

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

October 9, 2014

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

Charles W. and Su H. Kim
4312 Lautrec Drive
San Jose, CA 95135-1778

Subject: Case Closure for Fuel Leak Case No. RO0000072 and GeoTracker Global ID T0600100112, ARCO #2169, 889 West Grand Avenue, Oakland, CA 94607

Dear Charles Carmel and Charles W. and Su H. Kim:

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,

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

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

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

Responsible Parties
RO0000072
October 9, 2014
Page 2

Cc w/enc.:

Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 2032 (*Sent via E-mail to: lgriffin@oaklandnet.com*)

Kristene Tidwell, Broadbent, 4820 Business Center Drive, Suite 110, Fairfield, CA 94534 (*Sent via E-mail to: ktidwell@broadbentinc.com*)

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

GeoTracker
eFile (w/orig enc)

ALAMEDA COUNTY
**HEALTH CARE SERVICES
AGENCY**

ALEX BRISCOE, Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
OFFICE OF THE DIRECTOR
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6777
FAX (510) 337-9135

REMEDIAL ACTION COMPLETION CERTIFICATION

October 9, 2014

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

Charles W. and Su H. Kim
4312 Lautrec Drive
San Jose, CA 95135-1778

Subject: Case Closure for Fuel Leak Case No. RO0000072 and GeoTracker Global ID T0600100112, ARCO #2169, 889 West Grand Avenue, Oakland, CA 94607

Dear Charles Carmel and Charles W. and Su H. Kim:

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

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

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

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

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

Sincerely,


Ariu Levi
Director

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

I. AGENCY INFORMATION

Date: May 28, 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 #2169		
Site Facility Address: 889 West Grand Avenue, Oakland, CA 94		
RB Case No.: 01-0120	STID No. ----	LOP Case No.: RO0000072
GeoTracker ID: T0600100112		APN: 3-29-1
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
Charles W. and Su H. Kim	4312 Lautrec Drive San Jose, CA 95135-1778	No phone number

This Case Closure Summary along with the Case Closure Transmittal letter and the Remedial Action Completion Certification provides documentation of the case closure. 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. Additional information on the case can be viewed in the online case file. The entire case file can be viewed over the Internet on the Alameda County Environmental Health (ACEH) website (<http://www.acgov.org/aceh/lop/ust.htm>) or the State of California Water Resources Control Board GeoTracker website (<http://geotracker.waterboards.ca.gov>). Not all historic documents for the fuel leak case may be available on GeoTracker. A more complete historic case file for this site is located on the ACEH website.

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Release from underground storage tank (UST) system		
Number of monitoring wells installed: 10	Number of monitoring wells destroyed: 3	Number of monitoring wells remaining: 7
Highest Groundwater Depth Below Ground Surface: 7.27 feet bgs	Lowest Depth: 12.82 feet bgs	Flow Direction: West to northwest
Most Sensitive Current Groundwater Use: Potential drinking water source		

Summary of Production Wells in Vicinity: No water supply wells were 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: Glen Echo Creek is approximately 4,500 feet east of the site

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	>100 feet but <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	Generally decreasing over long term but recent increase in three wells	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	>1,000 feet	>250 feet	>1,000 feet	>1,000 feet	>1,000 feet
Property Owner Willing to Accept a Land Use Restriction?	Not applicable for groundwater specific criteria	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	2,400	300	No criteria	3,000	No criteria	1,000
MTBE	320	2.8	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?

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 March 26, 2014

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	3 to 10 feet	≥30 feet	≥30 feet	≥5 feet	≥10 feet	≥5 feet	≥5 feet
Total TPH in Bioattenuation Zone	140 ppm	<100 ppm	<100 ppm	<100 ppm	<100 ppm	<100 ppm	<100 ppm
Maximum Current Benzene Concentration in Groundwater	300 ppb	No criteria	No criteria	<100 ppb	≥100 and <1,000 ppb	<1,000 ppb	No criteria
Oxygen Data within Bioattenuation Zone	No oxygen data	No criteria	No criteria	No oxygen data or <4%	No oxygen data or <4%	≥4% at lower end of zone	≥4% at lower end of zone
Depth of soil vapor measurement beneath foundation	---	No criteria	No criteria	No criteria	No criteria	No criteria	≥5 feet

SCENARIO 4 DIRECT MEASUREMENT OF SOIL VAPOR CONCENTRATIONS

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

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

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

LTCP DIRECT CONTACT AND OUTDOOR AIR EXPOSURE CRITERIA

LTCP Direct Contact and Outdoor Air Exposure Specific Scenario under which case was closed: Maximum concentrations of petroleum hydrocarbons are less than or equal to those in Table 1 below for commercial/industrial land use. The maximum concentration of benzene in soil from 0 to 5 feet bgs is greater than the LTCP criteria. Therefore, the case was closed with site management requirements.

Are maximum concentrations less than those in Table 1 below? For commercial land use but not for residential land use

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	2.2	2.2	2.2	2.2	2.2
LTCP Criteria	Benzene	≤1.9	≤2.8	≤8.2	≤12	≤14
Site Maximum	Ethylbenzene	2.2	4.5	2.2	4.5	4.5
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?				---		

IV. CLOSURE

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:

This fuel leak case has been evaluated for closure consistent with the State Water Resource Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). The maximum concentration of benzene detected in shallow soil exceeds the numerical criteria for direct contact and outdoor air exposure prescribed in the LTCP for residential 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 contact exposure under the current land use. Therefore, case closure is granted for the current commercial land use.

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. ACEH will re-evaluate the case upon receipt of approved development/construction plans.

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.

This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.

Should corrective action be reviewed if land use changes? Yes

Was a deed restriction or deed notification filed? No

Date Recorded: ----

V. ADDITIONAL COMMENTS AND CONCLUSION

Additional Comments:

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

The concentrations of dissolved benzene and TPHg increased abruptly in 2006 and 2007 in groundwater from monitoring wells A-1 and A-5. The cause of the abrupt increases is unknown. Groundwater concentrations generally decreased in both wells after January 2009. However, groundwater concentrations increased again in well A-1 in 2011. An infiltration gallery that was installed at the site near well A-1 potentially may affect groundwater and contaminant migration.

Conclusion:

Alameda County Environmental Health staff believe that the site meets the conditions for case closure under the State Water Resources Control Board Low-Threat Underground Storage Tank Closure Policy. Based upon the information available in our files to date, no further investigation or cleanup for the fuel leak case is necessary at this time. However, as specified in the Site Management Requirements, re-evaluation of this case is required if land uses changes to any residential or other conservative land use, or any redevelopment occurs.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham	Title: Senior Hazardous Materials Specialist
Signature: <i>Jerry Wickham</i>	Date: 06/05/2014
Approved by: Dylan Roe	Title: LOP and SCP Program Manager
Signature: <i>Dylan Roe</i>	Date: 6/5/2014

VII. REGIONAL BOARD AND PUBLIC NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Regional Board Notification Date: 05/28/14	
Public Notification Date: 05/28/14	

VIII. MONITORING WELL DESTRUCTION

Date Requested by ACEH: 08/05/14	Date of Well Decommissioning Report: 10/08/14	
All Monitoring Wells Destroyed: Yes	Number Destroyed: 7	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: 10/09/14

Attachments:

1. Site Vicinity Map and Site Plans (4 pp)
2. Groundwater Contour and Chemical Concentration Maps (7 pp)
3. Concentration Graphs (3 pp)
4. Soil Analytical Data (9 pp)
5. Groundwater Analytical Data (36 pp)
6. Cross Sections (13 pp)

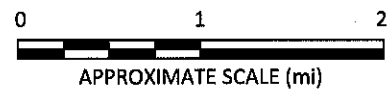
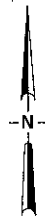
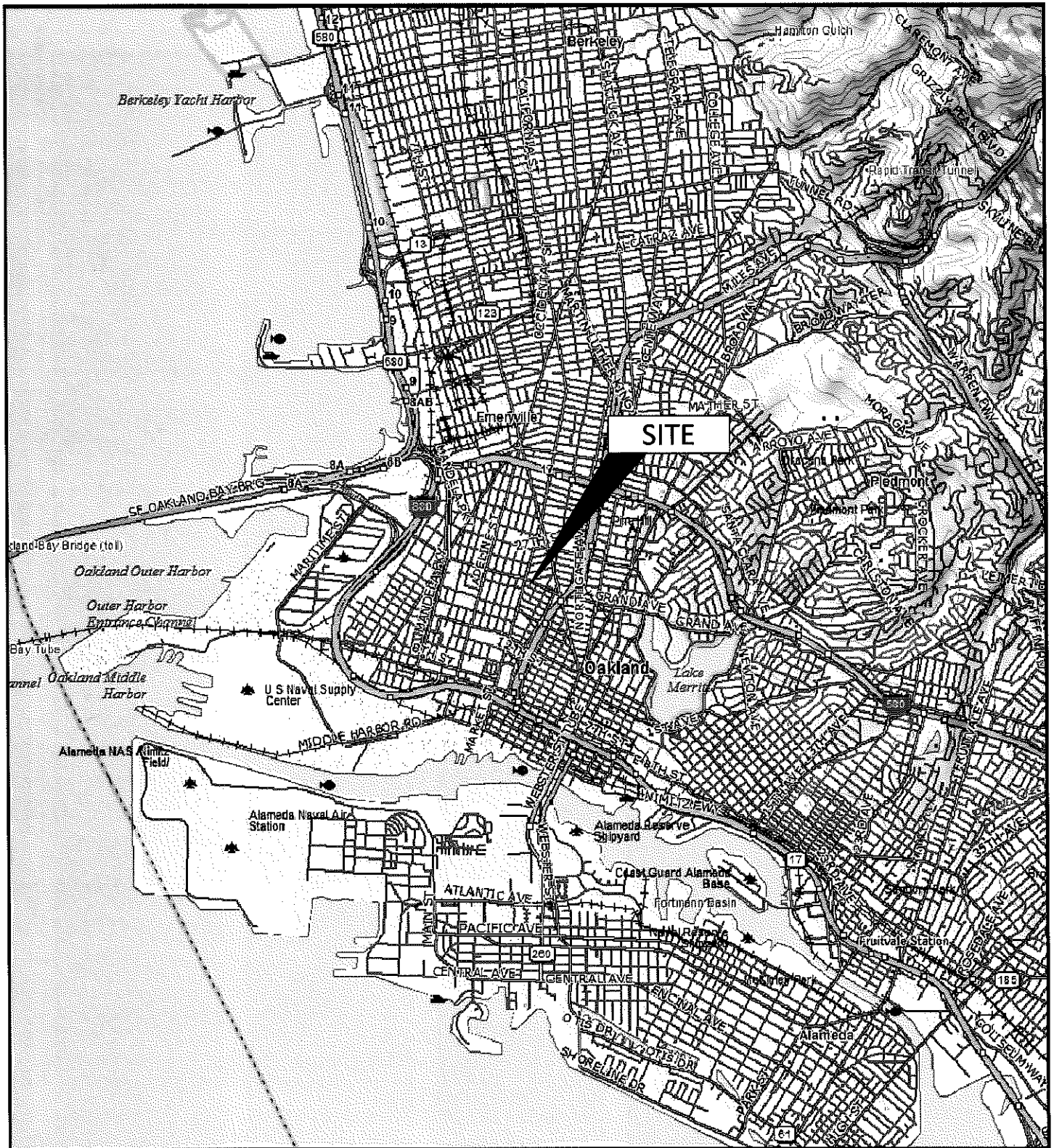


IMAGE SOURCE: DELORME

Drawing

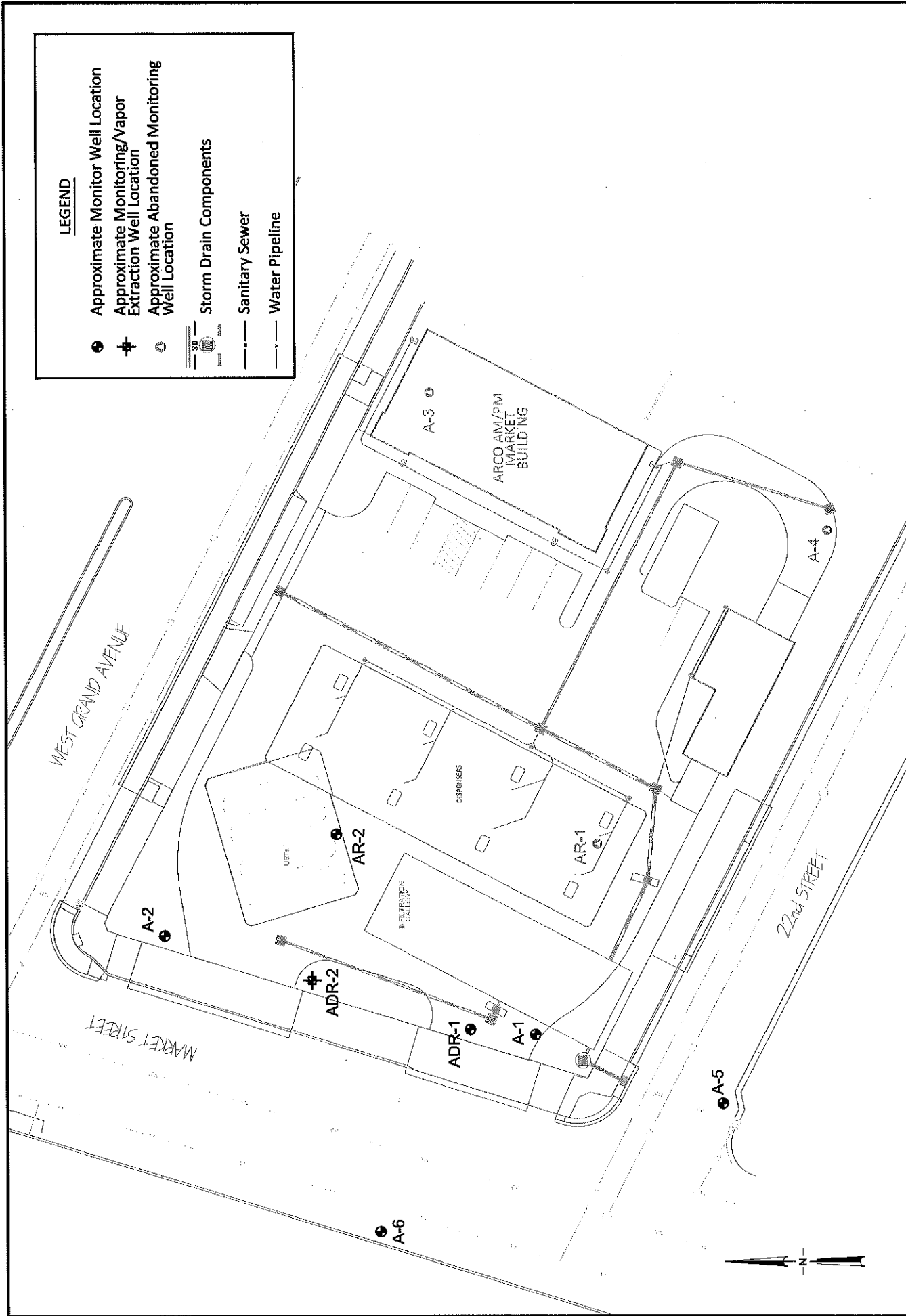
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BROADBENT
 1324 Mangrove Ave., Suite 212
 Chico, California 95926
 Project No.: 06-88-621 Date: 4/17/2013

ARCO Station #2169
 889 West Grand Avenue
 Oakland, California



Site Location Map

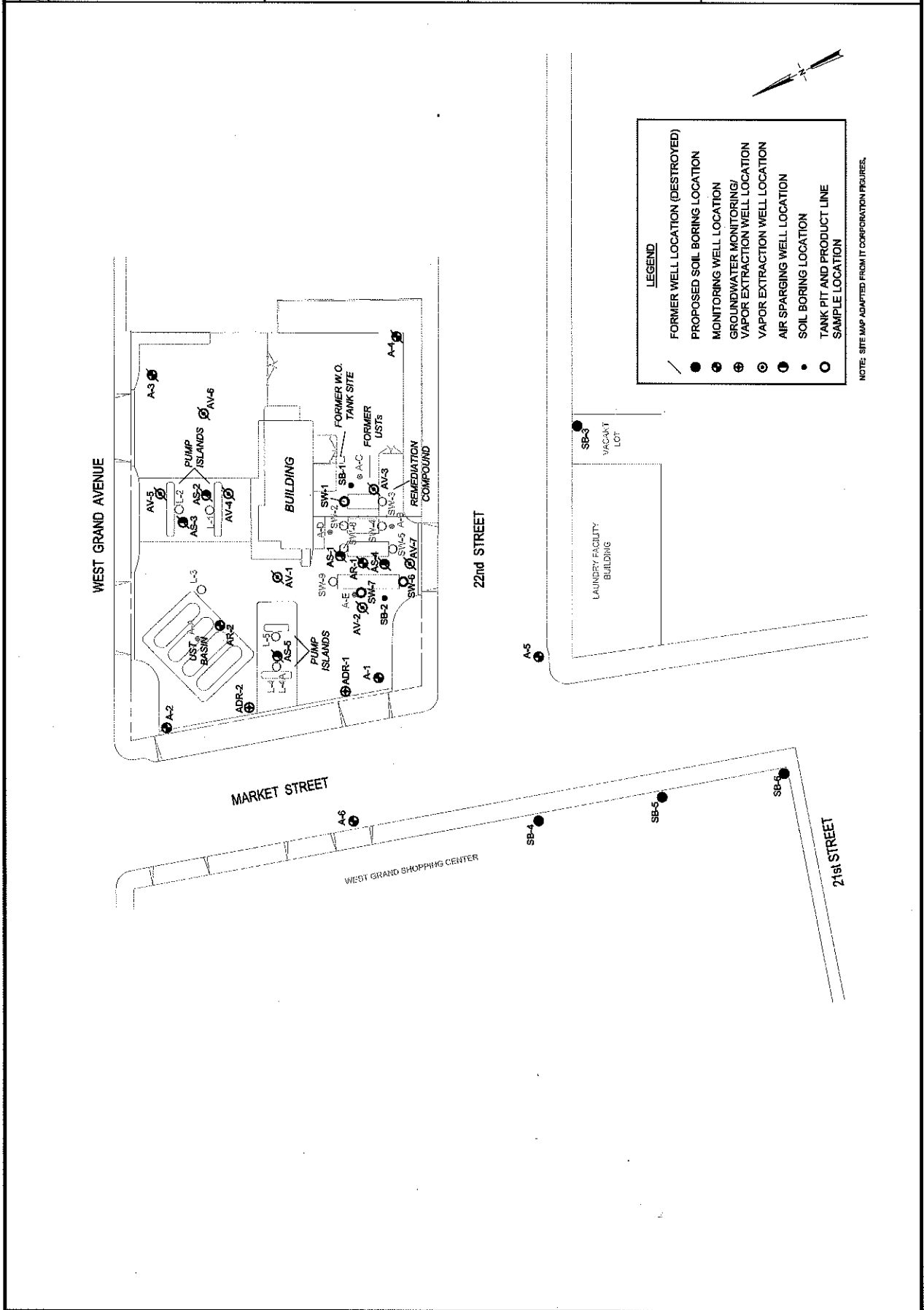
ATTACHMENT 1



LEGEND

- Approximate Monitor Well Location
- ⊕ Approximate Monitoring/Vapor Extraction Well Location
- Approximate Abandoned Monitoring Well Location
- Storm Drain Components
- Sanitary Sewer
- == Water Pipeline

Drawing	2
Site Map	
ARCO Station #2169 889 West Grand Avenue Oakland, California	
 BROADBENT 1370 Ridgewood Dr., Suite 5 Chico, California 95973 Project No.: 06-88-621 Date: 12/18/2013	
0 40 80  SCALE (ft)	

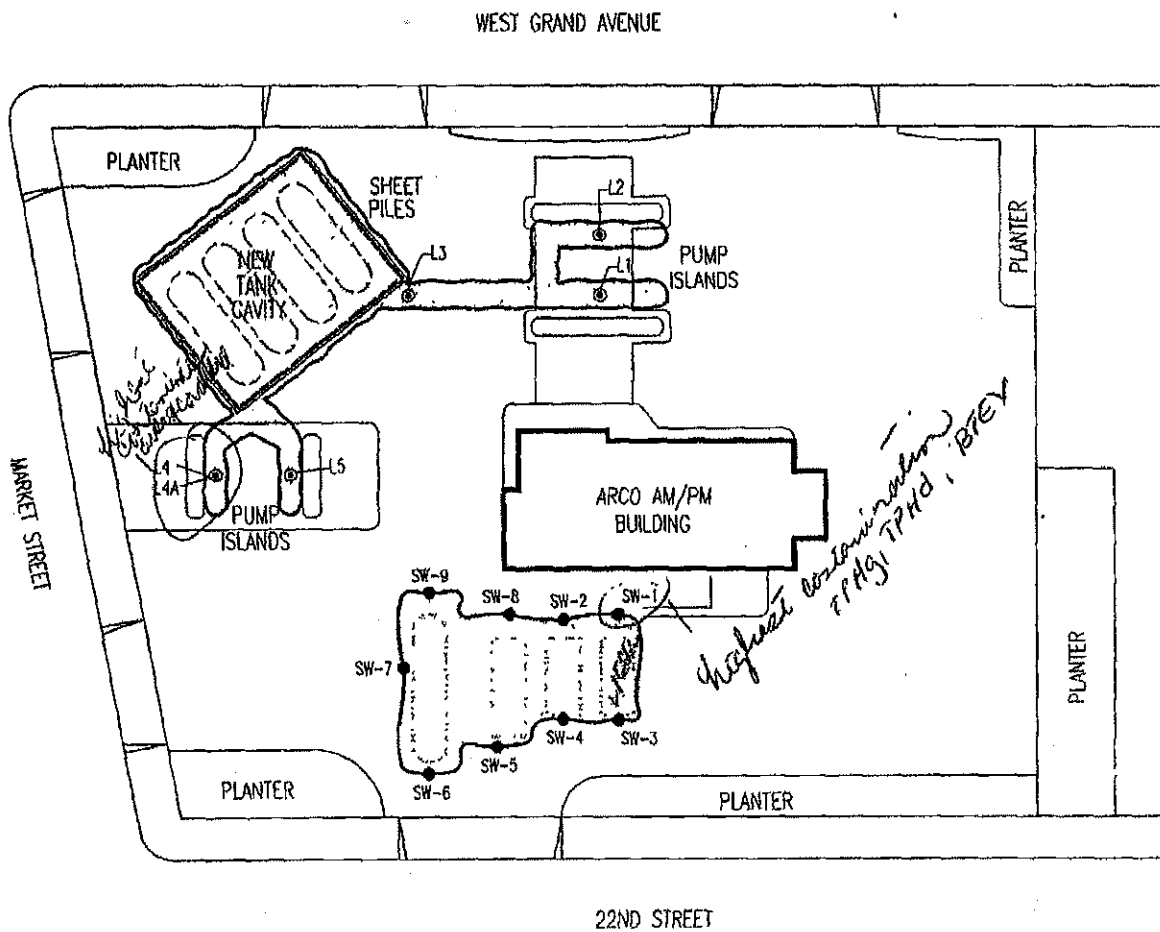


LEGEND




- FORMER WELL LOCATION (DESTROYED)
- PROPOSED SOIL BORING LOCATION
- ⊕ MONITORING WELL LOCATION
- ⊗ GROUNDWATER MONITORING/ VAPOR EXTRACTION WELL LOCATION
- ⊖ AIR SPARGING WELL LOCATION
- SOIL BORING WELL LOCATION
- TANK PIT AND PRODUCT LINE
- SAMPLE LOCATION

NOTE: SITE MAP ADAPTED FROM ITC CORPORATION FIGURES.



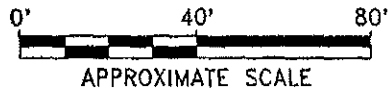



EXPLANATION:

-  EXCAVATED AREA
-  LOCATION AND DESIGNATION OF SOIL SAMPLE
-  LOCATION AND DESIGNATION OF LINE TRENCH SOIL SAMPLE.

SOURCE:

MAP MODIFIED FROM PLATE 1 10/91
 PROVIDED BY GEOSTRATEGIES INC.



 ROUX ASSOCIATES ENVIRONMENTAL CONSULTING & MANAGEMENT	COMPILED BY: P.S.	PREPARED FOR: ARCO PRODUCTS COMPANY	FIGURE 3
	PREPARED BY: D.D.		
	PROJECT MNGR. P.S.	TITLE:	
	DATE: 06/92	LOCATION OF FORMER TANK CAVITY AND PRODUCT LINE TRENCH SOIL SAMPLES ARCO FACILITY NO. 2169	
	SCALE: AS SHOWN		
	PROJECT NO A133W01		
FILE NAME: AR2169XX			

ATTACHMENT 2

Drawing **3**

Groundwater Elevation Contours and Analytical Summary Map August 8, 2013

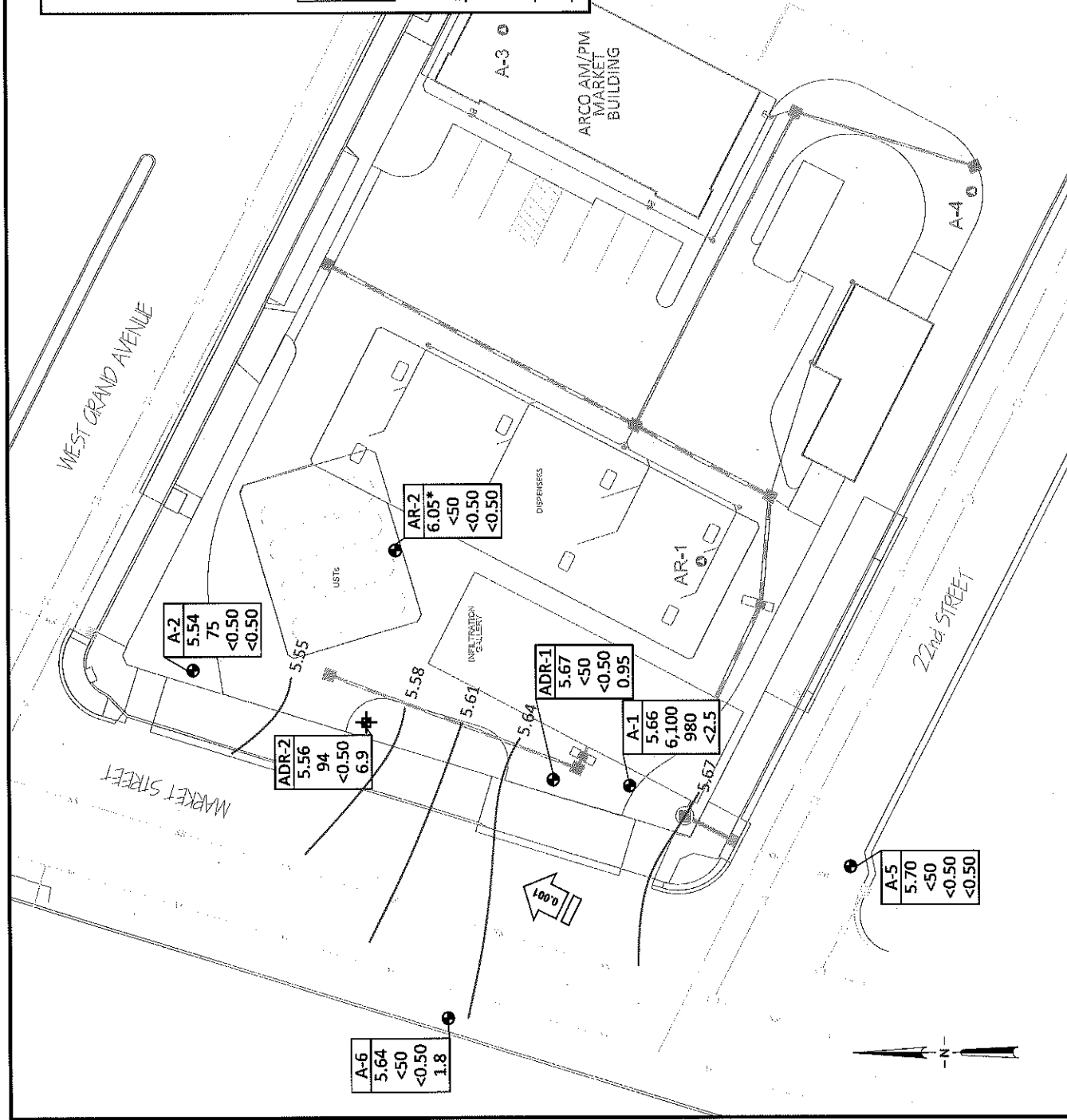
ARCO Station #2169
889 West Grand Avenue
Oakland, California

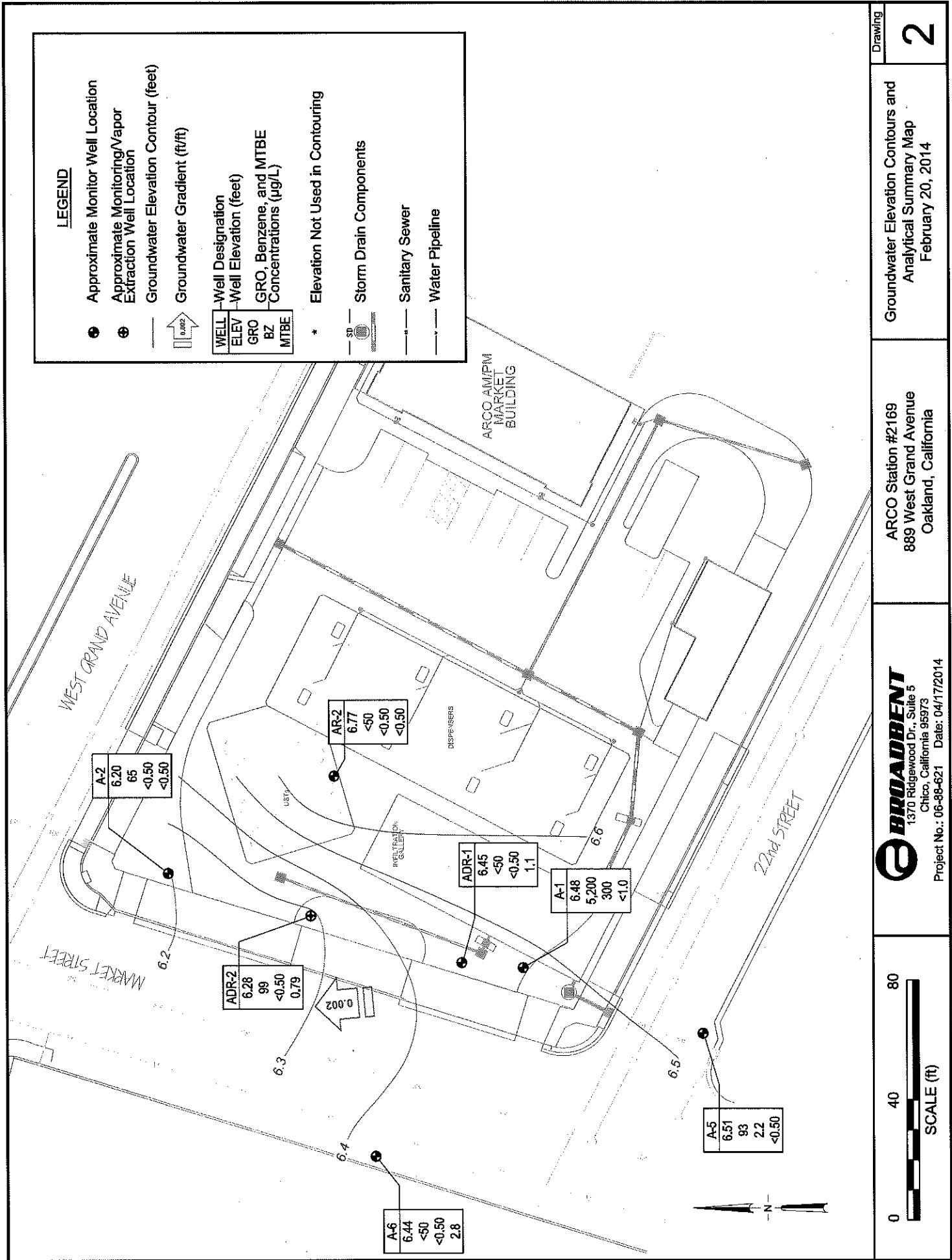
BROADBENT
1370 Ridgewood Dr., Suite 5
Chico, California 95973
Project No.: 06-88-621 Date: 12/18/2013



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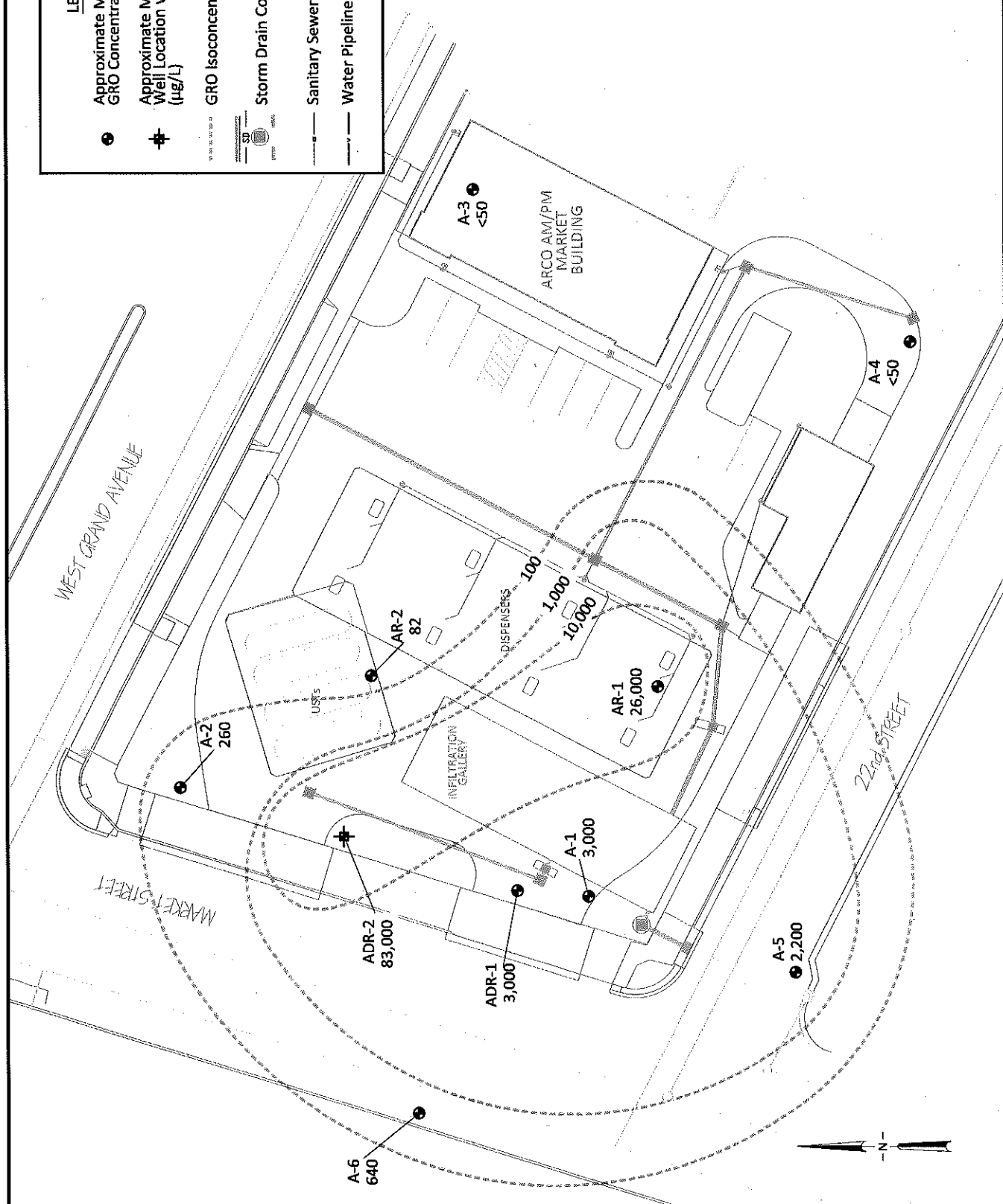
- Approximate Monitor Well Location
- ⊕ Approximate Monitoring/Vapor Extraction Well Location
- Approximate Abandoned Monitoring Well Location
- Groundwater Elevation Contour (feet)
- ↑ Groundwater Gradient (ft/ft)
- WELL ELEV GRO BZ MTBE
- Well Designation
- Well Elevation (feet)
- GRO, Benzene, and MTBE Concentrations (µg/L)
- * Elevation Not Used in Contouring
- Storm Drain Components
- Sanitary Sewer
- Water Pipeline





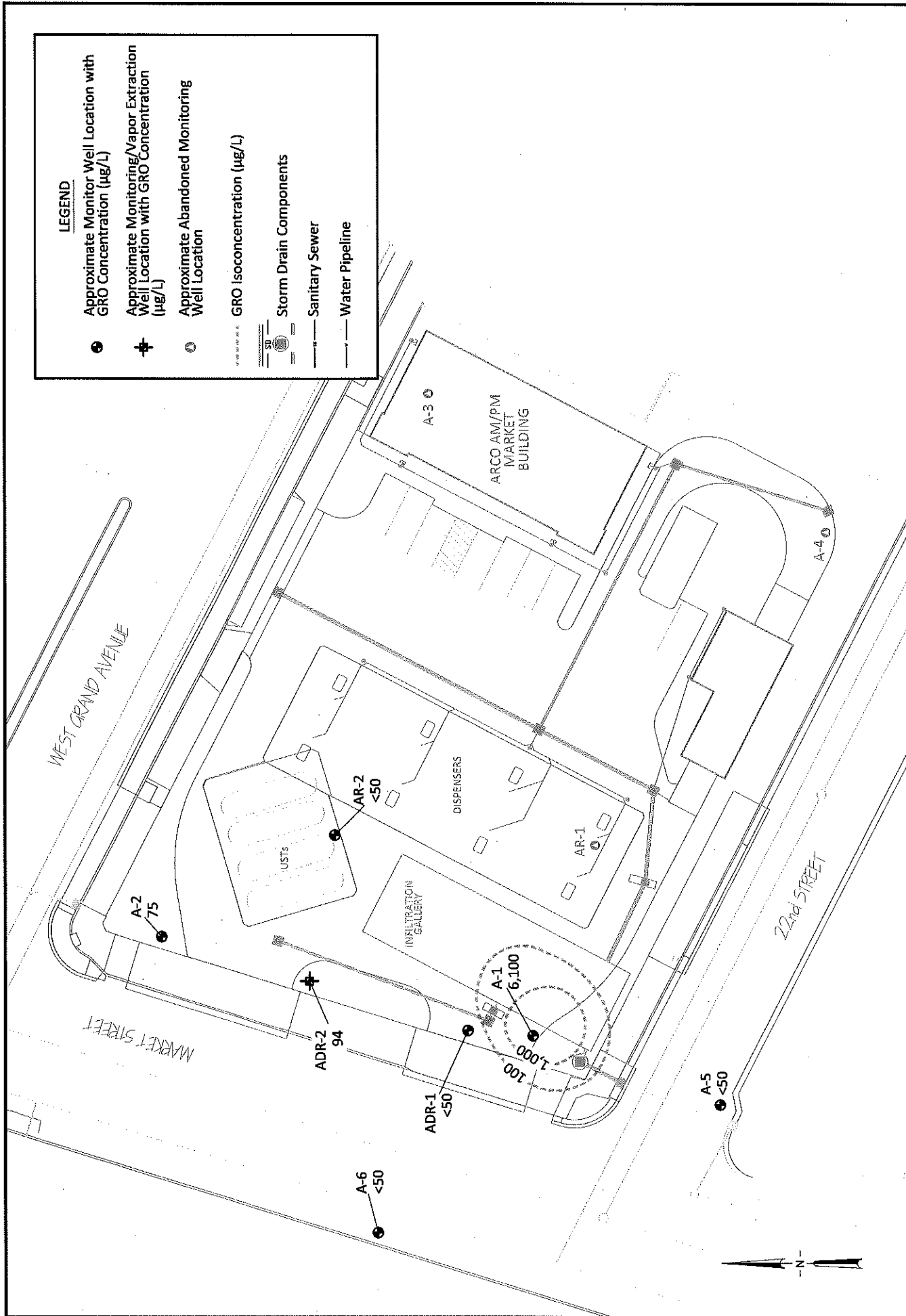
LEGEND

- Approximate Monitor Well Location with GRO Concentration (µg/L)
- ⊕ Approximate Monitoring/Vapor Extraction Well Location with GRO Concentration (µg/L)
- GRO Isoconcentration (µg/L)
- Storm Drain Components
- Sanitary Sewer
- Water Pipeline



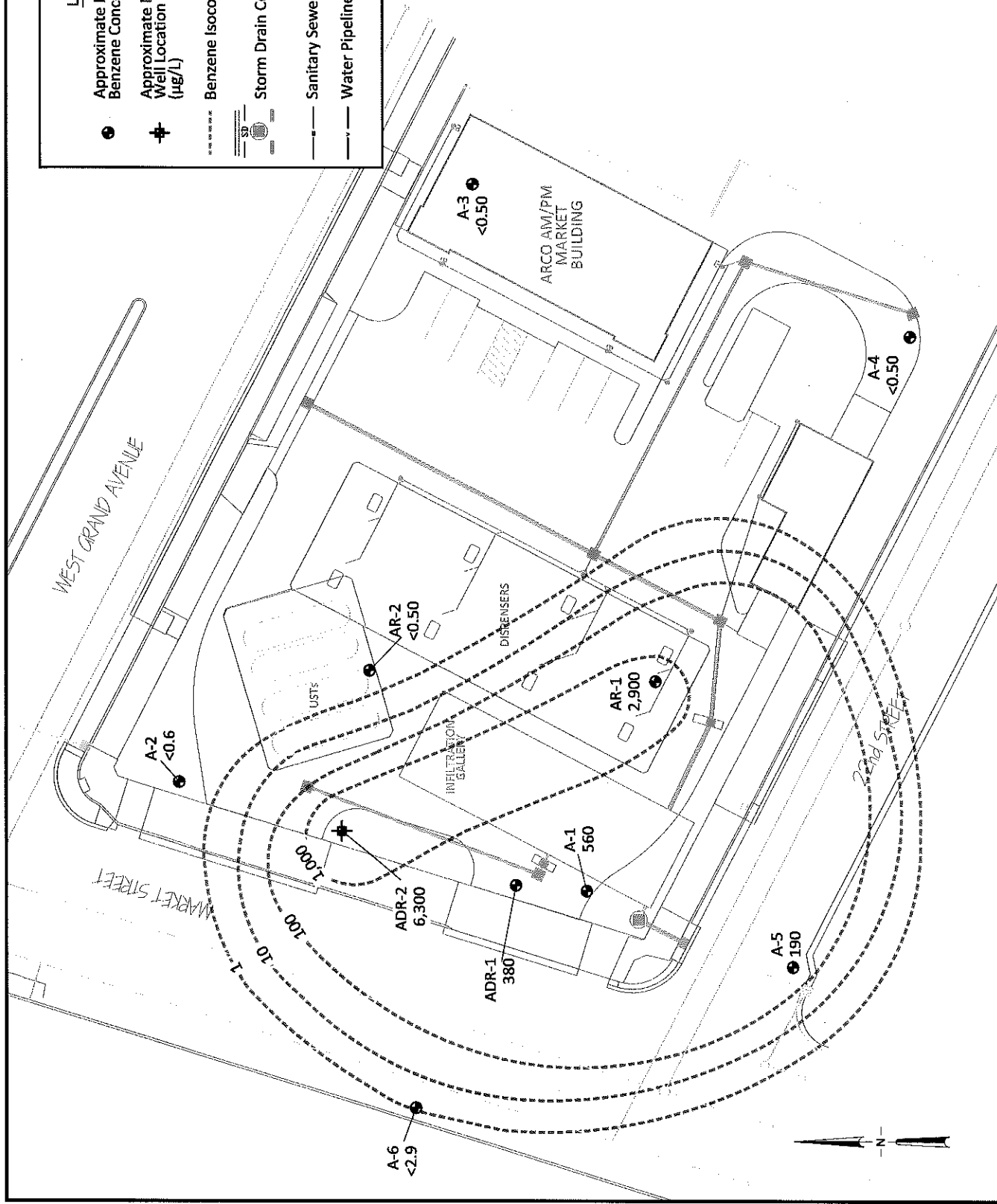
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- Approximate Monitor Well Location with GRO Concentration (µg/L)
- ⊕ Approximate Monitoring/Vapor Extraction Well Location with GRO Concentration (µg/L)
- Approximate Abandoned Monitoring Well Location
- GRO Isoconcentration (µg/L)
- Storm Drain Components
- Sanitary Sewer
- Water Pipeline



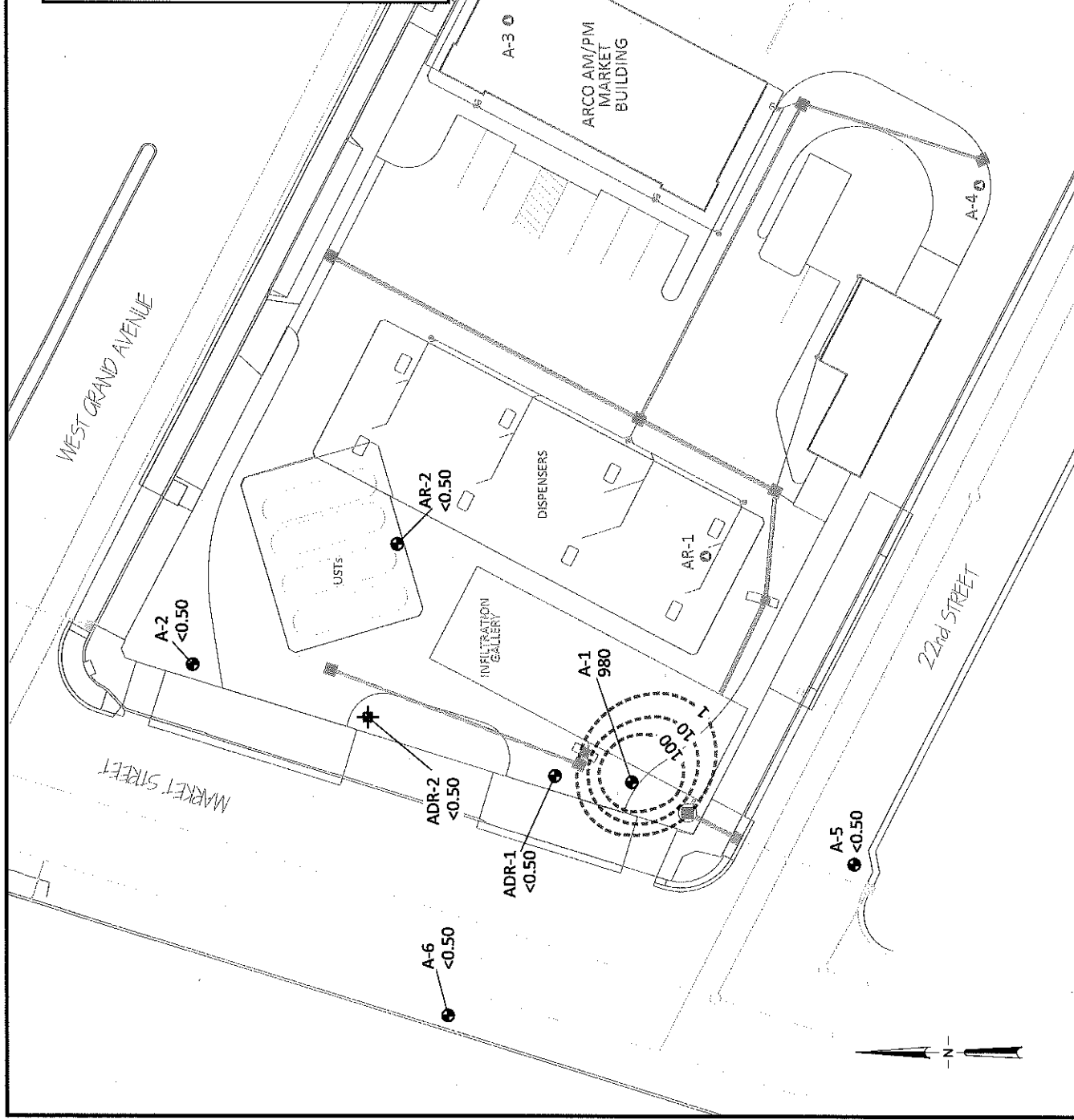
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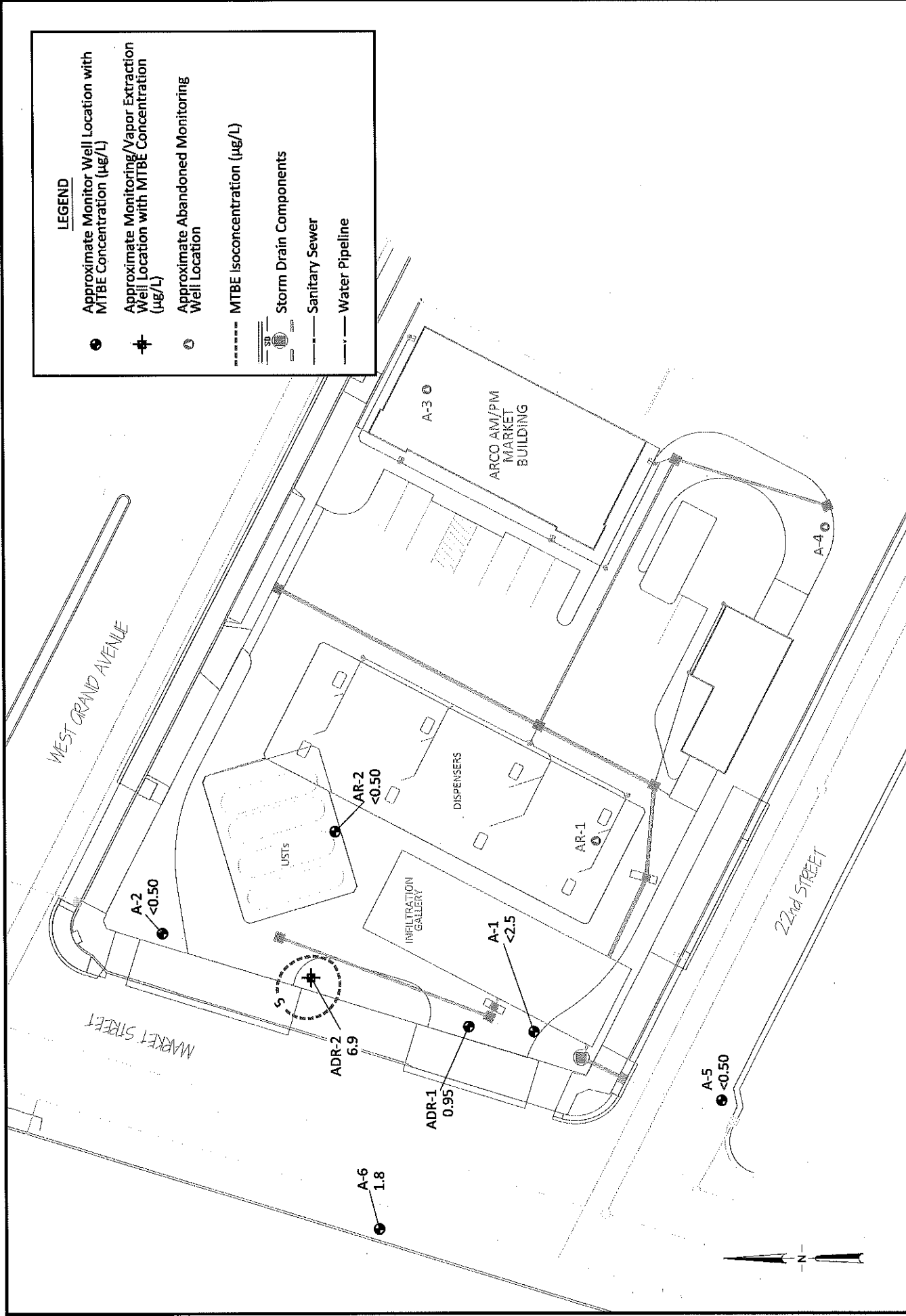
- Approximate Monitor Well Location with Benzene Concentration (µg/L)
- ⊕ Approximate Monitoring/Vapor Extraction Well Location with Benzene Concentration (µg/L)
- Benzene Isoconcentration (µg/L)
- Storm Drain Components
- Sanitary Sewer
- Water Pipeline



LEGEND

- Approximate Monitor Well Location with Benzene Concentration (µg/L)
- ⊕ Approximate Monitoring/Vapor Extraction Well Location with Benzene Concentration (µg/L)
- Approximate Abandoned Monitoring Well Location
- ⋯ Benzene Isoconcentration (µg/L)
- SD Storm Drain Components
- Sanitary Sewer
- Water Pipeline





<p>SCALE (ft)</p>	<p>BROADBENT 1370 Ridgewood Dr., Suite 5 Chico, California 95973 Project No.: 06-88-621 Date: 3/6/2014</p>	<p>ARCO Station #2169 889 West Grand Avenue Oakland, California</p>	<p>MTBE Isoconcentration Contour Map August 2013</p>
			<p>Drawing</p> <h1 style="font-size: 48px; margin: 0;">8</h1>

Figure 1
GRO Concentrations vs. Time
ARCO Station #2169
889 West Grand Avenue, Oakland, California

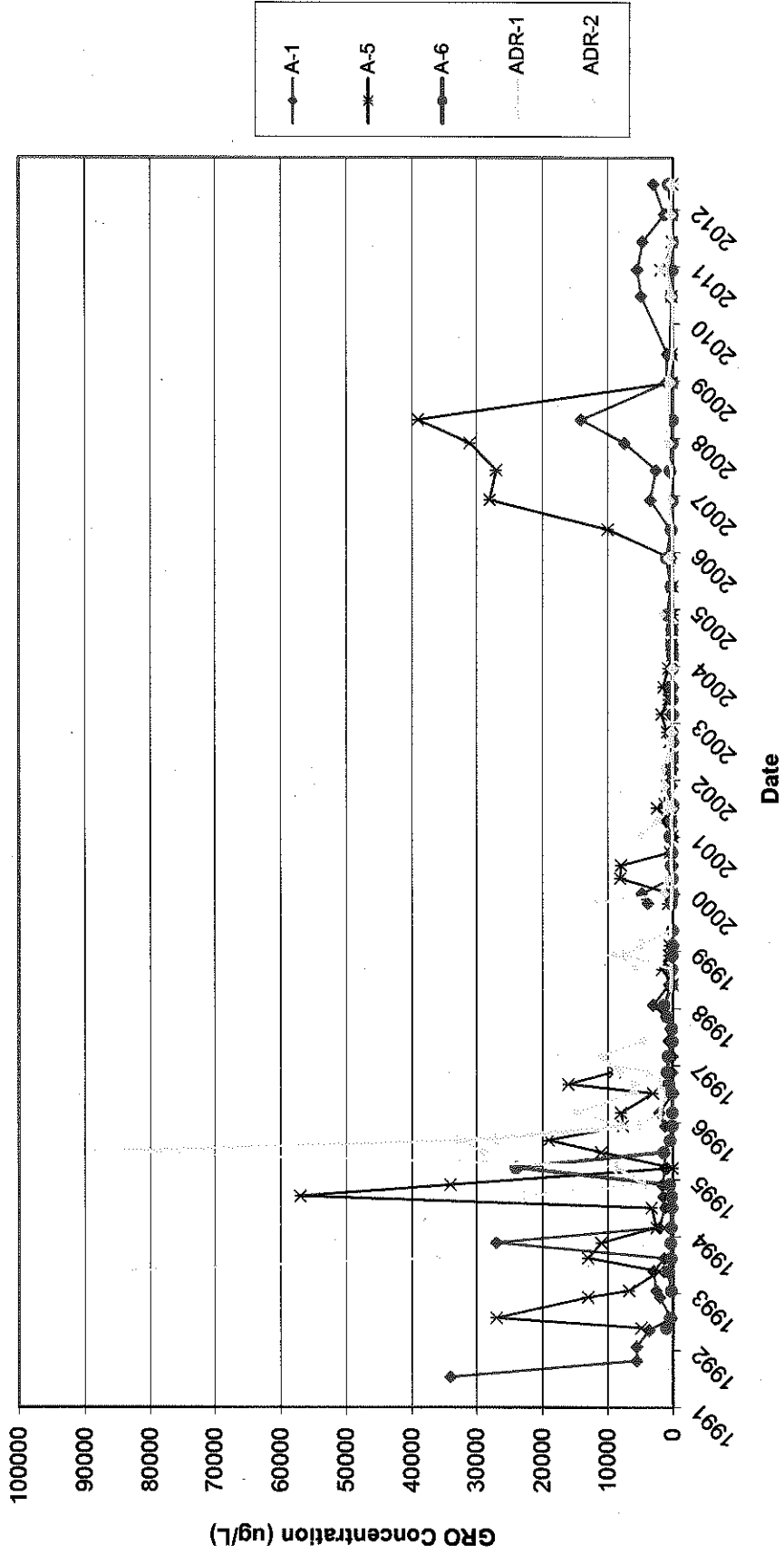


Figure 3
MTBE Concentrations vs. Time
ARCO Station #2169
889 West Grand Avenue, Oakland, California

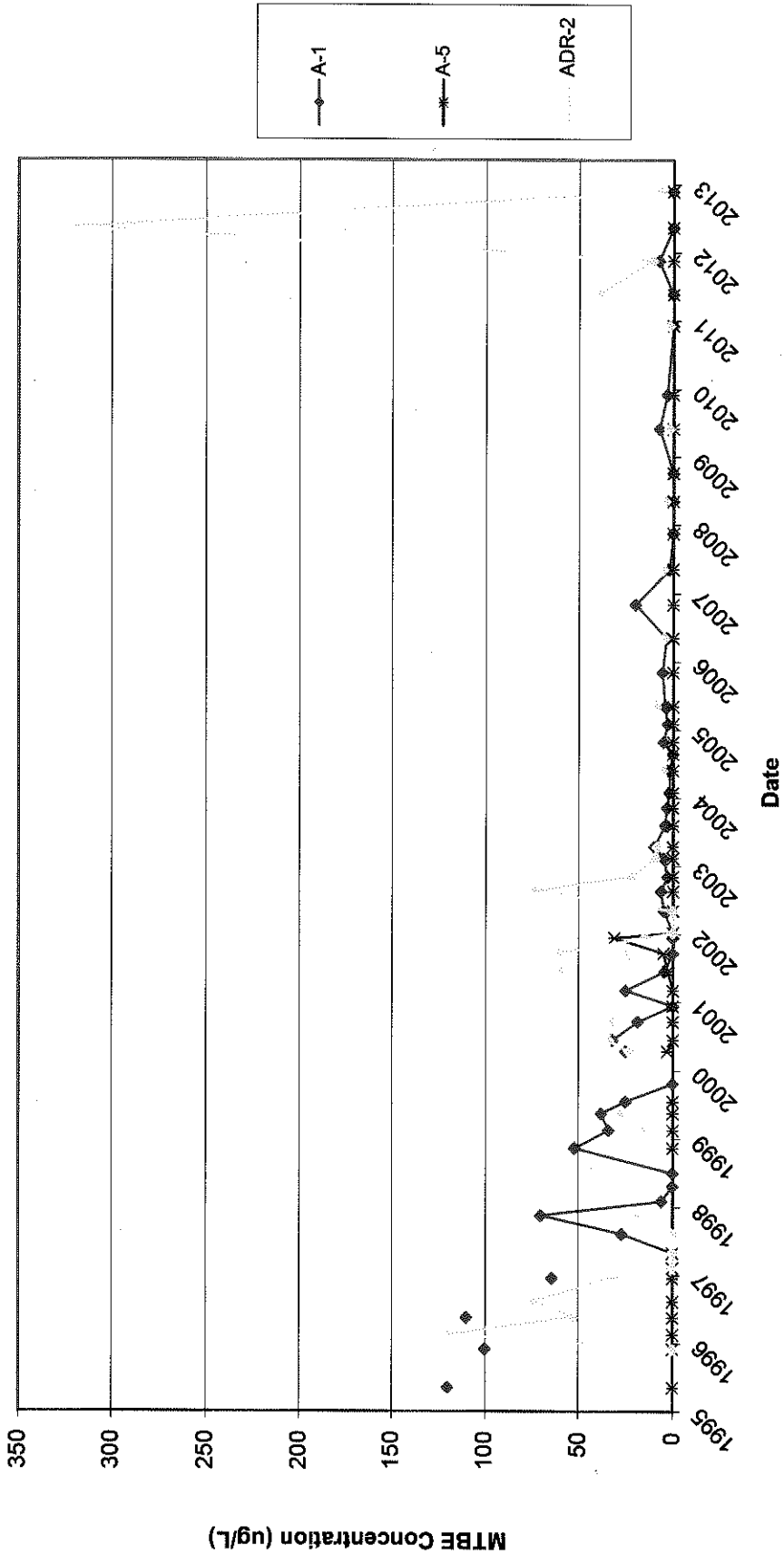


Figure 2
Benzene Concentrations vs. Time
ARCO Station #2169
889 West Grand Avenue, Oakland, California

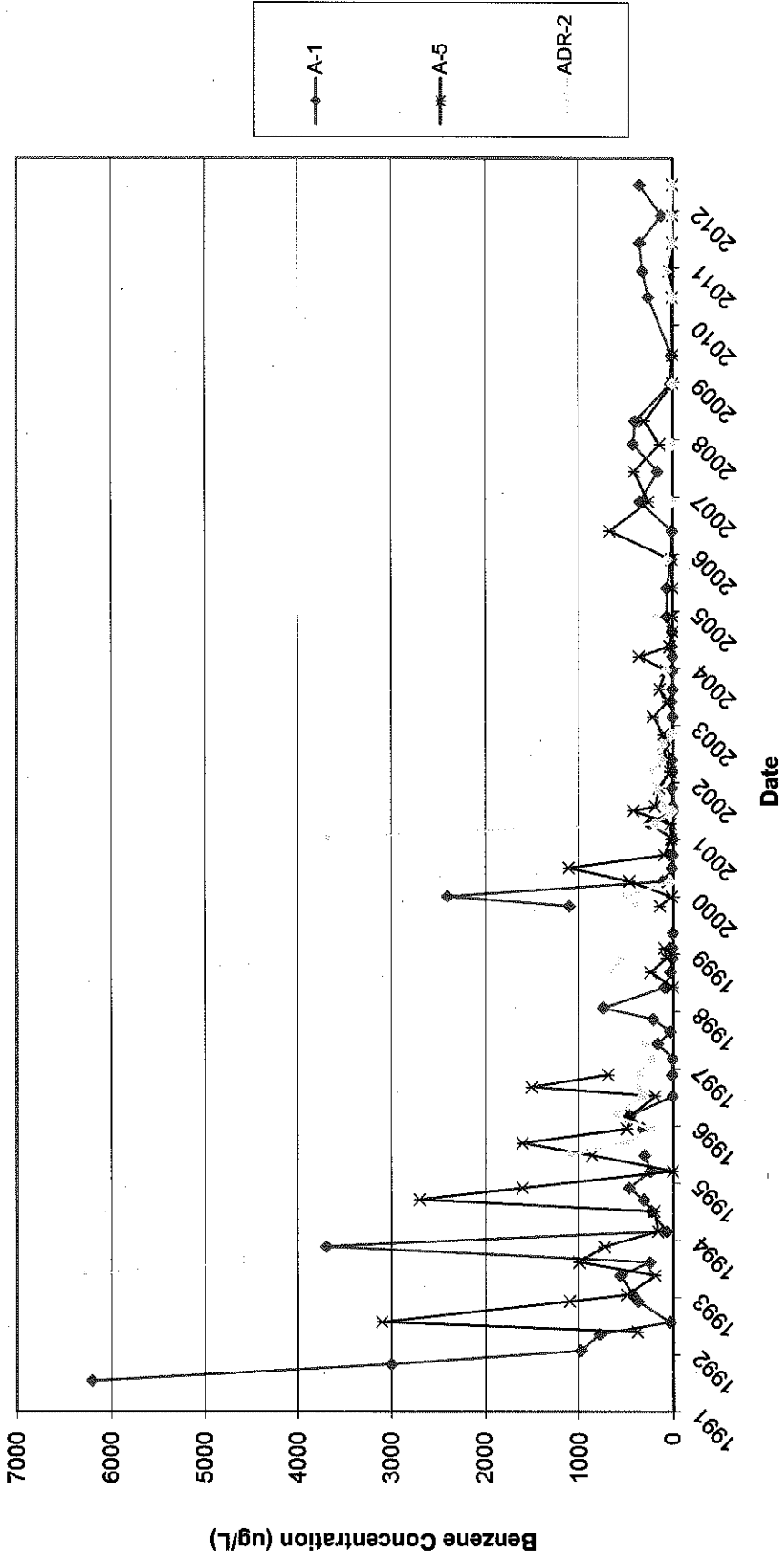


Table 5 - Laboratory Analytical Results for Post-Remediation Verification Soil Boring Samples
ARCO Station No.2169, 889 W. Grand Ave, Oakland, Alameda County, California

Sample ID	Sample Date	GRO (C6-C12) (mg/kg)	DRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	ETBE (mg/kg)	DIPE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	Ethanol (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)
SB-1 8-9.5M	6/17/2010	0.63	300 (LX)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.010	<0.10	<0.0010	<0.0010
SB-1 12-13.5T	6/17/2010	230	30	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	<1.0	<10	<0.10	<0.10
SB-1 16-17.5T	6/17/2010	95	9.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	<1.0	<10	<0.10	<0.10
SB-1 20-21.5M	6/17/2010	<0.50	<5.0	0.13	<0.10	0.63	2.4	<0.10	<0.20	<0.20	<0.20	<1.0	<10	<0.10	<0.10
SB-1 24-25.5M	6/17/2010	5.2	<5.0	0.020	0.012	0.044	0.17	<0.0010	<0.0020	<0.0020	<0.0020	<0.010	<0.10	<0.0010	<0.0010
SB-1 28-29.5B	6/17/2010	5.2 (N1)	<5.0	0.0087	0.0081	0.061	0.24	<0.0010	<0.0020	<0.0020	<0.0020	<0.010	<0.10	<0.0010	<0.0010
SW-1 (12)	1/16/1992	1200	620	6.8	47	22	140	NA	NA	NA	NA	NA	NA	NA	NA
SB-2 8-9.5M	6/17/2010	18 (N1)	640	<0.0010	<0.0010	0.0025	0.0032	<0.0010	<0.0020	<0.0020	<0.0020	<0.010	<0.10	<0.0010	<0.0010
SB-2 12-13.5B	6/17/2010	8.8	52 (LX)	<0.0010	<0.0010	0.0023	0.0016	<0.0010	<0.0020	<0.0020	<0.0020	<0.010	<0.10	<0.0010	<0.0010
SB-2 16-17.5M	6/17/2010	31 (N1)	150	<0.10	<0.10	0.15	<0.10	<0.10	<0.20	<0.20	<0.20	<1.0	<10	<0.10	<0.10
SB-2 20-21.5M	6/17/2010	<0.50	<5.0	<0.0010	<0.0010	0.0071	0.0033	<0.0010	<0.0020	<0.0020	<0.0020	<0.010	<0.10	<0.0010	<0.0010
SB-2 24-25.5M	6/17/2010	<0.50	<5.0	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.010	<0.10	<0.0010	<0.0010
SB-2 28-29.5T	6/17/2010	<0.50	<5.0	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.0020	<0.010	<0.10	<0.0010	<0.0010
SW-6 (12)	1/16/1992	100	2.8	0.88	3.9	2.1	15	NA	NA	NA	NA	NA	NA	NA	NA
SW-7 (12)	1/16/1992	420	10	4.2	16	8.0	53	NA	NA	NA	NA	NA	NA	NA	NA
ESL - Res./Shallow/DW		83	83	0.044	2.9	3.3	2.3	0.023	NE	NE	NE	0.075	NE	0.0045	0.00033
ESL - Res./Deep/DW		83	83	0.044	2.9	3.3	2.3	0.023	NE	NE	NE	0.075	NE	0.0045	0.00033
ESL - Comm./Shallow/DW		83	83	0.044	2.9	3.3	2.3	0.023	NE	NE	NE	0.075	NE	0.0045	0.00033
ESL - Comm./Deep/DW		83	83	0.044	2.9	3.3	2.3	0.023	NE	NE	NE	0.075	NE	0.0045	0.00033
ESL - Res./Shallow/NDW		100	100	0.12	9.3	2.3	11	8.4	NE	NE	NE	100	NE	0.22	0.019
ESL - Res./Deep/NDW		180	180	2.0	9.3	4.7	11	8.4	NE	NE	NE	110	NE	1.8	1.0
ESL - Comm./Shallow/NDW		180	180	0.27	9.3	4.7	11	8.4	NE	NE	NE	110	NE	0.48	0.044
ESL - Comm./Deep/NDW		180	180	2.0	9.3	4.7	11	8.4	NE	NE	NE	110	NE	1.8	1.0

Notes:
 SB-1/5B-2 samples collected 6/17/2010 by BAI analyzed for GRO/DRO by EPA Method 8015 Modified with remaining analyses by EPA Method 8260B.
 SW-1/SW-6/SW-7 samples collected 1/16/1992 by ROUX for TPH-G/TPH-D by EPA Method 8015 Modified, and BTEX by EPA Method 8020 (ROUX, 7/14/1992).
 <X = Not detected above the given laboratory reporting limit (X) in milligrams per kilogram (mg/kg)
 (LX) = Quantification of unknown hydrocarbon(s) in sample based on diesel.
 (N1) = The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons are also present (or were detected).
 NA = Not Analyzed.
 ESL - Res./Shallow/DW = Environmental Screening Level (ESL) for a scenario with residential land use, shallow soils (<3m), where ground water is a current or potential source of drinking water (SFBRWQCB, 5/2008).
 ESL - Res./Deep/DW = ESL for a scenario with residential land use, deep soils (>3m), where ground water is a current or potential source of drinking water (SFBRWQCB, 5/2008).
 ESL - Comm./Shallow/DW = ESL for a scenario with commercial or industrial land use only, shallow soils (<3m), where ground water is a current or potential source of drinking water (SFBRWQCB, 5/2008).
 ESL - Comm./Deep/DW = ESL for a scenario with commercial or industrial land use only, deep soils (>3m), where ground water is a current or potential source of drinking water (SFBRWQCB, 5/2008).
 ESL - Res./Shallow/NDW = Environmental Screening Level (ESL) for a scenario with residential land use, shallow soils (<3m), where ground water is NOT a current or potential source of drinking water (SFBRWQCB, 5/2008).
 ESL - Res./Deep/NDW = ESL for a scenario with residential land use only, deep soils (>3m), where ground water is NOT a current or potential source of drinking water (SFBRWQCB, 5/2008).
 ESL - Comm./Shallow/NDW = ESL for a scenario with commercial or industrial land use only, shallow soils (<3m), where ground water is NOT a current or potential source of drinking water (SFBRWQCB, 5/2008).
 ESL - Comm./Deep/NDW = ESL for a scenario with commercial or industrial land use only, deep soils (>3m), where ground water is NOT a current or potential source of drinking water (SFBRWQCB, 5/2008).
 NE = Value Not Established.
BOLD = Analyte detected above the laboratory reporting limit.
BOLD/ITALICS = Analyte detected above the depth-specific ESL for residential or commercial land use scenario where ground water is a current or potential source of drinking water.

TABLE 1

SOIL ANALYSES DATA

SAMPLE NO	SAMPLE DATE	ANALYZED DATE	TPH-G (PPM)	TPH-D (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)
A-A-4.5	14-May-91	22-May-91	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
A-A-9.5	14-May-91	22-May-91	69	31	1.0	3.8	1.6	7.8
A-B-5.5	14-May-91	22-May-91	250	31	2.1	6.2	4.5	30
A-B-10.5	14-May-91	22-May-91	960	280	16	61	19	110
A-C-6.0	14-May-91	22-May-91	<1.0	<1.0	<0.005	<0.005	<0.005	<0.0050
A-C-11.0	14-May-91	22-May-91	1,900	300	18	64	44	220
A-D-6.0	14-May-91	22-May-91	2.3	1.6	0.10	0.019	0.11	0.44
A-D-9.5	14-May-91	22-May-91	10	1.6	0.27	0.021	0.47	1.7
A-E-6.5	14-May-91	22-May-91	<1.0	<1.0	0.16	<0.0050	0.0070	<0.0050
A-E-10.5	14-May-91	22-May-91	330	130	3.9	17	6.5	39

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline

TPH-D = Total Petroleum Hydrocarbons calculated as Diesel

PPM = Parts Per Million

Note: 1. All data shown as <x are reported as ND (none detected).

TABLE 1: Summary of Soil Analyses: Former Tank Cavity and Product Line Trenches
ARCO Facility No. 2169, Oakland, California

Sample Designation	Date	Depth (feet bgs)	TPH-G(1)	TPH-D(1)	BTEX Distinction (1)			
					Benzene	Toluene	Ethylbenzene	Xylenes
Former Tank Cavity								
SW-1	1/16/92	12	1200	620	6.8	47	22	140
SW-2	1/16/92	12	81	19	0.98	2.9	1.9	9.1
SW-3	1/16/92	12	200	7.1	3.0	10	4.6	25
SW-4	1/16/92	12	170	3.4	3.2	11	3.9	22
SW-5	1/16/92	12	3.0	ND	1.1	0.022	0.21	0.11
SW-6	1/16/92	12	100	2.8	0.88	3.9	2.1	15
SW-7	1/16/92	12	420	10	4.2	16	8.0	53
SW-8	1/16/92	12	180	4.4	2.5	2.7	3.7	23
SW-9	1/16/92	12	200	17	2	4.5	4.7	29
Product Line Trenches								
LINE-1	2/19/92	3	120	NA	0.36	0.81	0.56	3.8
LINE-2	2/19/92	3	4.7	NA	0.32	0.097	0.088	0.18
LINE-3	2/19/92	4	ND	NA	ND	ND	ND	ND
LINE-4	2/19/92	3	140	450	2.2	0.28	2.2	5.1
LINE-5	2/19/92	3	2.8	6.0	0.19	0.005	0.024	0.088
LINE-4A	3/3/92	7	4.6	54	0.054	0.059	0.14	0.64

FOOTNOTES

(1) = Concentrations reported in mg/kg (ppm)

TPH-G = Total Petroleum Fuel Hydrocarbons As Low/Medium Boiling Point Hydrocarbons (USEPA Method 8015)

TPH-D = Total Petroleum Fuel Hydrocarbons As High Boiling Point Hydrocarbons (USEPA Method 8015)

BTEX Distinction (USEPA Method 8020)

NA = Not Analyzed

ND = None Detected (for detection limits see laboratory reports in Appendix B)

bgs = Below ground surface

TABLE 1

SOIL ANALYSES DATA

SAMPLE ID	SAMPLE DATE	ANALYZED DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)	TPH-D (PPM)
A-1-4.5	16-Mar-92	01-Apr-92	<1.0	0.024	0.014	0.009	0.034	<1.0
A-1-10.0	16-Mar-92	01-Apr-92	2.2	0.13	0.051	0.023	0.71	<1.0
A-2-4.0	16-Mar-92	01-Apr-92	<1.0	<0.0050	0.0050	<0.0050	<0.0050	14
A-2-10.0	16-Mar-92	01-Apr-92	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
A-3-10.0	17-Mar-92	01-Apr-92	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
A-4-10.0	17-Mar-92	01-Apr-92	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0

TPH-G = Total petroleum hydrocarbons calculated as gasoline

TPH-D = Total petroleum hydrocarbons calculated as diesel

PPM = Parts Per Million

NOTES: 1. All data shown as <X are reported as ND (None Detected)

2. The last number of the sample I.D. corresponds to the depth the sample was taken.

TABLE 1

SOIL ANALYSES DATA

SAMPLE I.D.	SAMPLE DATE	ANALYZED DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)	TPH-D (PPM)
AV-1-6.5	08-Jun-92	11-Jun-92	<1.0	0.15	0.019	0.014	0.062	<1.0
AV-1-12	08-Jun-92	11-Jun-92	12	0.81	1.3	0.27	1.5	<1.0
AV-2-6.5	08-Jun-92	11-Jun-92	1.8	0.31	0.15	0.036	0.21	<1.0
AV-2-11.5	08-Jun-92	11-Jun-92	1500	21	84	27	170	<1.0
AV-3-6.5	08-Jun-92	11-Jun-92	<1.0	0.037	0.0050	0.018	0.028	<1.0
AV-3-11.5	08-Jun-92	11-Jun-92	110	2.4	4.6	1.9	10	<1.0

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline
 TPH-D = Total Petroleum Hydrocarbons calculated as Diesel
 PPM = Parts Per Million

- Notes: 1. All data shown as <x are reported as #D (none detected).
 2. The last number of the sample I.D. corresponds to the depth the sample was collected.

TABLE 1
SOIL ANALYSES DATA

Sample I.D.	Sample Date	Analyzed Date	TPH-G (PPM)	Benzene (PPM)	Toluene (PPM)	Ethylbenzene (PPM)	Xylenes (PPM)
A-5-6.5	04-Feb-93	08-Feb-93	<1.0	<0.0050	<0.0050	<0.0050	<0.0050
A-5-9.5	04-Feb-93	08-Feb-93	17	0.21	0.076	0.28	0.54
A-6-6.5	04-Feb-93	08-Feb-93	<1.0	<0.0050	<0.0060	<0.0050	<0.0050
A-6-9.0	04-Feb-93	08-Feb-93	<1.0	<0.0050	<0.0050	<0.0050	<0.0050

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline
PPM = Parts Per Million

- Notes: 1. All data shown as <x are reported as ND (none detected).
2. The last number of the sample I.D. corresponds to the depth the sample was collected.
3. Halogenated volatile organic analyses performed on samples A-5-6.5 and A-5-9.5 were reported as ND.

TABLE 1
SOIL ANALYSES DATA
ARGO Station 2169
Oakland, California

SAMPLE I.D.	SAMPLE DATE	ANALYZED DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZ. (PPM)	XYLENES (PPM)	TPH-D (PPM)
A-A-4.5	14-May-91	22-May-91	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
A-A-9.5	14-May-91	22-May-91	69	1.0	3.8	1.6	7.8	31
A-B-5.5	14-May-91	22-May-91	250	2.1	6.2	4.5	30	31
A-B-10.5	14-May-91	22-May-91	960	16	61	19	110	280
A-C-6.0	14-May-91	22-May-91	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
A-C-11.0	14-May-91	22-May-91	1,900	18	64	44	220	300
A-D-6.0	14-May-91	22-May-91	2.3	0.10	0.019	0.11	0.44	1.6
A-D-9.5	14-May-91	22-May-91	10	0.27	0.21	0.47	1.7	1.8
A-E-6.5	14-May-91	22-May-91	<1.0	0.16	<0.0050	0.0070	<0.0050	<1.0
A-E-10.5	14-May-91	22-May-91	330	3.9	17	6.5	39	130
A-1-4.5	16-Mar-92	01-Apr-92	<1.0	0.024	0.014	0.0090	0.034	<1.0
A-1-10.0	16-Mar-92	01-Apr-92	2.2	0.13	0.051	0.023	0.71	<1.0
A-2-4.0	16-Mar-92	01-Apr-92	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	14
A-2-10.0	16-Mar-92	01-Apr-92	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
A-3-10.0	17-Mar-92	01-Apr-92	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
A-4-10.0	17-Mar-92	01-Apr-93	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
AV-1-6.5	08-Jun-92	11-Jun-92	<1.0	0.15	0.019	0.014	0.062	<1.0
AV-1-12.0	08-Jun-92	11-Jun-92	12	0.81	1.3	0.27	1.5	<1.0
AV-2-6.5	08-Jun-92	11-Jun-92	1.8	0.31	0.15	0.036	0.21	<1.0
AV-2-11.5	08-Jun-92	11-Jun-92	1500	21	84	27	170	<1.0
AV-3-6.5	08-Jun-92	11-Jun-92	<1.0	0.037	<0.0050	0.018	0.028	<1.0
AV-3-11.5	08-Jun-92	11-Jun-92	110	2.4	4.6	1.9	10	<1.0
A-5-6.5	04-Feb-93	08-Feb-93	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA
A-5-9.5	04-Feb-93	08-Feb-93	17	0.21	0.076	0.28	0.54	NA
A-6-6.5	04-Feb-93	08-Feb-93	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA
A-6-9.0	04-Feb-93	08-Feb-93	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA
AV-4-5	07-Sep-93	15-Sep-93	<1.0	0.94	<0.0050	<0.0050	0.25	NA
AV-4-10.5	07-Sep-93	16-Sep-93	270	2.2	7.0	4.5	25	NA
AV-4-12.5	07-Sep-93	16-Sep-93	470	1.9	8.7	4.9	27	NA
AV-4-18	07-Sep-93	15-Sep-93	<1.0	0.016	<0.0050	<0.0050	0.014	NA

TABLE 1
SOIL ANALYSES DATA
ARCO Station 2169
Oakland, California

SAMPLE I.D.	SAMPLE DATE	ANALYZED DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYL.BENZ. (PPM)	XYLENES (PPM)	TPH-D (PPM)
AV-5-5.5	07-Sep-93	15-Sep-93	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA
AV-5-10.5	07-Sep-93	15-Sep-93	<1.0	0.13	<0.0050	<0.0050	0.0027	NA
AV-5-12.5	07-Sep-93	16-Sep-93	30	0.24	0.058	0.31	0.98	NA
AV-5-15.5	07-Sep-93	15-Sep-93	<100	<0.50	<0.50	<0.50	<0.50	NA
AS-1-6	07-Sep-93	16-Sep-93	<1.0	0.031	<0.0050	<0.0050	0.036	15
AS-1-11	07-Sep-93	16-Sep-93	41	0.18	0.47	0.36	1.9	43*
AS-1-12.5	07-Sep-93	16-Sep-93	160	1.5	4.4	2.6	13	14*
AS-1-15.5	07-Sep-93	16-Sep-93	89	0.77	1.5	0.90	4.8	15*
AS-1-30	07-Sep-93	15-Sep-93	7.5	0.24	0.78	0.22	1.1	2.8*
AS-2-5.5	08-Sep-93	16-Sep-93	<1.0	0.016	0.0060	<0.0050	0.011	NA
AS-2-10	08-Sep-93	16-Sep-93	<1.0	0.010	0.011	<0.0050	0.023	NA
AS-2-13	08-Sep-93	16-Sep-93	1,500	5.7	31	25	130	NA
AS-2-16	08-Sep-93	16-Sep-93	<1.0	0.018	0.031	0.0090	0.048	NA
AS-2-24	08-Sep-93	16-Sep-93	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA
AS-3-5.5	08-Sep-93	16-Sep-93	<1.0	0.016	<0.0050	<0.0050	<0.0050	NA
AS-3-10.5	08-Sep-93	16-Sep-93	23	0.45	0.73	0.36	2.0	NA
AS-3-30	08-Sep-93	16-Sep-93	<1.0	0.0060	0.013	<0.0050	0.013	NA
AS-4-15.5	07-Dec-93	16-Dec-93	58	0.21	0.10	0.73	3.0	37*
AS-4-24	07-Dec-93	16-Dec-93	<1.0	0.011	0.011	<0.0050	0.019	<1.0
AS-5-5.5	07-Dec-93	16-Dec-93	9.6	0.093	0.022	0.10	0.28	2.3*
AS-5-12	07-Dec-93	16-Dec-93	320	2.0	7.5	5.9	31	230
AS-5-24	07-Dec-93	16-Dec-93	<1.0	0.0087	<0.0050	<0.0050	<0.0050	3.2
AV-6-5.5	06-Dec-93	16-Dec-93	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA
AV-6-12.5	06-Dec-93	16-Dec-93	330	1.1	4.4	5.8	29	NA
AV-6-16	06-Dec-93	16-Dec-93	22	0.13	0.38	0.30	1.6	NA
AV-7-5.5	06-Dec-93	16-Dec-93	<1.0	0.0094	<0.0050	<0.0050	<0.0050	<1.0
AV-7-10.5	06-Dec-93	16-Dec-93	190	1.8	4.8	7.5	17	47
AV-7-15.5	06-Dec-93	16-Dec-93	1.9	0.099	0.019	0.026	0.039	<1.0
ADR-1-5.5	06-Dec-93	16-Dec-93	<1.0	0.16	0.0090	0.026	0.027	<1.0
ADR-1-12	08-Dec-93	17-Dec-93	500	2.4	14	8.0	45	36*

TABLE 1
SOIL ANALYSES DATA
ARCO Station 2169
Oakland, California

SAMPLE I.D.	SAMPLE DATE	ANALYZED DATE	TPH-G (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZ. (PPM)	XYLENES (PPM)	TPH-D (PPM)
ADR-1-23	06-Dec-93	15-Dec-93	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
ADR-2-6.5	06-Dec-93	16-Dec-93	<1.0	0.018	<0.0050	<0.0050	<0.0050	9.7*
ADR-2-12	06-Dec-93	17-Dec-93	2,200	11	64	34	180	1,000
ADR-2-15.5	06-Dec-93	16-Dec-93	4.4	0.81	0.055	0.11	0.20	<1.0
ADR-2-27.5	06-Dec-93	16-Dec-93	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline.

TPH-D = Total Petroleum Hydrocarbons calculated as Diesel.

PPM = Parts Per Million.

* = Reported as a non-diesel mix.

Note: All data shown as <x are reported as ND (none detected).

Sample Identification:

ADR-2-17.5

┌──────────┐ Depth in feet
└──────────┘ Well ID

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
 ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	GRO/TPHg	Concentrations in µg/L				DO (mg/L)	pH	Footnote	
								Benzene	Toluene	Ethyl-Benzene	Total Xylenes				MTBE
A-1															
6/26/2000	--	14.16	9.00	25.00	10.75	3.41	--	--	--	--	--	--	--	--	--
7/20/2000	--		9.00	25.00	11.01	3.15	3,900	1,100	28	12	46	25	--	--	--
9/19/2000	--		9.00	25.00	11.26	2.90	4,800	2,400	27	20	57	32	--	--	--
12/26/2000	--		9.00	25.00	10.96	3.20	429	104	2.85	12.2	9.91	18.7	--	--	--
3/20/2001	--		9.00	25.00	9.59	4.57	<500	13.9	7.12	13.9	23.2	<25	--	--	--
6/12/2001	--		9.00	25.00	10.83	3.33	140	2.2	<0.5	8.7	9.2	25	--	--	--
9/23/2001	--		9.00	25.00	11.43	2.73	<50	<0.50	<0.50	<0.50	<0.50	4.5	--	--	--
12/28/2001	--		9.00	25.00	8.66	5.50	930	250	7.6	21	13	<25	--	--	--
3/21/2002	--		9.00	25.00	8.43	5.73	<50	<0.5	<0.5	<0.5	1.2	<2.5	--	--	--
4/17/2002	--		9.00	25.00	9.36	4.80	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
8/14/2002	--		9.00	25.00	11.12	3.04	170	8.4	<0.5	<0.5	1.4	4.9	--	b	7.4
11/27/2002	--		9.00	25.00	11.11	3.05	98	2.9	0.75	<0.5	<0.5	6.4	--	b	7.0
2/12/2003	--		9.00	25.00	10.10	4.06	73	9.3	<0.50	1	0.53	2.9	--	d	7.2
5/22/2003	--		9.00	25.00	10.18	3.98	400	88	1.6	4.6	11	4.9	--		7.4
7/23/2003	--		9.00	25.00	10.85	3.31	140	3.2	<0.50	<0.50	0.56	10	--		7.4
11/13/2003	P		9.00	25.00	11.35	2.81	<50	0.64	<0.50	<0.50	<0.50	4.2	--	f	7.75
02/16/2004	P	16.75	9.00	25.00	9.65	7.10	99	18	<0.50	1.2	0.96	3.2	--	f, i	7.6
05/06/2004	P		9.00	25.00	10.57	6.18	<50	0.73	<0.50	<0.50	<0.50	1.9	--		6.93
09/02/2004	P		9.00	25.00	11.05	5.70	64	1.1	<0.50	<0.50	<0.50	1.7	--		8.7
11/29/2004	P		9.00	25.00	10.50	6.25	<50	1.4	<0.50	<0.50	<0.50	<0.50	--		7.0
02/02/2005	P		9.00	25.00	9.18	7.57	56	14	<0.50	<0.50	0.55	5.1	--		7.2
05/09/2005	P		9.00	25.00	9.28	7.47	52	7.8	<0.50	0.53	0.52	2.7	--		7.2
08/11/2005	P		9.00	25.00	10.70	6.05	420	61	<0.50	1.8	1.0	4.2	--		6.8
02/09/2006	P		9.00	25.00	9.04	7.71	170	60	1.5	3.5	5.1	5.6	--		7.1
8/11/2006	P		9.00	25.00	10.44	6.31	200	18	<0.50	0.73	0.60	3.7	--		7.2
2/7/2007	NP		9.00	25.00	10.34	6.41	270	5.5	<0.50	0.95	1.2	20	--		7.27
8/14/2007	NP		9.00	25.00	10.43	6.32	3,500	350	21	110	68	1.8	--		7.46
2/22/2008	P		9.00	25.00	8.75	8.00	2,600	160	7.2	16	11	<2.5	--		7.65
8/12/2008	NP		9.00	25.00	10.30	6.45	7,400	420	28	190	170	<2.5	--		9.38
1/8/2009	NP		9.00	25.00	10.07	6.68	14,000	400	130	530	790	<10	--		7.26

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
 ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
A-1 Cont.															
9/4/2009	NP	16.75	9.00	25.00	11.22	5.53	990	19	2.2	0.80	1.5	7.4	0.48	7.25	
3/5/2010	P		9.00	25.00	7.84	8.91	800	12	1.3	5.6	3.6	3.3	0.84	7.09	
3/11/2011	NP		9.00	25.00	9.02	7.73	4900	260	68	43	380	<5.0	2.11	7.3	
8/26/2011	P		9.00	25.00	10.50	6.25	5,500	320	260	230	650	<5.0	0.63	7.1	
2/22/2012	P		9.00	25.00	10.68	6.07	4,700	350	65	200	140	7.6	0.57	7.66	
8/16/2012	P		9.00	25.00	11.09	5.66	1,300	120	5.2	30	23	<1.0	2.57	7.60	
2/26/2013	P		9.00	25.00	10.46	6.29	3,000	350	98	490	230	<10	1.00	7.79	
8/8/2013	P		9.00	25.00	11.09	5.66	6,100	980	36	130	99	<2.5	2.12	7.33	
A-2															
6/26/2000	--	14.55	10.00	25.00	11.27	3.28	--	--	--	--	--	--	--	--	--
7/20/2000	--		10.00	25.00	11.52	3.03	<50	<0.5	<0.5	<0.5	<1.0	<3	--	--	
9/19/2000	--		10.00	25.00	11.63	2.92	--	--	--	--	--	--	--	--	
12/26/2000	--		10.00	25.00	11.44	3.11	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	
3/20/2001	--		10.00	25.00	10.08	4.47	--	--	--	--	--	--	--	--	
6/12/2001	--		10.00	25.00	11.35	3.20	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	
9/23/2001	--		10.00	25.00	11.92	2.63	--	--	--	--	--	--	--	--	
12/28/2001	--		10.00	25.00	9.31	5.24	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	
3/21/2002	--		10.00	25.00	9.05	5.50	--	--	--	--	--	--	--	--	
4/17/2002	--		10.00	25.00	9.88	4.67	52	<0.5	<0.5	<0.5	<0.5	26	--	--	
8/14/2002	--		10.00	25.00	11.62	2.93	<50	<0.5	<0.5	<0.5	1.2	<2.5	3.7	7.2	c
11/27/2002	--		10.00	25.00	11.56	2.99	--	--	--	--	--	--	--	--	
2/12/2003	--		10.00	25.00	10.75	3.80	<50	<0.5	<0.5	<0.5	<0.50	12	2.9	7.1	d
5/22/2003	--		10.00	25.00	10.72	3.83	--	--	--	--	--	--	--	--	
7/23/2003	--		10.00	25.00	11.39	3.16	<50	<0.50	<0.50	<0.50	<0.50	2.6	1.3	6.8	
11/13/2003	--		10.00	25.00	11.60	2.95	--	--	--	--	--	--	--	--	
02/16/2004	--	17.18	10.00	25.00	10.27	6.91	--	--	--	--	--	--	--	--	i
05/06/2004	--		10.00	25.00	11.05	6.13	--	--	--	--	--	--	--	--	
09/02/2004	P		10.00	25.00	11.45	5.73	130	<0.50	<0.50	<0.50	<0.50	2.5	5.1	7.4	
11/29/2004	--		10.00	25.00	11.12	6.06	--	--	--	--	--	--	--	--	
02/02/2005	--		10.00	25.00	9.73	7.45	--	--	--	--	--	--	--	--	

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
 ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			
A-2 Cont.														
05/09/2005	-	17.18	10.00	25.00	12.82	4.36	-	-	-	-	-	-	-	-
08/11/2005	P		10.00	25.00	11.29	5.89	<0.50	<0.50	<0.50	<0.50	1.2	1.6	7.1	m
02/09/2006	-		10.00	25.00	10.43	6.75	-	-	-	-	-	-	-	-
8/11/2006	P		10.00	25.00	11.12	6.06	<0.50	<0.50	<0.50	<0.50	1.4	1.1	7.0	
2/7/2007	-		10.00	25.00	11.07	6.11	-	-	-	-	-	-	-	-
8/14/2007	NP		10.00	25.00	11.28	5.90	<0.50	<0.50	<0.50	0.65	-	0.64	7.57	
2/22/2008	-		10.00	25.00	9.50	7.68	-	-	-	-	-	-	-	-
8/12/2008	NP		10.00	25.00	11.28	5.90	<0.50	<0.50	<0.50	0.96	-	0.57	9.44	
1/8/2009	-		10.00	25.00	10.90	6.28	-	-	-	-	-	-	-	-
9/4/2009	NP		10.00	25.00	11.77	5.41	<0.50	<0.50	<0.50	<0.50	<0.50	0.43	7.39	
3/5/2010	-		10.00	25.00	8.53	8.65	-	-	-	-	-	-	-	-
3/11/2011	P		10.00	25.00	9.67	7.51	<0.50	<0.50	<0.50	<0.50	<0.50	0.84	7.3	p (GRO)
8/26/2011	P		10.00	25.00	11.29	5.89	<2.0	<2.0	<2.0	<2.0	<2.0	1.01	7.6	r (GRO), s
2/22/2012	P		10.00	25.00	11.21	5.97	<2.0	<2.0	<2.0	<2.0	<2.0	0.54	7.68	r (GRO), s, t
8/16/2012	P		10.00	25.00	11.57	5.61	<0.50	<0.50	<0.50	<1.0	<0.50	3.09	7.45	
2/26/2013	P		10.00	25.00	11.02	6.16	<0.50	<0.50	<0.50	<1.0	<0.50	1.37	7.63	
8/8/2013	P		10.00	25.00	11.64	5.54	<0.50	<0.50	<0.50	<1.0	<0.50	3.38	7.48	
A-3														
6/26/2000	-	15.75	9.00	29.50	11.98	3.77	-	-	-	-	-	-	-	-
7/20/2000	-		9.00	29.50	12.21	3.54	-	-	-	-	-	-	-	-
9/19/2000	-		9.00	29.50	12.50	3.25	-	-	-	-	-	-	-	-
12/26/2000	-		9.00	29.50	12.17	3.58	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-
3/20/2001	-		9.00	29.50	10.70	5.05	-	-	-	-	-	-	-	-
6/12/2001	-		9.00	29.50	12.09	3.66	-	-	-	-	-	-	-	-
9/23/2001	-		9.00	29.50	12.65	3.10	-	-	-	-	-	-	-	-
12/28/2001	-		9.00	29.50	9.94	5.81	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	-
3/21/2002	-		9.00	29.50	9.69	6.06	-	-	-	-	-	-	-	-
4/17/2002	-		9.00	29.50	10.61	5.14	-	-	-	-	-	-	-	-
8/14/2002	-		9.00	29.50	12.27	3.48	-	-	-	-	-	-	-	-
11/27/2002	-		9.00	29.50	12.22	3.53	-	-	-	-	-	-	-	-

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses

ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			
A-3 Cont.														
2/12/2003	-	15.75	9.00	29.50	11.40	4.35	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	6.9	d
5/22/2003	-		9.00	29.50	11.42	4.33	-	-	-	-	-	-	-	
7/23/2003	-		9.00	29.50	12.00	3.75	-	-	-	-	-	-	-	
02/16/2004	-	18.37	9.00	29.50	10.94	7.43	-	-	-	-	-	-	-	g, i
05/06/2004	-		9.00	29.50	11.75	6.62	-	-	-	-	-	-	-	
09/02/2004	-		9.00	29.50	12.15	6.22	-	-	-	-	-	-	-	
11/29/2004	-		9.00	29.50	11.87	6.50	-	-	-	-	-	-	-	
02/02/2005	-		9.00	29.50	10.42	7.95	-	-	-	-	-	-	-	
05/09/2005	-		9.00	29.50	10.49	7.88	-	-	-	-	-	-	-	
08/11/2005	-		9.00	29.50	12.02	6.35	-	-	-	-	-	-	-	
02/09/2006	-		9.00	29.50	11.27	7.10	-	-	-	-	-	-	-	
8/11/2006	-		9.00	29.50	11.83	6.54	-	-	-	-	-	-	-	
2/7/2007	-		9.00	29.50	11.82	6.55	-	-	-	-	-	-	-	
8/14/2007	-		9.00	29.50	12.06	6.31	-	-	-	-	-	-	-	
2/22/2008	-		9.00	29.50	10.25	8.12	-	-	-	-	-	-	-	
8/12/2008	-		9.00	29.50	12.10	6.27	-	-	-	-	-	-	-	
1/8/2009	-		9.00	29.50	11.71	6.66	-	-	-	-	-	-	-	
9/4/2009	-		9.00	29.50	12.57	5.80	-	-	-	-	-	-	-	
3/5/2010	-		9.00	29.50	9.13	9.24	-	-	-	-	-	-	-	
3/11/2011	-		9.00	29.50	--	--	-	-	-	-	-	-	-	q
A-4														
6/26/2000	-	15.25	8.00	28.00	10.99	4.26	-	-	-	-	-	-	-	
7/20/2000	-		8.00	28.00	11.16	4.09	-	-	-	-	-	-	-	
9/19/2000	-		8.00	28.00	11.97	3.28	-	-	-	-	-	-	-	
12/26/2000	-		8.00	28.00	11.19	4.06	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	
3/20/2001	-		8.00	28.00	9.81	5.44	-	-	-	-	-	-	-	
6/12/2001	-		8.00	28.00	11.12	4.13	-	-	-	-	-	-	-	
9/23/2001	-		8.00	28.00	11.63	3.62	-	-	-	-	-	-	-	
12/28/2001	-		8.00	28.00	8.41	6.84	<0.5	<0.5	<0.5	<0.5	<2.5	-	-	
3/21/2002	-		8.00	28.00	8.63	6.62	-	-	-	-	-	-	-	

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			
A-4 Cont.														
4/17/2002	--	15.25	8.00	28.00	9.68	5.57	--	--	--	--	--	--	--	
8/14/2002	--		8.00	28.00	11.31	3.94	--	--	--	--	--	--	--	
11/27/2002	--		8.00	28.00	11.25	4.00	--	--	--	--	--	--	--	
2/12/2003	--		8.00	28.00	10.37	4.88	<0.50	<0.50	<0.50	<0.50	<0.50	0.9	7.1	d
5/22/2003	--		8.00	28.00	10.42	4.83	--	--	--	--	--	--	--	
7/23/2003	--		8.00	28.00	11.02	4.23	--	--	--	--	--	--	--	
02/15/2004	--	18.01	8.00	28.00	9.65	8.36	--	--	--	--	--	--	--	B, i
05/06/2004	--		8.00	28.00	10.68	7.33	--	--	--	--	--	--	--	
09/02/2004	--		8.00	28.00	10.83	7.18	--	--	--	--	--	--	--	
11/29/2004	--		8.00	28.00	10.50	7.51	--	--	--	--	--	--	--	
02/02/2005	--		8.00	28.00	9.22	8.79	--	--	--	--	--	--	--	
05/09/2005	--		8.00	28.00	8.98	9.03	--	--	--	--	--	--	--	
08/11/2005	--		8.00	28.00	10.99	7.02	--	--	--	--	--	--	--	
02/09/2006	--		8.00	28.00	10.15	7.86	--	--	--	--	--	--	--	
8/11/2006	--		8.00	28.00	10.30	7.71	--	--	--	--	--	--	--	
2/7/2007	--		8.00	28.00	10.63	7.38	--	--	--	--	--	--	--	
8/14/2007	--		8.00	28.00	10.70	7.31	--	--	--	--	--	--	--	
2/22/2008	--		8.00	28.00	8.90	9.11	--	--	--	--	--	--	--	
8/12/2008	--		8.00	28.00	10.60	7.41	--	--	--	--	--	--	--	
1/8/2009	--		8.00	28.00	10.90	7.11	--	--	--	--	--	--	--	
9/4/2009	--		8.00	28.00	11.80	6.21	--	--	--	--	--	--	--	
3/5/2010	--		8.00	28.00	7.64	10.37	--	--	--	--	--	--	--	
3/11/2011	--		8.00	28.00	--	--	--	--	--	--	--	--	--	q
A-5														
6/26/2000	--	13.51	8.00	30.00	10.04	3.47	--	--	--	--	--	--	--	
7/20/2000	--		8.00	30.00	10.31	3.20	730	140	11	<0.5	8.9	3	--	
9/19/2000	--		8.00	30.00	10.55	2.96	160	13	<0.5	2.8	1.9	<3	--	
12/26/2000	--		8.00	30.00	10.37	3.14	8,120	465	108	659	1,450	<250	--	
3/20/2001	--		8.00	30.00	8.81	4.70	7,990	1,110	473	611	1,580	<250	--	
6/12/2001	--		8.00	30.00	10.13	3.38	450	91	18	35	95	<5.0	--	

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote	
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes				MTBE
A-5 Cont.															
9/23/2001	-	13.51	8.00	30.00	10.80	2.71	110	20	<0.5	5	5	2.7	--		
12/28/2001	-		8.00	30.00	8.17	5.34	320	24	2	20	27	5	--		
3/21/2002	-		8.00	30.00	7.78	5.73	2,500	420	85	130	350	31	--		
4/17/2002	-		8.00	30.00	8.68	4.83	1,300	190	36	67	210	<25	--		
8/14/2002	-		8.00	30.00	10.41	3.10	840	150	<5.0	68	41	<25	1.4	6.8	b
11/27/2002	-		8.00	30.00	10.50	3.01	300	26	2.3	17	6	<0.5	1.16	7.2	b
2/12/2003	-		8.00	30.00	10.81	2.70	<500	74	7	34	45	<5.0	1.0	7.3	d
5/22/2003	-		8.00	30.00	9.46	4.05	500	100	9	28	47	<5.0	1.0	7.6	
7/23/2003	-		8.00	30.00	10.29	3.22	900	100	5.7	65	57	<5.0	4.5	8.4	
11/13/2003	NP		8.00	30.00	11.24	2.27	1,800	210	5.1	190	140	<5.0	4.3	7.32	f
02/16/2004	NP	16.09	8.00	30.00	9.45	6.64	680	52	15	50	77	<0.50	5.0	7.8	h, i
05/06/2004	P		8.00	30.00	10.28	5.81	1,500	140	13	72	110	<2.5	1.03	6.93	
09/02/2004	NP		8.00	30.00	10.78	5.31	690	69	1.3	42	35	<1.0	1.3	7.1	
11/29/2004	NP		8.00	30.00	10.05	6.04	<5,000	360	<50	190	290	<50	1.0	7.0	
02/02/2005	NP		8.00	30.00	8.37	7.72	220	31	2.3	10	13	<0.50	0.6	7.4	
05/09/2005	NP		8.00	30.00	8.45	7.64	110	1.7	<0.50	1.4	1.1	<0.50	2.5	7.6	
08/11/2005	NP		8.00	30.00	10.11	5.98	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.8	7.3	
02/09/2006	NP		8.00	30.00	9.02	7.07	<50	0.62	<0.50	<0.50	<0.50	<0.50	0.89	7.3	o
8/11/2006	NP		8.00	30.00	9.77	6.32	400	13	3.4	8.0	58	<0.50	2.16	7.2	
2/7/2007	P		8.00	30.00	9.90	6.19	10,000	670	120	1,100	3,100	<10	2.12	7.03	
8/14/2007	NP		8.00	30.00	9.70	6.39	28,000	260	68	3,000	7,800	<10	1.37	7.80	
2/22/2008	NP		8.00	30.00	8.02	8.07	27,000	410	98	2,600	4,400	<50	1.36	7.42	
8/12/2008	NP		8.00	30.00	9.50	6.59	31,000	140	<50	1,800	3,900	<50	0.62	9.70	
1/8/2009	NP		8.00	30.00	9.29	6.80	39,000	300	53	2,400	5,400	<50	0.67	7.59	
9/4/2009	NP		8.00	30.00	10.42	5.67	130	<0.50	<0.50	<0.50	<0.50	<0.50	0.46	7.19	
3/5/2010	P		8.00	30.00	7.55	8.54	110	1.4	<0.50	6.1	7.3	<0.50	0.59	7.18	
3/11/2011	NP		8.00	30.00	8.30	7.79	190	7.4	<0.50	15	10	<0.50	2.33	7.6	p (GRO)
8/26/2011	P		8.00	30.00	9.81	6.28	1,900	36	1.4	190	52	<0.50	0.57	7.0	
2/22/2012	P		8.00	30.00	9.98	6.11	93	<0.50	<0.50	1.0	<0.50	<0.50	0.66	7.51	r (GRO)
8/16/2012	P		8.00	30.00	10.33	5.76	130	1.4	<0.50	18	1.1	<0.50	2.64	7.95	

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
 ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE			
A-5 Cont.															
2/26/2013	P	16.09	8.00	30.00	9.78	6.31	<0.50	<0.50	<0.50	<0.50	<1.0	1.65	7.31		
8/8/2013	P		8.00	30.00	10.39	5.70	<0.50	<0.50	<0.50	<1.0	<0.50	3.82	7.70		
A-6															
6/26/2000	--	13.51	8.00	28.50	10.09	3.42	--	--	--	--	--	--	--		
7/20/2000	--		8.00	28.50	10.91	2.60	<0.5	<0.5	0.6	2	6	--	--		
9/19/2000	--		8.00	28.50	11.27	2.24	<0.5	<0.5	<0.5	<1.0	6	--	--		
12/26/2000	--		8.00	28.50	10.65	2.86	<0.5	<0.5	<0.5	<0.5	8.17	--	--		
3/20/2001	--		8.00	28.50	8.72	4.79	<0.5	<0.5	<0.5	1.8	19.9	--	--		
6/12/2001	--		8.00	28.50	10.80	2.71	0.62	<0.5	<0.5	<0.5	15	--	--		
9/23/2001	--		8.00	28.50	10.79	2.72	1.7	1.9	2.3	3.3	53	--	--		
12/28/2001	--		8.00	28.50	8.05	5.46	0.98	3.5	0.77	1.4	26	--	--		
3/21/2002	--		8.00	28.50	7.83	5.68	<0.5	<0.5	<0.5	<0.5	19	--	--		
4/17/2002	--		8.00	28.50	8.73	4.78	<0.5	<0.5	<0.5	<0.5	16	--	--		
8/14/2002	--		8.00	28.50	10.43	3.08	4.8	2.6	2	4.9	75	1.5	7.1	b	
11/27/2002	--		8.00	28.50	10.47	3.04	<0.5	0.74	<0.5	<0.5	16	0.9	6.9	b	
2/12/2003	--		8.00	28.50	10.44	3.07	<0.5	<0.5	<0.5	<0.5	9.9	0.8	7.1	d	
5/22/2003	--		8.00	28.50	9.43	4.08	<0.5	<0.5	<0.5	<0.5	11	1.2	8.2		
7/23/2003	--		8.00	28.50	10.27	3.24	<0.5	<0.5	<0.5	<0.5	14	>20	9.6		
11/13/2003	NP		8.00	28.50	11.20	2.31	<0.5	<0.5	<0.5	<0.5	2.3	6.2	9.0	f	
02/16/2004	NP		8.00	28.50	9.76	6.34	50	<0.5	<0.5	<0.5	3.9	6.5	8.3	h, i	
05/06/2004	P	16.10	8.00	28.50	10.03	6.07	110	<0.5	<0.5	<0.5	7.1	1.01	7.02		
09/02/2004	NP		8.00	28.50	10.47	5.63	56	<0.5	<0.5	<0.5	4.4	3.2	7.4		
11/29/2004	NP		8.00	28.50	9.99	6.11	<0.5	<0.5	<0.5	<0.5	2.9	0.92	6.9		
02/02/2005	NP		8.00	28.50	8.46	7.64	150	<0.5	<0.5	<0.5	14	0.5	7.4		
05/09/2005	NP		8.00	28.50	8.55	7.55	93	<0.5	<0.5	<0.5	12	3.0	7.2		
08/11/2005	NP		8.00	28.50	10.13	5.97	780	<0.5	<0.5	<0.5	14	1.0	6.9		
02/09/2006	NP		8.00	28.50	9.23	6.87	210	<0.5	<0.5	<0.5	17	1.27	6.8	o	
8/11/2006	NP		8.00	28.50	9.95	6.15	920	<0.5	<0.5	<0.5	21	1.6	7.0		
2/7/2007	P		8.00	28.50	9.72	6.38	170	<0.5	<0.5	<0.5	7.1	2.18	7.24		
8/14/2007	NP		8.00	28.50	9.82	6.28	<0.5	<0.5	<0.5	<0.5	2.3	1.72	8.22		

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
 ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote	
							GRO/TPHig	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
A-6 Cont.																
2/22/2008	NP	16.10	8.00	28.50	8.07	8.03	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	11	0.79	7.48	
8/12/2008	NP		8.00	28.50	9.70	6.40	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.4	0.58	9.58	
1/8/2009	NP		8.00	28.50	9.45	6.65	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	0.61	7.32	
9/4/2009	NP		8.00	28.50	10.60	5.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.9	0.51	7.18	
3/5/2010	P		8.00	28.50	7.27	8.83	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.1	0.65	7.11	
3/11/2011	NP		8.00	28.50	8.37	7.73	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5.7	1.56	7.7	p (GRO)
8/26/2011	P		8.00	28.50	9.90	6.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.2	1.22	7.3	
2/22/2012	P		8.00	28.50	10.03	6.07	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.3	0.69	7.45	
8/16/2012	P		8.00	28.50	10.44	5.66	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.5	8.18	7.58	
2/26/2013	P		8.00	28.50	9.83	6.27	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3.6	1.36	7.44	
8/8/2013	P		8.00	28.50	10.46	5.64	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.8	3.76	7.32	
ADR-1																
6/26/2000	--	13.95	5.00	22.00	10.55	3.40	--	--	--	--	--	--	--	--	--	--
7/20/2000	--		5.00	22.00	10.85	3.10	<0.5	<0.5	0.8	<1.0	<1.0	<1.0	22	--	--	
9/19/2000	--		5.00	22.00	11.08	2.87	7.4	<0.5	1.2	<1.0	<1.0	<1.0	22	--	--	
12/26/2000	--		5.00	22.00	10.93	3.02	1.29	<0.5	<0.5	<0.5	<0.5	<0.5	14.7	--	--	
3/20/2001	--		5.00	22.00	9.32	4.63	23.4	<0.5	8.71	4.13	4.13	4.13	10.8	--	--	
6/12/2001	--		5.00	22.00	10.65	3.30	23	0.5	13	4.2	4.2	4.2	7.5	--	--	
9/23/2001	--		5.00	22.00	11.25	2.70	1.4	<0.5	<0.5	0.57	0.57	0.57	2.8	--	--	
12/28/2001	--		5.00	22.00	8.43	5.52	16	<0.5	1.2	4.1	4.1	4.1	6.8	--	--	
3/21/2002	--		5.00	22.00	8.27	5.68	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	
4/17/2002	--		5.00	22.00	9.17	4.78	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	
8/14/2002	--		5.00	22.00	11.88	2.07	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	3.4	6.7	
11/27/2002	--		5.00	22.00	10.91	3.04	0.54	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	1.8	6.8	
2/12/2003	--		5.00	22.00	9.95	4.00	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.73	1.9	7.2	d
5/22/2003	--		5.00	22.00	9.86	4.09	0.96	<0.50	<0.50	<0.50	<0.50	<0.50	3.5	1.2	7.3	
7/23/2003	--		5.00	22.00	10.59	3.36	2.5	<0.50	0.56	<0.50	<0.50	<0.50	4	>20	9.4	
11/13/2003	--		5.00	22.00	11.15	2.80	0.60	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	8.5	8.2	f
02/16/2004	NP	16.56	5.00	22.00	9.43	7.13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.6	5.5	9.6	f,i
05/07/2004	NP		5.00	22.00	10.41	6.15	5.3	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	1.72	7.0	

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
 ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

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							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes				MTBE
ADR-1 Cont.															
09/02/2004	NP	16.56	5.00	22.00	10.73	5.83	<0.50	<0.50	<0.50	<0.50	<0.50	18.1	8.4		
11/29/2004	NP		5.00	22.00	10.30	6.26	<0.50	<0.50	<0.50	<0.50	<0.50	0.77	6.9		
02/02/2005	NP		5.00	22.00	9.02	7.54	<0.50	<0.50	<0.50	<0.50	<0.50	0.5	7.5		
05/09/2005	NP		5.00	22.00	8.92	7.64	<0.50	<0.50	<0.50	<0.50	<0.50	2.9	7.3		
08/11/2005	NP		5.00	22.00	10.57	5.99	67	<0.50	<0.50	<0.50	<0.50	0.6	6.0		
02/09/2006	NP		5.00	22.00	10.05	6.51	<0.50	<0.50	<0.50	<0.50	<0.50	1.09	7.0		o
8/11/2006	NP		5.00	22.00	10.20	6.36	76	<0.50	<0.50	<0.50	<0.50	1.06	7.1		
2/7/2007	NP		5.00	22.00	10.15	6.41	<0.50	<0.50	<0.50	<0.50	<0.50	0.64	7.33		
8/14/2007	NP		5.00	22.00	10.30	6.26	560	11	1.7	12	2.5	0.94	7.38		
2/22/2008	NP		5.00	22.00	8.55	8.01	120	<0.50	<0.50	<0.50	<0.50	1.52	6.95		
8/12/2008	NP		5.00	22.00	10.20	6.36	1,400	46	7.7	13	19	0.50	9.32		
1/8/2009	NP		5.00	22.00	9.95	6.61	740	<0.50	0.94	<0.50	0.58	0.47	7.36		
9/4/2009	NP		5.00	22.00	11.06	5.50	810	<0.50	0.65	<0.50	<0.50	0.61	7.17		
3/5/2010	NP		5.00	22.00	7.62	8.94	62	<0.50	<0.50	<0.50	<0.50	1.33	7.01		
3/11/2011	NP		5.00	22.00	8.88	7.68	<0.50	<0.50	<0.50	<0.50	<0.50	1.60	7.3		
8/26/2011	P		5.00	22.00	10.42	6.14	840	54	2.7	13	48	0.46	7.0		
2/22/2012	P		5.00	22.00	10.48	6.08	90	0.99	<0.50	<0.50	<0.50	0.70	7.64		r (GRO)
8/16/2012	P		5.00	22.00	10.90	5.66	480	16	0.52	1.4	2.0	2.90	7.50		
2/26/2013	P		5.00	22.00	10.26	6.30	<0.50	<0.50	<0.50	<0.50	<1.0	1.09	7.73		
8/8/2013	P		5.00	22.00	10.89	5.67	<0.50	<0.50	<0.50	<0.50	<1.0	2.61	7.49		
ADR-2															
6/26/2000	--	14.64	5.00	22.00	11.22	3.42	--	--	--	--	--	--	--		
7/20/2000	--		5.00	22.00	11.60	3.04	12,000	410	2.5	540	720	--	--		
9/19/2000	--		5.00	22.00	11.81	2.83	1,400	530	5	680	740	--	--		
12/26/2000	--		5.00	22.00	11.52	3.12	901	26.6	<5.0	21.4	32.5	--	--		j
3/20/2001	--		5.00	22.00	10.10	4.54	--	--	--	--	--	--	--		j
6/12/2001	--		5.00	22.00	11.41	3.23	--	--	--	--	--	--	--		
9/23/2001	--		5.00	22.00	11.98	2.66	5,300	370	<5.0	550	96	--	--		
12/28/2001	--		5.00	22.00	9.48	5.16	2,600	190	<5.0	160	29	--	--		
3/21/2002	--		5.00	22.00	9.10	5.54	180	6	<0.5	4.5	3.2	--	--		

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethy-Benzene	Total Xylenes			
ADR-2 Cont.														
4/17/2002	--	14.64	5.00	22.00	9.93	4.71	730	<0.5	13	<0.5	<25	--	--	
8/14/2002	--		5.00	22.00	12.09	2.55	1,300	<10	100	47	<50	0.9	7.0	b
11/27/2002	--		5.00	22.00	11.66	2.98	1,800	3.1	120	14	74	0.6	6.9	b
2/12/2003	--		5.00	22.00	10.74	3.90	760	<5.0	15	5.2	22	1.3	7.1	d
5/22/2003	--		5.00	22.00	10.67	3.97	520	<5.0	7.1	<5.0	9.7	0.7	7.6	
7/23/2003	--		5.00	22.00	11.38	3.26	140	<0.50	5	0.98	8.4	>20	9.4	f, i
02/16/2004	--	17.24	5.00	22.00	10.26	6.98	--	--	--	--	--	--	--	
05/06/2004	--		5.00	22.00	11.05	6.19	--	--	--	--	--	--	--	
09/02/2004	P		5.00	22.00	11.50	5.74	<500	<5.0	71	12	5.6	0.7	7.4	
11/29/2004	--		5.00	22.00	11.20	6.04	--	--	--	--	--	--	--	
02/02/2005	--		5.00	22.00	9.76	7.48	--	--	--	--	--	--	--	
05/09/2005	--		5.00	22.00	11.18	6.06	--	--	--	--	--	--	--	
08/11/2005	NP		5.00	22.00	11.30	5.94	1,900	<2.5	160	9.6	9.0	0.6	6.6	
02/09/2006	--		5.00	22.00	9.60	7.64	--	--	--	--	--	--	--	
8/11/2006	NP		5.00	22.00	11.13	6.11	570	<1.0	2.2	<1.0	4.6	0.8	7.1	
2/7/2007	--		5.00	22.00	11.08	6.16	--	--	--	--	--	--	--	
8/14/2007	NP		5.00	22.00	11.28	5.96	520	<0.50	3.6	<0.50	5.3	0.65	7.37	
2/22/2008	--		5.00	22.00	9.47	7.77	--	--	--	--	--	--	--	
8/12/2008	NP		5.00	22.00	11.27	5.97	560	<0.50	0.80	<0.50	4.2	0.71	9.40	
1/8/2009	--		5.00	22.00	10.88	6.36	--	--	--	--	--	--	--	
9/4/2009	NP		5.00	22.00	11.79	5.45	330	<0.50	<0.50	<0.50	1.9	0.55	7.38	
3/5/2010	--		5.00	22.00	8.55	8.69	--	--	--	--	--	--	--	
3/11/2011	NP		5.00	22.00	9.65	7.59	230	<0.50	0.56	<0.50	1.9	1.27	7.6	p (GRO)
8/26/2011	P		5.00	22.00	11.27	5.97	1,900	<0.50	7.1	<0.50	40	1.18	7.3	j
2/22/2012	P		5.00	22.00	11.29	5.95	310	<0.50	1.4	<0.50	11	0.34	7.72	r (GRO)
8/16/2012	P		5.00	22.00	11.69	5.55	280	<1.0	7.1	<2.0	320	2.67	7.46	
2/26/2013	P		5.00	22.00	11.09	6.15	120	<0.50	<0.50	<1.0	6.4	1.17	7.76	
8/8/2013	P		5.00	22.00	11.68	5.56	94	<0.50	<0.50	<1.0	6.9	2.79	7.75	
AR-1														
6/26/2000	--	15.61	8.00	28.00	11.59	4.02	--	--	--	--	--	--	--	

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
 ARCO Service Station #2169, 859 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes			
AR-1 Cont.														
7/20/2000	-	15.61	8.00	28.00	12.06	3.55	<50	<0.5	<0.5	<0.5	<1.0	6	-	
9/19/2000	-		8.00	28.00	11.89	3.72	<50	<0.5	<0.5	<1.0	<3		-	
12/26/2000	-		8.00	28.00	11.95	3.66	<50	<0.5	<0.5	<0.5	<2.5		-	
03/20/2001	-		8.00	28.00	-	-	-	-	-	-	-		-	a
6/12/2001	-		8.00	28.00	11.87	3.74	<50	<0.5	<0.5	<0.5	17		-	
9/23/2001	-		8.00	28.00	12.42	3.19	-	-	-	-	-		-	
12/28/2001	-		8.00	28.00	7.62	7.99	<50	<0.5	<0.5	<0.5	<2.5		-	
3/21/2002	-		8.00	28.00	9.37	6.24	-	-	-	-	-		-	
4/17/2002	-		8.00	28.00	10.43	5.18	<50	<0.5	<0.5	<0.5	<2.5		-	
8/14/2002	-		8.00	28.00	12.08	3.53	<50	<0.5	<0.5	1.3	<2.5		7.9	
11/27/2002	-		8.00	28.00	12.00	3.61	-	-	-	-	-		-	
2/12/2003	-		8.00	28.00	10.89	4.72	<50	<0.5	<0.5	<0.5	<0.50		1.8	d
5/22/2003	-		8.00	28.00	11.18	4.43	-	-	-	-	-		1.3	
7/23/2003	-		8.00	28.00	11.73	3.88	<50	<0.5	<0.5	<0.50	<0.50		7.7	
11/13/2003	-		8.00	28.00	12.05	3.56	-	-	-	-	-		-	
02/16/2004	-	18.18	8.00	28.00	10.35	7.83	-	-	-	-	-		-	
05/06/2004	-		8.00	28.00	11.60	6.58	-	-	-	-	-		-	
09/02/2004	P		8.00	28.00	11.88	6.30	<50	<0.50	<0.50	<0.50	<0.50		1.2	
11/29/2004	-		8.00	28.00	11.55	6.63	-	-	-	-	-		-	
02/02/2005	-		8.00	28.00	9.92	8.26	-	-	-	-	-		-	
05/09/2005	-		8.00	28.00	10.19	7.99	-	-	-	-	-		-	
08/11/2005	P		8.00	28.00	11.80	6.38	<50	<0.50	<0.50	<0.50	<0.50		7.4	n
02/09/2006	-		8.00	28.00	10.49	7.69	-	-	-	-	-		-	
8/11/2006	P		8.00	28.00	11.48	6.70	<50	<0.50	<0.50	<0.50	<0.50		5.42	e
2/7/2007	-		8.00	28.00	-	-	-	-	-	-	-		-	
8/14/2007	-		8.00	28.00	-	-	-	-	-	-	-		-	
2/22/2008	-		8.00	28.00	-	-	-	-	-	-	-		-	
8/12/2008	NP		8.00	28.00	11.57	6.61	<50	<0.50	<0.50	<0.50	<0.50		0.42	e
1/8/2009	-		8.00	28.00	11.43	6.75	-	-	-	-	-		-	
9/4/2009	NP		8.00	28.00	12.52	5.66	<50	<0.50	<0.50	<0.50	<0.50		0.62	e

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
 ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L						DO (mg/L)	pH	Footnote	
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE				
AR-1 Cont.																
3/5/2010	--	18.18	8.00	28.00	8.66	9.52	--	--	--	--	--	--	--	--	--	q
3/11/2011	--		8.00	28.00	--	--	--	--	--	--	--	--	--	--	--	
AR-2																
6/26/2000	--	15.28	8.50	28.50	11.79	3.49	--	--	--	--	--	--	--	--	--	
7/20/2000	--		8.50	28.50	12.07	3.21	<0.5	<0.5	<0.5	<1.0	<3	--	--	--	--	
9/19/2000	--		8.50	28.50	12.08	3.20	<0.5	<0.5	<0.5	<1.0	<3	--	--	--	--	
12/26/2000	--		8.50	28.50	11.95	3.33	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--	
3/20/2001	--		8.50	28.50	10.50	4.78	--	--	--	--	--	--	--	--	--	
6/12/2001	--		8.50	28.50	11.73	3.55	<0.5	<0.5	<0.5	<0.5	82	--	--	--	--	
9/23/2001	--		8.50	28.50	12.43	2.85	--	--	--	--	--	--	--	--	--	
12/28/2001	--		8.50	28.50	8.60	6.68	<0.5	<0.5	<0.5	<0.5	30	--	--	--	--	
3/21/2002	--		8.50	28.50	9.49	5.79	--	--	--	--	--	--	--	--	--	
4/17/2002	--		8.50	28.50	10.37	4.91	<0.5	<0.5	<0.5	<0.5	3.2	--	--	--	--	
8/14/2002	--		8.50	28.50	12.13	3.15	<0.5	<0.5	<0.5	<0.5	<2.5	1.4	7.9	--	--	
11/27/2002	--		8.50	28.50	12.08	3.20	--	--	--	--	--	--	--	--	--	d
2/12/2003	--		8.50	28.50	11.15	4.13	<0.5	<0.5	<0.5	<0.5	<0.50	1.2	7.5	--	--	
5/22/2003	--		8.50	28.50	11.18	4.10	--	--	--	--	--	--	--	--	--	
7/23/2003	--		8.50	28.50	11.85	3.43	<0.5	<0.5	<0.5	<0.5	<0.50	1.3	8.2	--	--	f
11/13/2003	--		8.50	28.50	11.98	3.30	--	--	--	--	--	--	--	--	--	f,i
02/16/2004	--	17.87	8.50	28.50	10.69	7.18	--	--	--	--	--	--	--	--	--	
05/06/2004	--		8.50	28.50	11.55	6.32	--	--	--	--	--	--	--	--	--	k
09/02/2004	--		8.50	28.50	--	--	--	--	--	--	--	--	--	--	--	
09/20/2004	NP		8.50	28.50	11.98	5.89	<0.5	<0.5	<0.5	<0.50	<0.50	2.2	10.4	--	--	
11/29/2004	--		8.50	28.50	12.62	5.25	--	--	--	--	--	--	--	--	--	
02/02/2005	--		8.50	28.50	10.12	7.75	--	--	--	--	--	--	--	--	--	
05/09/2005	--		8.50	28.50	10.13	7.74	--	--	--	--	--	--	--	--	--	
08/11/2005	NP		8.50	28.50	11.73	6.14	<0.5	<0.5	<0.5	<0.50	<0.50	1.8	7.3	--	--	
02/09/2006	--		8.50	28.50	10.03	7.84	--	--	--	--	--	--	--	--	--	
8/11/2006	NP		8.50	28.50	11.61	6.26	<0.5	<0.5	<0.50	<0.50	<0.50	2.1	7.4	--	--	
2/7/2007	--		8.50	28.50	11.52	6.35	--	--	--	--	--	--	--	--	--	

Table 2. Summary of Groundwater Monitoring Data: Relative Water Elevations and Laboratory Analyses
 ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L					DO (mg/L)	pH	Footnote	
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes				MTBE
AR-2 Cont.															
8/14/2007	NP	17.87	8.50	28.50	11.75	6.12	<50	<0.50	<0.50	<0.50	<0.50	0.86	7.41		
2/22/2008	-		8.50	28.50	9.82	8.05	-	-	-	-	-	-	-		
8/12/2008	NP		8.50	28.50	11.78	6.09	<50	<0.50	<0.50	<0.50	<0.50	0.37	9.13		
1/8/2009	-		8.50	28.50	11.40	6.47	-	-	-	-	-	-	-		
9/4/2009	NP		8.50	28.50	11.32	6.55	<50	<0.50	<0.50	<0.50	<0.50	0.53	7.56		
3/5/2010	-		8.50	28.50	9.04	8.83	-	-	-	-	-	-	-		
3/11/2011	NP		8.50	28.50	9.80	8.07	150	<0.50	<0.50	<0.50	<0.50	2.40	8.6		p (GRO)
8/26/2011	P		8.50	28.50	11.39	6.48	<50	<0.50	<0.50	<0.50	<0.50	2.03	8.4		
2/22/2012	P		8.50	28.50	11.42	6.45	<50	<0.50	<0.50	<0.50	<0.50	0.38	8.69		
8/16/2012	P		8.50	28.50	11.83	6.04	<50	<0.50	<0.50	<0.50	<0.50	3.19	8.35		
2/26/2013	P		8.50	28.50	11.17	6.70	<50	<0.50	<0.50	<0.50	<0.50	1.29	8.80		
8/8/2013	P		8.50	28.50	11.82	6.05	<50	<0.50	<0.50	<0.50	<0.50	3.70	8.77		

Symbols & Abbreviations:

- = Not analyzed/applicable/measured/available
< = Not detected at or above specified laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in ft bgs
ft bgs = Feet below ground surface
ft MSL = Feet above mean sea level
GRO = Gasoline range organics
GWE = Groundwater elevation measured in ft MSL
mg/L = Milligrams per liter
MTBE = Methyl tert-butyl ether analyzed by EPA Method 8021B unless otherwise noted
NP = Well not purged prior to sampling
P = Well purged prior to sampling
TOC = Top of casing measured in ft MSL
TPH-g = Total petroleum hydrocarbons as gasoline
µg/L = Micrograms per liter

Footnotes:

a = Well was covered by stockpiled soil and not accessible
b = GRO/TPH-g chromatogram pattern: Gasoline C6-C10
c = Primary and confirmation results for xylene varied by greater than 40% RPD. The values may still be useful for their intended purpose
d = TPH-g, BTEX, and MTBE analyzed using EPA Method 8260B starting first quarter 2003
e = Well inaccessible
f = ORC sock in well
g = Well removed from annual sampling schedule
h = ORC sock removed prior to gauging
i = Site re-survey to NAV'88 datum on January 30, 2004
j = Sheen in well
k = Car parked over well AR-2 during monitoring event on 9/2/04. Well was sampled 9/20/04
m = Hydrocarbon result partly due to individual peak(s) in quant. range
n = Possible low bias for GRO due to CCV falling outside acceptance criteria
o = Initial analysis within holding time but failed QA/QC criteria
p = Quantitation of unknown hydrocarbon(s) in sample based on gasoline
q = Well decommissioned 6/16/2010
r = Quantitated against gasoline
s = Reporting limits raised due to high level of non-target analytes
t = Sample preserved improperly

Notes:

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

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

Top and bottom of screen depths for wells ADR-1 and ADR-2 are estimated from EMCON sampling sheets

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 3. Summary of Fuel Additives Analytical Data
 ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote	
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB				
A-1												
7/20/2000	-	-	25	-	-	-	-	-	-	-	-	-
9/19/2000	-	-	32	-	-	-	-	-	-	-	-	-
12/26/2000	-	-	18.7	-	-	-	-	-	-	-	-	-
3/20/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-
6/12/2001	-	-	25	-	-	-	-	-	-	-	-	-
9/23/2001	-	-	4.5	-	-	-	-	-	-	-	-	-
12/28/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-
3/21/2002	-	-	<2.5	-	-	-	-	-	-	-	-	-
4/17/2002	-	-	<2.5	-	-	-	-	-	-	-	-	-
8/14/2002	-	-	4.9	-	-	-	-	-	-	-	-	-
11/27/2002	-	-	6.4	-	-	-	-	-	-	-	-	-
2/12/2003	<40	<20	2.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
5/22/2003	<100	<20	4.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
7/23/2003	<100	<20	10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
11/13/2003	<100	<20	4.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
02/16/2004	<100	<20	3.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
05/06/2004	<100	<20	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
09/02/2004	<100	<20	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
11/29/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
02/02/2005	<100	<20	5.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
05/09/2005	<100	<20	2.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	a
08/11/2005	<100	<20	4.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	b
02/09/2006	<300	<20	5.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/11/2006	<300	<20	3.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/7/2007	<300	<20	20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/14/2007	<300	<20	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
2/22/2008	<1,500	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	d (1,2-DCA)
8/12/2008	<1,500	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
1/8/2009	<6,000	<200	<10	<10	<10	<10	<10	<10	<10	<10	<10	
9/4/2009	<300	<10	7.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/5/2010	<300	<10	3.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
3/11/2011	<3,000	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	

Table 3. Summary of Fuel Additives Analytical Data
 ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote	
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB				
A-1 Cont.												
8/26/2011	<3,000	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2/22/2012	<3,000	<100	7.6	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
8/16/2012	<300	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2/26/2013	<3,000	<200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8/8/2013	<750	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
A-2												
7/20/2000	-	-	<3	-	-	-	-	-	-	-	-	-
12/26/2000	-	-	<2.5	-	-	-	-	-	-	-	-	-
6/12/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-
12/28/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-
4/17/2002	-	-	26	-	-	-	-	-	-	-	-	-
8/14/2002	-	-	<2.5	-	-	-	-	-	-	-	-	-
2/12/2003	<40	<20	12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
7/23/2003	<100	<20	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
09/02/2004	<100	<20	2.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
08/11/2005	<100	<20	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/11/2006	<300	<20	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/14/2007	<300	<20	0.65	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/12/2008	<300	<10	0.96	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
9/4/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
3/11/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/26/2011	<1,200	<40	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2/22/2012	<1,200	<40	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
8/16/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2/26/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/8/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A-3												
12/26/2000	-	-	<2.5	-	-	-	-	-	-	-	-	-
12/28/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-
2/12/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

a
 d (1,2-DCA)

Table 3. Summary of Fuel Additives Analytical Data
 ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	Concentrations in µg/l										Footnote		
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB					
A-4													
12/26/2000	-	-	<2.5	-	-	-	-	-	-	-	-	-	-
12/28/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-	-
2/12/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A-5													
7/20/2000	-	-	3	-	-	-	-	-	-	-	-	-	-
9/19/2000	-	-	<3	-	-	-	-	-	-	-	-	-	-
12/26/2000	-	-	<250	-	-	-	-	-	-	-	-	-	-
3/20/2001	-	-	<250	-	-	-	-	-	-	-	-	-	-
6/12/2001	-	-	<5.0	-	-	-	-	-	-	-	-	-	-
9/23/2001	-	-	2.7	-	-	-	-	-	-	-	-	-	-
12/28/2001	-	-	5	-	-	-	-	-	-	-	-	-	-
3/21/2002	-	-	31	-	-	-	-	-	-	-	-	-	-
4/17/2002	-	-	<25	-	-	-	-	-	-	-	-	-	-
8/14/2002	-	-	<25	-	-	-	-	-	-	-	-	-	-
11/27/2002	-	-	<0.5	-	-	-	-	-	-	-	-	-	-
2/12/2003	<400	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
5/22/2003	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
7/23/2003	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
11/13/2003	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
02/16/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
05/06/2004	<500	<100	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
09/02/2004	<200	<40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
11/29/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
02/02/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
05/09/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
08/11/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
02/09/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/11/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2/7/2007	<6,000	<400	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8/14/2007	<6,000	<400	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2/22/2008	<30,000	<1,000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

a
b
d (1,2-DCA)

Table 3. Summary of Fuel Additives Analytical Data
 ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote	
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB				
A-5 Cont.												
8/12/2008	<30,000	<1,000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
1/8/2009	<30,000	<1,000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
9/4/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
3/5/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
3/11/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/26/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2/22/2012	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/16/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2/26/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/8/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
A-6												
7/20/2000	-	-	6	-	-	-	-	-	-	-	-	-
9/19/2000	-	-	6	-	-	-	-	-	-	-	-	-
12/26/2000	-	-	8.17	-	-	-	-	-	-	-	-	-
3/20/2001	-	-	19.9	-	-	-	-	-	-	-	-	-
6/12/2001	-	-	15	-	-	-	-	-	-	-	-	-
9/23/2001	-	-	53	-	-	-	-	-	-	-	-	-
12/28/2001	-	-	26	-	-	-	-	-	-	-	-	-
3/21/2002	-	-	19	-	-	-	-	-	-	-	-	-
4/17/2002	-	-	16	-	-	-	-	-	-	-	-	-
8/14/2002	-	-	75	-	-	-	-	-	-	-	-	-
11/27/2002	-	-	16	-	-	-	-	-	-	-	-	-
2/12/2003	<40	<20	9.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
5/22/2003	<100	<20	11	<0.50	<0.50	<0.50	<0.50	<0.50	0.6	0.54	<0.50	<0.50
7/23/2003	<100	<20	14	<0.50	<0.50	<0.50	<0.50	<0.50	0.54	<0.50	<0.50	<0.50
11/13/2003	<100	<20	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
02/16/2004	<100	<20	3.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
05/06/2004	<100	<20	7.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
09/02/2004	<100	<20	4.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
11/29/2004	<100	<20	2.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
02/02/2005	<100	<20	14	<0.50	<0.50	<0.50	<0.50	<0.50	0.91	<0.50	<0.50	<0.50

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Table 3. Summary of Fuel Additives Analytical Data
 ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote	
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB				
A-6 Cont.												
05/09/2005	<100	<20	12	<0.50	<0.50	0.66	<0.50	<0.50	<0.50			
08/11/2005	<100	<20	14	<0.50	<0.50	2.2	<0.50	<0.50	<0.50			a
02/09/2006	<300	<20	17	<0.50	<0.50	1.2	<0.50	<0.50	<0.50			b
8/11/2006	<300	<20	21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
2/7/2007	<300	<20	7.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
8/14/2007	<300	<20	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
2/22/2008	<300	<10	11	<0.50	<0.50	0.89	<0.50	<0.50	<0.50			
8/12/2008	<300	<10	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
1/8/2009	<300	<10	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
9/4/2009	<300	<10	4.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
3/5/2010	<300	<10	4.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
3/11/2011	<300	<10	5.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
8/26/2011	<300	<10	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
2/22/2012	<300	<10	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
8/16/2012	<150	<10	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
2/26/2013	<150	<10	3.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
8/8/2013	<150	<10	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			d (1,2-DCA)
ADR-1												
7/20/2000	-	-	22	-	-	-	-	-	-	-	-	-
9/19/2000	-	-	22	-	-	-	-	-	-	-	-	-
12/26/2000	-	-	14.7	-	-	-	-	-	-	-	-	-
3/20/2001	-	-	10.8	-	-	-	-	-	-	-	-	-
6/12/2001	-	-	7.5	-	-	-	-	-	-	-	-	-
9/23/2001	-	-	2.8	-	-	-	-	-	-	-	-	-
12/28/2001	-	-	6.8	-	-	-	-	-	-	-	-	-
3/21/2002	-	-	<2.5	-	-	-	-	-	-	-	-	-
4/17/2002	-	-	<2.5	-	-	-	-	-	-	-	-	-
8/14/2002	-	-	<2.5	-	-	-	-	-	-	-	-	-
11/27/2002	-	-	1.1	-	-	-	-	-	-	-	-	-
2/12/2003	<40	<20	0.73	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
5/22/2003	<100	<20	3.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 3. Summary of Fuel Additives Analytical Data
 ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote	
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB				
ADR-1 Cont.												
7/23/2003	<100	<20	4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
11/13/2003	<100	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
02/16/2004	<100	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
05/07/2004	<1,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
09/02/2004	<100	<20	0.84	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
11/29/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
02/02/2005	<100	<20	3.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
05/09/2005	<100	<20	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
08/11/2005	<100	<20	4.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
02/09/2006	<300	<20	2.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/11/2006	<300	<20	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2/7/2007	<300	<20	3.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/14/2007	<300	<20	3.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2/22/2008	<300	<10	3.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/12/2008	<600	<20	6.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1/8/2009	<300	<10	2.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
9/4/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
3/5/2010	<300	<10	0.92	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
3/11/2011	<300	<10	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/26/2011	<300	<10	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2/22/2012	<300	<10	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/16/2012	<150	<10	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2/26/2013	<150	<10	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/8/2013	<150	<10	0.95	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ADR-2												
7/20/2000	-	-	23	-	-	-	-	-	-	-	-	-
9/19/2000	-	-	34	-	-	-	-	-	-	-	-	-
12/26/2000	-	-	32.8	-	-	-	-	-	-	-	-	-
9/23/2001	-	-	60	-	-	-	-	-	-	-	-	-
12/28/2001	-	-	61	-	-	-	-	-	-	-	-	-
3/21/2002	-	-	15	-	-	-	-	-	-	-	-	-

Table 3. Summary of Fuel Additives Analytical Data
ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote	
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB				
ADR-2 Cont.												
4/17/2002	-	-	<25	-	-	-	-	-	-	-	-	-
8/14/2002	-	-	<50	-	-	-	-	-	-	-	-	-
11/27/2002	-	-	74	-	-	-	-	-	-	-	-	-
2/12/2003	<400	<200	22	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
5/22/2003	<1,000	<200	9.7	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
7/23/2003	<100	<20	8.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
09/02/2004	<1,000	<200	5.6	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
08/11/2005	<500	<100	9.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
8/11/2006	<600	<40	4.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
8/14/2007	<300	<20	5.3	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/12/2008	<300	<10	4.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
9/4/2009	<300	<10	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
3/11/2011	<300	<10	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/26/2011	<300	11	40	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	14	<0.50	<0.50
2/22/2012	<300	<10	11	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.7	<0.50	<0.50
8/16/2012	<300	<20	320	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	140	<1.0	<1.0
2/26/2013	<150	<10	6.4	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.76	<0.50	<0.50
8/8/2013	<150	<10	6.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.71	<0.50	<0.50
AR-1												
7/20/2000	-	-	6	-	-	-	-	-	-	-	-	-
9/19/2000	-	-	<3	-	-	-	-	-	-	-	-	-
12/26/2000	-	-	<2.5	-	-	-	-	-	-	-	-	-
6/12/2001	-	-	17	-	-	-	-	-	-	-	-	-
12/28/2001	-	-	<2.5	-	-	-	-	-	-	-	-	-
4/17/2002	-	-	<2.5	-	-	-	-	-	-	-	-	-
8/14/2002	-	-	<2.5	-	-	-	-	-	-	-	-	-
2/12/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
7/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
09/02/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
08/11/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/11/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 3. Summary of Fuel Additives Analytical Data
ARCO Service Station #2169, 889 W. Grand Ave., Oakland, CA

Well ID and Date Monitored	Concentrations in µg/L										Footnote	
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB				
AR-1 Cont.												
8/12/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
9/4/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
AR-2												
7/20/2000	-	-	<3	-	-	-	-	-	-	-	-	-
9/19/2000	-	-	<3	-	-	-	-	-	-	-	-	-
12/26/2000	-	-	<2.5	-	-	-	-	-	-	-	-	-
6/12/2001	-	-	82	-	-	-	-	-	-	-	-	-
12/28/2001	-	-	30	-	-	-	-	-	-	-	-	-
4/17/2002	-	-	3.2	-	-	-	-	-	-	-	-	-
8/14/2002	-	-	<2.5	-	-	-	-	-	-	-	-	-
2/12/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
7/23/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
09/20/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
08/11/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/11/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/14/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/12/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
9/4/2009	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
3/11/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/26/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2/22/2012	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/16/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2/26/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
8/8/2013	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

a
d (1,2-DCA)

Symbols & Abbreviations:

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

Footnotes:

a = Calibration verification was within method limits but outside contract limits for ethanol
b = Initial analysis within holding time but failed QA/QC criteria
c = Possible high bias due to CCV failing outside acceptance criteria for TBA.
d = CCV recovery above limit; analyte not detected

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
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH		Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	TPH Diesel (µg/L)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
							Gasoline (µg/L)	Gasoline (µg/L)									
A-1	03-24-95	14.16	8.10	ND	6.06	03-24-95	1,200	230	39	34	66	--	--	--	160		
A-1	06-05-95	14.16	11.13	ND	3.03	06-05-95	1,500	310	27	36	76	--	--	--	710		
A-1	08-17-95	14.16	11.71	ND	2.45	08-18-95	1,600	470	35	48	110	120	--	--	240		
A-1	12-04-95	14.16	12.28	ND	1.88	12-04-95	1,200	240	17	25	56	--	--	120			
A-1	03-01-96	14.16	8.78	ND	5.38	03-13-96	1,300	300	74	29	73	100	--	--	--		
A-1	05-29-96	14.16	9.85	ND	4.31	05-29-96	Not sampled: well sampled semi-annually, during the first and third quarters										
A-1	08-29-96	14.16	11.08	ND	3.08	08-29-96	1,200	320	5.9	25	27	110	--	--	--		
A-1	11-21-96	14.16	10.54	ND	3.62	11-21-96	Not sampled: well sampled semi-annually, during the first and third quarters										
A-1	03-26-97	14.16	10.55	ND	3.61	03-26-97	<50	0.8	<0.5	<0.5	<0.5	64	--	--	--		
A-1	08-08-97	14.16	11.32	ND	2.84	08-08-97	91	7	<0.5	0.5	3.9	<60	--	--	--		
A-1	11-18-97	14.16	3.46	ND	10.70	11-18-97	34	<0.5	<0.5	<0.5	0.6	27	--	--	--		
A-1	02-20-98	14.16	7.10	ND	7.06	02-23-98	590	160	22	15	28	70	--	--	--		
A-1	05-11-98	14.16	9.87	ND	4.29	05-11-98	280	26	<0.5	0.8	2.3	6	--	--	--		
A-1	10-08-98	14.16	10.73	ND	3.43	07-30-98	1,000	210	5	<5	38	<30	--	--	--		
A-1	02-18-99	14.16	8.00	ND	3.01	10-08-98	3,100	740	11	<10	24	<60	--	--	--		
A-1	05-26-99	14.16	10.60	ND	6.16	02-18-99	510	87	7.1	6.4	13	52	--	--	--		
A-1	08-23-99	14.16	11.22	ND	3.56	05-26-99	240	26	<0.5	1.2	6.2	34	--	--	--		
A-1	10-27-99	14.16	11.37	ND	2.94	08-23-99	79	3.9	0.6	<0.5	1.7	38	--	--	--		
A-1	01-31-00	14.16	9.44	ND	2.79	10-27-99	110	2.2	<0.5	<0.5	<1	25	--	--	--	0.68	
A-1	03-24-95	14.55	8.64	ND	4.72	01-31-00	<50	<0.5	<0.5	<0.5	<1	<3	--	--	--	0.80	
A-2	06-05-95	14.55	11.72	ND	5.91	03-24-95	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	1.0	
A-2	08-17-95	14.55	12.35	ND	2.83	06-05-95	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-2	12-04-95	14.55	12.74	ND	2.20	08-17-95	<50	<0.5	<0.5	<0.5	<0.5	<0.5	12	--	--		
A-2	03-01-96	14.55	9.34	ND	1.81	12-04-95	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-2				ND	5.21	03-13-96	<50	<0.5	0.6	<0.5	1.3	<9	--	--	--		

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ARCO Service Station 2169
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Well Number	TOC		FP Thickness (feet)	Groundwater Elevation (ft-MSL)		Date Sampled	TPH		Benzene (ug/L)	Toluenes (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE 8021B* (ug/L)	MTBE 8260 (ug/L)	IPH Diesel (ug/L)	Dissolved Oxygen (mg/L)	Purged Not Purged (P/NP)
	Date Gauged	Elevation (ft-MSL)		Depth to Water (feet)	Elevation (ft-MSL)		Gasoline (ug/L)										
A-2	05-29-96	14.55	ND	4.15	ND	05-29-96	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<20	--	--		
A-2	08-29-96	14.55	ND	3.05	ND	08-29-96	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<39	--	--		
A-2	11-21-96	14.55	ND	3.49	ND	11-21-96	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<30	--	--		
A-2	03-26-97	14.55	ND	3.43	ND	03-26-97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<20	--	--		
A-2	05-21-97	14.55	ND	2.97	ND	05-21-97	Not sampled: well sampled semi-annually, during the first and third quarters	<50	<0.5	<0.5	<0.5	<0.5	<20	--	--		
A-2	08-08-97	14.55	ND	2.73	ND	08-08-97	Not sampled: well sampled semi-annually, during the first and third quarters	<50	<0.5	<0.5	<0.5	<0.5	<20	--	--		
A-2	11-18-97	14.55	ND	11.72	ND	11-18-97	Not sampled: well sampled semi-annually, during the first and third quarters	<50	<0.5	<0.5	<0.5	<0.5	17	--	--		
A-2	02-20-98	14.55	ND	6.87	ND	02-20-98	Not sampled	<50	<0.5	<0.5	<0.5	<0.5	--	--			
A-2	05-11-98	14.55	ND	4.10	ND	05-11-98	Not sampled	<50	<0.5	<0.5	<0.5	<0.5	--	--			
A-2	07-30-98	14.55	ND	3.32	ND	07-30-98	Not sampled: well sampled semi-annually, during the first and second quarters	<50	<0.5	<0.5	<0.5	<0.5	--	--			
A-2	10-08-98	14.55	ND	2.93	ND	10-08-98	Not sampled: well sampled semi-annually, during the first and second quarters	<50	<0.5	<0.5	<0.5	<0.5	--	--			
A-2	02-18-99	14.55	ND	5.93	ND	02-18-99	93	<50	<0.5	<0.5	<0.5	<0.5	26	--	--		
A-2	05-26-99	14.55	ND	3.39	ND	05-26-99	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-2	08-23-99	14.55	ND	2.86	ND	08-23-99	Not sampled: well sampled semi-annually, during the first and second quarters	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	0.59	
A-2	10-27-99	14.55	ND	2.67	ND	10-27-99	Not sampled: well sampled semi-annually, during the first and second quarters	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	0.59	
A-2	01-31-00	14.55	ND	4.38	ND	01-31-00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<3	--	--	1.0	NP
A-3	03-24-95	15.75	ND	6.92	ND	03-24-95	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-3	06-05-95	15.75	ND	3.31	ND	06-05-95	Not sampled: well sampled annually	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-3	08-17-95	15.75	ND	2.71	ND	08-17-95	Not sampled: well sampled annually	<50	<0.5	<0.5	<0.5	<0.5	--	--	--		
A-3	12-04-95	15.75	ND	2.18	ND	12-04-95	Not sampled: well sampled annually	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-3	03-01-96	15.75	ND	5.85	ND	03-01-96	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-3	05-29-96	15.75	ND	4.67	ND	05-29-96	Not sampled: well sampled annually	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-3	08-29-96	15.75	ND	3.37	ND	08-29-96	Not sampled: well sampled annually	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-3	11-21-96	15.75	ND	3.89	ND	11-21-96	Not sampled: well sampled annually	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-3	03-26-97	15.75	ND	3.94	ND	03-26-97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<3	--	--		
A-3	05-21-97	15.75	ND	3.40	ND	05-21-97	Not sampled: well sampled annually	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--		

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Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	IPH				Total Xylenes (ug/L)	MTBE 8021B* (ug/L)	MTBE 8260 (ug/L)	IPH Diesel (ug/L)	Dissolved Oxygen (mg/L)	Purged/ Not Purged (P/NP)
							Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)						
A-3	08-08-97	15.75	12.62	ND	3.13	08-08-97	Not sampled: well sampled annually									
A-3	11-18-97	15.75	3.75	ND	12.00	11-18-97	Not sampled: well sampled annually									
A-3	02-20-98	15.75	8.06	ND	7.69	02-20-98	Not sampled: well sampled annually	<50	<0.5	<0.5	<0.5	<0.5				
A-3	05-11-98	15.75	11.19	ND	4.56	05-11-98	Not sampled: well sampled annually									
A-3	07-30-98	15.75	12.05	ND	3.70	07-30-98	Not sampled: well sampled annually									
A-3	10-08-98	15.75	12.43	ND	3.32	10-08-98	Not sampled: well sampled annually									
A-3	02-18-99	15.75	9.05	ND	6.70	02-18-99	Not sampled: well sampled annually	<50	<0.5	<0.5	<0.5	<0.5				
A-3	05-26-99	15.75	11.93	ND	3.82	05-26-99	Not sampled: well sampled annually									
A-3	08-23-99	15.75	12.57	ND	3.18	08-23-99	Not sampled: well sampled annually								0.88	
A-3	10-27-99	15.75	12.65	ND	3.10	10-27-99	Not sampled: well sampled annually	<50	<0.5	<0.5	<0.5	<0.5				
A-3	01-31-00	15.75	9.55	ND	6.20	01-31-00	Not sampled: well sampled annually									1.0
A-4	03-24-95	15.25	7.20	ND	8.05	03-24-95	Not sampled: well sampled annually	<50	<0.5	<0.5	<0.5	<0.5				
A-4	06-05-95	15.25	11.70	ND	3.55	06-05-95	Not sampled: well sampled annually									
A-4	08-17-95	15.25	12.28	ND	2.97	08-17-95	Not sampled: well sampled annually									
A-4	12-04-95	15.25	12.63	ND	2.62	12-04-95	Not sampled: well sampled annually									
A-4	03-01-96	15.25	8.55	ND	6.70	03-01-96	Not sampled: well sampled annually	<50	<0.5	<0.5	<0.5	<0.5				
A-4	05-29-96	15.25	10.32	ND	4.93	05-29-96	Not sampled: well sampled annually									
A-4	08-29-96	15.25	11.55	ND	3.70	08-29-96	Not sampled: well sampled annually									
A-4	11-21-96	15.25	10.83	ND	4.42	11-21-96	Not sampled: well sampled annually	<50	<0.5	<0.5	<0.5	<0.5				
A-4	03-26-97	15.25	10.97	ND	4.28	03-26-97	Not sampled: well sampled annually									
A-4	05-21-97	15.25	11.51	ND	3.74	05-21-97	Not sampled: well sampled annually									
A-4	11-18-97	15.25	11.73	ND	3.52	11-18-97	Not sampled: well sampled annually									
A-4	08-08-97	15.25	4.37	ND	10.88	08-08-97	Not sampled: well sampled annually									
A-4	02-20-98	15.25	6.25	ND	9.00	02-20-98	Not sampled: well sampled annually	<50	<0.5	<0.5	<0.5	<0.5				
A-4	05-11-98	15.25	10.33	ND	4.92	05-11-98	Not sampled: well sampled annually									
A-4	07-30-98	15.25	11.25	ND	4.00	07-30-98	Not sampled: well sampled annually									

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Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH										Purged/ Not Purged (P/NP)										
							Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE 8021B* (ug/L)	MTBE 8260 (ug/L)	TPH Diesel (ug/L)	Dissolved Oxygen (mg/L)												
A-4	10-08-98	15.25	11.62	ND	3.63	10-08-98	Not sampled: well sampled annually																				
A-4	02-18-99	15.25	7.12	ND	8.13	02-18-99	Not sampled: well sampled annually																				
A-4	05-26-99	15.25	11.12	ND	4.13	05-26-99	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.54		
A-4	08-23-99	15.25	11.62	ND	3.63	08-23-99	Not sampled: well sampled annually																				
A-4	10-27-99	15.25	11.74	ND	3.51	10-27-99	Not sampled: well sampled annually																				
A-4	01-31-00	15.25	9.45	ND	5.80	01-31-00	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	NP	
A-5	03-24-95	13.51	7.40	ND	6.11	03-24-95	3,300	200	310	460	130	310	460	130	310	460	130	310	460	130	310	460	130	310	460	130	310
A-5	06-05-95	13.51	10.43	ND	3.08	06-05-95	57,000	2,700	4,600	6,800	1,500	4,600	6,800	1,500	4,600	6,800	1,500	4,600	6,800	1,500	4,600	6,800	1,500	4,600	6,800	1,500	4,600
A-5	08-17-95	13.51	11.15	ND	2.36	08-17-95	34,000	1,600	2,700	5,100	1,100	2,700	5,100	1,100	2,700	5,100	1,100	2,700	5,100	1,100	2,700	5,100	1,100	2,700	5,100	1,100	2,700
A-5	12-04-95	13.51	11.42	ND	2.09	12-04-95	61	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A-5	03-01-96	13.51	8.11	ND	5.40	03-13-96	11,000	860	960	1,600	380	960	1,600	380	960	1,600	380	960	1,600	380	960	1,600	380	960	1,600	380	960
A-5	05-29-96	13.51	9.30	ND	4.21	05-29-96	19,000	1,600	1,900	3,300	880	1,900	3,300	880	1,900	3,300	880	1,900	3,300	880	1,900	3,300	880	1,900	3,300	880	1,900
A-5	08-29-96	13.51	10.60	ND	2.91	08-29-96	7,700	490	450	990	260	450	990	260	450	990	260	450	990	260	450	990	260	450	990	260	450
A-5	11-21-96	13.51	10.05	ND	3.46	11-21-96	8,000	450	550	1,100	340	550	1,100	340	550	1,100	340	550	1,100	340	550	1,100	340	550	1,100	340	550
A-5	03-26-97	13.51	9.87	ND	3.64	03-26-97	3,100	190	140	340	130	140	340	130	140	340	130	140	340	130	140	340	130	140	340	130	140
A-5	05-21-97	13.51	10.25	ND	3.26	05-21-97	16,000	1,500	900	2,700	700	900	2,700	700	900	2,700	700	900	2,700	700	900	2,700	700	900	2,700	700	900
A-5	08-08-97	13.51	10.42	ND	3.09	08-08-97	9,000	690	240	440	130	240	440	130	240	440	130	240	440	130	240	440	130	240	440	130	240
A-5	11-18-97	13.51		ND	Not surveyed: well inaccessible																						
A-5	02-20-98	13.51		ND	Not surveyed: well inaccessible																						
A-5	05-11-98	13.51		ND	Not surveyed: well inaccessible																						
A-5	07-30-98	13.51		ND	Not surveyed: well inaccessible																						
A-5	10-08-98	13.51		ND	Not surveyed: well inaccessible																						
A-5	02-18-99	13.51	7.63	ND	5.88	02-18-99	<50	0.8	<0.5	1.5	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
A-5	05-26-99	13.51	9.85	ND	3.66	05-26-99	1,700	240	41	330	110	41	330	110	41	330	110	41	330	110	41	330	110	41	330	110	41
A-5	08-23-99	13.51	10.60	ND	2.91	08-23-99	560	65	3	52	30	3	52	30	3	52	30	3	52	30	3	52	30	3	52	30	3
A-5	10-27-99	13.51	10.72	ND	2.79	10-27-99	480	93	1.0	19	16	1.0	19	16	1.0	19	16	1.0	19	16	1.0	19	16	1.0	19	16	1.0

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present****

ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	PF Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH		Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8360 (µg/L)	TPH Diesel (µg/L)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
							Gasoline (µg/L)	Not sampled: well was inaccessible									
A-5	01-31-00	13.51	9.37	ND	4.14	01-31-00	Not sampled: well was inaccessible										
A-6	03-24-95	13.51	7.89	ND	5.62	03-24-95	120	<0.5	<1	<0.5	<0.5	<1.5	--	--	--	--	
A-6	06-05-95	13.51	10.06	ND	3.45	06-05-95	160	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
A-6	08-17-95	13.51	11.10	ND	2.41	08-18-95	530	<0.5	<0.5	<0.5	<0.5	<0.5	6	--	--	--	
A-6	12-04-95	13.51	11.52	ND	1.99	12-04-95	28,000	1,600	1,800	880	3,600	<20	--	--	--	--	
A-6	03-01-96	13.51	8.21	ND	5.30	03-13-96	1,400	<0.5	<0.5	<0.5	<0.5	<0.5	3	--	--	--	
A-6	05-29-96	13.51	9.25	ND	4.26	05-29-96	410	<0.5	<0.5	<0.5	<0.5	<0.5	6	--	--	--	
A-6	08-29-96	13.51	10.52	ND	2.99	08-29-96	80	<0.5	<0.5	<0.5	<0.5	<0.5	12	--	--	--	
A-6	11-21-96	13.51	10.34	ND	2.97	11-21-96	62	<0.5	<0.5	<0.5	<0.5	<0.5	15	--	--	--	
A-6	03-26-97	13.51	9.93	ND	3.58	03-26-97	110	<0.5	0.8	1	1.4	<0.5	3	--	--	--	
A-6	05-21-97	13.51	10.54	ND	2.97	05-21-97	600	0.6	0.6	<0.5	2.7	<0.5	<4	--	--	--	
A-6	08-08-97	13.51	10.77	ND	2.74	08-08-97	830	<0.5	<0.5	6.1	<0.5	<0.5	7	--	--	--	
A-6	11-18-97	13.51	3.41	ND	10.10	11-18-97	690	<1	<1	3	2	<0.5	4	--	--	--	
A-6	02-20-98	13.51	6.73	ND	6.78	02-20-98	60	<0.5	0.6	1.3	0.5	<0.5	4	--	--	--	
A-6	05-11-98	13.51	9.26	ND	4.25	05-11-98	140	<0.5	0.7	0.6	<0.5	<0.5	6	--	--	--	
A-6	07-30-98	13.51	10.12	ND	3.39	07-30-98	910	<0.5	<0.5	3	7	<0.5	34	--	--	--	
A-6	10-08-98	13.51	10.53	ND	2.98	10-08-98	1,300	<0.5	<0.5	4	4	<0.5	21	--	--	--	
A-6	02-18-99	13.51	7.50	ND	6.01	02-18-99	150	<0.5	<0.5	1.4	1.7	<0.5	35	--	--	--	
A-6	05-26-99	13.51	10.00	ND	3.51	05-26-99	100	<0.5	<0.5	<0.5	<0.5	<0.5	17	--	--	--	
A-6	08-23-99	13.51	10.70	ND	2.81	08-23-99	98	0.6	<0.5	1.1	4.3	<0.5	13	--	--	--	2.42
A-6	10-27-99	13.51	11.00	ND	2.51	10-27-99	<50	<0.5	<0.5	<0.5	<1	<0.5	7	--	--	--	13.23
A-6	01-31-00	13.51	9.31	ND	4.20	01-31-00	<50	<0.5	<0.5	<0.5	<1	<0.5	9	--	--	--	1.0
AR-1	03-24-95	15.61	7.25	ND	8.36	03-24-95	270	14	0.6	2.5	2.1	--	--	--	--	--	130
AR-1	06-05-95	15.61	11.37	ND	4.24	06-05-95	190	10	<0.5	0.8	0.5	--	--	--	--	--	580
AR-1	08-17-95	15.61	12.40	ND	3.21	08-17-95	960	110	12	4.5	150	14	--	--	--	--	<50

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Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present**

ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC		Depth to Water (feet)	FR Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH			Ethylbenzene (µg/L)	Toluene (µg/L)	Benzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	TPH Diesel (µg/L)	Dissolved Oxygen (mg/L)	Purged Not Purged (P/NP)
		Elevation (ft-MSL)	Gasoline (µg/L)																
AR-1	12-04-95	15.61	12.90	ND	2.71	12-04-95	<50	1.5	<0.5	<0.5	0.8	--	--	--	--	--	--	--	
AR-1	03-01-96	15.61	8.19	ND	7.42	03-13-96	150	3.8	0.5	1.4	1.3	<3	--	--	--	--	--	--	
AR-1	05-29-96	15.61	10.41	ND	5.20	05-29-96	Not sampled: well sampled semi-annually, during the first and third quarters												
AR-1	08-29-96	15.61	12.12	ND	3.49	08-29-96	<50	<0.5	<0.5	<0.5	0.8	<3	--	--	--	--	--	--	
AR-1	11-21-96	15.61	11.52	ND	4.09	11-21-96	Not sampled: well sampled semi-annually, during the first and third quarters												
AR-1	05-26-97	15.61	11.33	ND	4.28	03-26-97	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	--	--	--	
AR-1	05-21-97	15.61	12.02	ND	3.59	05-21-97	Not sampled: well sampled semi-annually, during the first and third quarters												
AR-1	08-08-97	15.61	12.31	ND	3.30	08-08-97	<50	0.7	<0.5	1	<0.5	<3	--	--	--	--	--	--	
AR-1	11-18-97	15.61	3.97	ND	11.64	11-18-97	Not sampled: well sampled semi-annually, during the first and third quarters												
AR-1	02-20-98	15.61	6.42	ND	9.19	02-23-98	<200	<2	<2	<2	160	--	--	--	--	--	--	--	
AR-1	05-11-98	15.61	10.93	ND	4.68	05-11-98	<50	<0.5	<0.5	<0.5	<0.5	4	--	--	--	--	--	--	
AR-1	07-30-98	15.61	11.82	ND	3.79	07-30-98	<50	<0.5	<0.5	<0.5	<0.5	6	--	--	--	--	--	--	
AR-1	10-08-98	15.61	12.24	ND	3.37	10-08-98	<50	<0.5	<0.5	<0.5	<0.5	6	--	--	--	--	--	--	
AR-1	02-18-99	15.61	7.75	ND	7.86	02-18-99	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--	--	--	--	--	
AR-1	05-26-99	15.61	11.62	ND	3.99	05-26-99	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	--	--	--	
AR-1	08-23-99	15.61	9.32	ND	6.29	08-23-99	Not sampled: well sampled semi-annually, during the first and second quarters												
AR-1	10-27-99	15.61	12.14	ND	5.47	10-27-99	Not sampled: well sampled semi-annually, during the first and second quarters												
AR-1	01-31-00	15.61	Not surveyed: well inaccessible																
AR-2	03-24-95	15.28	9.13	ND	6.15	03-24-95	<50	6.2	<0.5	<0.5	0.6	--	--	--	--	--	<50	--	
AR-2	06-05-95	15.28	12.09	ND	3.19	06-05-95	<50	<0.5	<0.5	<0.5	<0.5	4	--	--	--	--	<50	--	
AR-2	08-17-95	15.28	12.78	ND	2.50	08-18-95	<50	<0.5	<0.5	<0.5	<0.5	4	--	--	--	--	<50	--	
AR-2	12-04-95	15.28	11.44	ND	3.84	12-13-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	
AR-2	03-01-96	15.28	9.83	ND	5.45	03-13-96	190	26	2.6	3.3	13	200	--	--	--	--	--	--	
AR-2	05-29-96	15.28	10.97	ND	4.31	05-29-96	Not sampled: well sampled semi-annually, during the first and third quarters												
AR-2	08-29-96	15.28	12.20	ND	3.08	08-29-96	<50	<0.5	<0.5	<0.5	<0.5	95	--	--	--	--	--	--	
AR-2	11-21-96	15.28	11.57	ND	3.71	11-21-96	Not sampled: well sampled semi-annually, during the first and third quarters												

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Table 1
 Historical Groundwater Elevation and Analytical Data
 Petroleum Hydrocarbons and Their Constituents
 1995 - Present***

ARCO Service Station 2169
 889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH		Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8250 (µg/L)	TPH Diesel (µg/L)	Dissolved Oxygen (mg/L)	Purged Not Purged (P/NP)
							Gasoline (µg/L)	Not sampled									
AR-2	03-26-97	15.28	11.60	ND	3.68	03-26-97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	9	--	--	--	
AR-2	05-21-97	15.28	12.12	ND	3.16	05-21-97	Not sampled	well sampled semi-annually, during the first and third quarters	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	
AR-2	08-08-97	15.28	12.35	ND	2.93	08-08-97	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	
AR-2	11-18-97	15.28	3.48	ND	11.80	11-18-97	Not sampled	well sampled semi-annually, during the first and third quarters	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	
AR-2	02-20-98	15.28	8.00	ND	7.28	02-20-98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	43	--	--	--	
AR-2	05-11-98	15.28	10.97	ND	4.31	05-11-98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	
AR-2	07-30-98	15.28	11.76	ND	3.52	07-30-98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	
AR-2	10-08-98	15.28	12.17	ND	3.11	10-08-98	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	
AR-2	02-18-99	15.28	9.17	ND	6.11	02-18-99	<50	<0.5	<0.5	<0.5	<0.5	<1.0	<10	--	--	--	
AR-2	05-26-99	15.28	11.72	ND	3.56	05-26-99	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	
AR-2	08-23-99	15.28	12.31	ND	2.97	08-23-99	Not sampled	well sampled semi-annually, during the first and second quarters	<0.5	<0.5	<0.5	<0.5	<0.5	0.61	--	--	
AR-2	10-27-99	15.28	12.42	ND	2.86	10-27-99	Not sampled	well sampled semi-annually, during the first and second quarters	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	
AR-2	01-31-00	15.28	10.31	ND	4.97	01-31-00	Not sampled	well sampled semi-annually, during the first and second quarters	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	
ADR-1	03-24-95	13.95	8.04	0.01	** 5.92	03-24-95	Not sampled	well contained floating product	420	300	300	1,900	--	--	13,000		
ADR-1	06-05-95	13.95	11.02	ND	2.95	06-05-95	23,000	310	150	120	95	620	120	--	4,500		
ADR-1	08-18-95	13.95	11.86	ND	2.09	08-18-95	4,400	100	130	120	120	990	--	--	--		
ADR-1	12-04-95	13.95	10.05	ND	3.90	12-13-95	8,800	370	1,000	840	840	8,100	<100	--	--		
ADR-1	03-01-96	13.95	8.76	ND	5.19	03-13-96	89,000	230	380	370	2,700	<100	<100	--	--		
ADR-1	05-29-96	13.95	9.74	ND	4.21	05-30-96	27,000	190	58	76	470	85	--	--	--		
ADR-1	08-29-96	13.95	10.77	ND	3.18	08-29-96	5,300	82	21	32	270	110	--	--	--		
ADR-1	11-21-96	13.95	10.49	ND	3.46	11-21-96	1,900	260	6	39	27	95	--	--	--		
ADR-1	03-26-97	13.95	10.37	ND	3.58	03-26-97	1,300	300	18	37	200	79	--	--	--		
ADR-1	05-21-97	13.95	10.90	ND	3.05	05-21-97	2,100	620	49	110	470	<200	--	--	--		
ADR-1	08-08-97	13.95	11.12	ND	2.83	08-08-97	3,900	900	140	360	2,700	<60	--	--	--		
ADR-1	11-18-97	13.95	3.47	ND	10.48	11-18-97	18,000	900	140	360	2,700	<60	--	--	--		
ADR-1	02-20-98	13.95	Not surveyed	well inaccessible		02-20-98											

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH		Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE 8021B* (µg/L)	MTBE 8260 (µg/L)	TPH Diesel (µg/L)	Dissolved Oxygen (mg/L)	Purged/Not Purged (P/NP)
							Gasoline (µg/L)	Not Sampled									
ADR-1	05-11-98	13.95	Not surveyed: well inaccessible														
ADR-1	07-30-98	13.95	Not surveyed: well inaccessible														
ADR-1	10-08-98	13.95	Not surveyed: well inaccessible														
ADR-1	02-18-99	13.95	7.80	ND	6.15	02-18-99	200	4.4	<0.5	1.3	1.3	43					
ADR-1	05-26-99	13.95	10.40	ND	3.55	05-26-99	160	10	<0.5	1.7	1.8	43					
ADR-1	08-23-99	13.95	10.70	ND	3.25	08-23-99	7,400	310	16	210	970	18					NP
ADR-1	10-27-99	13.95	10.82	ND	3.13	10-27-99	5,000	210	63	180	490	5					NP
ADR-1	01-31-00	13.95	9.21	ND	4.74	01-31-00	290	3.6	<0.5	1.1	<1	26					NP
ADR-2	03-24-95	14.64	8.41	>3.00	NR(I)	03-24-95	Not sampled: well contained floating product										
ADR-2	06-05-95	14.64	11.45	>3.00	NR(H)	06-05-95	Not sampled: well contained floating product										
ADR-2	08-17-95	14.64	12.10	0.03	** 2.56	08-17-95	Not sampled: well contained floating product										
ADR-2	12-04-95	14.64	10.95	0.03	** 3.73	12-13-95	Not sampled: well contained floating product										
ADR-2	03-01-96	14.64	8.74	ND	5.90	03-13-96	29,000	1,100	1,200	710	3,800	<500					
ADR-2	05-29-96	14.64	10.43	ND	4.21	05-29-96	33,000	510	500	470	2,300	120					
ADR-2	08-29-96	14.64	11.64	ND	3.00	08-29-96	8,000	230	180	150	730	53					
ADR-2	11-21-96	14.64	11.23	ND	3.41	11-21-96	15,000	630	440	390	2,100	75					
ADR-2	05-26-97	14.64	11.13	ND	3.51	03-26-97	6,100	320	73	180	400	32					
ADR-2	05-21-97	14.64	11.64	ND	3.00	05-21-97	6,100	380	22	210	320	<30					
ADR-2	08-08-97	14.64	11.85	ND	2.79	08-08-97	8,400	380	35	230	910	<30					
ADR-2	11-18-97	14.64	3.33	ND	11.31	11-18-97	11,000	230	29	300	1,200	<60					
ADR-2	02-20-98	14.64	7.67	ND	6.97	02-20-98	4,700	320	30	130	360	20					
ADR-2	05-11-98	14.64	10.47	ND	4.17	05-11-98	Not sampled										
ADR-2	07-30-98	14.64	11.67	ND	2.97	10-08-98	Not sampled										
ADR-2	10-08-98	14.64	11.67	ND	2.97	10-08-98	Not sampled										
ADR-2	02-18-99	14.64	Not surveyed: well inaccessible														
ADR-2	05-26-99	14.64	11.92	ND	3.62	05-26-99	5,900	670	5	340	104	16					

Table 1
Historical Groundwater Elevation and Analytical Data
Petroleum Hydrocarbons and Their Constituents
1995 - Present***

ARCO Service Station 2169
889 West Grand Avenue, Oakland, California

Well Number	Date Gauged	TOC Elevation (ft-MSL)	Depth to Water (feet)	FP Thickness (feet)	Groundwater Elevation (ft-MSL)	Date Sampled	TPH			Ethylbenzene (ug/L)	Toluene (ug/L)	Benzene (ug/L)	Total Xylenes (ug/L)	MTBE 8021B* (ug/L)	MTBE 8260 (ug/L)	TPH Diesel (ug/L)	Dissolved Oxygen (mg/L)	Plugged/Not Plugged (P/NP)
							Gasoline (ug/L)	Not sampled: sheen present	7,700									
ADR-2	08-23-99	14.64	9.82	ND	4.82	08-23-99	9,100	570	12	410	1,000	28	--	--	0.50	NP		
ADR-2	10-27-99	14.64	9.85	Sheen	4.79	10-27-99	Not sampled: sheen present								0.65	NP		
ADR-2	01-31-00	14.64	10.15	ND	4.49	01-31-00	7,700	280	3.4	370	390	23	--	--	2.0	NP		

TOC: top of casing
 ft-MSL: elevation in feet, relative to mean sea level
 TPH: total petroleum hydrocarbons, California DHS LUFF Method
 BTEX: benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8021B. (EPA method 8021B. prior to 10/27/99).
 MTBE: Methyl tert-butyl ether
 ug/L: micrograms per liter
 ND: none detected
 NR: not reported; data not available or not measurable
 -: not analyzed or not applicable
 <: detection concentration not present at or above laboratory detection limit stated to the right.
 [1]: well contained more than 3 feet of floating product; exact product thickness and groundwater elevation could not be measured
 *: EPA method 8020 prior to 10/27/99
 **: [corrected elevation (Z)] = Z + (h * 0.73) where: Z = measured elevation, h = floating product thickness, 0.73 = density ratio of oil to water
 ***: For previous historical groundwater elevation data please refer to Fourth Quarter 1995 Groundwater Monitoring Program Results and Remediation System Performance Evaluation Report, ARCO Service Station 2169, 889 West Grand Avenue, Oakland, California, (EMCON, March 4, 1996).

TABLE 2

GROUND-WATER ANALYSES DATA

WELL NO.	SAMPLE DATE	ANALYZED DATE	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)	TPH-D (PPB)	WELL ELEV (FT)	STATIC WATER ELEV (FT)	PRODUCT THICKNESS (FT)	DEPTH WATER (FT)
A-1	23-Nov-92	--	--	--	--	--	--	--	14.75	2.92	0.00	11.83
	16-Dec-92	--	--	--	--	--	--	--	14.75	3.72	0.00	11.03
	28-Jan-93	03-Feb-93	3700	780	360	130	460	520*	14.75	5.67	0.00	9.08
A-2	23-Nov-92	--	--	--	--	--	--	--	15.16	2.58	0.00	12.18
	16-Dec-92	--	--	--	--	--	--	--	15.16	3.64	0.00	11.52
	28-Jan-93	03-Feb-93	<50	<0.50	<0.50	<0.50	<0.50	N/A	15.16	5.43	0.00	9.73
A-3	23-Nov-92	--	--	--	--	--	--	--	16.38	2.78	0.00	13.60
	16-Dec-92	--	--	--	--	--	--	--	16.38	4.07	0.00	12.31
	28-Jan-93	03-Feb-93	<50	<0.50	<0.50	<0.50	<0.50	N/A	16.38	6.05	0.00	10.33
A-4	23-Nov-92	--	--	--	--	--	--	--	15.89	3.26	0.00	12.63
	16-Dec-92	--	--	--	--	--	--	--	15.89	4.55	0.00	11.34
	28-Jan-93	03-Feb-93	<50	<0.50	<0.50	<0.50	<0.50	N/A	15.89	6.45	0.00	9.40
A-5	11-Feb-93	07-Feb-93	2800	380	640	140	970	N/A	14.14	4.99	0.00	9.15
A-6	11-Feb-93	18-Feb-93	1950	115	511	17	712	N/A	14.17	4.82	0.00	9.35
AR-1	23-Nov-92	--	--	--	--	--	--	--	15.71	2.91	0.00	12.80
	16-Dec-92	--	--	--	--	--	--	--	15.71	4.22	0.00	11.49
	28-Jan-93	03-Feb-93	15000	1200	510	510	2600	5300*	15.71	6.25	0.00	9.46
AR-2	23-Nov-92	--	--	--	--	--	--	--	15.79	--	--	--
	16-Dec-92	--	--	--	--	--	--	--	15.79	3.63	0.00	12.16
	28-Jan-93	03-Feb-93	2000	570	13	<10	380	290*	15.79	5.53	0.00	10.26

792701-8

TABLE 2

GROUND-WATER ANALYSES DATA

Current Regional Water Quality Control Board Maximum Contaminant Levels
 Benzene 1.0 ppb Xylenes 1750. ppb Ethylbenzene 680. ppb

Current DHS Action Levels Toluene 100.0 ppb

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline.
 PPB = Parts Per Billion.
 TB = Trip Blank

* Reported as a non-diesel mix.

- Notes: 1. All data shown as <x are reported as ND (none detected).
 2. Water level elevations referenced to Mean Sea Level (MSL).
 3. Well AR-2 could not be located on November 23, 1992.
 4. Halogenated volatile organic analyses performed on samples from Wells A-5 and A-6 collected on February 11, 1993 were reported as ND.

TABLE 7

HISTORICAL GROUND-WATER QUALITY DATABASE

WELL NO.	SAMPLE DATE	ANALYZED DATE	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)	TPH-DIESEL (PPB)
A-1	03-Apr-92	10-Apr-92	34000	6200	3900	410	3100	6100
A-1	17-Jul-92	21-Jul-92	5600	3000	500	<100	<100	N/A
A-2	03-Apr-92	10-Apr-92	<50	<0.30	<0.30	<0.30	<0.30	<50
A-2	17-Jul-92	21-Jul-92	<50	<0.50	<0.50	<0.50	<0.50	N/A
A-3	03-Apr-92	10-Apr-92	200	0.79	0.65	4.4	<0.30	130
A-3	17-Jul-92	21-Jul-92	<50	<0.50	<0.50	1.3	2.3	N/A
A-4	03-Apr-92	10-Apr-92	35	<0.30	<0.30	<0.30	<0.30	85
A-4	17-Jul-92	21-Jul-92	<50	<0.50	<0.50	<0.50	<0.50	N/A
AR-1	03-Apr-92	10-Apr-92	17000	310	1400	320	3000	12000
AR-1	17-Jul-92	21-Jul-92	44000	9100	1800	1800	10000	N/A
AR-2	17-Jul-92	21-Jul-92	150	6.6	24	6.6	39	N/A

CURRENT REGIONAL WATER QUALITY CONTROL BOARD MAXIMUM CONTAMINANT LEVELS

Benzene 1. ppb Xylenes 1750. ppb Ethylbenzene 680. ppb

CURRENT DHS ACTION LEVELS

Toluene 100.0 ppb

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline

PPB = Parts Per Billion

N/A = Not Analyzed

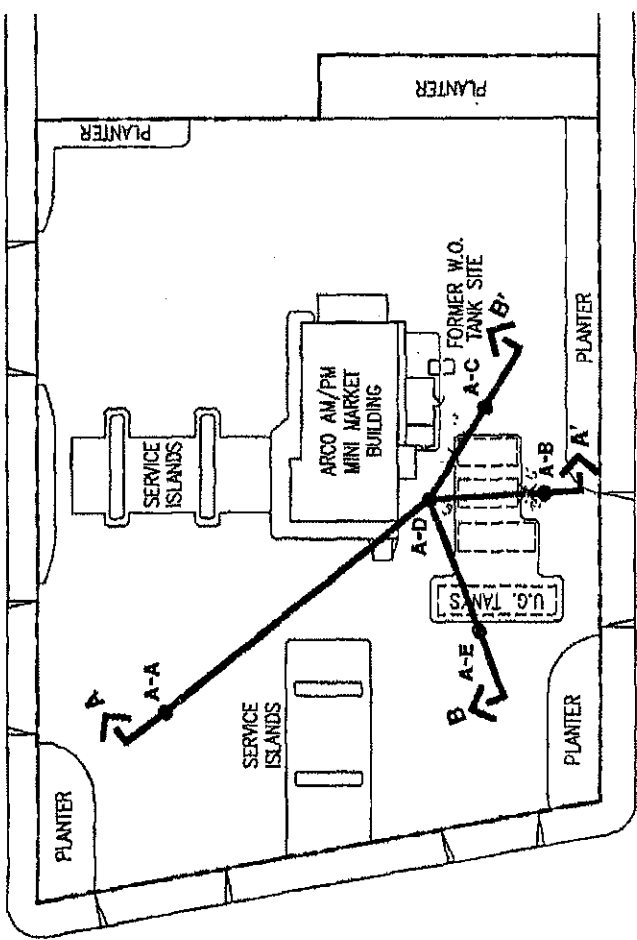
Notes: 1. DHS Action levels and MCL's are subject to change pending State of California review.

2. All data shown as <X are reported as ND (none detected).

EXPLANATION

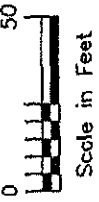
- Soil Boring
- ✕ Abandoned well
- ↔ Sections

WEST GRAND AVENUE

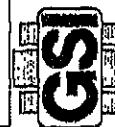


MARKET STREET

22nd STREET



Base Map: ARCO Site Plan dated 6-17-83 and
ARCO Tank & Line Replacement
Site Plan dated 4-22-91



GeoStrategies Inc.

SITE PLAN
ARCO Service Station #2169
889 West Grand Avenue
Oakland, California

PLATE **2**

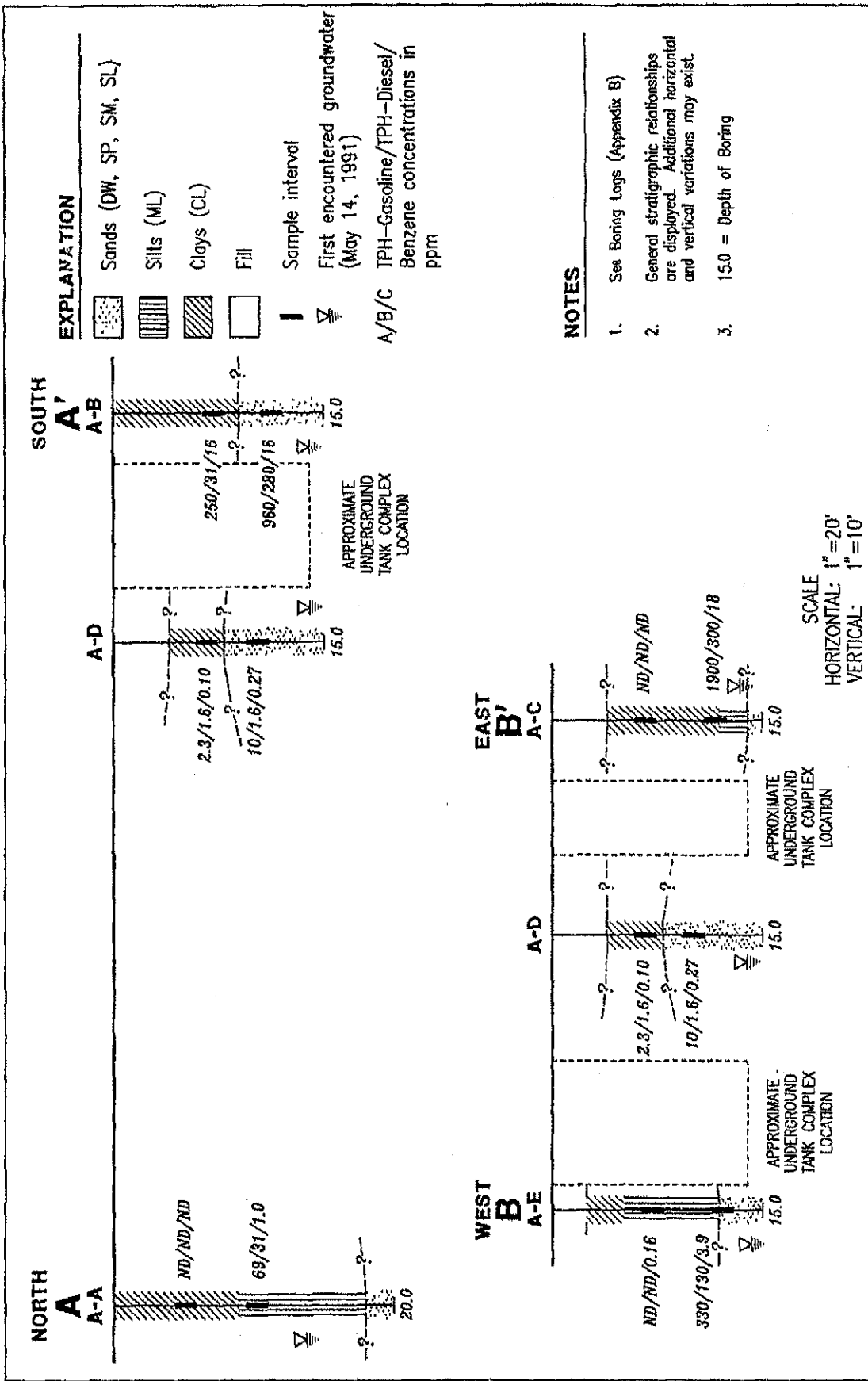
JOB NUMBER
792702-1

REVIEWED BY
DR

DATE
7/91

REVISED DATE

ATTACHMENT 6



PLATE

3

CROSS SECTIONS
 ARCO Service Station #2169
 889 West Grand Avenue
 Oakland, California

GeoStrategies Inc.

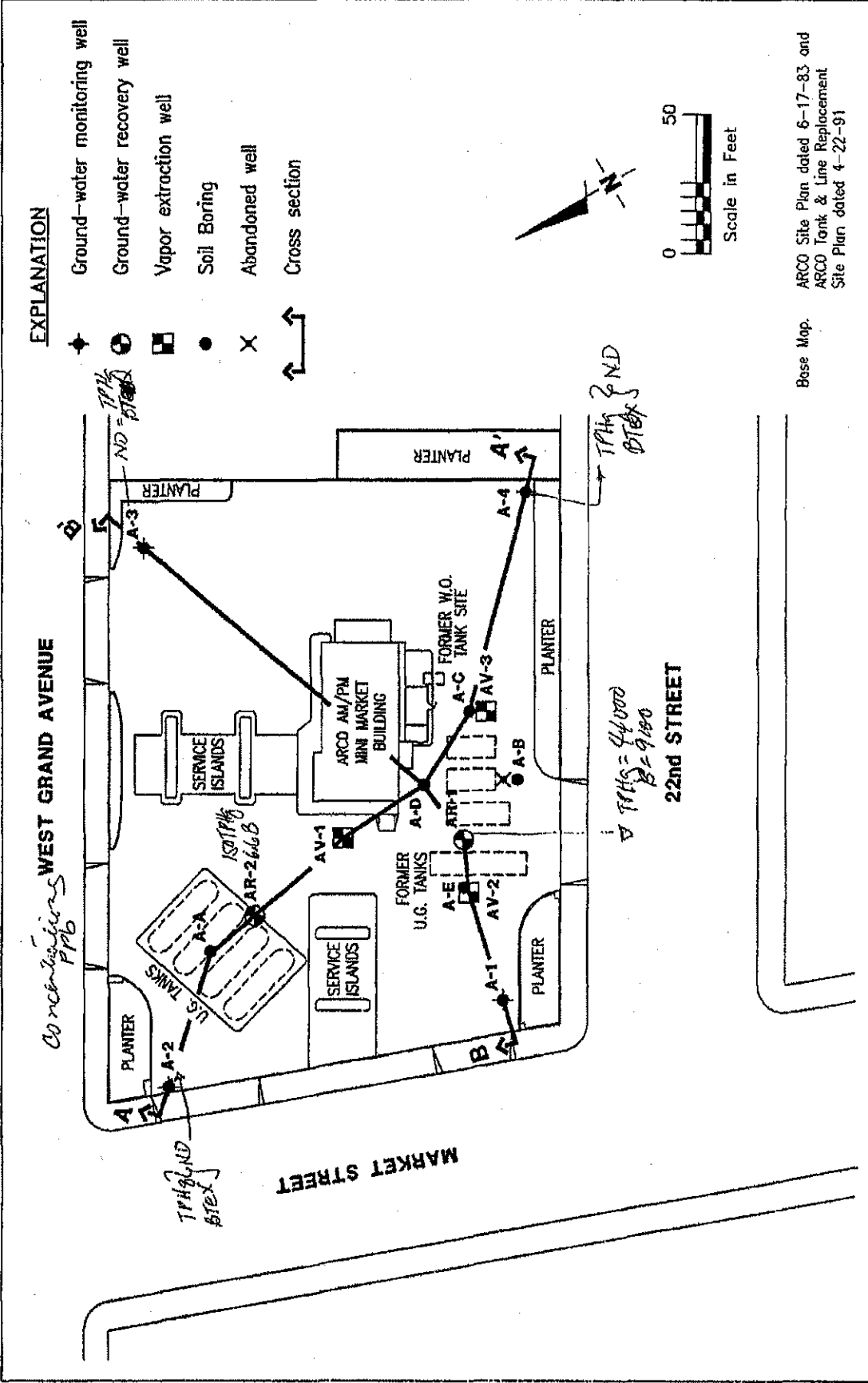
REVISED DATE

DATE
7/91

REVIEWED BY
DHP

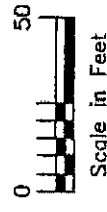
JOB NUMBER
792702-1





EXPLANATION

- ◆ Ground-water monitoring well
- ⊕ Ground-water recovery well
- ⊠ Vapor extraction well
- Soil Boring
- ✕ Abandoned well
- ↔ Cross section



Base Map. ARCO Site Plan dated 6-17-83 and ARCO Tank & Line Replacement Site Plan dated 4-22-91

PLATE
2

SITE PLAN
 ARCO Service Station #2169
 889 West Grand Avenue
 Oakland, California

GeoStrategies Inc.

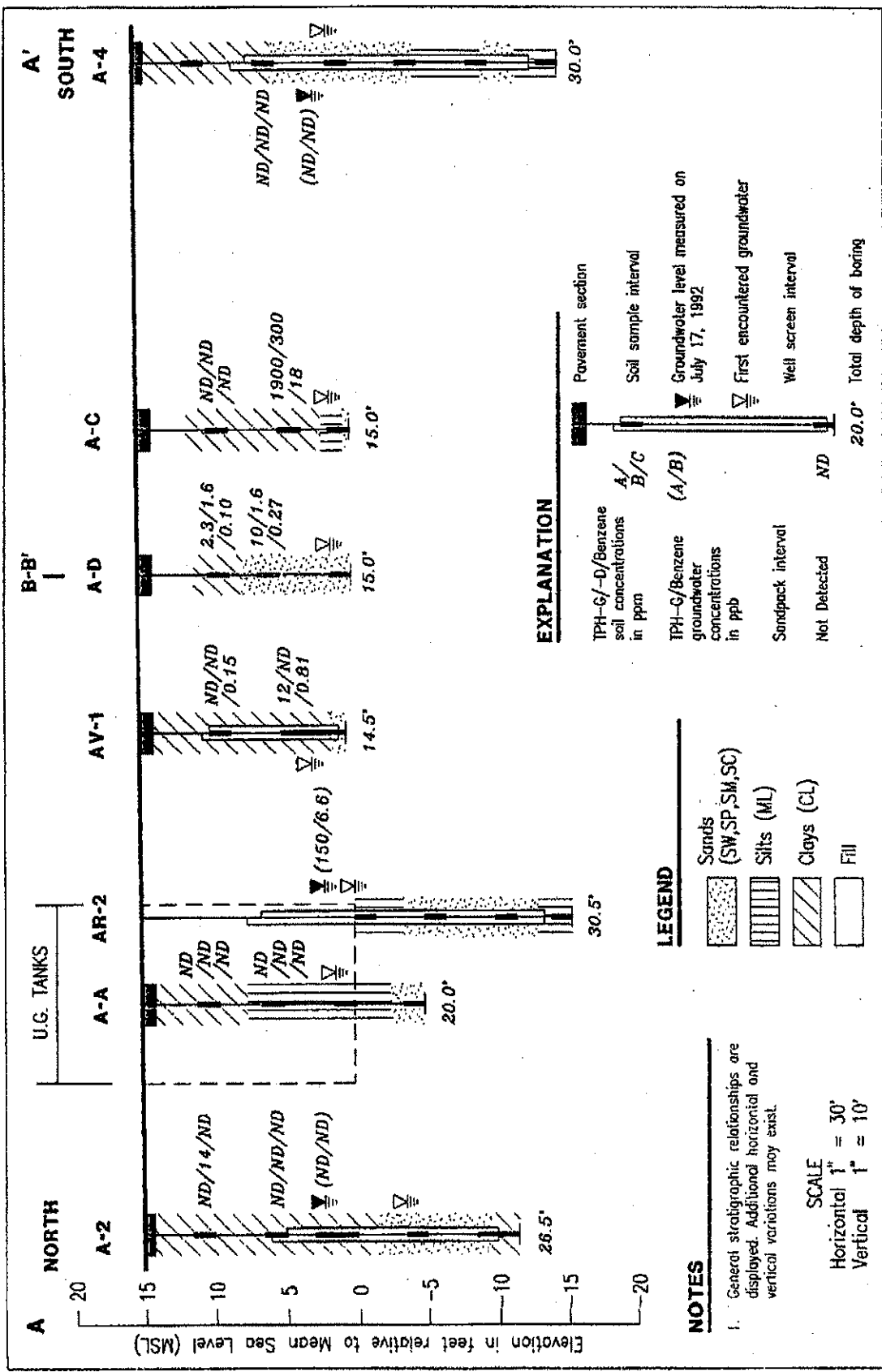


REVISION DATE
11/92

DATE
8/92

REVIEWED BY
JDM

JOB NUMBER
792705-4



CROSS SECTION A-A'
 ARCO Service Station #2169
 889 West Grand Avenue
 Oakland, California

REVISION DATE
 11/92

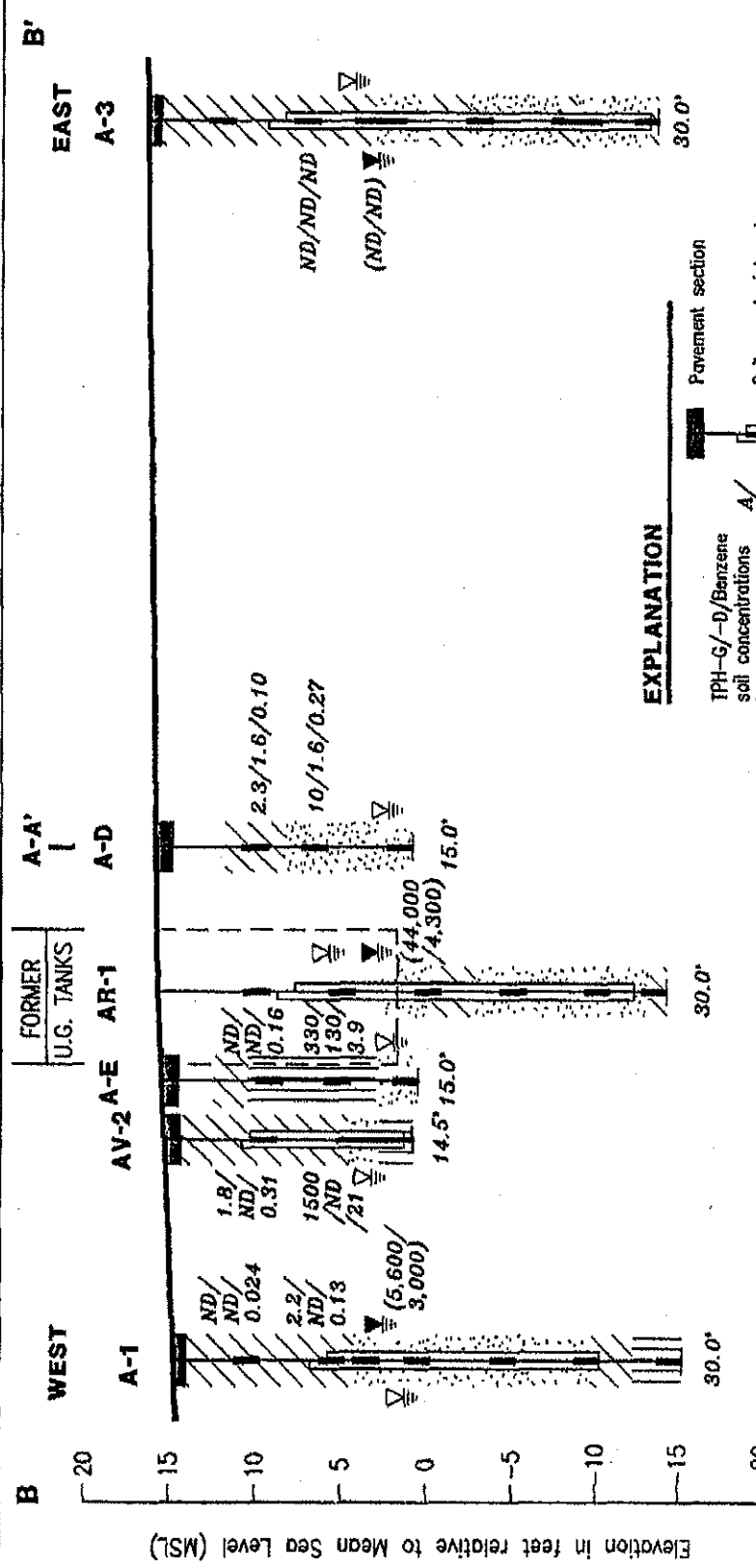
DATE
 8/92

GeoStrategies Inc.

REVIEWED BY
 JLM

JOB NUMBER
 792705-4





EXPLANATION

TPH-G/-D/Benzene soil concentrations in ppm
 A/C
 B/C

TPH-G/Benzene groundwater concentrations in ppb
 (A/B)

Sandpack interval
 ND

Not Detected
 ND

Pavement section
 Soil sample interval
 Groundwater level measured on July 17, 1992
 First encountered groundwater
 Well screen interval
 20.0' Total depth of boring

LEGEND

Sands and Gravels (SW, SP, SM, SC, GW)
 Silts (ML)
 Clays (CL)
 Fill

NOTES

1. General stratigraphic relationships are displayed. Additional horizontal and vertical variations may exist.

SCALE
 Horizontal 1" = 30'
 Vertical 1" = 10'

CROSS SECTION B-B'
 ARCO Service Station #2169
 889 West Grand Avenue
 Oakland, California

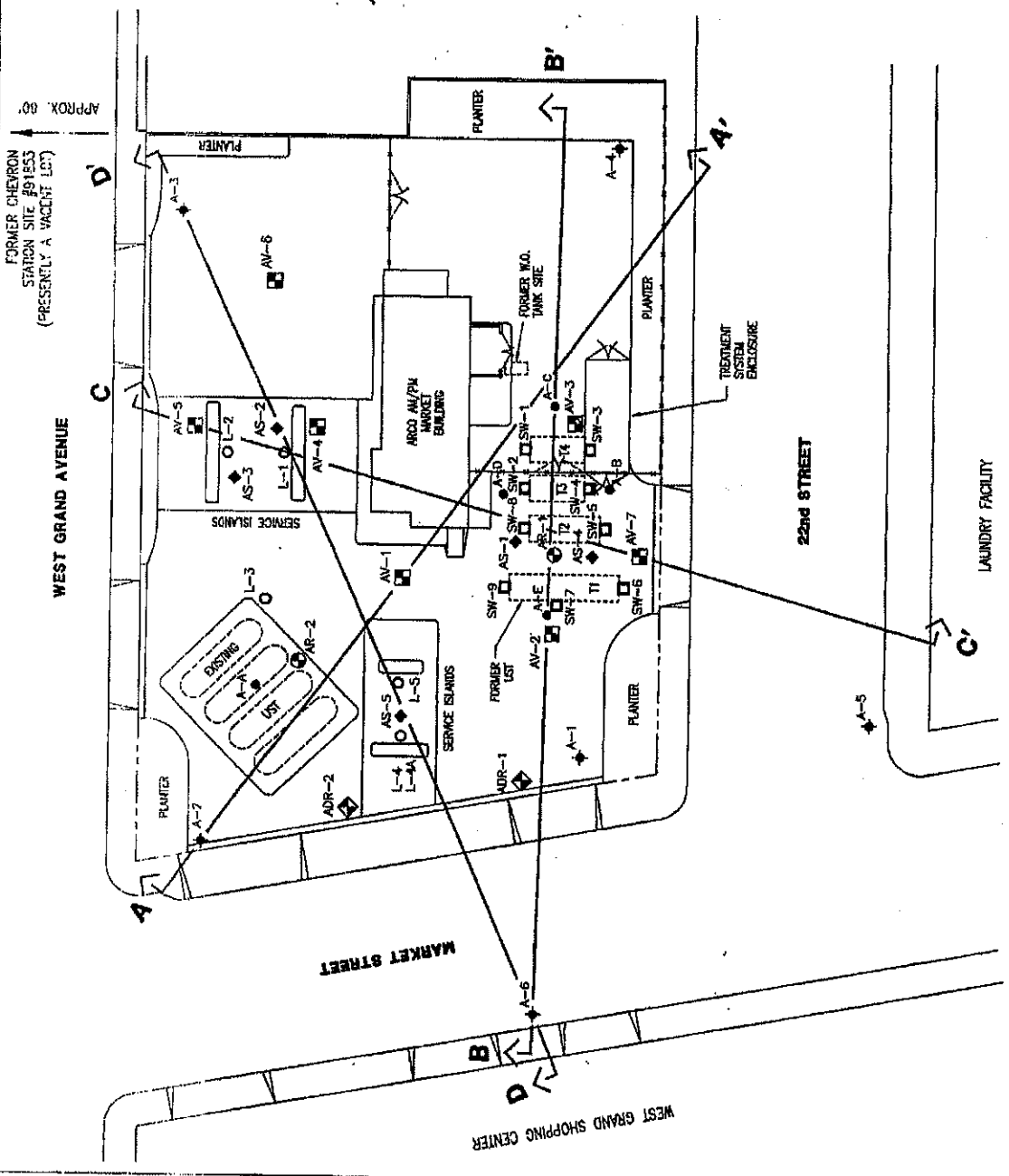
GeoStrategies Inc.



JOB NUMBER 792705-4
 REVIEWED BY LCM
 DATE 8/92
 REVISED DATE

EXPLANATION

- ◆ Groundwater monitoring well
- ⊕ Groundwater recovery well
- ⊖ Vapor extraction well
- ⊙ Groundwater recovery/vapor extraction well
- ⊠ Air sparging well
- Soil boring
- × Abandoned well
- Tank pit sample
- Product line trench sample
- ↔ Cross section



SITE PLAN
 ARCO Service Station #2169
 889 West Grand Avenue
 Oakland, California

Geostategies Inc.



Base Map: ARCO Tank & Line Replacement Site Plan dated 4-22-91 and Well Observations performed on 2-2-92.

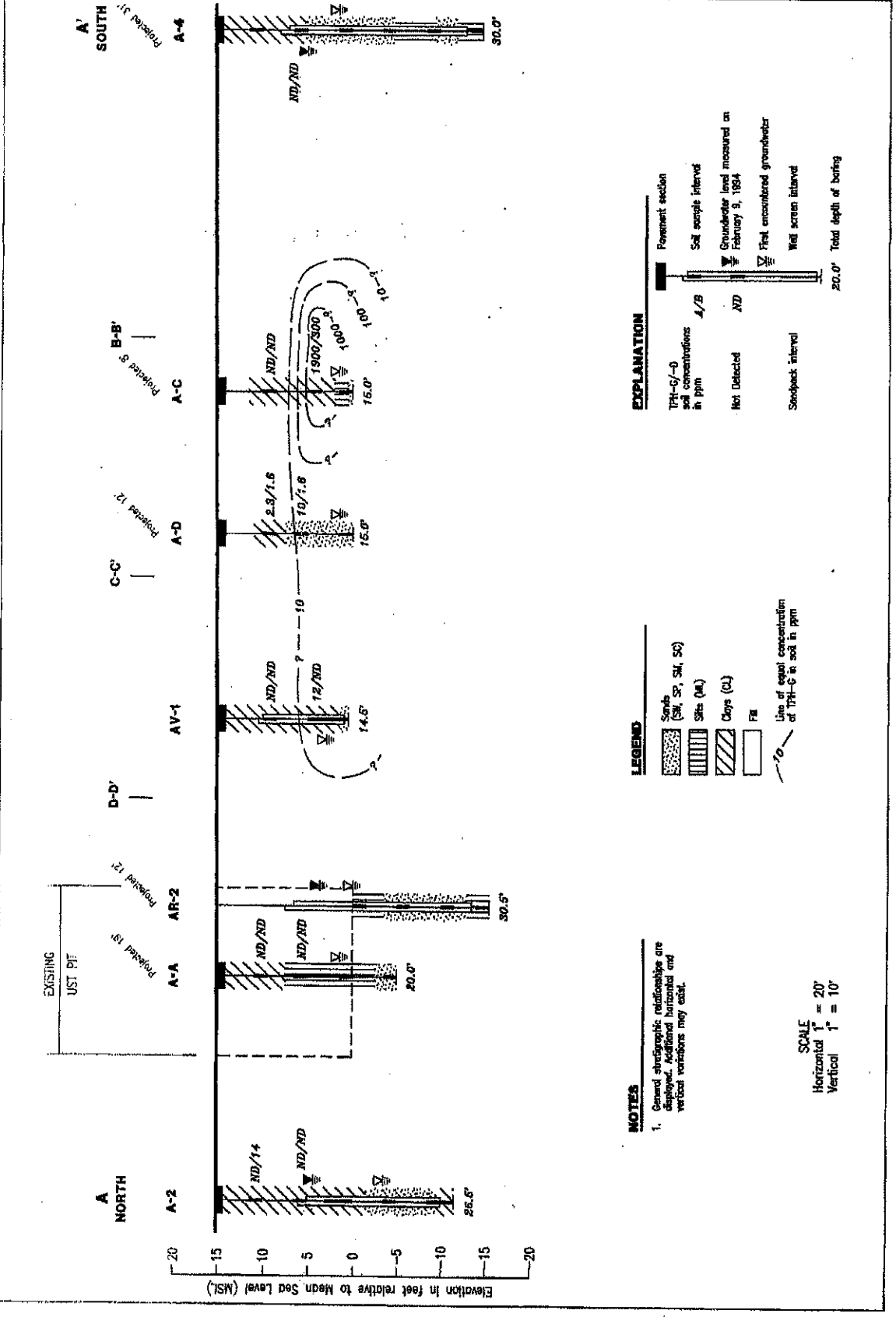


JOB NUMBER 782717-15

REVISION BY

DATE 2/94

REvised DATE 3/94



NOTES
 1. General relationships are displayed. Additional horizontal and vertical variations may exist.

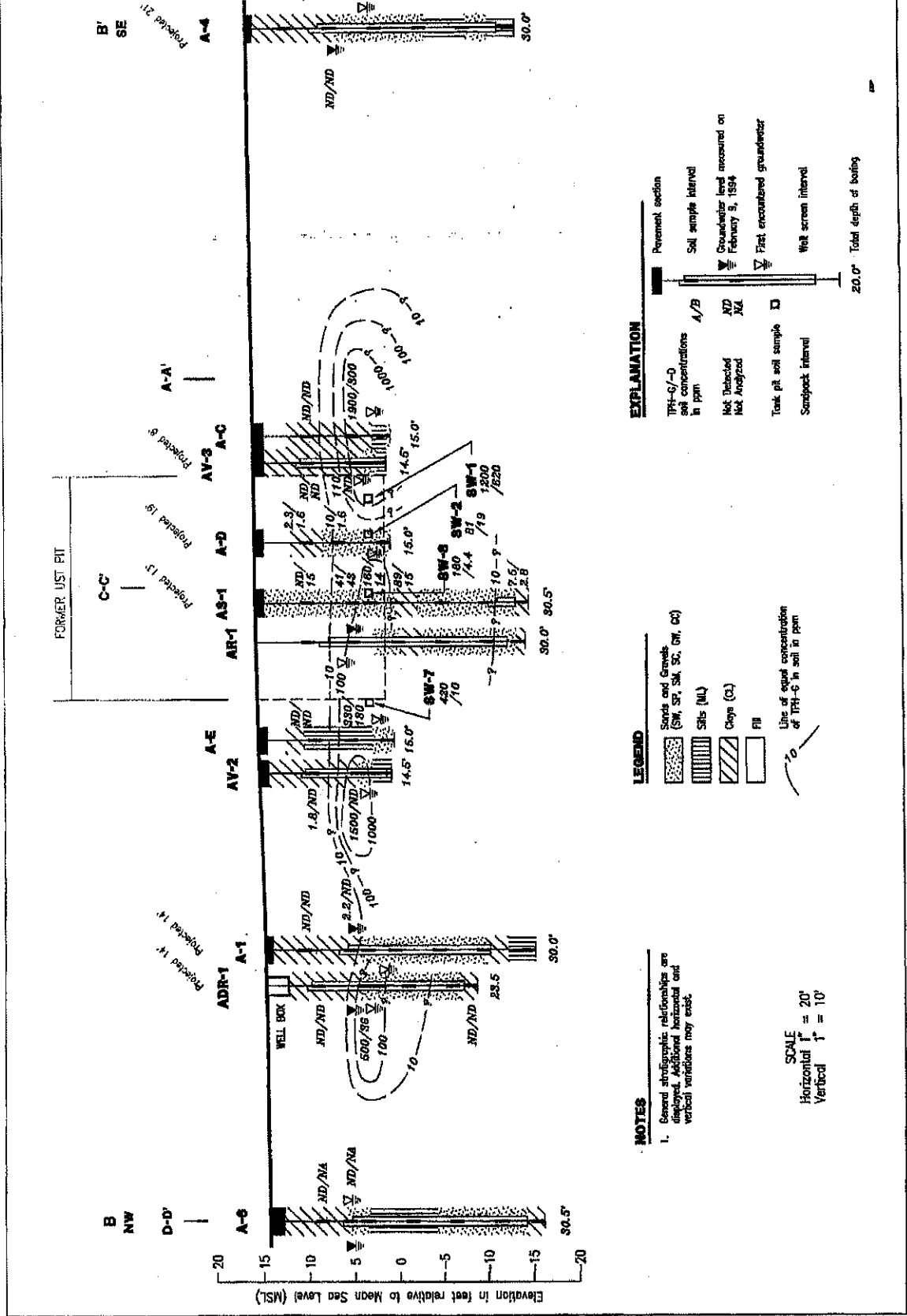
SCALE
 Horizontal 1" = 20'
 Vertical 1" = 10'

LEGEND

- Sands (SW, SP, SM, SC)
- Silts (ML)
- Clays (CL)
- FR
- Line of equal concentration of TPH-G in soil in ppm

EXPLANATION

- TPH-G/0 soil concentrations in ppm
- Not Detected
- Sandpack interval
- Pavement section
- Soil sample intervals
- Groundwater level measured on February 5, 1994
- First encountered groundwater
- Well screen interval
- Total depth of boring



NOTES

- General stratigraphic relationships are displayed. Additional horizontal and vertical variations may exist.

SCALE
 Horizontal 1" = 20'
 Vertical 1" = 10'

LEGEND

- Sands and Gravels (SW, SP, SM, SC, SN, CC)
- Silts (ML)
- Clays (CL)
- Fill
- Line of equal concentration of TPH-6 in soil in ppm

EXPLANATION

- TPH-6/D soil concentrations in ppm
- Not Detected
- Not Analyzed
- Tank pit soil sample
- Soil sample interval
- Groundwater level measured on February 5, 1994
- First encountered groundwater
- Well screen interval
- Total depth of boring

CROSS SECTION C-C
 ARCO Service Station #2189
 889 West Grand Avenue
 Oakland, California

DATE
 2/94

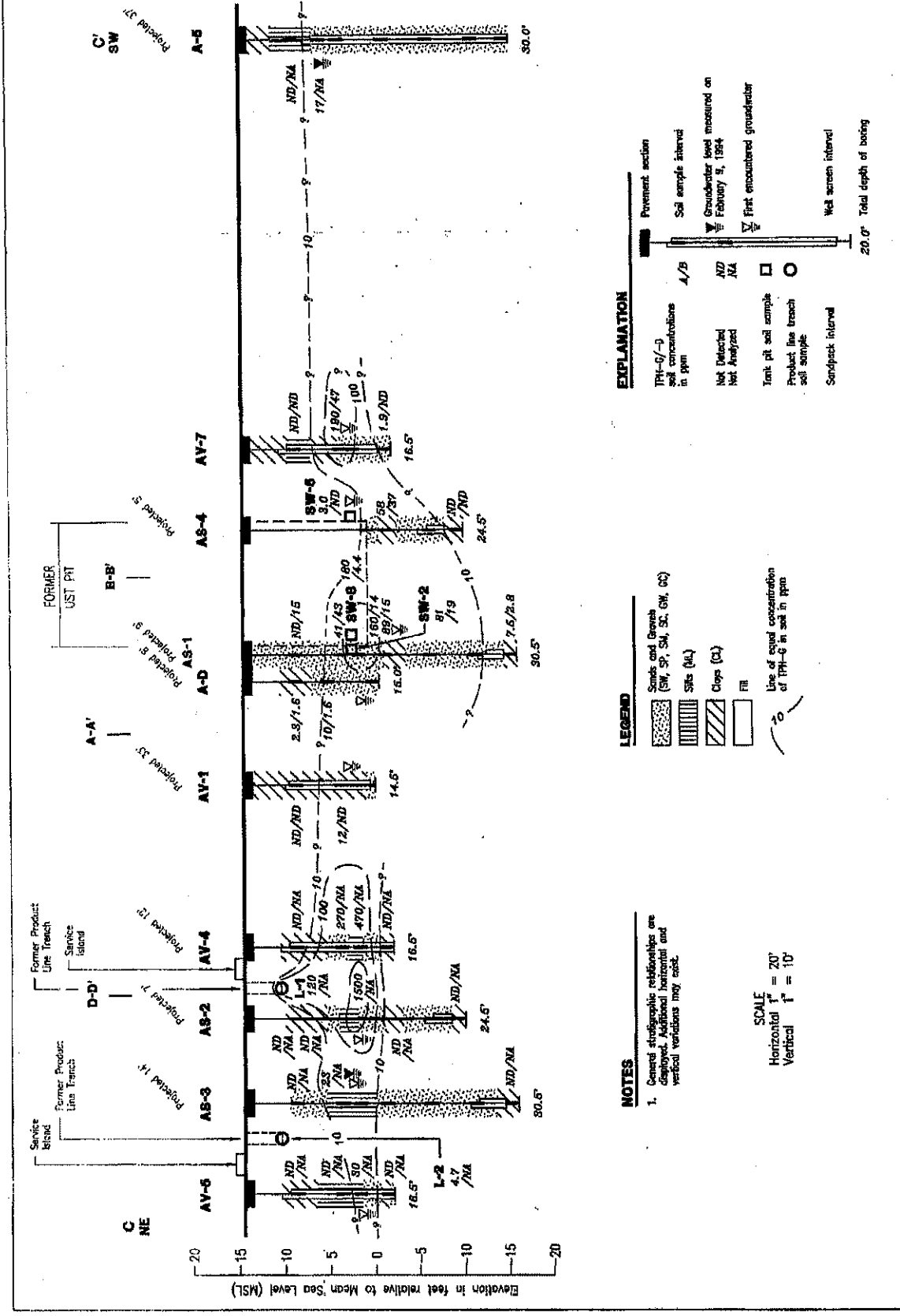
REVISED DATE
 3/94

GeoStrategies Inc.



JOB NUMBER
 792717-15

REVISIONS
 1



EXPLANATION

- TH-6/-9
Soil concentrations in ppm
- Not Detected
- Not Analyzed
- Trunk pit soil sample
- Product line trench soil sample
- Sandpack interval
- Prevent section
- Soil sample interval
- Groundwater level measured on February 9, 1994
- First encountered groundwater
- Well screen interval
- 20.0' Total depth of boring

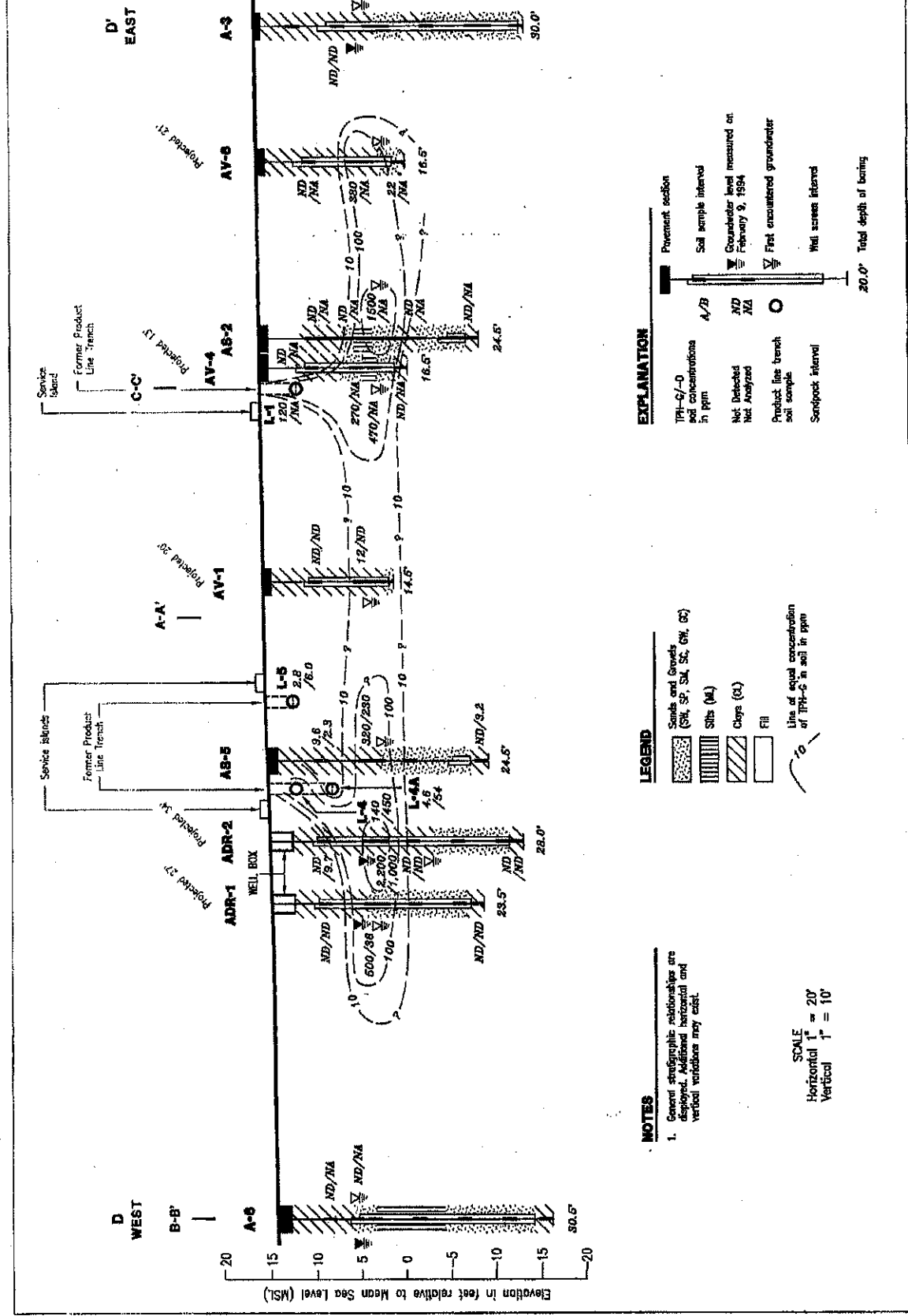
LEGEND

- Sands and Gravel (SW, SP, SM, SC, OH, OC)
- Silt (NL)
- Clay (CL)
- FR
- Line of equal concentration of TH-6 in soil in ppm

NOTES

- General stratigraphic relationships are displayed. Additional horizontal and vertical variations may exist.

SCALE
 Horizontal 1" = 20'
 Vertical 1" = 10'



CROSS SECTION D-D'
 ARCO Service Station #2189
 889 West Grand Avenue
 Oakland, California

DATE 2/94
 REVISION DATE 3/94

JOB NUMBER 792717-15
 REVISION BY

GeoStrategies Inc. **GS**

EXPLANATION

- TPH-6/-0
Pet concentrations
in ppm
- Not Detected
Not Analyzed
- Product line trench
soil sample
- Sandpack interval
- Pavement section
- Soil sample interval
- Groundwater level measured on
February 9, 1994
- First encountered groundwater
- Well screen interval
- 20.0' Total depth of boring

LEGEND

- Sands and Gravels
(SM, SP, SW, SC, GW, GC)
- Silt (M)
- Clays (CL)
- Fill
- Line of equal concentration
of TPH-6 in soil in ppm

NOTES

1. General stratigraphic relationships are displayed. Additional horizontal and vertical variations may exist.

SCALE
 Horizontal 1" = 20'
 Vertical 1" = 10'

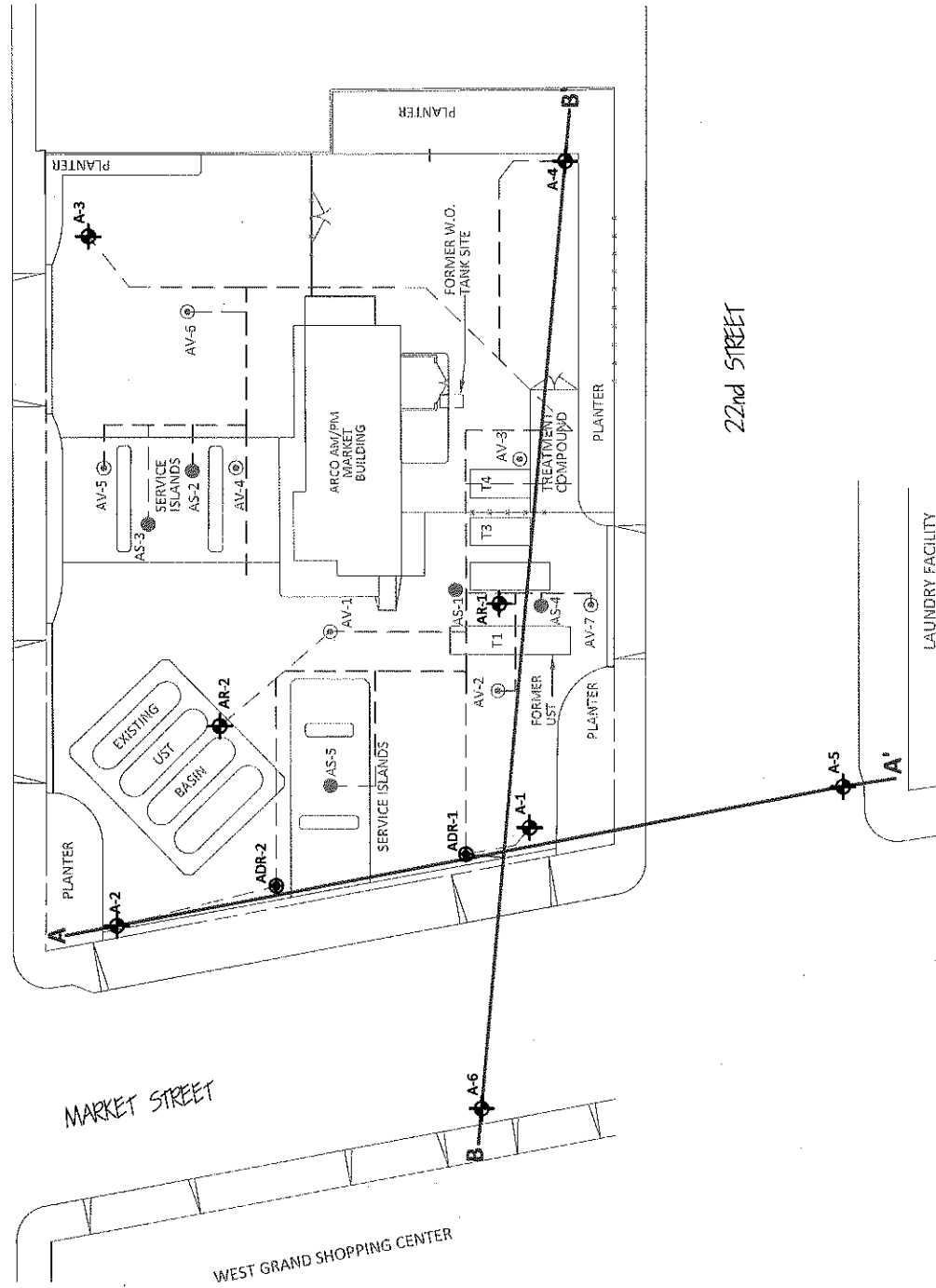
WEST GRAND AVENUE

MARKET STREET

WEST GRAND SHOPPING CENTER

22nd STREET

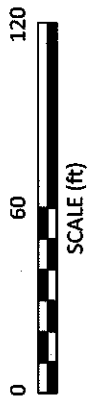
LAUNDRY FACILITY



LEGEND

- Monitoring Well Location
- Vapor Extraction Well Location
- Groundwater Monitoring/Vapor Extraction Well Location
- Air Sparge Well Location
- Remediation Piping
- Cross Section Locations

NOTE: SITE MAP ADAPTED FROM ITC CORPORATION FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



BROADBENT
 1370 Ridgewood Dr., Suite 5
 Chico, California 95973
 Project No.: 06-88-621 Date: 3/6/2014

ARCO Service Station #2169
 889 West Grand Avenue
 Oakland, California

Cross Section Locations
 Map

Drawing

C-1

