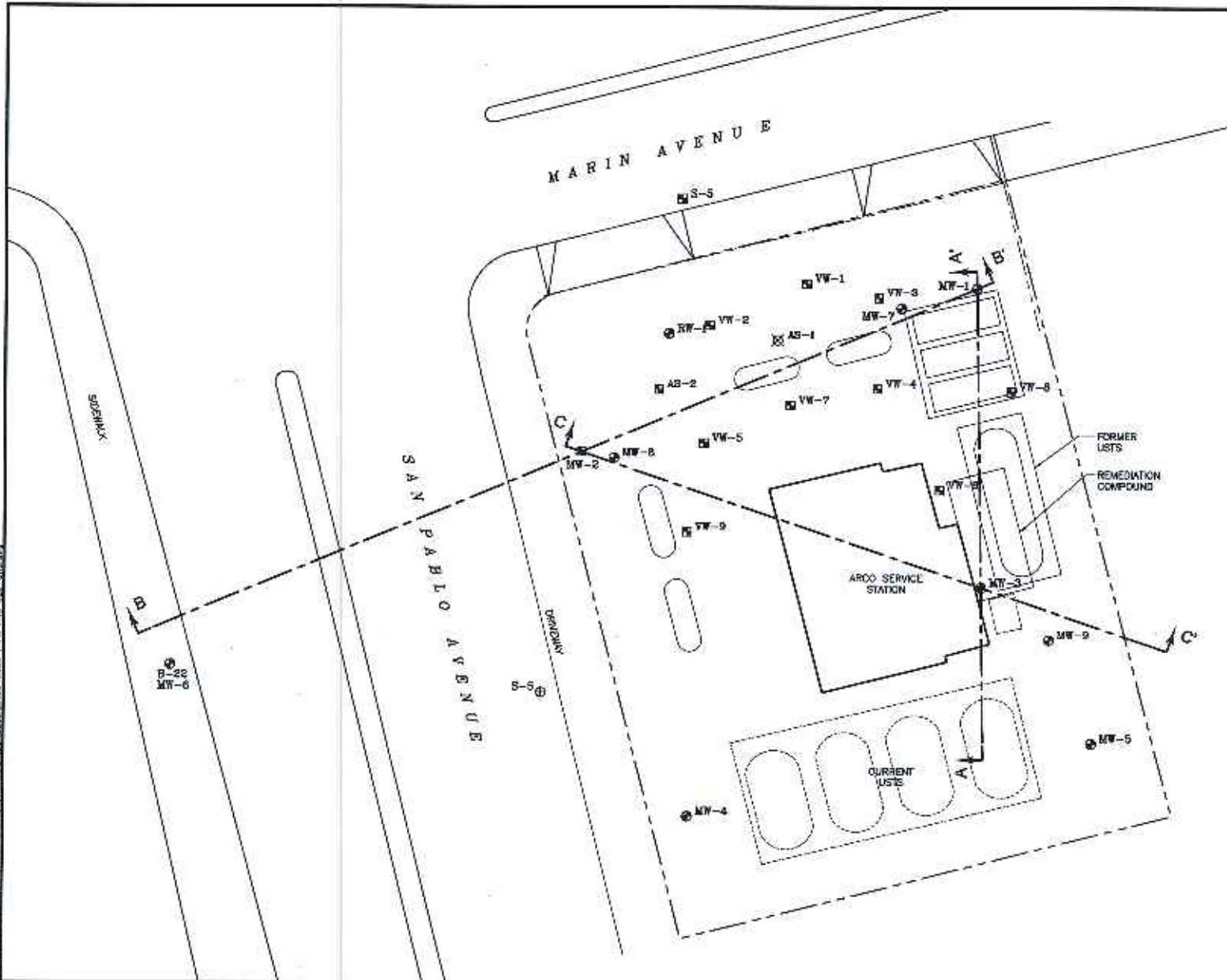
RESNA
Working to Restore Nature

GEOLOGIC CROSS SECTION D-D'
ARCO Station 2035
1001 San Pablo Avenue
Albany, California

PLATE
8

PROJECT 69036.06

2011.1220.10541456_01.dwg (Site Remediation) 03/09/2011 10:50:00 AM 10:50:00 AM 10:50:00 AM 10:50:00 AM



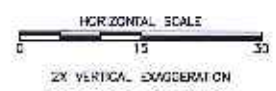
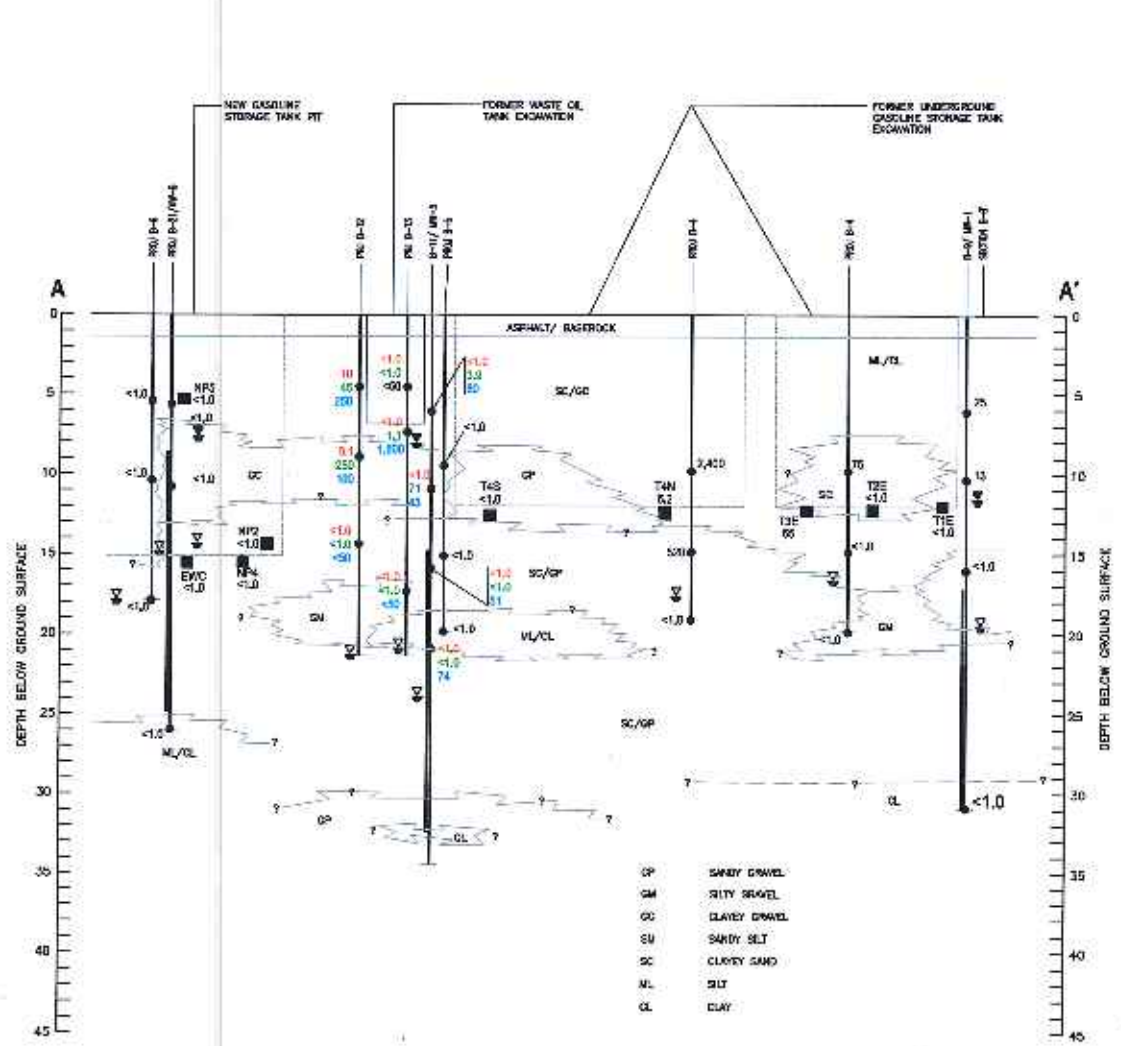
- LEGEND:**
- ⊙ (ARCO) MONITORING WELL
 - ⊠ (ARCO) VAPOR EXTRACTION WELL
 - ⊠ (ARCO) AIR SPARGE WELL
 - ⊕ (SHELL) MONITORING WELL
 - A-A' GEOLOGIC CROSS SECTION LOCATION

FIGURE 1
SITE MAP WITH CROSS SECTION LOCATIONS

ARCO STATION NO. 2035
 1001 SAN PABLO AVENUE
 ALBANY, CALIFORNIA

CLOSURE SOLUTIONS, INC.
 4600 Northgate Boulevard • Suite 230
 Sacramento • California • 95834
 Phone: (800) 988-7880

Z:\11115\100-003\BAC\101 Drawings\Closure\ARCO\CONTAMINATED ZONES PLAN AND SECTION.TAG



- LEGEND:**
- LABORATORY ANALYZED SOIL SAMPLE SHOWING CONCENTRATION OF TPH_g (RED), TPH_h (GREEN) AND TOG (BLUE) IN PPM
 - WELL CASING
 - WELL SCREEN
 - INITIAL WATER LEVEL IN BORING
 - STATIC WATER LEVEL IN WELL (2-22-93)
 - PROJECTED TANK PIT SAMPLE SHOWING CONCENTRATION OF TPH_g IN PPM

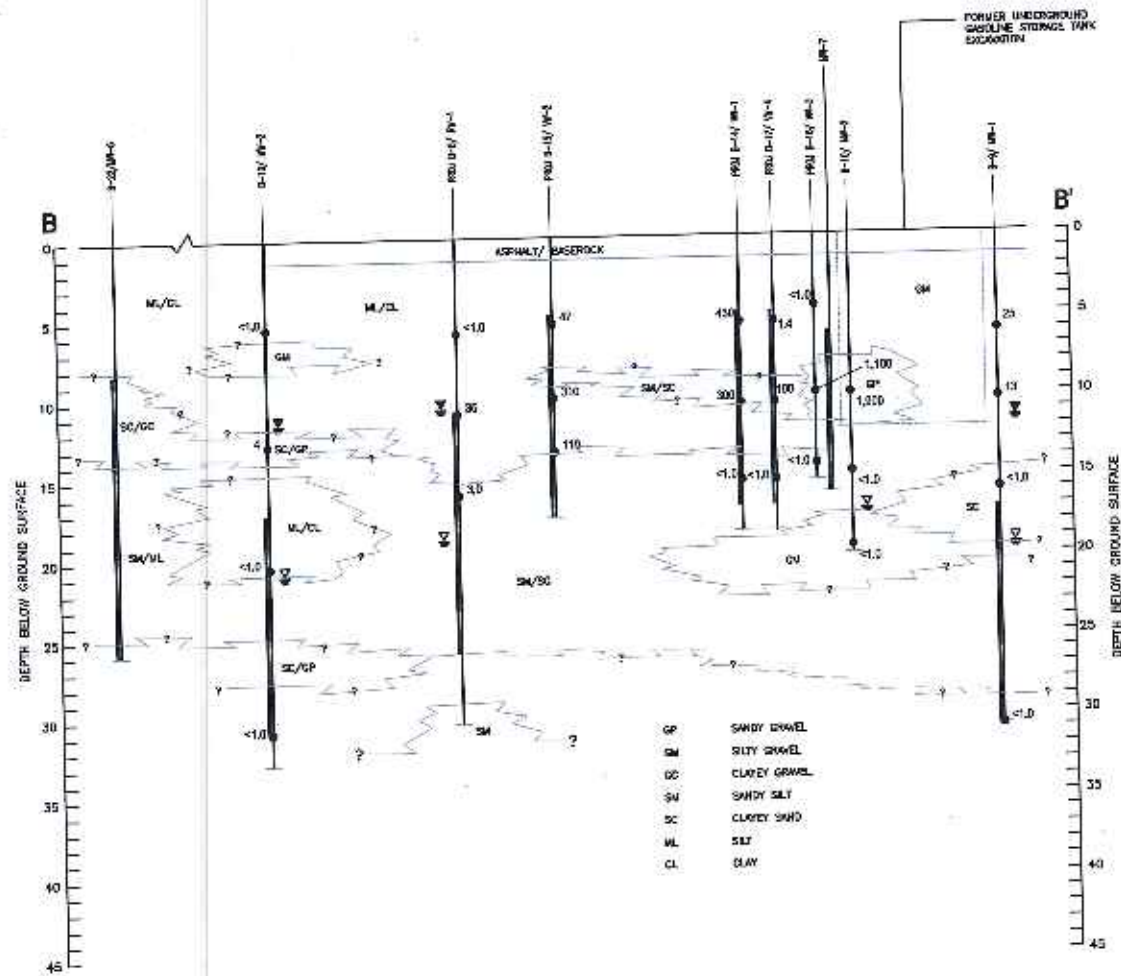
NOTES:
 CROSS-SECTION DETAILS AND ANALYTICAL ADAPTED FROM RESNA ENVIRONMENTAL 1992/1993

FIGURE 2
GEOLOGIC CROSS SECTION A-A'

ARCO STATION NO. 2055
 1001 SAN PABLO AVENUE
 ALBANY, CALIFORNIA

CLOSURE SOLUTIONS, INC.
 4600 Northgate Boulevard • Suite 230
 Sacramento • California • 95834
 Phone: (800) 988-7880

2011215 12:00:00 3/10/11 10:00:00 AM 3/10/11 10:00:00 AM 3/10/11 10:00:00 AM 3/10/11 10:00:00 AM



LEGEND:

- <1.0 LABORATORY ANALYZED SOIL SAMPLE SHOWING CONCENTRATION OF TPH₉ (RED), TPH₄ (GREEN) AND TOG (BLUE) IN PPM
- 71
- 43
- WELL CASING
- WELL SCREEN
- INITIAL WATER LEVEL IN BORING
- STATIC WATER LEVEL IN WELL (2-22-93)
- T45 PROJECTED TANK PIT SAMPLE SHOWING CONCENTRATION OF TPH₉ IN PPM
- <1.0

NOTES:

CROSS-SECTION DETAILS AND ANALYTICAL ADAPTED FROM RESNA ENVIRONMENTAL 1992/1993

FIGURE 3

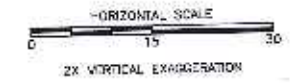
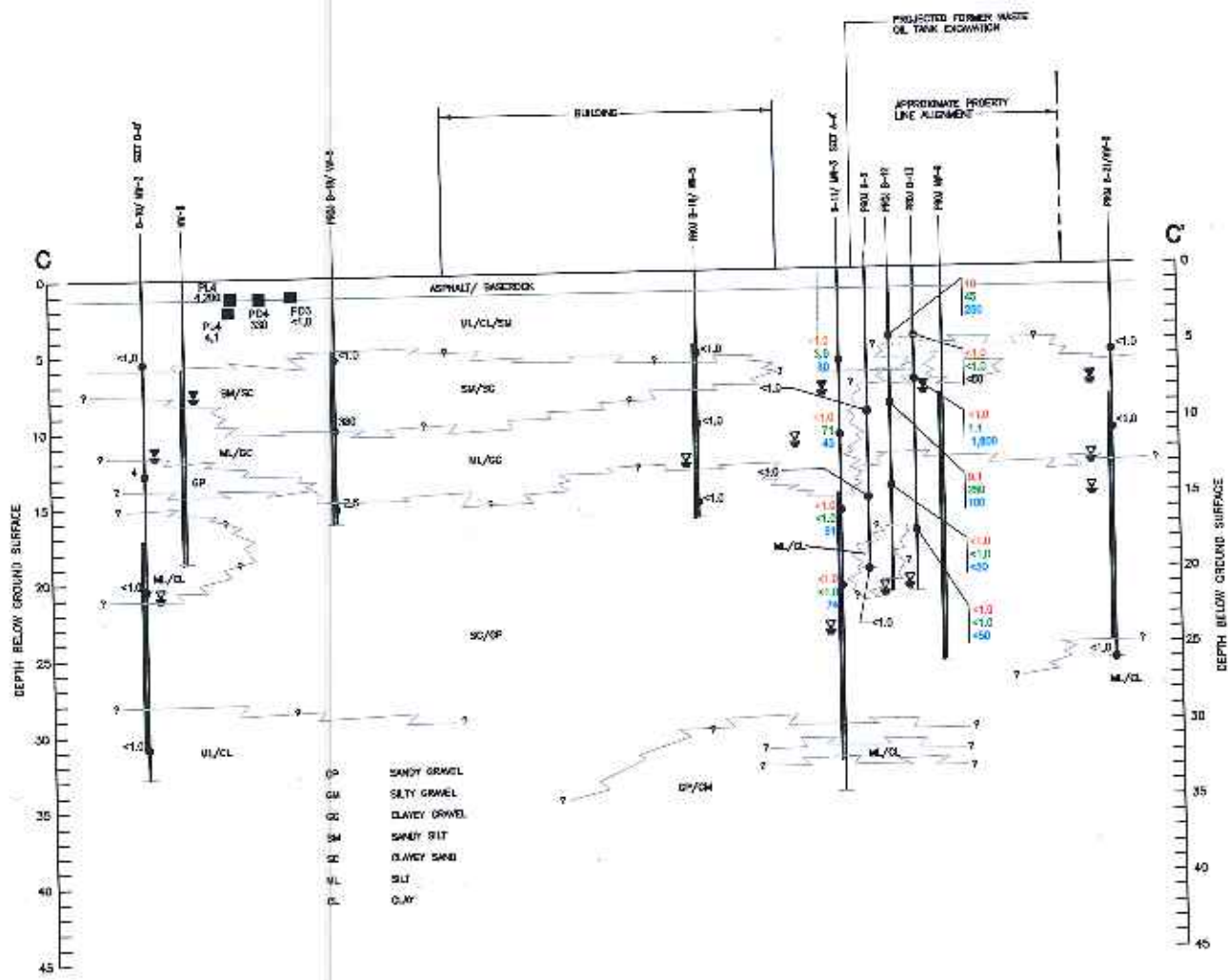
GEOLOGIC CROSS SECTION B-B'

ARCO STATION NO. 2055
1001 SAN PABLO AVENUE
ALBANY CALIFORNIA



4600 Northgate Boulevard • Suite 230
Sacramento • California • 95834
Phone: (916) 988-7880

2011.11.14/09022 05/01/11 1:43:00 PM 14.4 350 015.000



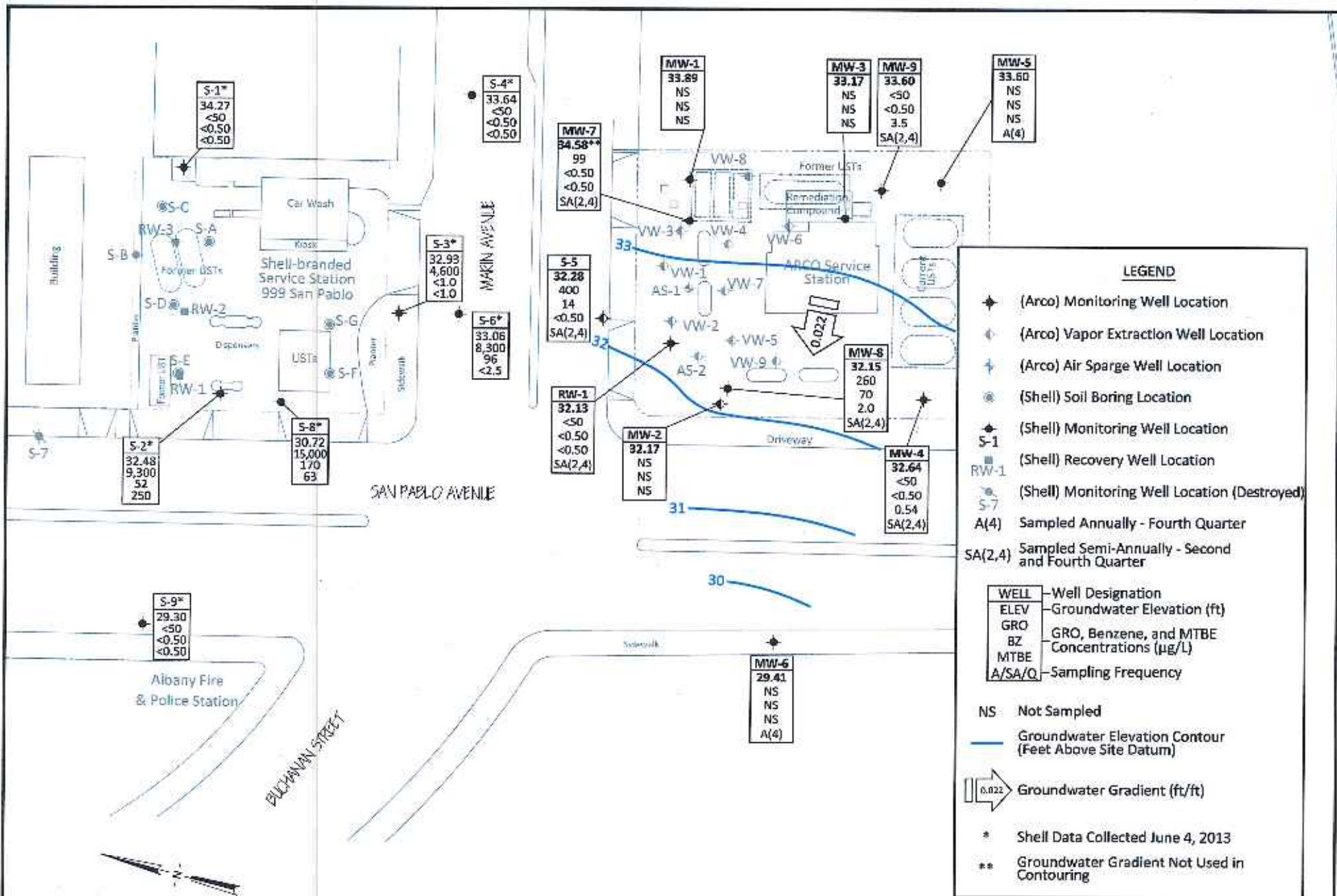
- LEGEND:**
- LABORATORY ANALYZED SOIL SAMPLE SHOWING CONCENTRATION OF TPH₄ (RED), TPH₃ (GREEN) AND TOG (BLUE) IN PPM
 -
 -
 - WELL CASING
 - WELL SCREEN
 - INITIAL WATER LEVEL IN BORING
 - STATIC WATER LEVEL IN WELL (2-22-93)
 - T4S PROJECTED TANK PIT SAMPLE SHOWING CONCENTRATION OF TPH₃ IN PPM
 - <1.0

NOTES:
 CROSS-SECTION DETAILS AND ANALYTICAL ADAPTED FROM RESNA ENVIRONMENTAL 1992/1993

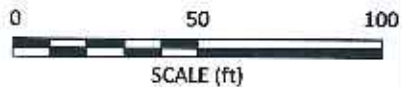
FIGURE 4
GEOLOGIC CROSS SECTION C-C'

ARCO STATION NO. 2085
 1001 SAN PABLO AVENUE
 ALBANY, CALIFORNIA

CLOSURE SOLUTIONS, INC.
 4600 Northgate Boulevard • Suite 250
 Sacramento • California • 95834
 Phone: (800) 988-7880



NOTE: INFORMATION FOR SHELL SERVICE STATION AND SITE MAP ADAPTED FROM CABRIA ENVIRONMENTAL FIGURE. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



BROADBENT
 1370 Ridgewood Dr., Suite 5
 Chico, California 95973
 Project No.: 06-88-610 Date: 7/11/2013

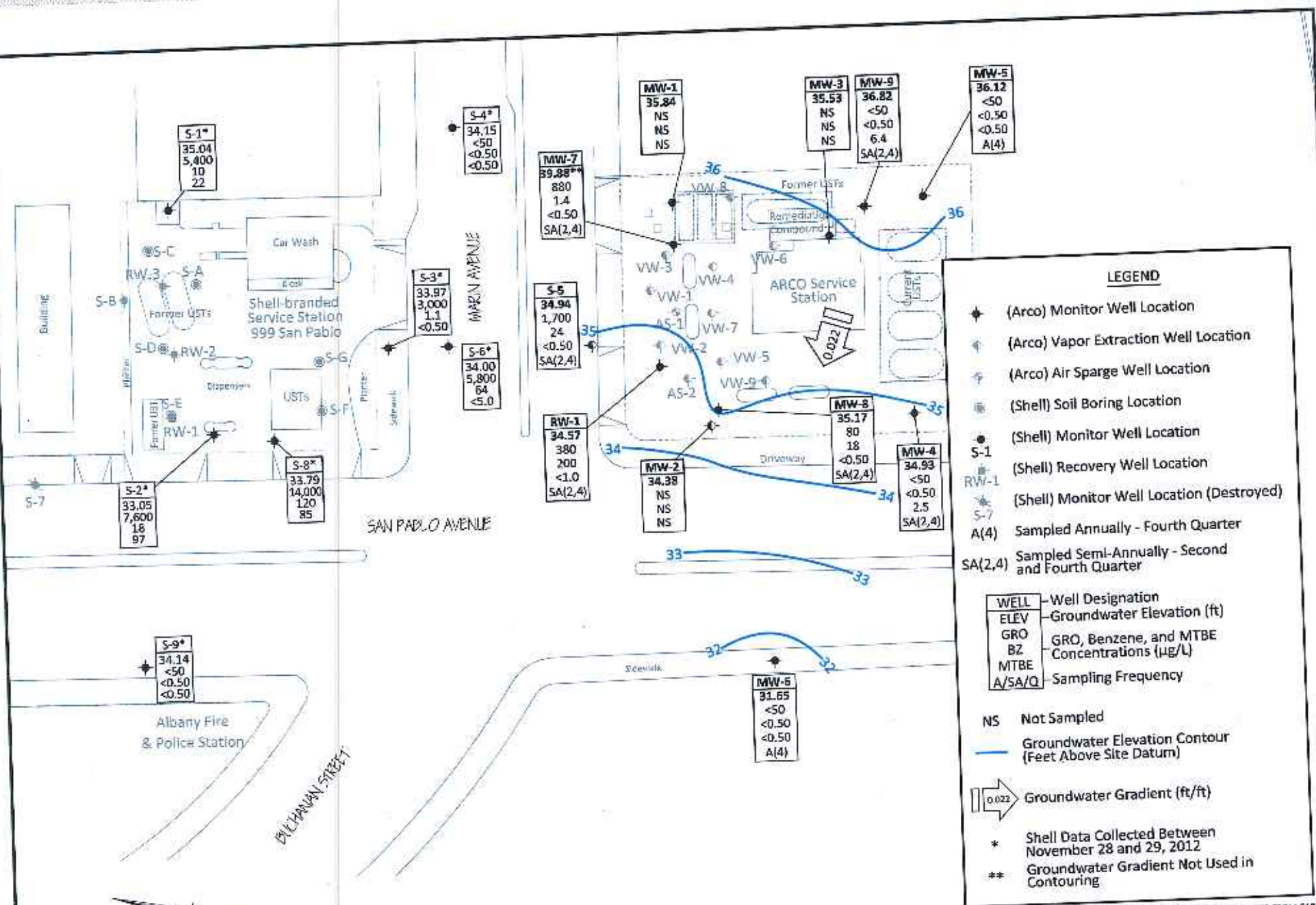
ARCO Service Station #2035
 1001 San Pablo Avenue
 Albany, California

Groundwater Elevation Contour Map
 June 4, 2013

Drawing

2

ATTACHMENT 3

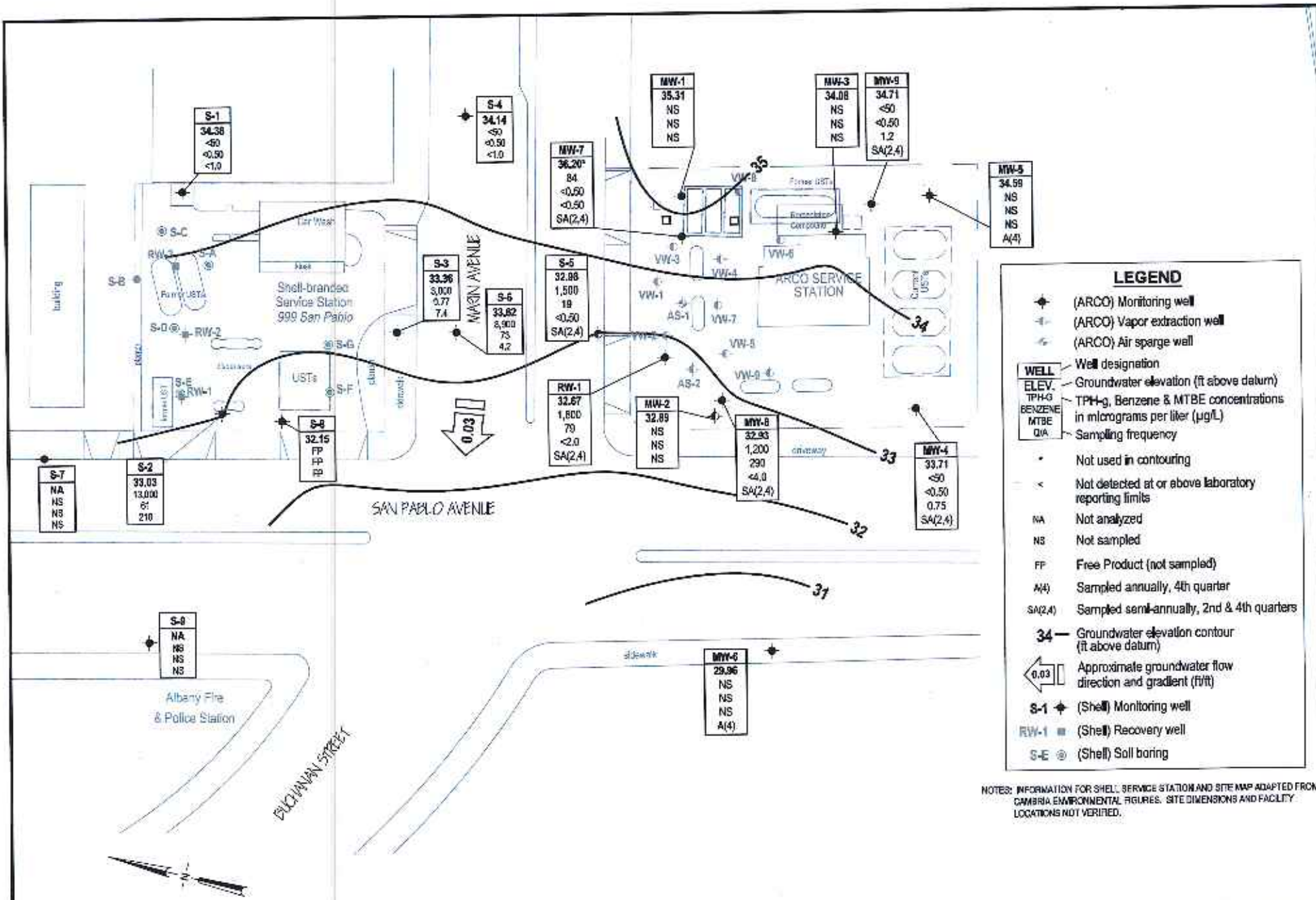


BROADBENT
 1370 Ridgewood Dr., Suite 5
 Chico, California 95973
 Project No.: 06-88-610 Date: 5/31/2013

ARCO Service Station #2035
 1001 San Pablo Avenue
 Albany, California

Groundwater Elevation Contour Map
 December 6, 2012

Drawing
3



LEGEND

- ◆ (ARCO) Monitoring well
- ⊖ (ARCO) Vapor extraction well
- ⊕ (ARCO) Air sparge well

Well designation

Groundwater elevation (ft above datum)

TPH-g, Benzene & MTBE concentrations in micrograms per liter (µg/L)

Sampling frequency

- Not used in contouring
- < Not detected at or above laboratory reporting limits
- NA Not analyzed
- NS Not sampled
- FP Free Product (not sampled)
- A(4) Sampled annually, 4th quarter
- SA(2,4) Sampled semi-annually, 2nd & 4th quarters

34 — Groundwater elevation contour (ft above datum)

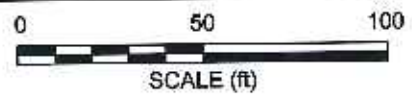
←0.03 — Approximate groundwater flow direction and gradient (ft/ft)

S-1 ◆ (Shell) Monitoring well

RW-1 ⊖ (Shell) Recovery well

S-E ⊙ (Shell) Soil boring

NOTES: INFORMATION FOR SHELL SERVICE STATION AND SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

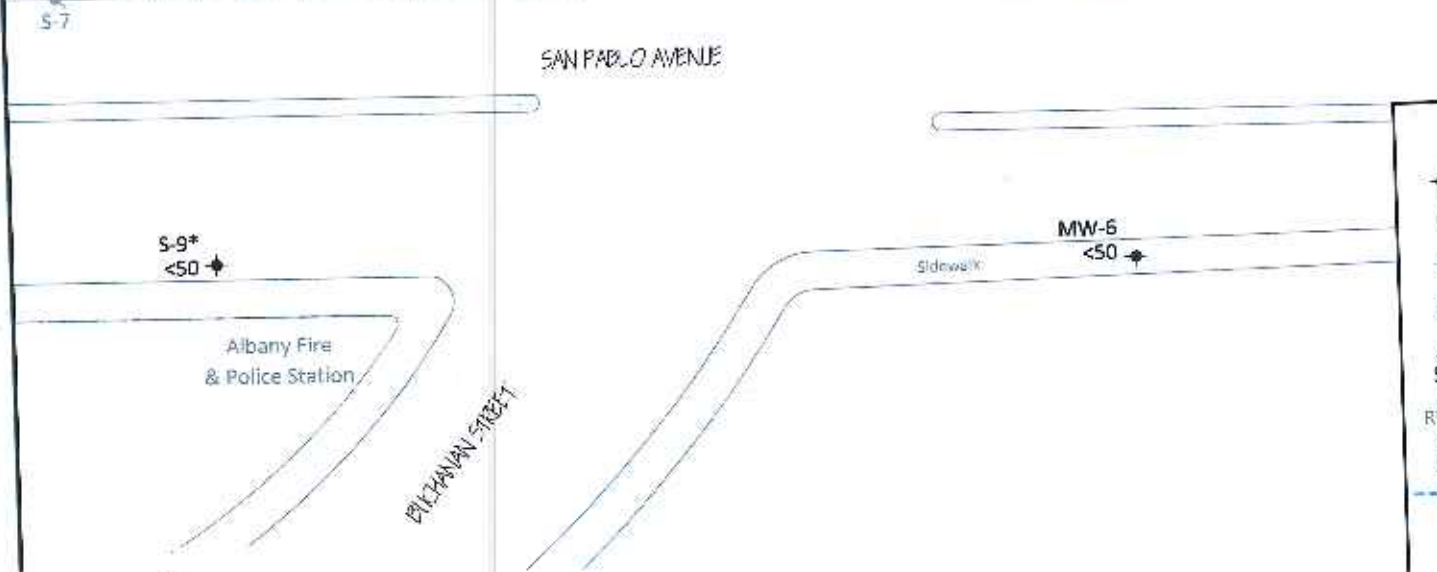
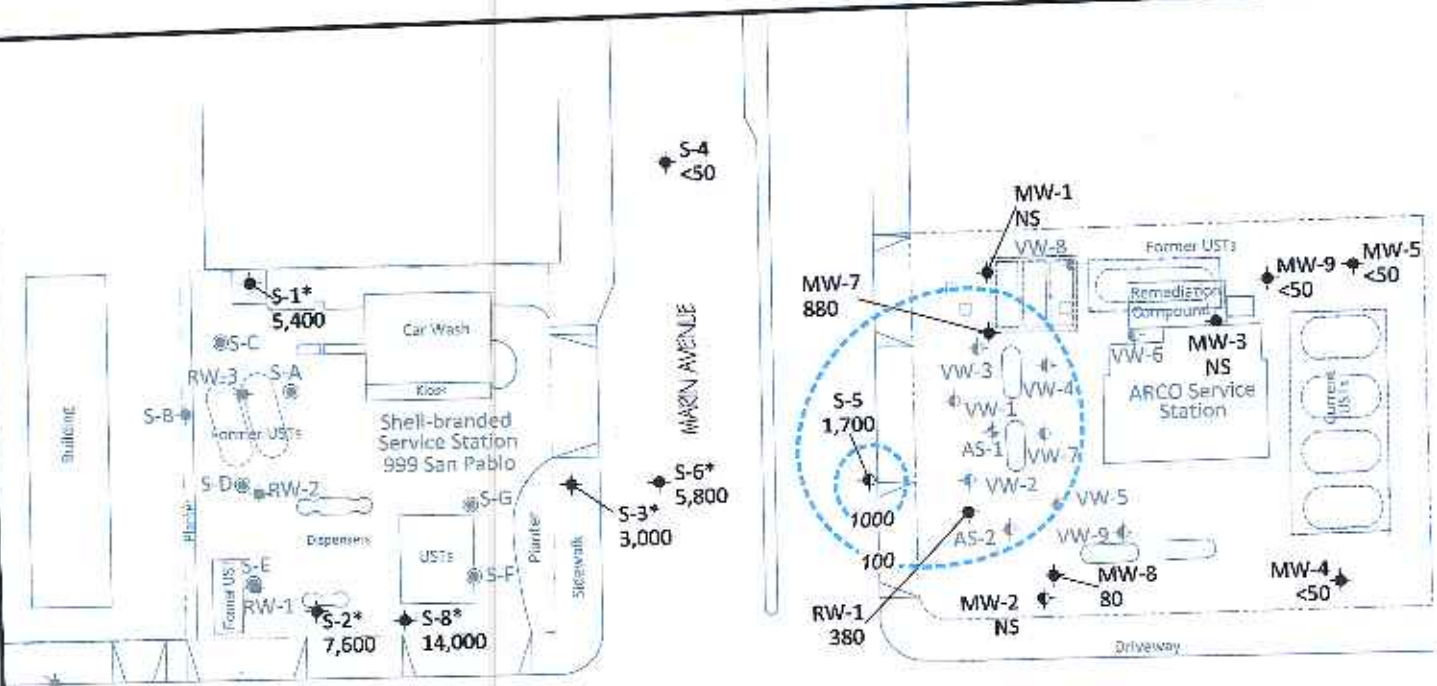


BROADBENT & ASSOCIATES, INC.
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
 1324 Mangrove Ave., Suite 212 Chico 95926
 Project No.: 06-88-610 Date: 7/11/2011

ARCO Service Station #2035
 1001 San Pablo Avenue
 Albany, California

Groundwater Elevation Contours
 and Analytical Summary Map
 11 May 2011

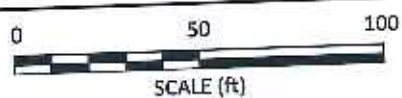
Drawing
2



LEGEND

- ◆ (Arco) Monitor Well Location
- ⊕ (Arco) Vapor Extraction Well Location
- + (Arco) Air Sparge Well Location
- ⊙ (Shell) Soil Boring Location
- ◆ (Shell) Monitor Well Location
- S-1 (Shell) Recovery Well Location
- RW-1 (Shell) Monitor Well Location (Destroyed)
- S-7 (Shell) Monitor Well Location (Destroyed)
- - - GRO Isoconcentration (µg/L)
- * Shell Data Collected Between November 28 and 29, 2012

NOTE: INFORMATION FOR SHELL SERVICE STATION AND SITE MAP ADAPTED FROM CAEBA ENVIRONMENTAL FIGURE. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

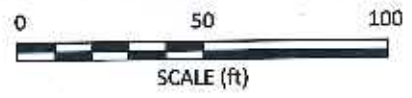
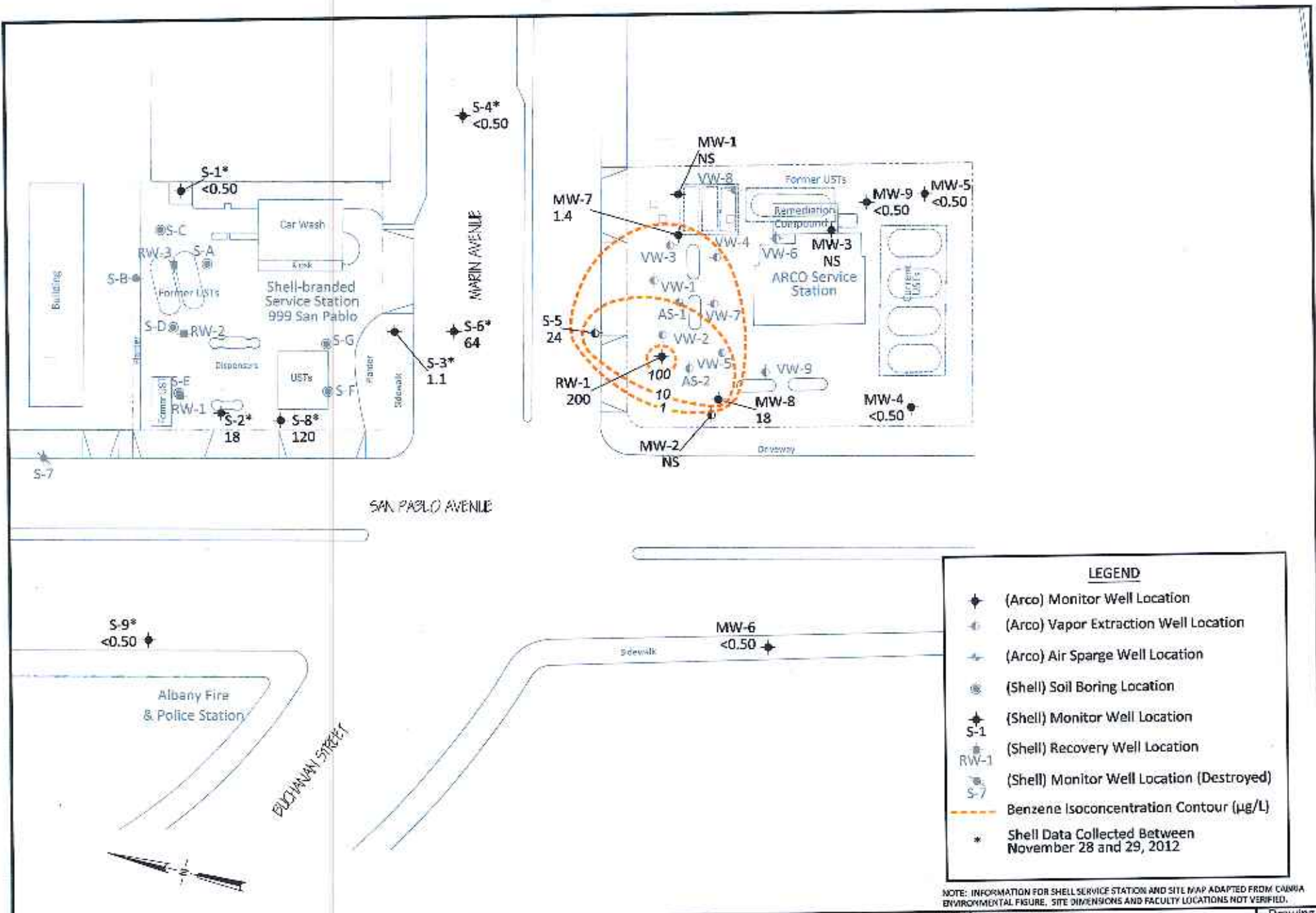


BROADBENT
 1370 Ridgewood Dr., Suite 5
 Chico, California 95973
 Project No.: 06-88-61.0 Date: 6/4/2013

ARCO Service Station #2035
 1001 San Pablo Avenue
 Albany, California

GRO Isoconcentration Contour Map
 December 6, 2012

Drawing
4

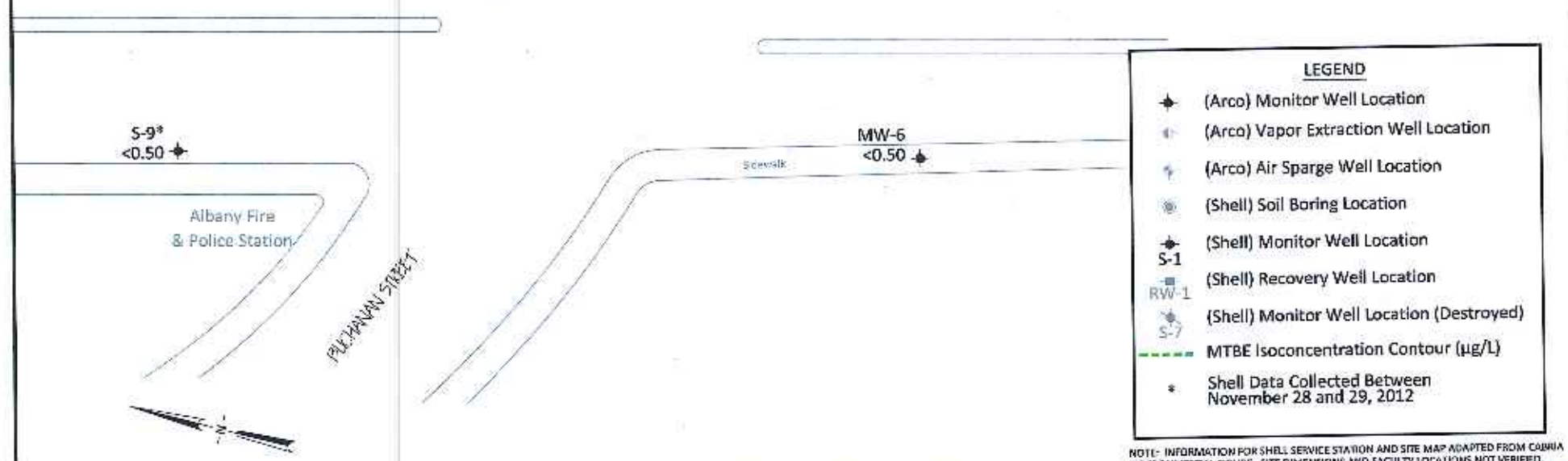
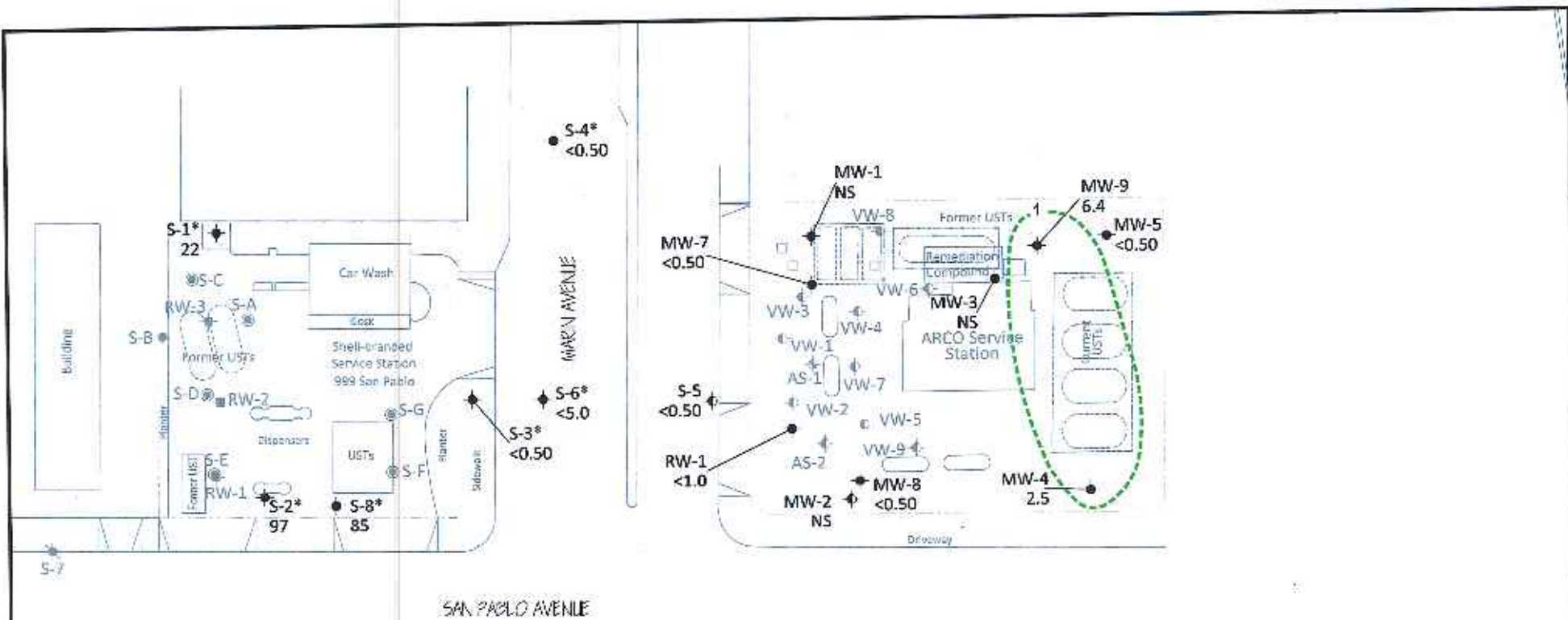


BROADBENT
 1370 Ridgewood Dr., Suite 5
 Chico, California 95973
 Project No.: 06-88-610 Date: 6/4/2013

ARCO Service Station #2035
 1001 San Pablo Avenue
 Albany, California

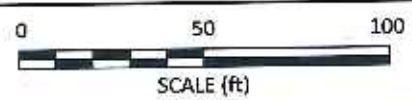
Benzene Isoconcentration Contour Map
 December 5, 2012

Drawing
5



LEGEND	
	(Arco) Monitor Well Location
	(Arco) Vapor Extraction Well Location
	(Arco) Air Sparge Well Location
	(Shell) Soil Boring Location
	(Shell) Monitor Well Location
	(Shell) Recovery Well Location
	(Shell) Monitor Well Location (Destroyed)
	MTBE Isoconcentration Contour ($\mu\text{g/L}$)
	Shell Data Collected Between November 28 and 29, 2012

NOTE: INFORMATION FOR SHELL SERVICE STATION AND SITE MAP ADAPTED FROM CABINA ENVIRONMENTAL FIGURE. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.

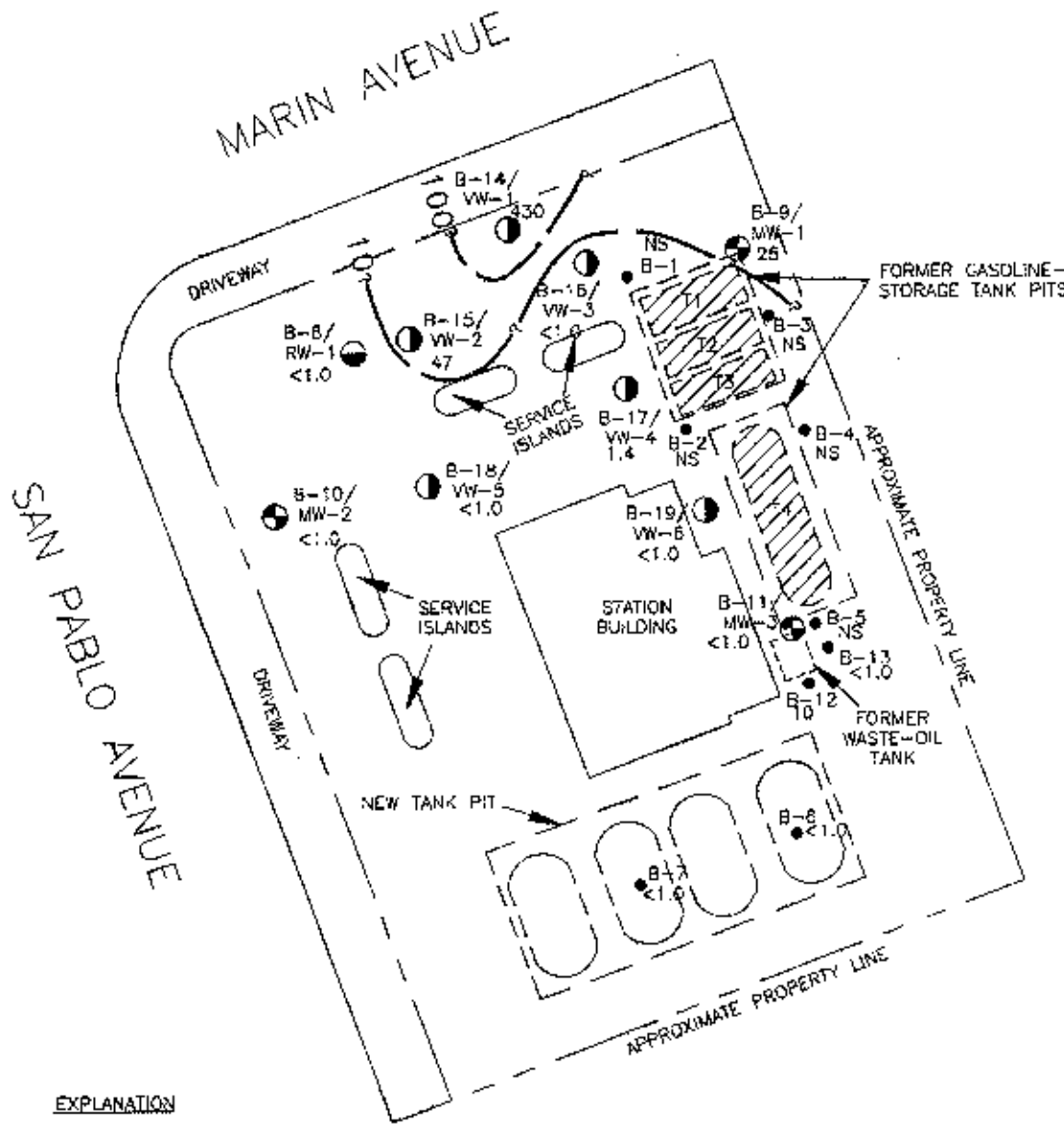


BROADBENT
 1370 Ridgewood Dr., Suite 5
 Chico, California 95973
 Project No.: 06-88-610 Date: 6/4/2013

ARCO Service Station #2035
 1001 San Pablo Avenue
 Albany, California

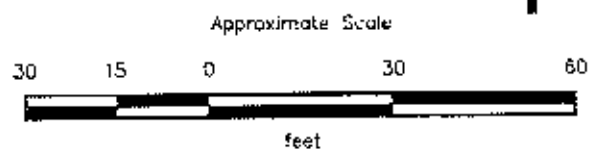
MTBE Isoconcentration Contour Map
 December 6, 2012

Drawing
6



EXPLANATION

- 100 = Line of equal concentration of TPHg in soil in parts per million (ppm)
- 430 = Concentration of TPHg in soil at depths between 4-1/2 and 6 feet, in ppm
- NS = Not sampled
- B-19/VW-6 = Boring/vapor extraction well (RESNA, August 1992)
- B-8/RW-1 = Boring/recovery well (Exceltech, October 1991)
- B-11/MW-3 = Boring/monitoring well (Exceltech, October 1991)
- B-13 = Soil boring (RESNA, August 1988, June 1991, and August 1992)



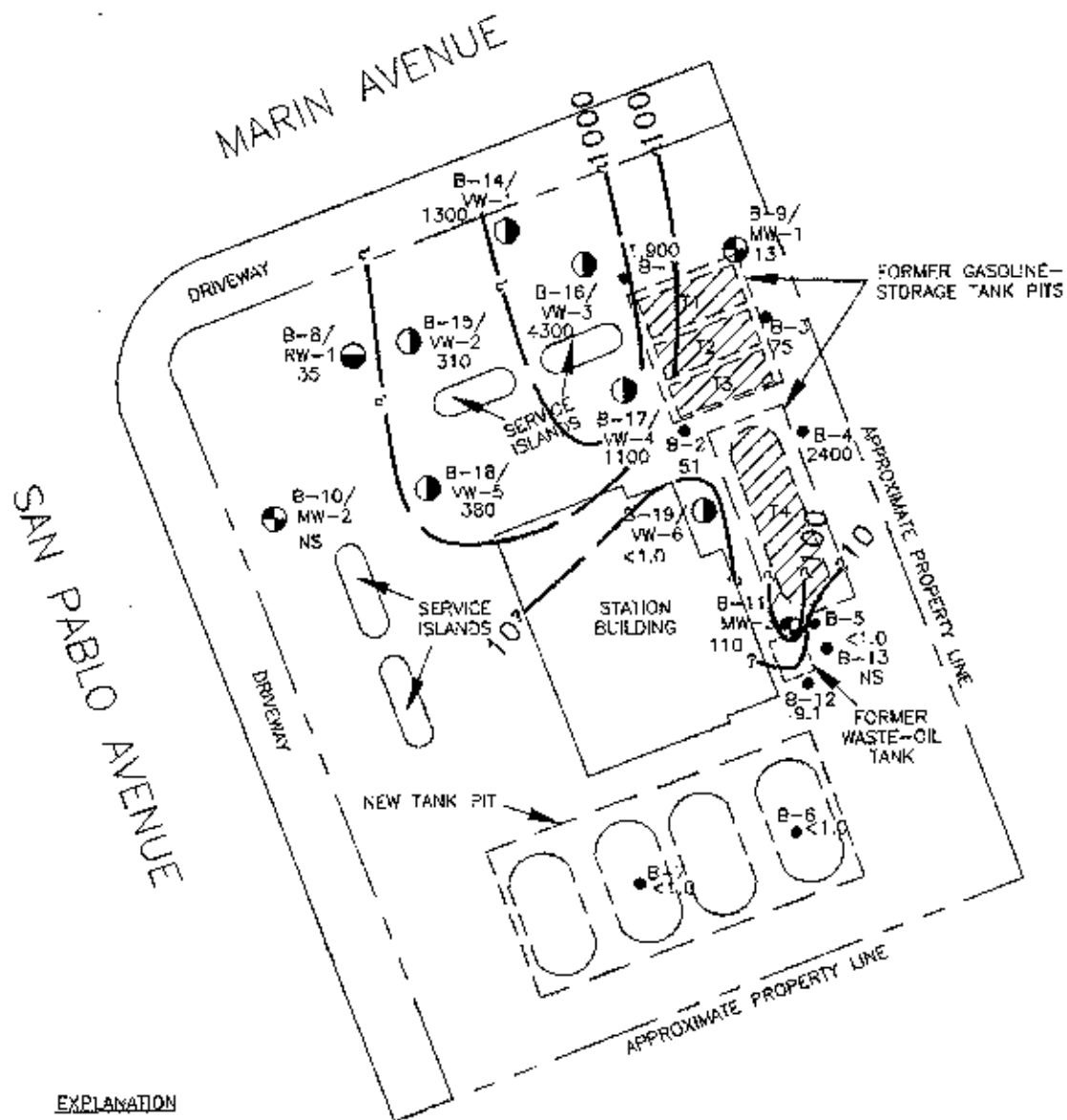
Source: Surveyed by John E. Koch, Land Surveyor.



**CONCENTRATION OF TPHg IN SOIL
AT DEPTHS OF 4-1/2 TO 6 FEET
ARCO Station 2035
1001 San Pablo Avenue
Albany, California**

**PLATE
9**

PROJECT 69036.06



EXPLANATION

- 1000 = Line of equal concentration of TPHg in soil in parts per million (ppm)
- 4300 = Concentration of TPHg in soil at depths between 9 and 11 feet, in ppm
- NS = Not sampled
- B-19/VW-6 = Boring/vapor extraction well (RESNA, August 1992)
- B-8/RW-1 = Boring/recovery well (Exceltech, October 1991)
- B-11/MW-3 = Boring/monitoring well (Exceltech, October 1991)
- B-13 = Soil boring (RESNA, August 1989, June 1991, and August 1992)



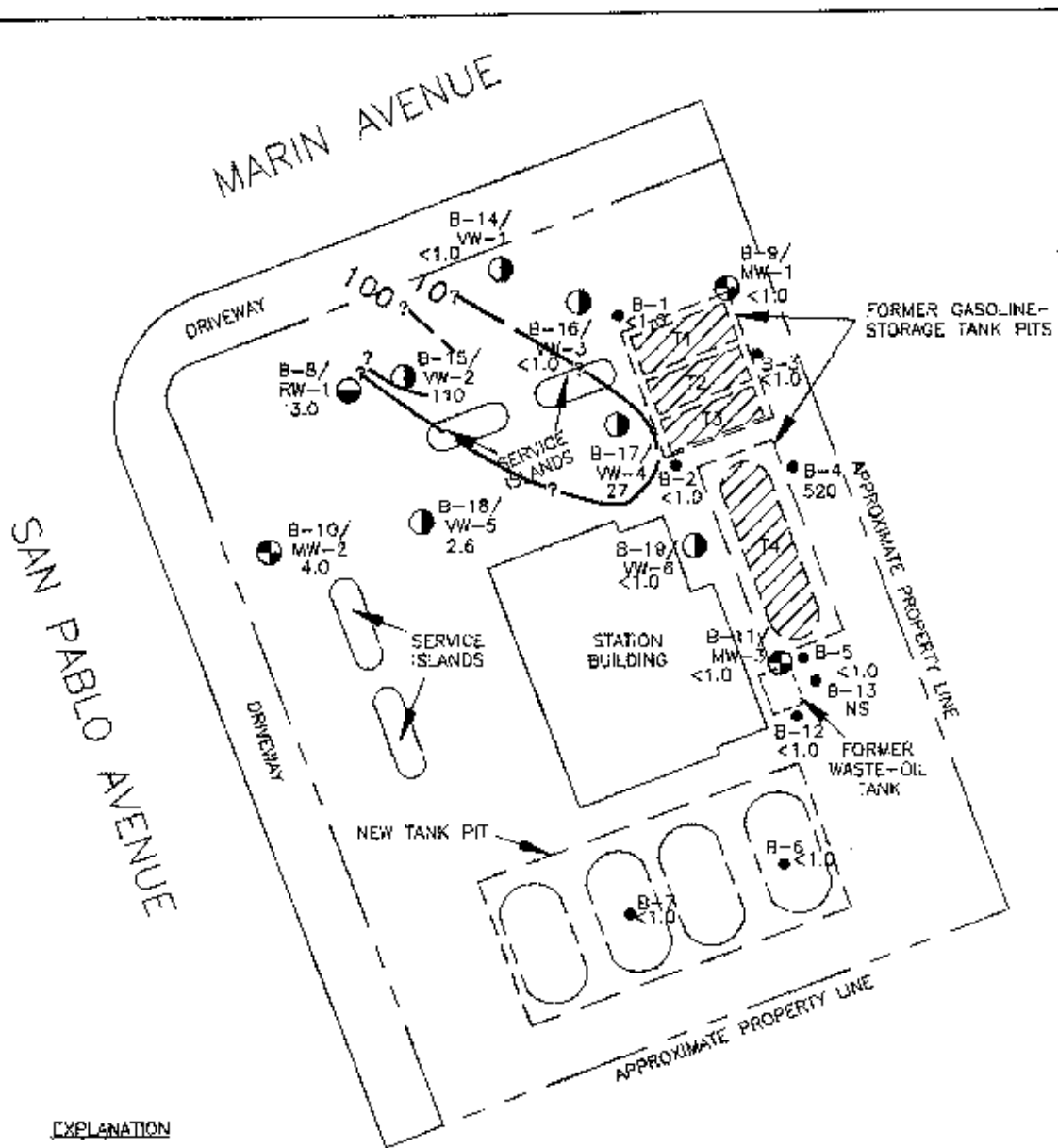
Source: Surveyed by John E. Kach, Land Surveyor.

RESNA
Working to Restore Nature

**CONCENTRATION OF TPHg IN SOIL
AT DEPTHS OF 9 TO 11 FEET
ARCO Station 2035
1001 San Pablo Avenue
Albany, California**

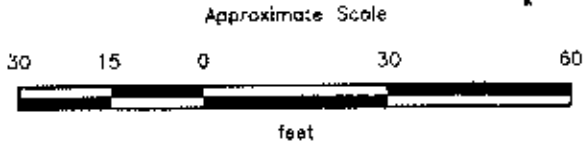
**PLATE
10**

PROJECT 69036.06



EXPLANATION

- 100 = Line of equal concentration of TPHg in soil in parts per million (ppm)
- 520 = Concentration of TPHg in soil at depths between 13 and 18 feet, in ppm
- NS = Not sampled
- B-19/VW-6 = Boring/vapor extraction well (RESNA, August 1992)
- B-8/RW-1 = Boring/recovery well (Exceltech, October 1991)
- B-11/MW-3 = Boring/monitoring well (Exceltech, October 1991)
- B-13 = Soil boring (RESNA, August 1989, June 1991, and August 1992)



Source: Surveyed by John E. Koch, Land Surveyor.



**CONCENTRATION OF TPHg IN SOIL
AT DEPTHS OF 13 TO 16 FEET
ARCO Station 2035
1001 San Pablo Avenue
Albany, California**

**PLATE
11**

PROJECT 69036.06

Table 2
Historical Soil Analytical Data

ARCO Service Station No. 2035
1001 San Pablo Avenue
Albany, California

Sample ID	Date Sampled	Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	B (mg/kg)	T (mg/kg)	F (mg/kg)	X (mg/kg)	1,2-DCA (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	Lead (mg/kg)
S-10-B1	8/1989	10	1,900	--	ND<4	15	8.0	53	--	--	--	--
S-15-B1	8/1989	15	ND<1.0	--	ND<0.005	0.006	ND<0.005	ND<0.005	--	--	--	--
S-19-1/2-B1	8/1989	19.5	ND<1.0	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--
S-10-B2	8/1989	10	51	--	1.9	0.35	0.81	4.0	--	--	--	--
S-14-1/2-B2	8/1989	14.5	ND<1.0	--	0.063	ND<0.005	ND<0.005	ND<0.005	--	--	--	--
S-20-B2	8/1989	20	ND<1.0	--	0.039	0.044	0.007	0.041	--	--	--	--
S-10-B3	8/1989	10	75	--	3.1	8.2	1.8	11	--	--	--	--
S-14-1/2-B3	8/1989	14.5	ND<1.0	--	0.21	ND<0.025	ND<0.025	0.039	--	--	--	--
S-20-B3	8/1989	20	ND<1.0	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--
S-10-B4	8/1989	10	2,400	--	33	140	40	220	--	--	--	--
S-15-B4	8/1989	15	520	--	ND<1	6.9	6.2	6.3	--	--	--	--
S-19-B4	8/1989	19	ND<1.0	--	ND<0.005	0.007	ND<0.005	ND<0.005	--	--	--	--
S-9-1/2-B5	8/1989	9.5	ND<1.0	--	0.007	0.006	ND<0.005	ND<0.005	--	--	--	--
S-15-B5	8/1989	15	ND<1.0	--	ND<0.005	0.006	ND<0.005	ND<0.005	--	--	--	--
S-20-B5	8/1989	20	ND<1.0	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--
S-51/2-B6	6/25/1991	5.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-101/2-B6	6/25/1991	10.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-151/2-B6	6/25/1991	15.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-17-B6	6/25/1991	17	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-51/2-B7	6/25/1991	5.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-101/2-B7	6/25/1991	10.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-151/2-B7	6/25/1991	15.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-17-B7	6/25/1991	17	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-181/2-B7	6/25/1991	18.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--

Table 2
Historical Soil Analytical Data

ARCO Service Station No. 2035
1001 San Pablo Avenue
Albany, California

Sample ID	Date Sampled	Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	1,2-DCA (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	Lead (mg/kg)
S-12-T1W	7/3/1991	12	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-12-T1E	7/3/1991	12	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-12-T2W	7/3/1991	12	ND<1.0	--	0.031	ND<0.0050	0.0080	ND<0.0050	--	--	--	--
S-12-T2E	7/3/1991	12	ND<1.0	--	0.019	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-12-T3W	7/3/1991	12	48	--	1.2	2.4	1.0	3.8	--	--	--	ND<0.05
S-12-T3E	7/3/1991	12	65	--	0.2	0.51	0.97	3.9	--	--	--	ND<0.05
S-13-T4N	7/3/1991	13	6.2	--	0.45	0.039	0.18	0.33	--	--	--	--
S-13-T4S	7/3/1991	13	ND<1.0	--	0.061 [0.160]	0.034	0.0080	0.15 [0.430]	--	--	--	--
S-15-EWC	7/8/1991	15	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-15-SE	7/8/1991	15	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-16-SW1	7/8/1991	16	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-15-SW	7/8/1991	15	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-15-NWC	7/8/1991	15	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-15-WWC	7/8/1991	15	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-15-NWF	7/8/1991	15	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-9-NNW	7/8/1991	9	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-8-NW	7/8/1991	8	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-15-NW	7/8/1991	15	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--

Table 2
Historical Soil Analytical Data

ARCO Service Station No. 2035
1001 San Pablo Avenue
Albany, California

Sample ID	Date Sampled	Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	1,2-DCA (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	Lead (mg/kg)
S-0709-NP1 (10')	7/9/1991	10	ND<1.0	--	0.025	0.027	0.0060	0.024	--	--	--	--
S-0709-NP2 (14')	7/9/1991	14	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-0709-NP3 (10')	7/9/1991	10	ND<1.0	--	ND<0.0050	0.0050	ND<0.0050	0.018	--	--	--	--
S-0709-NP4 (15')	7/9/1991	15	ND<1.0	--	0.0050	0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-0709-NP5 (5')	7/9/1991	5	ND<1.0	--	0.012	0.013	ND<0.0050	0.0080	--	--	--	--
S-0709-NP6 (15')	7/9/1991	15	ND<1.0	--	0.017	0.021	0.014	0.056	--	--	--	--
S-0709-NP7 (3')	7/9/1991	3	ND<1.0	--	0.0060	0.0060	ND<0.0050	ND<0.0050	--	--	--	--
S-0709-NP8 (14')	7/9/1991	14	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-0709-NP9 (9')	7/9/1991	9	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-0709-NP10 (10')	7/9/1991	10	ND<1.0	--	0.0090	0.0060	ND<0.0050	ND<0.0050	--	--	--	--
S-0709-NP11 (8')	7/9/1991	8	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-0709-NP12 (14')	7/9/1991	14	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-0709-NP13 (2')	7/9/1991	2	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-0709-NP14 (6')	7/9/1991	6	ND<1.0	--	ND<0.0050	ND<0.0050	0.0050	0.0080	--	--	--	--
S-0709-NP15 (5')	7/9/1991	5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	0.0060	--	--	--	--
S-0709-NP16 (16')	7/9/1991	16	ND<1.0	--	ND<0.0050	ND<0.0050	0.0050	0.0080	--	--	--	--
S-0709-NP17 (10')	7/9/1991	10	ND<1.0	--	ND<0.0050	ND<0.0050	0.0050	0.0080	--	--	--	--
S-0709-NP18 (11')	7/9/1991	11	ND<1.0	--	ND<0.0050	ND<0.0050	0.0050	0.0080	--	--	--	--

Table 2
Historical Soil Analytical Data

ARCO Service Station No. 2035
1001 San Pablo Avenue
Albany, California

Sample ID	Date Sampled	Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	1,2-DCA (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	Lead (mg/kg)
S-21/2-PL1	7/19/1991	2.5	ND<1.0	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--
S-21/2-PL2	7/19/1991	2.5	ND<1.0	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--
S-1-PL3	7/19/1991	1	1.7	--	0.005	0.02	0.016	0.12	--	--	--	--
S-1-PL4	7/19/1991	1	4,200	--	36	320	100	640	--	--	--	--
S-11/2-PL4	8/9/1991	1.5	4.1	--	0.21	0.04	0.15	0.12	--	--	--	--
S-1-PL5	7/19/1991	1	ND<1.0	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--
S-1-PL6	7/19/1991	1	ND<1.0	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--
S-1-PL7	7/19/1991	1	11	--	0.10	0.37	0.16	1.2	--	--	--	--
S-1-PL8	7/19/1991	1	1,900	--	3.6	28	29	200	--	--	--	--
S-1-PL9	7/19/1991	1	110	--	0.2	0.78	0.36	3.1	--	--	--	--
S-1-PL10	7/19/1991	1	84	--	0.09	0.43	0.72	2.8	--	--	--	--
S-21/2-PD1	7/19/1991	2.5	ND<1.0	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--
S-21/2-PD2	7/19/1991	2.5	ND<1.0	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--
S-1-PD3	7/19/1991	1	ND<1.0	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--
S-1-PD4	7/19/1991	1	330	--	ND<0.005	ND<0.005	ND<0.005	12	--	--	--	--
S-1-PD5	7/19/1991	1	ND<1.0	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--
S-1-PD6	7/19/1991	1	87	--	0.13	0.28	0.48	3.8	--	--	--	--
S-1-PD7	7/19/1991	1	1,000	--	0.35	2.1	1.1	47	--	--	--	--
S-1-PD8	7/19/1991	1	ND<1.0	--	ND<0.005	ND<0.005	ND<0.005	ND<0.005	--	--	--	--

Table 2
Historical Soil Analytical Data

ARCO Service Station No. 2035
1001 San Pablo Avenue
Albany, California

Sample ID	Date Sampled	Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	1,2-DCA (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	Lead (mg/kg)
S-6-B8	10/1991	6	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-11-B8	10/1991	11	35	--	1.2	1.7	0.42	2.0	--	--	--	--
S-16-B8	10/1991	16	3.0	--	0.45	0.13	0.11	0.47	--	--	--	--
*S-30-B8	10/1991	30	240	--	3.6	5	4.1	16	--	--	--	--
S-6-B9	10/1991	6	25	--	0.60	0.58	0.44	1.8	--	--	--	--
S-101/2-B9	10/1991	10.5	13	--	0.74	0.72	0.18	0.95	--	--	--	--
S-16-B9	10/1991	16	ND<1.0	--	0.015	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-31-B9	10/1991	31	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-51/2-B10	10/1991	5.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-13-B10	10/1991	13	4.0	--	0.13	0.15	0.041	0.16	--	--	--	--
S-201/2-B10	10/1991	20.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-301/2-B10	10/1991	30.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	7.7
S-6-B11	10/1991	6	ND<1.0	3.9	0.010	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	5.8
S-11-B11	10/1991	11	110	71	ND<0.0050	ND<0.0050	ND<0.0050	0.27	--	--	--	7.5
S-16-B11	10/1991	16	ND<1.0	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	7.2
S-21-B11	10/1991	21	ND<1.0	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	7.2

Table 2
Historical Soil Analytical Data

ARCO Service Station No. 2035
1001 San Pablo Avenue
Albany, California

Sample ID	Date Sampled	Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	1,2-DCA (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	Lead (mg/kg)
S-41/2-B12	8/1992	4.5	10	45	ND<0.0050	ND<0.0050	0.0070	0.050	--	--	--	ND<5.0
S-9-B12	8/1992	9	9.1	250	ND<0.0050	ND<0.0050	0.0060	0.082	--	--	--	ND<5.0
S-141/2-B12	8/1992	14.5	ND<1.0	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	7.4
S-41/2-B13	8/1992	4.5	ND<1.0	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	ND<5.0
S-71/2-B13	8/1992	7.5	ND<1.0	1.1	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	ND<5.0
S-171/2-B13	8/1992	17.5	ND<1.0	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	5.6
S-51/2-B14	8/1992	5.5	430	--	4.0	16	7.3	42	--	--	--	--
S-101/2-B14	8/1992	10.5	1,300	--	20	82	31	170	--	--	--	--
S-151/2-B14	8/1992	15.5	ND<1.0	--	0.012	0.034	0.011	0.055	--	--	--	--
S-51/2-B15	8/1992	5.5	47	--	0.22	0.56	0.76	4.3	--	--	--	--
S-10-B15	8/1992	10	310	--	3.8	15	7.1	37	--	--	--	--
S-131/2-B15	8/1992	13.5	110	--	1.5	4.3	2.1	12	--	--	--	--
S-41/2-B16	8/1992	4.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-10-B16	8/1992	10	4,300	--	21	110	51	580	--	--	--	--
S-141/2-B16	8/1992	14.5	ND<1.0	--	0.010	0.032	0.018	0.18	--	--	--	--
S-51/2-B17	8/1992	5.5	1.4	--	0.045	0.0080	ND<0.0050	0.028	--	--	--	--
S-101/2-B17	8/1992	10.5	1,100	--	16	71	27	140	--	--	--	--
S-151/2-B17	8/1992	15.5	27	--	2.1	0.40	0.75	1.3	--	--	--	--
S-51/2-B18	8/1992	5.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-101/2-B18	8/1992	10.5	380	--	4.8	21	8.7	46	--	--	--	--
S-151/2-B18	8/1992	15.5	2.6	--	0.78	0.48	0.059	0.29	--	--	--	--
S-51/2-B19	8/1992	5.5	ND<1.0	--	0.017	0.0090	ND<0.0050	ND<0.0050	--	--	--	--
S-101/2-B19	8/1992	10.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-151/2-B19	8/1992	15.5	ND<1.0	--	0.15	0.012	0.029	0.032	--	--	--	--

Table 2
Historical Soil Analytical Data

ARCO Service Station No. 2035
1001 San Pablo Avenue
Albany, California

Sample ID	Date Sampled	Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	1,2-DCA (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	Lead (mg/kg)
S-51/2-B20	11/1992	5.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-91/2-B20	11/1992	9.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-28-B20	11/1992	28	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-51/2-B21	11/1992	5.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-101/2-B21	11/1992	10.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-26-B21	11/1992	26	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-51/2-B22	11/1992	5.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-111/2-B22	11/1992	11.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-26-B22	11/1992	26	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-5-B23	6/1993	5	20	--	0.22	0.45	0.20	0.76	--	--	--	--
S-10-B23	6/1993	10	490	--	4.9	19	8.3	50	--	--	--	--
S-15-B23	6/1993	15	ND<1.0	--	0.33	0.012	0.014	0.014	--	--	--	--
S-6-B24	6/1993	6	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-101/2-B24	6/1993	10.5	310	--	3.8	15	6.6	38	--	--	--	--
S-141/2-B24	6/1993	14.5	ND<1.0	--	0.014	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-51/2-B25	6/1993	5.5	630	--	1.7	0.40	13	36	--	--	--	--
S-91/2-B25	6/1993	9.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-15-B25	6/1993	15	ND<1.0	--	0.017	0.022	ND<0.0050	0.014	--	--	--	--
S-5-B26	6/1993	5	1,600	--	7.7	45	28	170	--	--	--	--
S-15-B26	6/1993	15	ND<1.0	--	0.18	0.019	0.015	0.047	--	--	--	--
S-31-B26	6/1993	31	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-71/2-B27	6/1993	7.5	690	--	7.4	25	13	64	--	--	--	--
S-12-B27	6/1993	12	660	--	8.8	33	14	76	--	--	--	--
S-161/2-B27	6/1993	16.5	ND<1.0	--	0.061	0.040	0.0090	0.040	--	--	--	--
S-191/2-B27	6/1993	19.5	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--
S-31-B27	6/1993	31	ND<1.0	--	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	--	--	--	--

Table 2
Historical Soil Analytical Data

ARCO Service Station No. 2035
1001 San Pablo Avenue
Albany, California

Sample ID	Date Sampled	Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	1,2-DCA (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	Lead (mg/kg)
MW-7 8'	3/26/2009	8	ND<0.50	--	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.010	--
MW-7 13'	3/26/2009	13	200	--	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<0.10	ND<1.0	--
MW-7 14'	3/26/2009	14	860	--	ND<0.10	ND<0.10	1.9	0.10	ND<0.10	ND<0.10	ND<1.0	--
MW-7 15'	3/26/2009	15	5.2	--	ND<0.0010	ND<0.0010	0.024	0.020	ND<0.0010	ND<0.0010	ND<0.010	--
MW-8 11'	3/26/2009	11	4.1	--	0.51	ND<0.10	0.29	1.2	ND<0.10	ND<0.10	ND<1.0	--
MW-8 13'	3/26/2009	13	74	--	1.8	1.7	4.3	20	ND<0.10	ND<0.10	ND<1.0	--
MW-8 16'	3/26/2009	16	ND<0.50	--	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	0.0021	0.0013	0.068	--
MW-8 19'	3/26/2009	19	ND<0.50	--	0.0011	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	0.0074	0.021	--
MW-9 8'	3/26/2009	8	11	--	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.010	--
MW-9 9'	3/26/2009	9	110	--	ND<0.0010	0.0013	ND<0.0010	0.0010	ND<0.0010	ND<0.0010	ND<0.010	--
MW-9 11'	3/26/2009	11	61	--	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.010	--
MW-9 13'	3/26/2009	13	ND<0.50	--	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.0010	ND<0.010	--

Table 2
Historical Soil Analytical Data

ARCO Service Station No. 2035
 1001 San Pablo Avenue
 Albany, California

Sample ID	Date Sampled	Depth (feet bgs)	TPHg (mg/kg)	TPHd (mg/kg)	B (mg/kg)	T (mg/kg)	F (mg/kg)	X (mg/kg)	1,2-DCA (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	Lead (mg/kg)
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ABBREVIATIONS:

- Bold** = Detection above laboratory reporting limits
- 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 by EPA Method 5030/8015/8020
- T = Toluene by EPA Method 5030/8015/8020
- E = Ethylbenzene by EPA Method 5030/8015/8020
- X = Total xylenes by EPA Method 5030/8015/8020
- MTBE = Methyl tertiary butyl ether by EPA Method 8020/8260
- TBA = Tertiary butyl alcohol
- 1,2-DCA = 1,2-Dichloroethane
- bgs = Below ground surface
- mg/kg = Milligrams per kilogram (parts per million [ppm])
- ND< = Not detected at or above reporting limit
- ND = Detection limit varied for different compounds
- = Constituent not analyzed
- * = Sample collected from the saturated zone, analyzed for site characterization purposes
- [] = Result measured by EPA Method 8240
- unk = Unknown

Background information, including but not limited to previous field measurements, analytical results, Site plans, and other data have been obtained from previous consultants, and/or third parties, in the preparation of this report. Closure Solutions has relied on this information as furnished. Closure Solutions is not responsible for, nor has it confirmed the accuracy of data collected or generated by others.

Table 3
Additional Soil Analytical Data

ARCO Service Station No. 2035
1001 San Pablo Avenue
Albany, California

Sample ID	Date Sampled	Depth (feet bgs)	TOG (mg/kg)	VOCs (mg/kg)	SVOCs (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)	PCBs (mg/kg)
S-13-T48	7/3/1991	13	ND<30	ND	--	--	--	--	--	--
S-6-B11	Oct-91	6	80	ND	--	ND<0.50	49	97	41	--
S-11-B11	Oct-91	11	43	ND	--	ND<0.50	80	77	69	--
S-16-B11	Oct-91	16	57	ND	--	ND<0.50	33	25	45	--
S-21-B11	Oct-91	21	74	ND	--	ND<0.50	39	32	56	--
S-41/2-B12	Aug-92	4.5	250	ND	ND	ND<0.50	59	58	40	ND
S-9-B12	Aug-92	9	100	ND	ND	ND<0.50	42	46	37	ND
S-141/2-B12	Aug-92	14.5	ND<50	ND	ND	ND<0.50	49	49	69	ND
S-41/2-B13	Aug-92	4.5	ND<50	ND	ND	ND<0.50	68	65	43	ND
S-71/2-B13	Aug-92	7.5	1,800	ND	ND	ND<0.50	51	81	46	ND
S-171/2-B13	Aug-92	17.5	ND<50	ND	ND	ND<0.50	43	51	69	ND

Table 3
Additional Soil Analytical Data

ARCO Service Station No. 2035
 1001 San Pablo Avenue
 Albany, California

Sample ID	Date Sampled	Depth (feet bgs)	TOG (mg/kg)	VOCs (mg/kg)	SVOCs (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)	PCBs (mg/kg)
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ABBREVIATIONS:

Bold	=	Detection above laboratory reporting limits
TOG	=	Total oil and grease
VOCs	=	Volatile organic compounds
SVOCs	=	Semi-volatile organic compounds
PCBs	=	Polychloro-biphenyls
bgs	=	Below ground surface
mg/kg	=	Milligrams per kilogram (parts per million [ppm])
ND<	=	Not detected at or above reporting limit
ND	=	Detection limit varied for different compounds
--	=	Constituent not analyzed

LIMITATIONS:

Background information, including but not limited to previous field measurements, analytical results, Site plans, and other data have been obtained from previous consultants, and/or third parties, in the preparation of this report. Closure Solutions has relied on this information as furnished. Closure Solutions is not responsible for, nor has it confirmed the accuracy of data collected or generated by others.

**Table 1 - Soil Vapor Sampling Field Data, 31 March 2011
Station #2035, 1001 San Pablo Avenue, Albany, California**

Sample ID	COA# ⁽¹⁾	Can# ⁽²⁾	Static Leak Test		Purging		cc	Sampling			Elapsed	Helium Percent				
			Start Time	End Time	Start Vac.	End Vac.		End Time	Start Time	End Time		Start Vac.	End Vac.	Low	High	Average
SG-1	A251	LC172	10:26	10:37	-16	-16	185	10:56	11:00	11:05	0:05	-31	-5	16.7	20	17.7
SG-2	A290	LC119	11:34	11:44	-15	-15	233	11:45	11:53	12:01	0:08	-30	-5	21	26	24.2
SG-3	Soil gas implant submerged - no sample collected															
SG-4	Soil gas implant submerged - no sample collected															
SG-5	A305	LC189	13:54	14:04	-15	-15	210	14:08	14:09	14:14	0:05	-30	-5	14	18	15.5
Ambient	A201	LC398	n/a	n/a	n/a	n/a	n/a	n/a	14:51	14:56	0:05	-31	-5	n/a	n/a	n/a

Notes:

- (1) COA# = Critical Orifice Assembly Number (Laboratory-supplied flow regulator; 0.0060 inch orifice, approximately 200 standard cubic centimeters per minute).
- (2) Can# = Laboratory-supplied 1-liter Summa canister tracking number.
- (3) Vacuums measured in inches Mercury.
- (4) n/a = Not applicable/not available; data not collected in the field.

**Table 2 - Soil Vapor Sampling Laboratory Analytical Results, 31 March 2011
Station #2035, 1001 San Pablo Avenue, Albany, California**

Sample ID	GRO (C6-C12) (mg/m ³)	Benzene (mg/m ³)	Toluene (mg/m ³)	Ethyl- benzene (mg/m ³)	Total Xylenes (mg/m ³)	MTBE (mg/m ³)	ETBE (mg/m ³)	DIPE (mg/m ³)	TAME (mg/m ³)	TBA (mg/m ³)	Ethanol (mg/m ³)	Helium (%)	Oxygen + Carbon		Methane (%)
													Argon (%)	Dioxide (%)	
SG-1	<54	0.0026	0.011	<0.0030	<0.012	<0.010	<0.012	<0.012	<0.012	<0.0085	<0.013	0.951	5.38	6.65	<0.700
SG-2	<56	<0.0023	<0.0028	<0.0032	<0.013	<0.011	<0.012	<0.012	<0.012	<0.0089	<0.014	0.0172	11.8	5.46	<0.735
SG-5	<59	<0.0025	0.0039	<0.0034	<0.013	<0.011	<0.013	<0.013	<0.013	<0.0094	<0.015	0.543	5.12	5.89	<0.775
Ambient	<49	<0.0021	0.0082	<0.0028	<0.011	<0.0093	<0.011	<0.011	<0.011	<0.0078	0.032	<0.0129	20.6	<0.645	<0.645
ESL-Com.	29 mg/m ³	0.280	180	3.30	58.0	31.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Notes:

- (1) GRO analysis by EPA TO-15; Benzene through Ethanol analysis by EPA TO-15; He/Q+Ar/CO₂/CH₄ analysis by ASTM D-1946.
- (2) <X = Not detected above the given laboratory reporting limit (X) in milligrams per cubic meter (mg/m³).
- (3) ESL-Com = Environmental Screening Level for shallow soil gas (commercial or industrial land use), from California Regional Water Quality Control Board, San Francisco Bay Region (SFBRWQCB), May 2008.
- (4) n/a = ESL not available or not applicable.

**Table 3 - Summa Canister Soil Vapor Sampling Field Data, 14 May 2010
Station #2035, 1001 San Pablo Avenue, Albany, California**

Sample ID	COA# ⁽¹⁾	Can# ⁽²⁾	Static Leak Test		Purging (COA# 217, Can.# D718)					Sampling						
			Start Time	End Time	Start Vac.	End Vac.	Start Time	End Time	Elapsed	Start Vac.	End Vac.	Start Time	End Time	Elapsed	Start Vac.	End Vac.
SG-1	A461	D172	14:48	14:53	-30	-30	14:53	15:00	0:07	-8	-3	15:00	15:35	0:35	-30	-5
SG-2	A317	D339	13:44	13:50	-30	-30	13:50	13:56	0:06	-11	-8	13:56	14:25	0:29	-30	-5
SG-3	A127	D584	11:23	11:31	-30	-30	11:31	11:36	0:05	-21	-15	11:36	12:06	0:30	-30	-5
SG-4	A247	D702	9:27	9:33	-30	-30	9:33	9:39	0:06	-30	-26	9:39	10:11	0:32	-30	-5
SG-4 dup ⁽⁴⁾	A132	D737	10:16	10:21	-30	-30	10:21	10:27	0:06	-26	-21	10:27	10:57	0:30	-30	-5
SG-5	A307	D701	12:29	12:35	-30	-30	12:35	12:40	0:05	-15	-11	12:40	13:25	0:45	-30	-5

Notes:

- (1) COA# = Critical Orifice Assembly Number (Laboratory-supplied flow regulator; 0.0060 inch orifice, approximately 200 standard cubic centimeters per second).
- (2) Can# = Laboratory-supplied 6-liter Summa canister tracking number.
- (3) Vacuums measured in inches Mercury.
- (4) SG-4 dup = Duplicate of sample SG-4 was identified as SG-8 on chain-of-custody document to laboratory.
- (5) unknown = Forgot to record COA# data in field.
- (6) n/a = Not applicable/not available; data not collected in the field.

**Table 4 - Soil Vapor Sampling Laboratory Analytical Results, 14 May 2010
Station #2035, 1001 San Pablo Avenue, Albany, California**

Sample ID	GRO		Toluene (mg/m ³)	Ethyl- benzene (mg/m ³)	Total Xylenes (mg/m ³)	MTBE (mg/m ³)	ETBE (mg/m ³)	DIPE (mg/m ³)	TAME (mg/m ³)	TBA (mg/m ³)	Ethanol (mg/m ³)	IPA (mg/m ³)	Oxygen + Argon (%)	Carbon Dioxide (%)	Methane (%)
	(C6-C12) (mg/m ³)	Benzene (mg/m ³)													
SG-1	<65	<0.0027	0.0044	<0.0037	<0.015	<0.012	<0.014	<0.014	<0.014	<0.010	<0.016	<0.021	8.40	5.23	<0.855
SG-2	<64	<0.0027	<0.0032	<0.0036	<0.015	<0.012	<0.014	<0.014	<0.014	<0.010	<0.016	0.14	17.2	3.79	<0.840
SG-3	<62	<0.0026	0.0064	<0.0035	<0.014	<0.012	<0.014	<0.014	<0.014	<0.0098	<0.015	<0.020	11.5	5.05	<0.810
SG-4	<59	<0.0098	0.016	<0.013	<0.053	<0.044	<0.051	<0.051	<0.051	<0.037	<0.058	91	21.5	<0.765	<0.765
SG-4 dup.	60	<0.020	<0.023	<0.027	<0.11	<0.089	<0.10	<0.10	<0.10	<0.075	<0.12	130	21.5	<0.775	<0.775
SG-5	<64	<0.0027	<0.0032	<0.0036	<0.015	<0.012	<0.014	<0.014	<0.014	<0.010	<0.016	18	2.78	5.45	<0.840
ESL-Res.	10 mg/m ³	0.084	63.0	0.980	21.0	9.40	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
ESL-Comm.	29 mg/m ³	0.280	180	3.30	58.0	31.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Notes:

- (1) GRO analysis by EPA TO-3; Benzene through Isopropanol (IPA) analysis by EPA TO-15; Q1A1/CO₂/CH₄ analysis by ASTM D-1946.
- (2) <X = Not detected above the given laboratory reporting limit (X) in milligrams per cubic meter (mg/m³).
- (3) ESL-Res = Environmental Screening Level for shallow soil gas (residential land use); from California Regional Water Quality Control Board, San Francisco Bay Region (SFBRWQCB), May 2008.
- (4) ESL-Comm = Environmental Screening Level for shallow soil gas (commercial or industrial land use); from SFBRWQCB, May 2008.
- (5) n/a = ESL not available or not applicable.

**Table 1 - Summa Canister Soil Vapor Sampling Field Data, 16 April 2010
Station #2035, 1001 San Pablo Avenue, Albany, California**

Sample ID	COA# ⁽¹⁾	Can# ⁽²⁾	Static Leak Test		Purging (COA# 268, Can.# D151)						Sampling					
			Start Time	End Time	Start Vac.	End Vac.	Start Time	End Time	Elapsed	Start Vac.	End Vac.	Start Time	End Time	Elapsed	Start Vac.	End Vac.
SG-1	A140	D484	15:05	15:10	-30	-30	15:10	15:17	0:07	-10	-5	15:17	15:50	0:33	-30	-5
SG-2	A325	D777	14:10	14:15	-30	-30	14:15	14:23	0:08	-15	-10	14:23	14:54	0:31	-30	-5
SG-3	A324	D625	13:15	13:20	-30	-30	13:20	13:24	0:04	-20	-15	13:26	13:52	0:26	-30	-5
SG-4	A47	D508	11:17	11:22	-30	-30	11:22	11:27	0:05	-30	-25	11:28	12:08	0:40	-30	-5
SG-4 dup ⁽⁴⁾	unknown ⁽⁵⁾	D535	11:17	11:22	-30	-30	11:22	11:27	0:05	-30	-25	11:28	12:08	0:40	-30	-5
SG-5	A166	D488	12:21	12:26	-30	-30	12:26	12:32	0:06	-25	-20	12:32	13:05	0:33	-30	-4
Ambient	A187	D600	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	12:30	12:57	0:27	-30	-5

Notes:

- (1) COA# = Critical Orifice Assembly Number (Laboratory-supplied flow regulator; 0.0080 inch orifice, approximately 200 standard cubic centimeters per second).
- (2) Can# = Laboratory-supplied 6-liter Summa canister tracking number.
- (3) Vacuums measured in inches Mercury.
- (4) SG-4 dup = Duplicate of sample SG-4 was identified as SG-6 on chain-of-custody document to laboratory.
- (5) unknown = Forgot to record COA# data in field.
- (6) n/a = Not applicable/not available; data not collected in the field.

**Table 2 - Soil Vapor Sampling Laboratory Analytical Results, 16 April 2010
Station #2035, 1001 San Pablo Avenue, Albany, California**

Sample ID	GRO		Toluene (mg/m ³)	Ethyl- benzene (mg/m ³)	Total Xylenes (mg/m ³)	MTBE (mg/m ³)	ETBE (mg/m ³)	DIPE (mg/m ³)	TAME (mg/m ³)	TBA (mg/m ³)	Ethanol (mg/m ³)	1,1-DFA (mg/m ³)	Oxygen + Argon (%)	Carbon Dioxide (%)	Methane (%)
	(C6-C12) (ppmV)	Benzene (mg/m ³)													
SG-1	<15	<0.0024	0.0058	<0.0033	<0.013	<0.011	<0.013	<0.013	<0.013	<0.0092	<0.014	13	14.1	2.55	<0.755
SG-2	<16	<0.0025	0.0043	<0.0034	<0.014	<0.011	<0.013	<0.013	<0.013	<0.0096	<0.015	12	17.6	3.87	<0.790
SG-3	<17	0.0032	0.011	<0.0037	<0.015	<0.012	<0.014	<0.014	<0.014	<0.010	0.020	11	14.5	2.69	<0.845
SG-4	<14	<0.0089	<0.011	<0.012	<0.049	<0.040	<0.047	<0.047	<0.047	<0.034	<0.053	170	21.8	<0.700	<0.700
SG-4 dup.	<16	<0.0026	0.0041	<0.0036	<0.014	<0.012	<0.014	<0.014	<0.014	<0.010	<0.016	<0.0089	21.7	<0.825	<0.825
SG-5	<15	<0.0049	<0.0058	<0.0067	<0.027	<0.022	<0.026	<0.026	<0.026	<0.019	<0.029	72	21.5	<0.700	<0.700
Ambient	<19	<0.0030	0.015	<0.0040	<0.016	<0.013	<0.016	<0.016	<0.016	<0.011	0.039	<0.010	21.6	<0.930	<0.930
ESL-Res.	10 mg/m ³	0.084	63.0	0.980	21.0	9.40	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
ESL-Comm.	29 mg/m ³	0.280	180	3.30	58.0	31.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Notes:

- (1) GRO analysis by EPA TO-3; Benzene through 1,1-DFA analysis by EPA TO-15; O₂+AR/CO₂/CH₄ analysis by ASTM D-1946.
- (2) <X = Not detected above the given laboratory reporting limit (X) in parts per million volume/volume (ppmV) or milligrams per cubic meter (mg/m³).
- (3) ESL-Res = Environmental Screening Level for shallow soil gas (residential land use); from California Regional Water Quality Control Board, San Francisco Bay Region (SFBRWQCB), May 2008.
- (4) ESL-Comm = Environmental Screening Level for shallow soil gas (commercial or industrial land use); from SFBRWQCB, May 2008.
- (5) n/a = ESL not available or not applicable.

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

ARCO Service Station #2035, 1001 San Pablo Ave., Albany, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (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																
4/11/2002	P	41.41	15.00	30.00	10.73	0.00	30.68	800	360	<5.0	<5.0	<5.0	<50	--	--	
11/27/2002	P		15.00	30.00	10.22	0.00	31.19	<50	<0.50	<0.50	<0.50	<0.50	1.7	1.1	--	
6/3/2003	--		15.00	30.00	9.14	0.00	32.27	1,700	430	<5.0	24	11	8.6	1.7	--	
11/13/2003	P	43.55	15.00	30.00	10.17	0.00	33.38	<50	<0.50	<0.50	<0.50	<0.50	0.95	2.3	6.5	a
05/12/2004	P		15.00	30.00	9.28	0.00	34.77	120	7.2	<0.50	<0.50	<0.50	3.0	1.6	6.0	
12/01/2004	P		15.00	30.00	9.16	0.00	34.39	<50	0.94	<0.50	<0.50	1.1	2.4	5.2	6.6	
05/02/2005	P		15.00	30.00	8.58	0.00	34.97	1,300	390	<5.0	12	6.4	8.8	2.8	6.5	
11/16/2005	P		15.00	30.00	9.50	0.00	34.05	<50	<0.50	<0.50	<0.50	0.54	0.92	1.7	6.4	
5/31/2006	P		15.00	30.00	7.36	0.00	36.19	850	200	<2.5	5.4	<2.5	4.0	2.4	6.5	
12/6/2006	P		15.00	30.00	9.91	0.00	33.64	<50	0.52	<0.50	<0.50	<0.50	0.72	4.50	6.99	
5/15/2007	P		15.00	30.00	9.65	0.00	33.90	67	6.6	<0.50	<0.50	<0.50	1.8	2.43	6.96	
11/29/2007	P		15.00	30.00	9.11	0.00	34.44	<50	<0.50	<0.50	<0.50	<0.50	0.98	4.51	6.81	
5/6/2008	P		15.00	30.00	8.25	0.00	35.30	890	140	0.53	5.4	5.8	<0.50	1.89	6.61	
11/24/2008	P		15.00	30.00	10.55	0.00	33.00	<50	<0.50	<0.50	<0.50	<0.50	1.83	6.67		
4/9/2009	--		15.00	30.00	9.02	0.00	34.53	--	--	--	--	--	--	--	--	d
11/24/2009	--		15.00	30.00	9.24	0.00	34.31	--	--	--	--	--	--	--	--	
5/26/2010	--		15.00	30.00	8.47	0.00	35.08	--	--	--	--	--	--	--	--	
11/30/2010	--		15.00	30.00	8.62	0.00	34.93	--	--	--	--	--	--	--	--	
2/16/2011	P		15.00	30.00	8.64	0.00	34.91	--	--	--	--	--	--	--	--	
5/11/2011	--		15.00	30.00	8.24	0.00	35.31	--	--	--	--	--	--	--	--	
11/28/2011	--		15.00	30.00	9.48	0.00	34.07	--	--	--	--	--	--	--	--	
6/5/2012	--		15.00	30.00	8.62	0.00	34.93	--	--	--	--	--	--	--	--	
12/6/2012	--		15.00	30.00	7.71	0.00	35.84	--	--	--	--	--	--	--	--	
6/4/2013	--		15.00	30.00	9.66	0.00	33.89	--	--	--	--	--	--	--	--	
MW-2																
4/11/2002	P	40.38	20.00	29.00	11.05	0.00	29.33	<50	<0.50	<0.50	<0.50	<0.50	24	--	--	
11/27/2002	P		20.00	29.00	10.51	0.00	29.87	<50	<0.50	<0.50	<0.50	<0.50	5.4	2.6	--	
6/3/2003	--		20.00	29.00	9.78	0.00	30.60	<50	<0.50	<0.50	<0.50	<0.50	23	1.7	--	
11/13/2003	P	42.52	20.00	29.00	10.69	0.00	31.83	<50	<0.50	<0.50	<0.50	<0.50	9.5	2.3	6.5	a
05/12/2004	P		20.00	29.00	10.34	0.00	32.18	<250	<2.5	<2.5	<2.5	<2.5	27	2.2	6.6	

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

ARCO Service Station #2035, 1001 San Pablo Ave., Albany, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote	
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes				MTBE
MW-2 Cont.																
12/01/2004	P	42.52	20.00	29.00	10.28	0.00	32.24	<50	<0.50	<0.50	<0.50	0.70	17	3.9	6.6	
05/02/2005	P		20.00	29.00	9.50	0.00	33.02	<50	<0.50	<0.50	<0.50	<0.50	25	3.1	6.6	
11/16/2005	P		20.00	29.00	10.50	0.00	32.02	<50	<0.50	<0.50	<0.50	0.50	7.6	2.8	6.4	
5/31/2006	P		20.00	29.00	10.03	0.00	32.49	<50	<0.50	<0.50	<0.50	<0.50	24	2.0	6.6	
12/6/2006	P		20.00	29.00	10.28	0.00	32.24	<50	<0.50	<0.50	<0.50	<0.50	1.6	3.72	6.91	
5/15/2007	P		20.00	29.00	10.00	0.00	32.57	<50	<0.50	<0.50	<0.50	<0.50	44	2.90	6.69	
11/29/2007	P		20.00	29.00	10.13	0.00	32.39	<50	<0.50	<0.50	<0.50	<0.50	1.9	4.83	6.89	
5/6/2008	P		20.00	29.00	9.55	0.00	32.97	<50	<0.50	<0.50	<0.50	<0.50	35	1.88	6.62	
11/24/2008	P		20.00	29.00	10.70	0.00	31.82	<50	<0.50	<0.50	<0.50	<0.50	4.3	1.83	6.74	
4/9/2009	--	42.57	20.00	29.00	9.68	0.00	32.89	--	--	--	--	--	--	--	--	d
11/24/2009	--		20.00	29.00	10.48	0.00	32.09	--	--	--	--	--	--	--	--	
5/26/2010	--		20.00	29.00	9.65	0.00	32.92	--	--	--	--	--	--	--	--	
11/30/2010	--		20.00	29.00	9.84	0.00	32.73	--	--	--	--	--	--	--	--	
2/16/2011	P		20.00	29.00	9.39	0.00	33.18	--	--	--	--	--	--	--	--	
5/11/2011	--		20.00	29.00	9.68	0.00	32.89	--	--	--	--	--	--	--	--	
11/28/2011	--		20.00	29.00	10.12	0.00	32.45	--	--	--	--	--	--	--	--	
6/5/2012	--		20.00	29.00	10.20	0.00	32.37	--	--	--	--	--	--	--	--	
12/6/2012	--		20.00	29.00	8.19	0.00	34.38	--	--	--	--	--	--	--	--	
6/4/2013	--		20.00	29.00	10.40	0.00	32.17	--	--	--	--	--	--	--	--	
MW-3																
4/11/2002	P	41.44	13.00	33.00	11.05	0.00	30.39	250	9.4	<0.50	<0.50	<0.50	120	--	--	
11/27/2002	P		13.00	33.00	10.49	0.00	30.95	<100	<1.0	<1.0	<1.0	2.5	56	2.2	--	
6/3/2003	--		13.00	33.00	9.44	0.00	32.00	130	<0.50	<0.50	<0.50	<0.50	47	4.1	--	
11/13/2003	P	43.62	13.00	33.00	10.68	0.00	32.94	53	<0.50	<0.50	<0.50	<0.50	36	3.8	6.8	a
05/12/2004	P		13.00	33.00	9.95	0.00	33.67	65	<0.50	<0.50	<0.50	<0.50	39	4.2	6.9	
12/01/2004	P		13.00	33.00	10.32	0.00	33.30	140	<0.50	<0.50	<0.50	<0.50	37	4.3	6.9	
05/02/2005	P		13.00	33.00	9.17	0.00	34.50	140	<0.50	<0.50	<0.50	<0.50	23	3.1	6.7	
11/16/2005	P		13.00	33.00	10.58	0.00	33.04	<50	<0.50	<0.50	<0.50	<0.50	32	4.1	6.5	
5/31/2006	P		13.00	33.00	9.41	0.00	34.21	<50	<0.50	<0.50	<0.50	<0.50	20	4.3	6.8	
12/6/2006	P		13.00	33.00	10.25	0.00	33.37	<50	<0.50	<0.50	<0.50	<0.50	20	2.71	7.00	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
ARCO Service Station #2035, 1001 San Pablo Ave., Albany, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote	
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes				MTBE
MW-3 Cont.																
5/15/2007	P	43.62	13.00	33.00	9.70	0.00	33.92	<50	<0.50	<0.50	<0.50	<0.50	40	5.89	7.07	d
11/29/2007	P		13.00	33.00	10.08	0.00	33.54	90	<0.50	<0.50	<0.50	<0.50	35	4.74	6.61	
5/6/2008	P		13.00	33.00	10.02	0.00	33.60	<50	<0.50	<0.50	<0.50	<0.50	14	2.05	6.61	
11/24/2008	P		13.00	33.00	10.80	0.00	32.82	<50	<1.0	<1.0	<1.0	<1.0	28	1.98	6.77	
4/9/2009	-	43.63	13.00	33.00	9.55	0.00	34.08	-	-	-	-	-	-	-	-	
11/24/2009	-		13.00	33.00	10.29	0.00	33.34	-	-	-	-	-	-	-	-	
5/26/2010	-		13.00	33.00	9.76	0.00	33.87	-	-	-	-	-	-	-	-	
11/30/2010	-		13.00	33.00	10.15	0.00	33.48	-	-	-	-	-	-	-	-	
2/16/2011	P		13.00	33.00	9.22	0.00	34.41	-	-	-	-	-	-	-	-	
5/11/2011	-		13.00	33.00	9.55	0.00	34.08	-	-	-	-	-	-	-	-	
11/28/2011	-		13.00	33.00	10.06	0.00	33.57	-	-	-	-	-	-	-	-	
6/5/2012	-		13.00	33.00	9.92	0.00	33.71	-	-	-	-	-	-	-	-	
12/6/2012	-		13.00	33.00	8.10	0.00	35.53	-	-	-	-	-	-	-	-	
6/4/2013	-		13.00	33.00	10.46	0.00	33.17	-	-	-	-	-	-	-	-	
MW-4																
4/11/2002	NP	40.33	9.00	26.00	10.81	0.00	29.52	<50	<0.50	<0.50	<0.50	<0.50	11	-	-	
11/27/2002	NP		9.00	26.00	10.09	0.00	30.24	<50	<0.50	<0.50	<0.50	<0.50	6.5	1.8	-	
6/3/2003	-		9.00	26.00	8.62	0.00	31.71	<250	<2.5	<2.5	<2.5	<2.5	120	1.1	-	
11/13/2003	NP	42.48	9.00	26.00	9.98	0.00	32.50	<50	<0.50	<0.50	<0.50	<0.50	20	1.3	6.2	
05/12/2004	P		9.00	26.00	9.48	0.00	33.00	<250	<2.5	<2.5	<2.5	<2.5	79	2.9	6.6	
12/01/2004	NP		9.00	26.00	9.60	0.00	32.88	<50	<0.50	<0.50	<0.50	<0.50	1.8	1.9	6.7	
05/02/2005	NP		9.00	26.00	8.67	0.00	33.81	<50	<0.50	<0.50	<0.50	<0.50	11	2.8	6.6	
11/16/2005	NP		9.00	26.00	10.00	0.00	32.48	<50	<0.50	<0.50	<0.50	<0.50	0.93	1.7	6.3	
5/31/2006	NP		9.00	26.00	8.52	0.00	33.96	<50	<0.50	<0.50	<0.50	<0.50	2.4	1.0	7.0	
12/6/2006	NP		9.00	26.00	9.90	0.00	32.58	<50	<0.50	<0.50	<0.50	<0.50	7.8	0.85	7.10	
5/15/2007	NP		9.00	26.00	9.18	0.00	33.30	<50	<0.50	<0.50	<0.50	<0.50	2.2	1.37	6.85	
11/29/2007	NP		9.00	26.00	9.10	0.00	33.38	<50	<0.50	<0.50	<0.50	<0.50	9.1	1.81	7.14	
5/6/2008	P		9.00	26.00	9.40	0.00	33.08	<50	<0.50	<0.50	<0.50	<0.50	10	2.61	6.91	
11/24/2008	NP		9.00	26.00	10.20	0.00	32.28	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.67	6.88	
4/9/2009	P	42.51	9.00	26.00	9.00	0.00	33.51	<50	<0.50	<0.50	<0.50	<0.50	12	2.51	7.11	

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

ARCO Service Station #2035, 1001 San Pablo Ave., Albany, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
MW-4 Cont.																
11/24/2009	P	42.51	9.00	26.00	9.89	0.00	32.62	<50	<0.50	<0.50	<0.50	<0.50	1.7	0.80	6.58	
5/26/2010	P		9.00	26.00	8.79	0.00	33.72	<50	<0.50	<0.50	<0.50	<0.50	1.4	0.98	6.0	
11/30/2010	P		9.00	26.00	9.31	0.00	33.20	-	-	-	-	-	-	1.40	6.4	f
2/16/2011	P		9.00	26.00	8.50	0.00	34.01	<50	<0.50	<0.50	<0.50	<0.50	2.1	0.91	7.1	
5/11/2011	P		9.00	26.00	8.80	0.00	33.71	<50	<0.50	<0.50	<0.50	<0.50	0.75	1.43	6.8	
11/28/2011	P		9.00	26.00	9.53	0.00	32.98	<50	<0.50	0.61	<0.50	0.69	0.67	0.75	6.8	
6/5/2012	P		9.00	26.00	9.40	0.00	33.11	<50	<0.50	<0.50	<0.50	<0.50	1.2	1.66	6.67	
12/6/2012	P		9.00	26.00	7.58	0.00	34.93	<50	<0.50	<0.50	<0.50	<1.0	2.5	4.27	7.50	
6/4/2013	P		9.00	26.00	9.87	0.00	32.64	<50	<0.50	<0.50	<0.50	<1.0	0.54	1.49	5.95	
MW-5																
4/11/2002	NP	41.84	8.00	25.00	10.63	0.00	31.21	<50	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	
11/27/2002	NP		8.00	25.00	10.65	0.00	31.19	-	-	-	-	-	-	-	-	
6/3/2003	-		8.00	25.00	8.92	0.00	32.92	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	-	
11/13/2003	NP	44.03	8.00	25.00	10.58	0.00	33.45	<50	<0.50	<0.50	<0.50	<0.50	0.79	1.4	5.7	a
05/12/2004	-		8.00	25.00	9.95	0.00	34.08	-	-	-	-	-	-	-	-	
12/01/2004	NP		8.00	25.00	10.05	0.00	33.98	<50	<0.50	<0.50	<0.50	<0.50	0.55	1.8	6.3	
05/07/2005	-		8.00	25.00	8.75	0.00	35.28	-	-	-	-	-	-	-	-	
11/16/2005	NP		8.00	25.00	10.37	0.00	33.66	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	6.2	
5/31/2006	-		8.00	25.00	9.07	0.00	34.96	-	-	-	-	-	-	-	-	
12/6/2006	NP		8.00	25.00	10.25	0.00	33.78	<50	<0.50	<0.50	<0.50	<0.50	0.99	1.24	6.88	
5/15/2007	-		8.00	25.00	9.51	0.00	34.52	-	-	-	-	-	-	-	-	
11/29/2007	NP		8.00	25.00	9.95	0.00	34.08	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.93	6.98	
5/6/2008	-		8.00	25.00	9.67	0.00	34.36	-	-	-	-	-	-	-	-	
11/24/2008	NP		8.00	25.00	10.62	0.00	33.41	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.43	6.52	
4/9/2009	-		8.00	25.00	12.00	0.00	32.03	-	-	-	-	-	-	-	-	d
11/24/2009	P		8.00	25.00	10.34	0.00	33.69	<50	<0.50	1.4	<0.50	<0.50	0.89	0.94	6.1	
5/26/2010	-		8.00	25.00	9.21	0.00	34.82	-	-	-	-	-	-	-	-	
11/30/2010	P		8.00	25.00	9.85	0.00	34.18	-	-	-	-	-	-	-	6.17	f
2/16/2011	P		8.00	25.00	9.01	0.00	35.02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.23	6.9	
5/11/2011	-		8.00	25.00	9.44	0.00	34.59	-	-	-	-	-	-	-	-	

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ARCO Service Station #2035, 1001 San Pablo Ave., Albany, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote	
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes				MTBE
MW-5 Cont.																
11/28/2011	P	44.03	8.00	25.00	10.06	0.00	33.97	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.10	6.5	
6/5/2012	-		8.00	25.00	9.88	0.00	34.15	-	-	-	-	-	-	-	-	
12/6/2012	P		8.00	25.00	7.91	0.00	36.12	<50	<0.50	<0.50	<0.50	<1.0	<0.50	4.44	7.26	
6/4/2013	-		8.00	25.00	10.43	0.00	33.60	-	-	-	-	-	-	-	-	
MW-6																
4/11/2002	NP	40.13	8.00	25.00	11.42	0.00	28.71	<50	<0.50	<0.50	<0.50	<0.50	<5.0	-	-	
11/27/2002	NP		8.00	25.00	13.11	0.00	27.02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	-	
6/3/2003	-		8.00	25.00	12.48	0.00	27.65	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.1	-	
11/13/2003	NP	42.26	8.00	25.00	13.11	0.00	29.15	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	6.8	a
05/12/2004	-		8.00	25.00	12.68	0.00	29.58	-	-	-	-	-	-	-	-	
12/01/2004	NP		8.00	25.00	12.68	0.00	29.58	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	7.3	
05/02/2005	-		8.00	25.00	12.25	0.00	30.01	-	-	-	-	-	-	-	-	
11/16/2005	NP		8.00	25.00	12.98	0.00	29.28	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	6.7	
5/31/2006	-		8.00	25.00	12.35	0.00	29.91	-	-	-	-	-	-	-	-	
12/6/2006	NP		8.00	25.00	12.98	0.00	29.28	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.24	6.86	
5/15/2007	-		8.00	25.00	12.55	0.00	29.71	-	-	-	-	-	-	-	-	
11/29/2007	NP		8.00	25.00	12.75	0.00	29.51	<50	<0.50	<0.50	<0.50	<0.50	<0.50	-	6.93	
5/6/2008	-		8.00	25.00	12.91	0.00	29.35	-	-	-	-	-	-	-	-	
11/24/2008	NP		8.00	25.00	13.20	0.00	29.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	2.28	7.25	
4/9/2009	-	42.31	8.00	25.00	12.52	0.00	29.79	-	-	-	-	-	-	-	-	d
11/24/2009	P		8.00	25.00	12.90	0.00	29.41	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.83	6.59	
5/26/2010	-		8.00	25.00	12.17	0.00	30.14	-	-	-	-	-	-	-	-	
11/30/2010	P		8.00	25.00	12.45	0.00	29.86	-	-	-	-	-	-	1.20	7.2	f
2/16/2011	P		8.00	25.00	11.95	0.00	30.36	<50	<0.50	<0.50	<0.50	<0.50	<0.50	1.02	6.9	
5/11/2011	-		8.00	25.00	12.35	0.00	29.96	-	-	-	-	-	-	-	-	
11/28/2011	P		8.00	25.00	12.62	0.00	29.69	<50	<0.50	0.74	<0.50	0.64	<0.50	0.91	7.2	
6/5/2012	-		8.00	25.00	12.60	0.00	29.71	-	-	-	-	-	-	-	-	
12/6/2012	P		8.00	25.00	10.66	0.00	31.65	<50	<0.50	<0.50	<0.50	<1.0	<0.50	3.33	7.85	
6/4/2013	-		8.00	25.00	12.90	0.00	29.41	-	-	-	-	-	-	-	-	

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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)	Product Thickness (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																
4/9/2009	P	43.18	6.00	16.00	6.73	0.00	36.45	4,100	5.2	1.7	21	2.1	<0.50	8.41	7.79	d
11/24/2009	P		6.00	16.00	8.31	0.00	34.87	2,700	4.1	1.1	3.3	3.0	<0.50	0.60	6.8	c
5/26/2010	P		6.00	16.00	6.62	0.00	36.56	1,800	1.2	0.53	2.2	0.84	<0.50	0.71	6.6	
11/30/2010	P		6.00	16.00	6.84	0.00	36.34	-	-	-	-	-	-	0.79	6.7	f
2/16/2011	P		6.00	16.00	5.44	0.00	37.74	2,000	1.4	0.84	8.0	1.4	<0.50	0.56	7.0	g
5/11/2011	P		6.00	16.00	6.98	0.00	36.20	84	<0.50	<0.50	<0.50	<0.50	<0.50	1.76	7.1	lw
11/28/2011	P		6.00	16.00	7.13	0.00	36.05	850	0.55	1.3	<0.50	2.5	<0.50	0.38	7.3	lw
6/5/2012	P		6.00	16.00	7.65	0.00	35.53	1,300	0.97	0.59	0.95	0.64	<0.50	1.95	7.04	
12/6/2012	P		6.00	16.00	3.30	0.00	39.88	880	1.4	0.57	1.4	<1.0	<0.50	4.90	7.78	
6/4/2013	P		6.00	16.00	8.60	0.00	34.58	99	<0.50	<0.50	<0.50	<1.0	<0.50	1.31	6.51	
MW-8																
4/9/2009	P	42.36	6.00	19.00	9.50	0.00	32.86	4,300	940	260	150	590	110	2.09	7.62	d
11/24/2009	P		6.00	19.00	10.25	0.00	32.11	28,000	9,900	670	1,300	2,200	<100	0.64	6.48	c
5/26/2010	P		6.00	19.00	9.25	0.00	33.11	1,400	420	<10	21	<10	<10	0.78	6.6	
11/30/2010	P		6.00	19.00	9.68	0.00	32.68	-	-	-	-	-	-	2.26	6.6	f
2/16/2011	P		6.00	19.00	8.95	0.00	33.41	960	270	<5.0	50	<5.0	<5.0	3.35	6.9	g
5/11/2011	P		6.00	19.00	9.43	0.00	32.93	1,200	290	<4.0	57	4.5	<4.0	0.94	7.2	lw
11/28/2011	P		6.00	19.00	9.85	0.00	32.51	<50	<0.50	0.59	<0.50	0.53	<0.50	3.64	7.2	
6/5/2012	P		6.00	19.00	9.72	0.00	32.64	890	170	1.9	92	16	2.1	1.31	6.99	
12/6/2012	P		6.00	19.00	7.19	0.00	35.17	80	18	<0.50	6.8	1.2	<0.50	6.59	8.01	
6/4/2013	P		6.00	19.00	10.21	0.00	32.15	260	70	1.1	34	1.6	2.0	1.50	6.21	
MW-9																
4/9/2009	P	43.77	6.00	16.00	8.95	0.00	34.82	<50	<0.50	<0.50	<0.50	<0.50	2.1	2.81	7.58	d
11/24/2009	P		6.00	16.00	10.11	0.00	33.66	<50	<0.50	<0.50	<0.50	<0.50	3.8	-	6.3	
5/26/2010	P		6.00	16.00	8.88	0.00	34.89	<50	<0.50	<0.50	<0.50	<0.50	1.9	0.66	5.7	
11/30/2010	P		6.00	16.00	9.56	0.00	34.21	-	-	-	-	-	-	0.64	6.3	f
2/16/2011	P		6.00	16.00	8.65	0.00	35.12	<50	<0.50	<0.50	<0.50	<0.50	3.8	0.55	6.6	
5/11/2011	P		6.00	16.00	9.06	0.00	34.71	<50	<0.50	<0.50	<0.50	<0.50	1.2	1.22	6.6	
11/28/2011	P		6.00	16.00	9.75	0.00	34.02	<50	<0.50	0.70	<0.50	0.72	9.1	0.50	6.8	

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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)	Product Thickness (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.																
6/5/2012	P	43.77	6.00	16.00	9.57	0.00	34.20	<50	<0.50	<0.50	<0.50	<0.50	4.8	1.45	6.32	
12/6/2012	P		6.00	16.00	6.95	0.00	36.82	<50	<0.50	<0.50	<0.50	<1.0	6.4	2.25	7.23	
6/4/2013	P		6.00	16.00	10.17	0.00	33.60	<50	<0.50	<0.50	<0.50	<1.0	3.5	1.58	5.40	
RW-1																
4/11/2002	P	40.33	11.00	26.00	9.20	0.00	31.13	15,000	750	2,000	380	2,000	1,500	--	--	
11/21/2002	P		11.00	26.00	10.31	0.00	30.07	<2,500	720	<25	<25	<25	<25	1.8	--	
6/3/2003	--		11.00	26.00	9.54	0.00	30.79	470	78	0.97	4.3	9	48	1.4	--	
11/13/2003	P	42.35	11.00	26.00	10.35	0.00	32.00	130	29	<0.50	<0.50	<0.50	44	1.3	6.6	a
05/12/2004	P		11.00	26.00	9.80	0.00	32.55	<250	66	<2.5	<2.5	<2.5	<2.5	1.9	6.9	
09/02/2004	--		11.00	26.00	10.42	0.00	31.93	--	--	--	--	--	--	--	--	
10/07/2004	--		11.00	26.00	10.36	0.00	31.99	--	--	--	--	--	--	--	--	
11/04/2004	--		11.00	26.00	9.93	0.00	32.42	--	--	--	--	--	--	--	--	
12/01/2004	P		11.00	26.00	10.02	0.00	32.33	<250	96	<2.5	<2.5	<2.5	16	1.8	6.7	
05/02/2005	P		11.00	26.00	9.20	0.00	33.15	230	100	<1.0	<1.0	<1.0	50	2.5	6.6	
11/16/2005	P		11.00	26.00	10.96	0.00	31.39	<100	28	<1.0	<1.0	<1.0	32	1.0	6.5	
5/31/2006	P		11.00	26.00	9.34	0.00	33.01	320	32	<0.50	<0.50	<0.50	28	1.3	6.8	
12/6/2006	P		11.00	26.00	10.10	0.00	32.25	50	27	<0.50	<0.50	<0.50	19	1.49	7.54	
5/15/2007	P		11.00	26.00	9.42	0.00	32.93	280	32	<0.50	<0.50	<0.50	18	2.61	7.10	
11/29/2007	P		11.00	26.00	9.75	0.00	32.60	<50	14	<0.50	<0.50	<0.50	18	4.86	8.14	
5/6/2008	P		11.00	26.00	9.71	0.00	32.64	610	110	<2.5	<2.5	<2.5	2.6	2.48	6.95	
11/24/2008	P		11.00	26.00	10.48	0.00	31.87	73	31	<0.50	<0.50	<0.50	11	2.53	6.88	
4/9/2009	P	42.23	11.00	26.00	9.46	0.00	32.77	720	36	<0.50	1.0	1.2	4.0	2.58	7.73	d
11/24/2009	P		11.00	26.00	10.15	0.00	32.08	<50	2.0	<0.50	<0.50	<0.50	6.5	0.85	6.6	
5/26/2010	P		11.00	26.00	9.12	0.00	33.11	90	11	<0.50	<0.50	<0.50	0.94	1.46	6.4	
11/30/2010	P		11.00	26.00	9.38	0.00	32.85	--	--	--	--	--	--	2.10	7.2	f
2/16/2011	P		11.00	26.00	9.15	0.00	33.08	1,600	370	2.9	2.6	2.9	1.3	0.76	7.0	
5/11/2011	P		11.00	26.00	9.56	0.00	32.67	1,600	79	<2.0	<2.0	2.0	<2.0	0.91	7.4	hw
11/28/2011	P		11.00	26.00	9.69	0.00	32.54	<50	<0.50	0.54	<0.50	<0.50	<0.50	3.05	7.3	
6/5/2012	P		11.00	26.00	9.63	0.00	32.60	1,000	49	1.3	<0.50	0.86	<0.50	1.43	6.75	
12/6/2012	P		11.00	26.00	7.66	0.00	34.57	380	200	1.5	<1.0	<2.0	<1.0	1.52	7.34	

Table 1. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
ARCO Service Station #2035, 1001 San Pablo Ave., Albany, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Product Thickness (feet)	Water Level Elevation (feet)	Concentrations In µg/L						DO (mg/L)	pH	Footnote
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
RW-1 Cont.																
6/4/2013	P	42.23	11.00	26.00	10.10	0.00	32.13	<50	<0.50	<0.50	<0.50	<1.0	<0.50	1.31	6.16	
S-5																
4/11/2002	P	40.33	6.00	16.00	10.17	0.00	30.16	30,000	390	1,400	410	7,400	<500	-	-	
11/27/2002	P		6.00	16.00	9.77	0.00	30.56	55,000	1,300	450	1,400	13,000	<50	4.3	-	
6/3/2003	-		6.00	15.00	9.03	0.00	31.30	44,000	680	260	1,100	9,900	<25	1.9	-	
6/3/2003	-		6.00	16.00	9.12	0.00	31.21	44,000	680	260	1,100	9,900	<25	1.9	-	
6/3/2003	-		6.00	16.00	9.03	0.00	31.30	-	-	-	-	-	<25	1.4	-	
6/3/2003	-		6.00	16.00	9.12	0.00	31.21	-	-	-	-	-	<25	1.4	-	
11/13/2003	P	41.83	6.00	16.00	9.12	0.00	32.71	31,000	520	120	690	5,900	<50	1.4	6.5	a
05/12/2004	P		6.00	16.00	9.95	0.00	31.88	28,000	760	79	910	5,000	<50	1.9	6.6	
12/01/2004	P		6.00	16.00	9.61	0.00	32.22	26,000	1,500	64	1,400	4,000	<25	-	6.5	b
05/02/2005	P		6.00	16.00	8.80	0.00	33.03	13,000	700	18	260	1,300	<5.0	1.8	6.4	
11/16/2005	P		6.00	16.00	9.80	0.00	32.03	15,000	1,400	25	570	850	<5.0	1.1	6.3	
5/31/2006	P		6.00	16.00	8.89	0.00	32.94	9,800	170	<5.0	490	390	<5.0	1.4	6.6	
12/6/2006	P		6.00	16.00	9.65	0.00	32.18	16,000	1,100	<25	1,700	970	<25	1.23	6.95	
5/15/2007	P		6.00	16.00	8.89	0.00	32.94	10,000	140	<5.0	340	310	<5.0	3.63	7.10	
11/29/2007	P		6.00	16.00	9.48	0.00	32.35	13,000	770	8.6	500	360	<2.5	5.42	7.28	c (General)
5/6/2008	P		6.00	16.00	9.30	0.00	32.53	7,400	320	2.8	580	130	<0.50	3.37	6.88	
11/24/2008	P		6.00	16.00	10.00	0.00	31.83	7,700	400	<10	390	14	<10	3.22	6.43	
4/9/2009	P		6.00	16.00	8.90	0.00	32.93	7,700	230	<10	370	35	<10	3.14	7.77	
11/24/2009	-		6.00	16.00	-	-	-	-	-	-	-	-	-	-	-	e
5/26/2010	-		6.00	16.00	-	-	-	-	-	-	-	-	-	-	-	e
11/30/2010	P		6.00	16.00	8.92	0.00	32.91	-	-	-	-	-	-	0.62	6.6	f
2/16/2011	P		6.00	16.00	8.57	0.00	33.26	2,700	26	<0.50	11	3.2	<0.50	1.34	7.5	
5/11/2011	P		6.00	16.00	8.85	0.00	32.98	1,500	19	0.58	9.7	2.2	<0.50	0.72	6.8	lw
11/28/2011	-		6.00	16.00	-	-	-	-	-	-	-	-	-	-	-	e
6/5/2012	P		6.00	16.00	9.00	0.00	32.83	1,700	29	0.99	2.1	0.60	<0.50	1.44	6.68	
12/6/2012	P		6.00	16.00	6.89	0.00	34.94	1,700	24	1.7	3.3	2.0	<0.50	2.95	7.51	
6/4/2013	P		6.00	16.00	9.55	0.00	32.28	400	14	1.8	3.1	2.3	<0.50	1.41	5.98	

Symbols & Abbreviations:

— = Not analyzed/applicable/measured/available

< = Not detected at or above laboratory reporting limit

ft bgs = Feet below ground surface

BTEX = Benzene, toluene, ethylbenzene and xylenes

DO = Dissolved oxygen

DTW = Depth to water in ft bgs

GRO = Gasoline range organics, range C4-C12

GWE = Groundwater elevation measured in ft

mg/L = Milligrams per liter

MTBE = Methyl tert butyl ether

NP = Not purged before sampling

P = Purged before sampling

TOC = Top of casing measured in ft

TPH-g = Total petroleum hydrocarbons as gasoline, analyzed using EPA Method 8015, Modified

µg/L = Micrograms per liter

SEQ/SEQM = Sequoia Analytical/Sequoia Morgan Hill Laboratories

Footnotes:

a = Site resurveyed by URS on 10/15/03 to NAVD '88

b = Sheen in well

c = Sample taken from VOA vial with air bubble >6mm

d = Well surveyed on 4/20/09

e = Well not monitored or sampled due to traffic control safety concerns

f = Samples were collected on 11/30/2010 but not able to be analyzed (frozen). Subsequent re-sampling could not occur in 4Q 2010

g = Quantitation of unknown hydrocarbon(s) in sample based on gasoline

lw = Quantitated against gasoline

Notes:

No sampling occurs at this site during the first and third quarters of each calendar year

TPH-g analyzed using EPA Method 8015, Modified and BTEX and MTBE by EPA method 8260B

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

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

Values for DO and pH were obtained through field measurements

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

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

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #2035, 1001 San Pablo Ave., Albany, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
4/11/2002	-	-	<50	-	-	-	-	-	
11/27/2002	-	-	1.7	-	-	-	-	-	
6/3/2003	<1000	<200	8.6	<5.0	<5.0	<5.0	<5.0	<5.0	
11/13/2003	<100	<20	0.95	<0.50	<0.50	<0.50	-	-	
05/12/2004	<100	<20	3.0	<0.50	<0.50	<0.50	<0.50	<0.50	
12/01/2004	<100	<20	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	
05/02/2005	<1,000	220	8.8	<5.0	<5.0	<5.0	<5.0	<5.0	
11/16/2005	<100	<20	0.92	<0.50	<0.50	<0.50	<0.50	<0.50	a
5/31/2006	<1,500	<100	4.0	<2.5	<2.5	<2.5	<2.5	<2.5	a
12/6/2006	<300	<20	0.72	<0.50	<0.50	<0.50	<0.50	<0.50	
5/15/2007	<300	<20	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	
11/29/2007	<300	<20	0.98	<0.50	<0.50	<0.50	<0.50	<0.50	
5/6/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/24/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-2									
4/11/2002	-	-	24	-	-	-	-	-	
11/27/2002	-	-	5.4	-	-	-	-	-	
6/3/2003	<100	<20	23	<0.50	<0.50	<0.50	0.94	<0.50	
11/13/2003	<100	<20	9.5	<0.50	<0.50	<0.50	-	-	
05/12/2004	<500	<100	27	<2.5	<2.5	<2.5	<2.5	<2.5	
12/01/2004	<100	<20	17	<0.50	<0.50	<0.50	0.74	<0.50	
05/02/2005	<100	75	25	<0.50	<0.50	<0.50	<0.50	<0.50	
11/16/2005	<100	<20	7.6	<0.50	<0.50	<0.50	0.79	<0.50	a
5/31/2006	<300	<20	24	<0.50	<0.50	<0.50	0.66	<0.50	a
12/6/2006	<300	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	a
5/15/2007	<300	<20	44	<0.50	<0.50	<0.50	1.7	<0.50	
11/29/2007	<300	<20	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	
5/6/2008	<300	<10	35	<0.50	<0.50	<0.50	0.93	<0.50	
11/24/2008	<300	<10	4.3	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-3									

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #2035, 1001 San Pablo Ave., Albany, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-3 Cont.									
4/11/2002	--	--	120	--	--	--	--	--	
11/27/2002	--	--	56	--	--	--	--	--	
6/3/2003	<100	<20	47	<0.50	<0.50	<0.50	<0.50	<0.50	
11/13/2003	<100	<20	36	<0.50	<0.50	<0.50	--	--	
05/12/2004	<100	<20	39	<0.50	<0.50	<0.50	<0.50	<0.50	
12/01/2004	<100	<20	37	<0.50	<0.50	<0.50	<0.50	<0.50	
05/02/2005	<100	<20	23	<0.50	<0.50	<0.50	<0.50	<0.50	
11/16/2005	<100	<20	32	<0.50	<0.50	<0.50	<0.50	<0.50	a
5/31/2006	<300	<20	20	<0.50	<0.50	<0.50	<0.50	<0.50	a
12/6/2006	<300	<20	20	<0.50	<0.50	<0.50	<0.50	<0.50	a
5/15/2007	<300	<20	40	<0.50	<0.50	<0.50	<0.50	<0.50	
11/29/2007	<300	<20	35	<0.50	<0.50	<0.50	<0.50	<0.50	
5/6/2008	<300	<10	14	<0.50	<0.50	<0.50	<0.50	<0.50	
11/24/2008	<600	<20	28	<1.0	<1.0	<1.0	<1.0	<1.0	
MW-4									
4/11/2002	--	--	11	--	--	--	--	--	
11/27/2002	--	--	6.5	--	--	--	--	--	
6/3/2003	<500	<100	120	<2.5	<2.5	<2.5	<2.5	<2.5	
11/13/2003	<100	<20	20	<0.50	<0.50	<0.50	--	--	
05/12/2004	<500	<100	79	<2.5	<2.5	<2.5	<2.5	<2.5	
12/01/2004	<100	<20	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	
05/02/2005	<100	75	11	<0.50	<0.50	<0.50	<0.50	<0.50	
11/16/2005	<100	<20	0.93	<0.50	<0.50	<0.50	<0.50	<0.50	a
5/31/2006	<300	<20	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	a
12/6/2006	<300	<20	7.8	<0.50	<0.50	<0.50	<0.50	<0.50	a
5/15/2007	<300	<20	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	
11/29/2007	<300	<20	9.1	<0.50	<0.50	<0.50	<0.50	<0.50	
5/6/2008	<300	<10	10	<0.50	<0.50	<0.50	<0.50	<0.50	
11/24/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/9/2009	<300	<10	12	<0.50	<0.50	<0.50	<0.50	<0.50	
11/24/2009	<300	<10	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #2035, 1001 San Pablo Ave., Albany, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-4 Cont.									
5/26/2010	<300	<10	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	
2/16/2011	<300	<10	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	
5/11/2011	<300	<10	0.75	<0.50	<0.50	<0.50	<0.50	<0.50	
11/28/2011	<300	<10	0.67	<0.50	<0.50	<0.50	<0.50	<0.50	
6/5/2012	<300	<10	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	
12/6/2012	<150	<10	2.5	<0.50	<0.50	<0.50	<0.50	<0.50	
6/4/2013	<150	<10	0.54	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-5									
4/11/2002	—	—	<5.0	—	—	—	—	—	
6/3/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/13/2003	<100	<20	0.79	<0.50	<0.50	<0.50	—	—	
12/01/2004	<100	<20	0.55	<0.50	<0.50	<0.50	<0.50	<0.50	
11/16/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
12/6/2006	<300	<20	0.99	<0.50	<0.50	<0.50	<0.50	<0.50	a
11/29/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/24/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/24/2009	<300	<10	0.89	<0.50	<0.50	<0.50	<0.50	<0.50	
2/16/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/28/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
12/6/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-6									
4/11/2002	—	—	<5.0	—	—	—	—	—	
11/27/2002	—	—	<0.50	—	—	—	—	—	
6/3/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/13/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	—	—	
12/01/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/16/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
12/6/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
11/29/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/24/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #2035, 1001 San Pablo Ave., Albany, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-6 Cont.									
11/24/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/16/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/28/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
12/6/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-7									
4/9/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/24/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
5/26/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/16/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
5/11/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/28/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/5/2012	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
12/6/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/4/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-8									
4/9/2009	<300	330	110	5.5	<0.50	<0.50	34	<0.50	
11/24/2009	<60,000	<2,000	<100	<100	<100	<100	<100	<100	b
5/26/2010	<6,000	<200	<10	<10	<10	<10	<10	<10	
2/16/2011	<3,000	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
5/11/2011	<2,400	<80	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
11/28/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/5/2012	<300	38	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	
12/6/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/4/2013	<150	26	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-9									
4/9/2009	<300	<10	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	
11/24/2009	<300	<10	3.8	<0.50	<0.50	<0.50	<0.50	<0.50	
5/26/2010	<300	<10	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	
2/16/2011	<300	<10	3.8	<0.50	<0.50	<0.50	<0.50	<0.50	
5/11/2011	<300	<10	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #2035, 1001 San Pablo Ave., Albany, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-9 Cont.									
11/28/2011	<300	<10	9.1	<0.50	<0.50	<0.50	<0.50	<0.50	
6/5/2012	<300	<10	4.8	<0.50	<0.50	<0.50	<0.50	<0.50	
12/6/2012	<150	<10	6.4	<0.50	<0.50	<0.50	<0.50	<0.50	
6/4/2013	<150	<10	3.5	<0.50	<0.50	<0.50	<0.50	<0.50	
RW-1									
4/11/2002	-	-	1,500	-	-	-	-	-	
11/27/2002	-	-	<25	-	-	-	-	-	
6/3/2003	<100	22	48	<0.50	<0.50	<0.50	<0.50	<0.50	
11/13/2003	<100	<20	44	<0.50	<0.50	<0.50	-	-	
05/12/2004	<500	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
12/01/2004	<500	<100	16	<2.5	<2.5	<2.5	<2.5	<2.5	
05/02/2005	<200	<40	50	<1.0	<1.0	<1.0	<1.0	<1.0	
11/16/2005	<200	<40	32	<1.0	<1.0	<1.0	<1.0	<1.0	a
5/31/2006	<300	<20	28	<0.50	<0.50	<0.50	<0.50	<0.50	a
12/6/2006	<300	<20	19	<0.50	<0.50	<0.50	<0.50	<0.50	a
5/15/2007	<300	<20	18	<0.50	<0.50	<0.50	<0.50	<0.50	
11/29/2007	<300	<20	18	<0.50	<0.50	<0.50	<0.50	<0.50	
5/6/2008	<1,500	<50	2.6	<2.5	<2.5	<2.5	<2.5	<2.5	
11/24/2008	<300	<10	11	<0.50	<0.50	<0.50	<0.50	<0.50	
4/9/2009	<300	<10	4.0	<0.50	<0.50	<0.50	<0.50	<0.50	
11/24/2009	<300	<10	6.5	<0.50	<0.50	<0.50	<0.50	<0.50	
5/26/2010	<300	<10	0.94	<0.50	<0.50	<0.50	<0.50	<0.50	
2/16/2011	<300	<10	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
5/11/2011	<1,200	<40	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
11/28/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/5/2012	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
12/6/2012	<300	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
6/4/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
S-5									
4/11/2002	-	-	<500	-	-	-	-	-	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #2035, 1001 San Pablo Ave., Albany, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
S-5 Cont.									
11/27/2002	—	—	<50	—	—	—	—	—	
6/3/2003	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
6/3/2003	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
6/3/2003	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
6/3/2003	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
11/13/2003	<10,000	<2,000	<50	<50	<50	<50	—	—	
05/12/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
12/01/2004	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
05/02/2005	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
11/16/2005	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	a
5/31/2006	<3,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	a
12/6/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	a
5/15/2007	<3,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
11/29/2007	<1,500	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
5/6/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/24/2008	<6,000	<200	<10	<10	<10	<10	<10	<10	
4/9/2009	<6,000	<200	<10	<10	<10	<10	<10	<10	
2/16/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
5/11/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/5/2012	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
12/6/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/4/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Symbols & Abbreviations:

-- = Not analyzed/applicable/measured/available

< = Not detected at or above the laboratory reporting limit

1,2-DCA = 1,2-Dichloroethane

DIPE = Di-isopropyl 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

Footnote:

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

b = Sample taken from VOA vial with air bubble > 6mm diameter

c = LW Quantitated against gasoline

Notes:

All volatile organic compounds analyzed using EPA Method 8260B

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

**Table 1
Groundwater Monitoring Data**

**ARCO Service Station No. 2035
1001 San Pablo Avenue, Albany, California**

Well Number	Date Gauged	TOC	Depth	FP	Groundwater		Ethyl-	Total	MTBE	MTBE	Dissolved	Purgcd/ Not Purgcd			
		Elevation (ft-MSL)	to Water (feet)	Thickness (feet)	Elevation [1] (ft-MSL)	Date Sampled							TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)
MW-1	03-24-95	41.41	6.21	0.00	35.20	03-24-95	8,800	3,600	<50	62	99	--	--	--	--
MW-1	05-24-95	41.41	9.37	0.00	32.04	05-24-95	4,800	2,000	<20	52	<20	--	--	--	--
MW-1	08-22-95	41.41	10.30	0.00	31.11	08-22-95	780	310	<2.5	12	<2.5	14	--	--	--
MW-1	11-09-95	41.41	12.25	0.00	29.16	11-09-95	58	14	<0.5	<0.5	<0.5	--	--	--	--
MW-1	02-27-96	41.41	9.08	0.00	32.33	02-27-96	2,700	930	12	18	32	51	--	--	--
MW-1	04-22-96	41.41	9.11	0.00	32.30	04-22-96	2,700	1,000	<10	22	<10	<60	--	--	--
MW-1	08-15-96	41.41	10.37	0.00	31.04	08-15-96	300	52	<0.5	0.9	<0.5	22	--	--	--
MW-1	12-10-96	41.41	8.79	0.00	32.62	12-10-96	270	63	0.7	<0.5	1	25	--	--	--
MW-1	03-27-97	41.41	9.80	0.00	31.61	03-27-97	1,500	610	<5	15	7	56	--	--	--
MW-1	05-22-97	41.41	9.65	0.00	31.76	05-22-97	110	6	<0.5	<0.5	0.7	10	--	--	--
MW-1	09-04-97	41.41	10.22	0.00	31.19	09-04-97	180	40	<0.5	1.2	0.5	26	--	--	--
MW-1	11-03-97	41.41	10.68	0.00	30.73	11-03-97	83	8	<0.5	<0.5	<0.5	13	--	--	--
MW-1	02-20-98	41.41	6.92	0.00	34.49	02-20-98	1,800	540	7	27	31	46	--	--	--
MW-1	05-18-98	41.41	9.28	0.00	32.13	05-18-98	4,500	1,300	20	57	20	<60	--	--	--
MW-1	08-20-98	41.41	10.05	0.00	31.36	08-21-98	530	110	<5	<5	<5	400	--	--	--
MW-1	10-20-98	41.41	10.42	0.00	30.99	10-20-98	66	9.1	<0.5	<0.5	<0.5	8	--	--	--
MW-1	02-16-99	41.41	8.10	0.00	33.31	02-16-99	1,200	390	<5	<5	6	45	--	--	--
MW-1	05-24-99	41.41	9.53	0.00	31.88	05-24-99	1,300	600	3	13	3	26	--	--	--
MW-1	08-24-99	41.41	10.03	0.00	31.38	08-24-99	100	21	1.3	<0.5	<0.5	8	--	0.55	P
MW-1	11-16-99	41.41	9.80	0.00	31.61	11-16-99	99	10	0.6	<0.5	<1	7	--	2.1	P
MW-1	02-01-00	41.41	8.82	0.00	32.59	02-02-00	400	93	1.6	3.6	3.7	19	--	1.0	P
DUP 1	06-21-00	--	--	--	--	06-21-00	416	88.4	<2.50	4.61	1.56	<5.00	--	--	--
MW-1	06-21-00	41.41	9.60	0.00	31.81	06-21-00	444	100	<2.50	4.15	<2.50	15.9	--	1.7	P
MW-1	11-06-00	41.41	9.50	0.00	31.91	11-06-00	73.2	17.8	<0.500	<0.500	<0.500	7.80	--	1.04	P
MW-1	05-04-01	41.41	9.28	0.00	32.13	05-04-01	714	392	<5.00	<5.00	<5.00	26.1	--	--	P
MW-1	10-03-01	41.41	10.50	0.00	30.91	10-03-01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	0.59	P
DUP 1	10-03-01	--	--	--	--	10-03-01	<50	<0.50	<0.50	<0.50	0.52	<2.5	--	--	--

**Table 1
Groundwater Monitoring Data**

**ARCO Service Station No. 2035
1001 San Pablo Avenue, Albany, California**

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation [1] (ft-MSL)	Date Sampled	TPIg ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl-benzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	MTBE 8021B* ($\mu\text{g/L}$)	MTBE 8240/8260 ($\mu\text{g/L}$)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)		
MW-2	03-24-95	40.38	6.96	0.00	33.42	03-24-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-2	05-24-95	40.38	10.02	0.00	30.36	05-24-95	Not sampled: well sampled semi-annually, during the first and third quarters									--	--
MW-2	08-22-95	40.38	10.87	0.00	29.51	08-22-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-2	11-09-95	40.38	13.12	0.00	27.26	11-09-95	Not sampled: well sampled semi-annually, during the first and third quarters									--	--
MW-2	02-27-96	40.38	10.25	0.00	30.13	02-27-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-2	04-22-96	40.38	9.98	0.00	30.40	04-22-96	Not sampled: well sampled semi-annually, during the first and third quarters									--	--
MW-2	08-15-96	40.38	11.10	0.00	29.28	08-15-96	<50	<0.5	<0.5	<0.5	<0.5	4	--	--	--		
MW-2	12-10-96	40.38	10.00	0.00	30.38	12-10-96	Not sampled: well sampled semi-annually, during the first and third quarters									--	--
MW-2	03-27-97	40.38	10.38	0.00	30.00	03-27-97	<50	<0.5	<0.5	<0.5	<0.5	12	--	--	--		
MW-2	05-22-97	40.38	10.65	0.00	29.73	05-22-97	Not sampled: well sampled semi-annually, during the first and third quarters									--	--
MW-2	09-04-97	40.38	10.87	0.00	29.51	09-04-97	<50	<0.5	<0.5	<0.5	<0.5	19	--	--	--		
MW-2	11-03-97	40.38	11.25	0.00	29.13	11-03-97	<50	<0.5	<0.5	<0.5	<0.5	18	--	--	--		
MW-2	02-20-98	40.38	7.69	0.00	32.69	02-20-98	<50	0.5	<0.5	<0.5	<0.5	12	--	--	--		
MW-2	05-18-98	40.38	9.88	0.00	30.50	05-18-98	<50	<0.5	<0.5	<0.5	<0.5	10	--	--	--		
MW-2	08-20-98	40.38	10.62	0.00	29.76	08-21-98	<50	<0.5	<0.5	<0.5	<0.5	3	--	--	--		
MW-2	10-20-98	40.38	11.00	0.00	29.38	10-20-98	<50	<0.5	<0.5	<0.5	<0.5	31	--	--	--		
MW-2	02-16-99	40.38	9.04	0.00	31.34	02-16-99	<50	<0.5	<0.5	<0.5	<0.5	13	--	--	--		
MW-2	05-24-99	40.38	9.90	0.00	30.48	05-24-99	<50	0.6	<0.5	<0.5	<0.5	47	--	--	--		
MW-2	08-24-99	40.38	10.60	0.00	29.78	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	20	--	0.88	P		
MW-2	11-16-99	40.38	10.45	0.00	29.93	11-16-99	<50	<0.5	<0.5	<0.5	<1	<3	--	2.5	P		
MW-2	02-01-00	40.38	9.49	0.00	30.89	02-02-00	<50	<0.5	<0.5	<0.5	<1	59	--	1.0	P		
MW-2	06-21-00	40.38	10.30	0.00	30.08	06-21-00	<50.0	<0.500	<0.500	<0.500	<0.500	4.17	--	1.5	P		
MW-2	11-06-00	40.38	10.19	0.00	30.19	11-06-00	<50.0	<0.500	<0.500	<0.500	<0.500	30.6	--	1.27	P		
MW-2	05-04-01	40.38	10.15	0.00	30.23	05-04-01	<50.0	<0.500	<0.500	<0.500	<0.500	32.7	--	--	P		
DUP	05-04-01	--	--	--	--	05-04-01	<50.0	<0.500	<0.500	<0.500	1.18	31.5	--	--	--		
MW-2	10-03-01	40.38	10.97	0.00	29.41	10-03-01	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	0.63	P		

**Table 1
Groundwater Monitoring Data**

**ARCO Service Station No. 2035
1001 San Pablo Avenue, Albany, California**

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater		TPHg ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethyl-benzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)	MTBE 8021B* ($\mu\text{g/L}$)	MTBE 8240/8260 ($\mu\text{g/L}$)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
					Elevation [1] (ft-MSL)	Date Sampled									
MW-3	03-24-95	41.44	7.29	0.00	34.15	03-24-95	51	0.8	<0.5	2.4	<0.5	--	--	--	--
MW-3	05-24-95	41.44	9.53	0.00	31.91	05-24-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-3	08-22-95	41.44	11.19	0.00	30.25	08-22-95	<50	<0.5	<0.5	<0.5	<0.5	79	--	--	--
MW-3	11-09-95	41.44	12.77	0.00	28.67	11-09-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-3	02-27-96	41.44	9.41	0.00	32.03	02-27-96	120	3.6	<0.5	2.2	3.7	90	--	--	--
MW-3	04-22-96	41.44	9.63	0.00	31.81	04-22-96	<50	<0.5	<0.5	<0.5	<0.5	90	--	--	--
MW-3	08-15-96	41.44	11.12	0.00	30.32	08-15-96	<50	<0.5	<0.5	<0.5	<0.5	54	--	--	--
MW-3	12-10-96	41.44	10.34	0.00	31.10	12-10-96	71	<0.5	<0.5	<0.5	<0.5	130	--	--	--
MW-3	03-27-97	41.44	10.28	0.00	31.16	03-27-97	<100	<1	<1	<1	<1	170	--	--	--
MW-3	05-22-97	41.44	10.40	0.00	31.04	05-22-97	<100	<1	<1	<1	<1	95	--	--	--
MW-3	09-04-97	41.44	10.75	0.00	30.69	09-04-97	<50	<0.5	<0.5	<0.5	<0.5	37	--	--	--
MW-3	11-03-97	41.44	11.44	0.00	30.00	11-03-97	<200	<2	<2	<2	<2	130	--	--	--
MW-3	02-20-98	41.44	7.48	0.00	33.96	02-20-98	<200	<2	5	<2	8	140	--	--	--
MW-3	05-18-98	41.44	9.87	0.00	31.57	05-18-98	<100	<1	<1	<1	<1	150	--	--	--
MW-3	08-20-98	41.44	10.72	0.00	30.72	08-21-98	<200	<2	<2	<2	<2	210	--	--	--
MW-3	10-20-98	41.44	11.30	0.00	30.14	10-20-98	<200	<2	<2	<2	<2	270	--	--	--
MW-3	02-16-99	41.44	8.60	0.00	32.84	02-16-99	<500	<5	<5	<5	<5	700	--	--	--
MW-3	05-24-99	41.44	9.87	0.00	31.57	05-24-99	<50	<0.5	<0.5	<0.5	<0.5	150	140	--	--
MW-3	08-24-99	41.44	10.83	0.00	30.61	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	54	71	0.41	P
MW-3	11-16-99	41.44	10.54	0.00	30.90	11-16-99	100	<0.5	3.3	<0.5	<1	500	--	6.2	P
MW-3	02-01-00	41.44	5.69	0.00	35.75	02-02-00	18,000	1,000	45	1,500	940	100	--	2.12	P
MW-3	06-21-00	41.44	9.99	0.00	31.45	06-21-00	90.9	1.52	<0.500	<0.500	<0.500	187	--	2.6	P
MW-3	11-06-00	41.44	10.15	0.00	31.29	11-06-00	138	2.37	<0.500	<0.500	<0.500	216	--	0.47	P
MW-3	05-04-01	41.44	10.17	0.00	31.27	05-04-01	316	15.7	1.14	<0.500	<0.500	178	--	--	P
MW-3	10-03-01	41.44	10.99	0.00	30.45	10-03-01	120	<0.50	<0.50	<0.50	<0.50	120	--	0.47	P

**Table 1
Groundwater Monitoring Data**

**ARCO Service Station No. 2035
1001 San Pablo Avenue, Albany, California**

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater		TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MfBB 8021B* (µg/L)	MTBE 8240/8260 (µg/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
					Elevation [1] (ft-MSL)	Date Sampled									
MW-4	03-24-95	40.33	5.92	0.00	34.41	03-24-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-4	05-24-95	40.33	9.23	0.00	31.10	05-24-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-4	08-22-95	40.33	10.61	0.00	29.72	08-22-95	<50	<0.5	<0.5	<0.5	<0.5	99	--	--	--
MW-4	11-09-95	40.33	11.97	0.00	28.36	11-09-95	<50	<0.5	<0.5	<0.5	<0.5	--	89	--	--
MW-4	02-27-96	40.33	8.84	0.00	31.49	02-27-96	<50	0.8	<0.5	<0.5	<0.5	<3	--	--	--
MW-4	04-22-96	40.33	9.15	0.00	31.18	04-22-96	Not sampled: well sampled annually, during the first quarter							--	--
MW-4	08-15-96	40.33	10.35	0.00	29.98	08-15-96	Not sampled: well sampled annually, during the first quarter							--	--
MW-4	12-10-96	40.33	8.70	0.00	31.63	12-10-96	Not sampled: well sampled annually, during the first quarter							--	--
MW-4	03-27-97	40.33	9.75	0.00	30.58	03-27-97	<5,000	<50	<50	<50	<50	4,200	--	--	--
MW-4	05-22-97	40.33	9.91	0.00	30.42	05-22-97	Not sampled: well sampled annually, during the first quarter							--	--
MW-4	09-04-97	40.33	10.25	0.00	30.08	09-04-97	Not sampled: well sampled annually, during the first quarter							--	--
MW-4	11-03-97	40.33	10.79	0.00	29.54	11-03-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
MW-4	02-20-98	40.33	6.78	0.00	33.55	02-20-98	<2,000	<20	<20	<20	<20	3,300	--	--	--
MW-4	05-18-98	40.33	9.26	0.00	31.07	05-18-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
MW-4	08-20-98	40.33	10.10	0.00	30.23	08-21-98	<50	<0.5	<0.5	<0.5	<0.5	9	--	--	--
MW-4	10-20-98	40.33	10.43	0.00	29.90	10-20-98	<50	<0.5	<0.5	<0.5	<0.5	17	--	--	--
MW-4	02-16-99	40.33	8.56	0.00	31.77	02-16-99	<500	<5	<5	<5	<5	400	--	--	--
MW-4	05-24-99	40.33	9.52	0.00	30.81	05-24-99	<50	<0.5	<0.5	<0.5	<0.5	10	7.6	--	--
MW-4	08-24-99	40.33	9.99	0.00	30.34	08-24-99	<2,500	<25	<25	<25	<25	1,200	1,300	0.84	NP
MW-4	11-16-99	40.33	9.80	0.00	30.53	11-16-99	<50	<0.5	<0.5	<0.5	<1	<3	--	0.0	NP
MW-4	02-01-00	40.33	9.11	0.00	31.22	02-02-00	<50	<0.5	<0.5	<0.5	<1	1,200	--	1.0	NP
MW-4	06-21-00	40.33	9.60	0.00	30.73	06-21-00	<50.0	<0.500	<0.500	<0.500	<0.500	60.5	--	1.3	NP
MW-4	11-06-00	40.33	9.53	0.00	30.80	11-06-00	<50.0	<0.500	<0.500	<0.500	<0.500	14.0	--	0.71	NP
MW-4	05-04-01	40.33	9.21	0.00	31.12	05-04-01	<50.0	<0.500	<0.500	<0.500	<0.500	83.6	--	--	NP
MW-4	10-03-01	40.33	10.74	0.00	29.59	10-03-01	<50	<0.50	<0.50	<0.50	<0.50	260	--	0.59	NP

**Table 1
Groundwater Monitoring Data**

**ARCO Service Station No. 2035
1001 San Pablo Avenue, Albany, California**

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation [1] (ft-MSL)	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8240/8260 (µg/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)	
MW-5	03-24-95	41.84	6.23	0.00	35.61	03-24-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
MW-5	05-24-95	41.84	9.61	0.00	32.23	05-24-95	Not sampled; well sampled annually, during the first quarter								--	--
MW-5	08-22-95	41.84	11.12	0.00	30.72	08-22-95	Not sampled; well sampled annually, during the first quarter								--	--
MW-5	11-09-95	41.84	12.52	0.00	29.32	11-09-95	Not sampled; well sampled annually, during the first quarter								--	--
MW-5	02-27-96	41.84	9.52	0.00	32.32	02-27-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
MW-5	04-22-96	41.84	9.44	0.00	32.40	04-22-96	Not sampled; well sampled annually, during the first quarter								--	--
MW-5	08-15-96	41.84	10.83	0.00	31.01	08-15-96	Not sampled; well sampled annually, during the first quarter								--	--
MW-5	12-10-96	41.84	9.20	0.00	32.64	12-10-96	Not sampled; well sampled annually, during the first quarter								--	--
MW-5	03-27-97	41.84	10.10	0.00	31.74	03-27-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
MW-5	05-22-97	41.84	10.28	0.00	31.56	05-22-97	Not sampled; well sampled annually, during the first quarter								--	--
MW-5	09-04-97	41.84	10.73	0.00	31.11	09-04-97	Not sampled; well sampled annually, during the first quarter								--	--
MW-5	11-03-97	41.84	11.23	0.00	30.61	11-03-97	Not sampled; well sampled annually, during the first quarter								--	--
MW-5	02-20-98	41.84	6.67	0.00	35.17	02-20-98	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
MW-5	05-18-98	41.84	9.61	0.00	32.23	05-18-98	Not sampled; well sampled annually, during the first quarter								--	--
MW-5	08-20-98	41.84	10.58	0.00	31.26	08-21-98	Not sampled; well sampled annually, during the first quarter								--	--
MW-5	10-20-98	41.84	10.66	0.00	31.18	10-20-98	Not sampled; well sampled annually, during the first quarter								--	--
MW-5	02-16-99	41.84	8.35	0.00	33.49	02-16-99	Not sampled								--	--
MW-5	05-24-99	41.84	9.95	0.00	31.89	05-24-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
MW-5	08-24-99	41.84	10.51	0.00	31.33	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.79	NP	
MW-5	11-16-99	41.84	10.37	0.00	31.47	11-16-99	Not sampled; well sampled annually, during the second quarter								--	--
MW-5	02-01-00	41.84	9.35	0.00	32.49	02-02-00	<50	<0.5	<0.5	<0.5	<1	<3	--	1.0	NP	
MW-5	06-21-00	41.84	10.03	0.00	31.81	06-21-00	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	3.1	NP	
MW-5	11-06-00	41.84	9.89	0.00	31.95	11-06-00	Not sampled; well sampled annually, during the second quarter								--	--
MW-5	05-04-01	41.84	9.42	0.00	32.42	05-04-01	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--	NP	
MW-5	10-03-01	41.84	10.55	0.00	31.29	10-03-01	Not sampled; well sampled annually, during the second quarter								--	--

Table 1
Groundwater Monitoring Data
ARCO Service Station No. 2035
1001 San Pablo Avenue, Albany, California

Well Number	Date Gauged	TOC Elevation (ft.-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation [1] (ft.-MSL)	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8240/8260 (µg/L)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)	
MW-6	03-24-95	40.13	9.03	0.00	31.10	03-24-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
MW-6	05-24-95	40.13	12.45	0.00	27.68	05-24-95	Not sampled: well sampled annually, during the first quarter								--	--
MW-6	08-22-95	40.13	13.32	0.00	26.81	08-22-95	Not sampled: well sampled annually, during the first quarter								--	--
MW-6	11-09-95	40.13	14.13	0.00	26.00	11-09-95	Not sampled: well sampled annually, during the first quarter								--	--
MW-6	02-27-96	40.13	11.86	0.00	28.27	02-27-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
MW-6	04-22-96	40.13	12.35	0.00	27.78	04-22-96	Not sampled: well sampled annually, during the first quarter								--	--
MW-6	08-15-96	40.13	13.18	0.00	26.95	08-15-96	Not sampled: well sampled annually, during the first quarter								--	--
MW-6	12-10-96	40.13	11.94	0.00	28.19	12-10-96	Not sampled: well sampled annually, during the first quarter								--	--
MW-6	03-27-97	40.13	13.10	0.00	27.03	03-27-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
MW-6	05-22-97	40.13	13.00	0.00	27.13	05-22-97	Not sampled: well sampled annually, during the first quarter								--	--
MW-6	09-04-97	40.13	13.30	0.00	26.83	09-04-97	Not sampled: well sampled annually, during the first quarter								--	--
MW-6	11-03-97	40.13	13.42	0.00	26.71	11-03-97	<50	<0.5	<0.5	<0.5	<0.5	19	--	--	--	
MW-6	02-20-98	40.13	10.57	0.00	29.56	02-20-98	<100	<1	<1	<1	<1	95	--	--	--	
MW-6	05-18-98	40.13	12.64	0.00	27.49	05-18-98	<100	<1	<1	<1	<1	180	--	--	--	
MW-6	08-20-98	40.13	13.13	0.00	27.00	08-21-98	<100	<1	<1	<1	<1	180	--	--	--	
MW-6	10-20-98	40.13	13.48	0.00	26.65	10-20-98	<100	<1	<1	<1	<1	180	--	--	--	
MW-6	02-16-99	40.13	11.92	0.00	28.21	02-16-99	<200	<2	<2	<2	<2	200	--	--	--	
MW-6	05-24-99	40.13	12.80	0.00	27.33	05-24-99	<50	<0.5	<0.5	<0.5	<0.5	120	--	--	--	
MW-6	08-24-99	40.13	13.03	0.00	27.10	08-24-99	<50	<0.5	<0.5	<0.5	<0.5	44	--	0.46	NP	
MW-6	11-16-99	40.13	12.70	0.00	27.43	11-16-99	<50	<0.5	<0.5	<0.5	<1	17	17	0.0	NP	
MW-6	02-01-00	40.13	8.61	0.00	31.52	02-02-00	<50	<0.5	<0.5	<0.5	<1	6	--	1.0	NP	
MW-6	06-21-00	40.13	12.88	0.00	27.25	06-21-00	<50.0	<0.500	<0.500	<0.500	<0.500	2.57	--	2.8	NP	
MW-6	11-06-00	40.13	12.74	0.00	27.39	11-06-00	<50.0	<0.500	<0.500	<0.500	<0.500	3.77	--	1.51	NP	
DUP	11-06-00	--	--	--	--	11-06-00	<50.0	<0.500	<0.500	<0.500	<0.500	4.03	--	--	--	
MW-6	05-04-01	40.13	11.29	0.00	28.84	05-04-01	<50.0	<0.500	<0.500	<0.500	<0.500	10.5	12.3	--	NP	
MW-6	10-03-01	40.13	11.35	0.00	28.78	10-03-01	<50	<0.50	<0.50	<0.50	<0.50	5.8	4.8	0.61	NP	

**Table 1
Groundwater Monitoring Data**

**ARCO Service Station No. 2035
1001 San Pablo Avenue, Albany, California**

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation [1] (ft-MSL)	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8240/8260 (µg/L)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
RW-1	03-24-95	40.33	9.32	0.01	31.02	03-24-95	11,000	560	660	150	1,700	--	--	--	--
RW-1	05-24-95	40.33	9.75	0.03	30.60	05-24-95	Not sampled: well contained floating product							--	--
RW-1	08-22-95	40.33	10.86	0.02	29.48	08-22-95	Not sampled: well contained floating product							--	--
RW-1	11-09-95	40.33	20.61	0.00	19.72	11-09-95	1,600	79	46	13	240	--	--	--	--
RW-1	02-27-96	40.33	16.56	0.00	23.77	02-27-96	210	44	7.5	2.5	24	29	--	--	--
RW-1	04-22-96	40.33	9.65	0.00	30.68	04-22-96	36,000	7,400	3,700	580	3,400	<300	--	--	--
RW-1	08-15-96	40.33	10.60	0.00	29.73	08-15-96	1,800	31	38	15	150	<30	--	--	--
RW-1	12-10-96	40.33	8.72	0.00	31.61	12-10-96	25,000	1,900	1,000	330	3,200	<100	--	--	--
RW-1	03-27-97	40.33	10.33	0.00	30.00	03-27-97	7,200	1,900	59	95	240	480	--	--	--
RW-1	05-22-97	40.33	10.10	0.00	30.23	05-22-97	3,000	630	84	45	340	<60	--	--	--
RW-1	09-04-97	40.33	10.42	0.00	29.91	09-04-97	7,100	120	55	14	160	<60	--	--	--
RW-1	11-03-97	40.33	9.10	0.00	31.23	11-03-97	<200	14	19	3	19	140	--	--	--
RW-1	02-20-98	40.33	7.49	0.00	32.84	02-20-98	3,800	1,000	85	64	220	950	--	--	--
RW-1	05-18-98	40.33	8.90	0.00	31.43	05-18-98	<200	45	<2	2	4	220	--	--	--
RW-1	08-20-98	40.33	11.06	0.00	29.27	08-21-98	480	200	<2	<2	30	180	--	--	--
RW-1	10-20-98	40.33	11.12	0.00	29.21	10-20-98	110	36	2.9	<0.5	4.1	5	--	--	--
RW-1	02-16-99	40.33	7.70	0.00	32.63	02-17-99	250	61	2	2	19	94	--	--	--
RW-1	05-24-99	40.33	11.12	0.00	29.21	05-24-99	4,500	2,000	7	<2	180	35	--	--	--
RW-1	08-24-99	40.33	10.15	0.00	30.18	08-24-99	2,600	1,100	6.3	2.3	17	39	--	0.52	NP
RW-1	11-16-99	40.33	9.95	0.00	30.38	11-16-99	1,200	2,600	16	86	41	140	--	1.4	P
RW-1	02-01-00	40.33	11.88	0.00	28.45	02-02-00	11,000	980	230	200	1,400	38	--	1.0	NP
RW-1	06-21-00	40.33	9.83	0.00	30.50	06-21-00	899	278	<2.50	8.70	8.46	61.1	--	1.3	NP
RW-1	11-06-00	40.33	8.45	0.00	31.88	11-06-00	156,000	3,260	28,800	4,570	25,700	26,200	--	0.63	P
RW-1	05-04-01	40.33	8.57	0.00	31.76	05-04-01	244,000	8,420	56,000	5,660	36,200	23,400	11,000	--	P
RW-1	10-03-01	40.33	9.13	0.00	31.20	10-03-01	120,000	2,500	33,000	3,800	21,000	3,300	--	0.38	P
S-5	05-31-01	--	--	--	--	05-31-01	310,000	3,000	11,000	4,000	34,000	<2,500	--	--	--
S-5	10-03-01	--	10.00	--	--	10-03-01	70,000	1,800	7,800	1,400	20,000	<120	--	0.25	NP

**Table 1
Groundwater Monitoring Data**

**ARCO Service Station No. 2035
1001 San Pablo Avenue, Albany, California**

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation [1] (ft-MSL)	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8240/8260 (µg/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
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TOC: top of casing

ft-MSL: elevation in feet, relative to mean sea level

TPH: total petroleum hydrocarbons as gasoline, California DHSI UFT Method

FIX: benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8020 prior to 11/16/99).

MTBE: Methyl tert-butyl ether

µg/l.: micrograms per liter

mg/L.: milligrams per liter

- -: not analyzed or not applicable

<: denotes concentration not present at or above laboratory detection limit stated to the right.

[1] = Computed by adding correction factor to groundwater elevation. Correction factor = free product thickness times 0.73 (approximate specific gravity of gasoline).

*: EPA method 8020 prior to 11/16/99

**: For previous historical groundwater elevation and analytical data please refer to *Fourth Quarter 1995 Groundwater Monitoring Program Results and Remediation System Performance Evaluation Report, ARCO Service Station 2035, Albany, California*, (EMCON, March 25, 1996).

DUP: duplicate sample



Working to Restore Nature

Additional Onsite and Initial Offsite Subsurface Investigation
ARCO Station 2035, Albany, California

April 30, 1993
69036.07

TABLE I
CUMULATIVE GROUNDWATER MONITORING DATA
ARCO Station 2035
Albany, California
(Page 1 of 3)

Well Date	Elevation of Wellhead (TOC)	Depth to Water	Elevation of Groundwater	Evidence of Product
<u>MW-1</u>				
10/29/91	41.41	11.86	29.55	None
11/07/91		10.94	30.47	None
11/14/91		10.97	30.44	None
01/19/92		10.06	31.35	None
02/19/92		8.65	32.76	None
03/19/92		8.33	33.08	None
04/21/92		9.32	32.09	None
05/12/92		9.82	31.59	None
06/12/92		10.50	30.91	None
07/15/92		10.69	30.72	None
08/07/92		10.53	30.88	None
09/08/92		11.04	30.37	None
10/26/92		11.24	30.17	None
11/23/92		10.90	30.51	None
12/16/92		9.40	32.01	None
01/13/93		7.73	33.68	None
02/22/93		7.56	33.85	None
<u>MW-2</u>				
10/29/91	40.38	11.10	29.28	None
11/07/91		11.20	29.18	None
11/14/91		11.21	29.17	None
01/19/92		10.44	29.94	None
02/19/92		8.70	31.68	None
03/19/92		8.84	31.54	None
04/21/92		9.80	30.58	None
05/12/92		10.29	30.09	None
06/12/92		10.95	29.43	None
07/15/92		11.15	29.23	None
08/07/92		11.01	29.37	None
09/08/92		11.41	28.97	None
10/26/92		11.60	28.78	None
11/23/92		7.31	33.07	None
12/16/92		9.82	30.56	None
01/13/93		8.25	32.13	None
02/22/93		8.25	32.13	None
<u>MW-3</u>				
10/29/91	41.44	11.62	29.82	None
11/07/91		11.52	29.92	None
11/14/91		11.50	29.94	None
01/19/92		10.56	30.88	None

See notes on Page 3 of 3.



Working to Restore Nature

Additional Onsite and Initial Offsite Subsurface Investigation
ARCO Station 2035, Albany, California

April 30, 1993
69036.07

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
ARCO Station 2035
Albany, California
(Page 2 of 3)

Well Date	Elevation of Wellhead (TOC)	Depth to Water	Elevation of Groundwater	Evidence of Product
<u>MW-3cont.</u>				
02/19/92	41.44	9.52	31.92	None
03/19/92		9.01	32.43	None
04/21/92		9.70	31.74	None
05/12/92		10.29	31.15	None
06/12/92		11.26	30.18	None
07/15/92		11.28	30.16	None
08/07/92		11.15	30.29	None
09/08/92		11.70	29.74	None
10/26/92		12.15	29.29	None
11/23/92		12.55	28.89	None
12/16/92		10.15	31.29	None
01/13/93		9.12	32.32	None
02/22/93		8.18	33.26	None
<u>MW-4</u>				
01/13/93	40.33	8.05	32.28	None
02/22/93		7.58	32.75	None
<u>MW-5</u>				
01/13/93	41.84	8.22	33.62	None
02/22/93		7.92	33.92	None
<u>MW-6</u>				
01/13/93	40.13	9.84	30.29	None
02/22/93		9.94	30.19	None
<u>RW-1</u>				
10/28/91	40.33	10.85	29.48	Sheen
11/07/91		11.97	28.36	0.01
11/14/91		11.09	29.30	0.01
01/19/92		10.22*	30.11*	3.26
02/19/92		8.49*	31.84*	2.14
03/19/92		8.50*	31.83*	0.50
04/21/92		9.68*	30.65	0.03
05/12/92		10.47	29.86	Product not measured
06/12/92		11.41	28.92	Product not measured
07/15/92		11.35	28.98	None
08/07/92		10.80*	29.53*	0.02
09/08/92		10.80*	29.53*	0.62
10/26/92		11.42*	28.91*	0.04
11/23/92		10.94	29.39	Sheen

See notes on Page 3 of 3.



Working to Restore Nature

Additional Onsite and Initial Offsite Subsurface Investigation
ARCO Station 2035, Albany, California

April 30, 1993
69036.07

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
ARCO Station 2035
Albany, California
(Page 3 of 3)

Well Date	Elevation of Wellhead (TOC)	Depth to Water	Elevation of Groundwater	Evidence of Product
<u>RW-1cont.</u>				
12/16/92	40.33	9.78*	30.55*	0.51
01/13/93		8.35	31.98	Product in skimmer
02/22/93		7.94*	32.39*	0.01

Wellhead Elevation based on benchmark (B1198): A standard Bronze Disk in the sidewalk 0.2' behind the face of curb on the northerly side of Main Avenue 6' +/- westerly of the curb return at the northeast corner of Main Avenue and San Pablo Avenue at an elevation of 40.426 feet above mean sea level, City of Albany, California.

(TOC) = Top-of-casing elevation

Depth-to-water measurements in feet below the top of the well casing.

*Adjusted water level due to product. The recorded thickness of the floating product was multiplied by 0.80 to obtain an approximate value for the displacement of water by the floating product. This approximate displacement value was then subtracted from the measured depth to water to obtain a calculated depth to water. These calculated groundwater depths were subtracted from surveyed wellhead elevations to obtain the adjusted groundwater elevations.