

Atlantic Richfield Company

Shannon Couch
Operations Project Manager

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RECEIVED

By Alameda County Environmental Health at 9:44 am, Feb 04, 2013

January 31, 2013

Re: Conceptual Site Model and Case Closure Request
Atlantic Richfield Company Service Station #601
712 Lewelling Boulevard, San Leandro, California
ACEH Case #RO0000309

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

Submitted by,



Shannon Couch
Operations Project Manager

Attachment



A BP affiliated company

CONCEPTUAL SITE MODEL AND CASE CLOSURE REQUEST

Atlantic Richfield Company Station No.601
712 Lewelling Boulevard
San Leandro, California

Prepared for

Ms. Shannon Couch
Operations Project Manager
Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583

Prepared by



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Vacaville, California 95688
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January 31, 2013

Project No. 06-88-605



BROADBENT

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broadbentinc.com

CREATING SOLUTIONS. BUILDING TRUST.

January 31, 2013

Project No. 06-88-605

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

Attn.: Ms. Shannon Couch

Re: Conceptual Site Model and Case Closure Request, Atlantic Richfield Company Station No.601,
712 Lewelling Boulevard, San Leandro, California; ACEH Case No. RO0000309

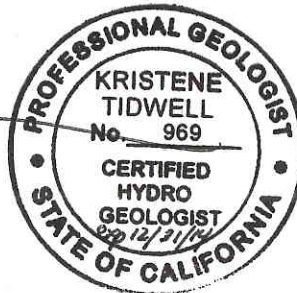
Dear Ms. Couch:

Broadbent & Associates, Inc. (Broadbent) is pleased to submit this *Conceptual Site Model and Case Closure Request* for Atlantic Richfield Company Station No.601 located at 712 Lewelling Boulevard, San Leandro, California (Site). This document was prepared in order to evaluate this site for case closure under the recently-approved *Low Threat Underground Storage Tank Case Closure Policy* (Low Threat UST Closure Policy; CSWRCB, 2012). After completion of the CSM and comparing the current Site conditions to the Low Threat UST Closure Policy, case closure is recommended.

Should you have questions or require additional information, please do not hesitate to contact us at (707) 455-7290.

Sincerely,
BROADBENT & ASSOCIATES, INC.

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



Enclosures

cc: Ms. Dilan Roe, Alameda County Environmental Health (Submitted via ACEH ftp site)
Electronic copy uploaded to GeoTracker

CONCEPTUAL SITE MODEL AND CASE CLOSURE REQUEST

Atlantic Richfield Company Station No. 601
712 Lewelling Boulevard San Leandro, California
Fuel Leak Case No. R00000309

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CONCEPTUAL SITE MODEL AND CASE CLOSURE REQUEST

Atlantic Richfield Company Station No. 601
712 Lewelling Boulevard San Leandro, California
Fuel Leak Case No. RO0000309

1.0 INTRODUCTION

On behalf of the Atlantic Richfield Company– (ARC, a BP affiliated company) Broadbent & Associates, Inc. (Broadbent) has prepared this *Conceptual Site Model and Case Closure Request (CSM and CCR)* for the Atlantic Richfield Company (ARCO) Station No.601 (herein referred to as Station No.601), located at 712 Lewelling Boulevard, San Leandro, California (Site). This CSM and CCR was prepared in order to evaluate the Site’s eligibility to be closed under the recently approved California State Water Resources Control Board’s (CSWRCB) *Low Threat Underground Storage Tank Case Closure Policy* (Low Threat UST Closure Policy; CSWRCB, 2012). This CSM and CCR includes discussions on the Site background and previous environmental activities, regional and Site geology and hydrogeology, and justification for Case Closure.

1.1 Site Setting

The Site is located at 712 Lewelling Boulevard in San Leandro, California. It is an active ARCO-brand gasoline station (Station No. 601) with convenience store. Current structures on the Site include four 10,000-gallon underground storage tanks (USTs), two fuel dispenser islands with a total of eight dispensers, and a convenience store building with two unused vehicle service bays. The majority of the Site is paved with asphalt and concrete. The location of the Site is shown in Drawing 1. A Site Plan depicting current well locations is provided as Drawing 2.

The Site is bound by the four-to six lane Lewelling Boulevard to the northwest, the four to six-lane Washington Avenue to the east, multi-family residential dwellings of the Chateau Manor Apartments adjacent to the southwest, and a commercial building (Dentist’s Office) and parking lot adjacent to the southeast. Across Washington Avenue to the east is a large parking lot and Walgreens store. Across Lewelling Boulevard to the northwest are a Speedy Smog smog check station at the corner of Washington Avenue, Salel’s Mobile Home Park, and the parking lot and playground for Lewelling School further southwest. The Smog Check Station at 15275 Washington Avenue is the former Shell Gasoline Service Station #129460, an active release site (ACEH Case # RO0000372 / GeoTracker Global ID T0600101226).

1.2 Site Background

The Site has operated as a gasoline fueling station since the environmental case was open in 1989. The site is likely to remain a service station for the foreseeable future. A detailed Site history is included in Appendix A.

1.3 Document Purpose and Organization

The purpose of this document is to summarize and present current Site conditions in the form of a CSM and evaluate these conditions and data gathered for site closure based on the Low Threat UST Closure Policy. The following section presents justification for Closure based on the CSM. The CSM is presented as Table 1. Tables 2 and 3 present historical and current groundwater analytical data. Table 4 summarizes historical and current groundwater gradient. Table 5 presents historical bioparamter data from monitoring wells.

In order to evaluate Site condition against the Low Threat UST Closure Policy, each category in the policy has been individually evaluated using the data presented in the CSM presented in Table 1. These evaluations are presented in the following section.

2.0 JUSTIFICATION FOR SITE CLOSURE

As indicated in Section 1.3 above, the Site was evaluated for Closure based on comparing data presented in the CSM (Table 1) against the Low Threat UST Closure Policy. Closure Criteria in the Low Threat UST Closure Policy are organized into the following categories:

- General Criteria
- Media Specific Criteria-Groundwater
- Media Specific Criteria – Petroleum Vapor Intrusion to Indoor Air
- Media Specific Criteria – Direct Contact and Outdoor Air Exposure
- Additional Criteria

The following sections present the details of the evaluation.

2.1 General Criteria

The general criteria relate to the Site use, presence of free product, sources, and completeness of the Site understanding. As evidenced in the data presented in the CSM, a sufficiently good understanding of Site conditions, on- and offsite receptors, and Site history has been established. These general criteria and a discussion how the Site is consistent with these criteria are presented below.

The unauthorized release is located within the service area of a public water system

The Site is located within the East Bay Municipal Utilities District Service Area.

The unauthorized release consists only of petroleum

The release at the Site occurred in the area of the former UST farm and near the former waste oil tank. Additionally, all analytical data collected to date has shown no indication of any other contaminant releases other than petroleum (Tables 1 and 2). The Site has been a retail service station since 1989 and it there is no evidence that any other activities have occurred at the Site which may have caused non-petroleum releases.

The unauthorized release has been stopped

The USTs and waste oil tank where the releases occurred have been removed, thereby removing the leak sources (Table 1).

Free product has been removed to the extent possible

No free product has been measured in Site wells since 2008. Since free product was initially measured 1990, 3.45 gallons of free product has been removed by bailing. Since no free product is currently present, it has been removed to the extent possible.

A conceptual site model (CSM) that assesses the nature, extent, and mobility of the release has been developed

A conceptual site model has been prepared for this site and is summarized in Table 1.

Secondary source has been removed to the extent practical

Soils around the former UST complex and former waste oil tank have been overexcavated.

Approximately 588 cubic yards of petroleum impacted soil was removed and disposed of offsite in 1990. Further soil excavation was reportedly not possible due to existing Site structures.

Soil and groundwater have been tested for MTBE and results reported in accordance with Health and Safety Code 25296.15

Soil and groundwater samples collected have been analyzed for benzene and methyl tert-butyl ether (MTBE). Historical MTBE analytical data are included in Table 2 and Appendix B.

Nuisance as defined by the Water Code section 13050 does not exist at this site

A nuisance as defined by the water code does not exist at this Site.

2.2 Media-Specific Criteria - Groundwater

The Low Threat UST Closure Policy lists four scenarios for groundwater plumes. According to the plume sizes indicated in Drawings 4 through 6, the plume size is slightly over 100 feet in length, and therefore does not apply to the first scenario. For this reason, the Site hydrocarbon plume falls into the second scenario. Current benzene and MTBE concentrations are well below the maximum levels for this scenario of 3,000 ug/L and 1,000 ug/L, respectively. The Site has not contained free product for several years. The nearest water supply well is over 2,000 feet away, as presented in the CSM table (Table 1). However, the San Lorenzo Creek is located 600 feet south of the Site. This surface water was not considered as a significant receptor because of the following:

- That portion of the creek is lined with concrete, which inhibits groundwater from entering into the creek, and
- The creek is largely seasonal, with very little to no flow present during the dry season, indicating most of the contribution to creek is the result of surface runoff during the wet season.

For these reasons, it was determined that San Lorenzo creek would not reasonably be threatened by the groundwater plume at the Site even though it is located within 1,000 feet of the Site. It is also worth noting that the plume length only slightly exceeds the 100 foot level for this Site to fall into the first category, where the nearest surface water body need only be 250 feet away. Additionally, maximum current benzene and MTBE concentrations are two orders of magnitude lower than the maximum allowable concentrations for the second scenario, and all wells at the Site show a strong decreasing trend (Appendix B) which indicates a shrinking plume. The combination of these factors indicates a very low threat to surface water from the petroleum plume at the Site.

2.3 Media Specific Criteria – Petroleum Vapor Intrusion to Indoor Air

The Site is an active service station, and therefore the Low Threat UST Closure Policy considers that petroleum vapors from onsite fueling activities are a far greater risk than those associated with exposure to vapors from historic petroleum releases. Therefore, this Site meets this criteria from closure according to the Low Threat UST Closure Policy.

Historically, offsite receptors for the vapor intrusion pathway have been evaluated. Soil vapor samples adjacent to the neighboring Chateau Manor Apartments were collected in 2009 and 2010. The results of

both of these investigations indicated that very little to no petroleum compounds were present in soil vapor near the apartments, and any concentrations were well below Tier 1 risk-based screening levels. Therefore, it was concluded that the vapor intrusion pathway was not complete.

2.4 Media Specific Criteria – Direct Contact and Outdoor Air Exposure

For the direct contact and outdoor air exposure, only relatively current soil data was considered. As is noted in Drawing 8, there are two locations (borings B-10 and B-24) where the benzene concentrations historically exceeded the maximum concentrations listed in Table 1 of the Low Threat UST Closure Policy. However, three replacement monitoring wells were installed in 2009, and soil samples from this investigation (Appendix B) did not contain petroleum compounds in excess of the levels listed in the Low Threat UST Closure Policy. In addition, four soil borings were advanced at the Site in 2011, and soil samples were collected from locations near former source areas (Drawing 9). Soil samples were collected from three intervals above 10 ft bgs. At all locations, no benzene or MTBE were detected above reporting limits. Since these borings are more representative of current Site conditions, benzene and MTBE concentrations do not exceed the concentrations levels in Table 1 of the Low Threat Policy. Naphthalene has historically been analyzed (Appendix C). Concentrations detected were also lesser than that allowed by the Low Threat UST Closure Policy.

2.5 Recommendation for Case Closure

As presented above and in the attached CSM table (Table 1), this Site appears to meet all applicable criteria for case closure under the Low Threat Closure Policy. Over 20 years of groundwater monitoring history has shown that petroleum hydrocarbons exhibit a strong decreasing trend at the Site, and the plume is shrinking in size. Although the San Lorenzo Creek is located 600 feet south of the Site, this portion of the creek is concrete lined and appears to be largely seasonal. These observations regarding the nearby creek and the extensive Site data collected to date indicate a minimal possibility of the creek being a sensitive receptor. Adequate Site characterization both on- and offsite, evaluation of receptors, historical descriptions, and technical analysis have been performed at the Site and in this document to support a recommendation for case closure. We hereby recommend that a determination of No Further Action be made for this Site. Upon concurrence of this recommendation from the ACEH, closure activities including well decommissioning should be carried out.

3.0 REFERENCES

GeoStrategies, Inc., 29 June 1990. Tank Replacement Report, ARCO Service Station #601, 712 Lewelling Boulevard, San Leandro, California.

RESNA, 3 February 1993, Limited Offsite Subsurface Investigation at ARCO Station 601, 712 Lewelling Boulevard, San Leandro, California.

State Water Resources Control Board, 2012. Low-Threat Underground Storage Tank Case Closure Policy, August 17.

URS, 9 October 2003. Dispenser and Product Line Removal and Upgrade Soil Sampling Report, ARCO Service Station #0601, 712 Lewelling Boulevard, San Leandro, California.

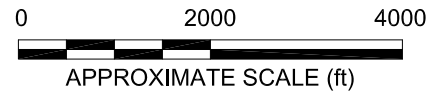
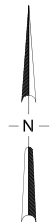
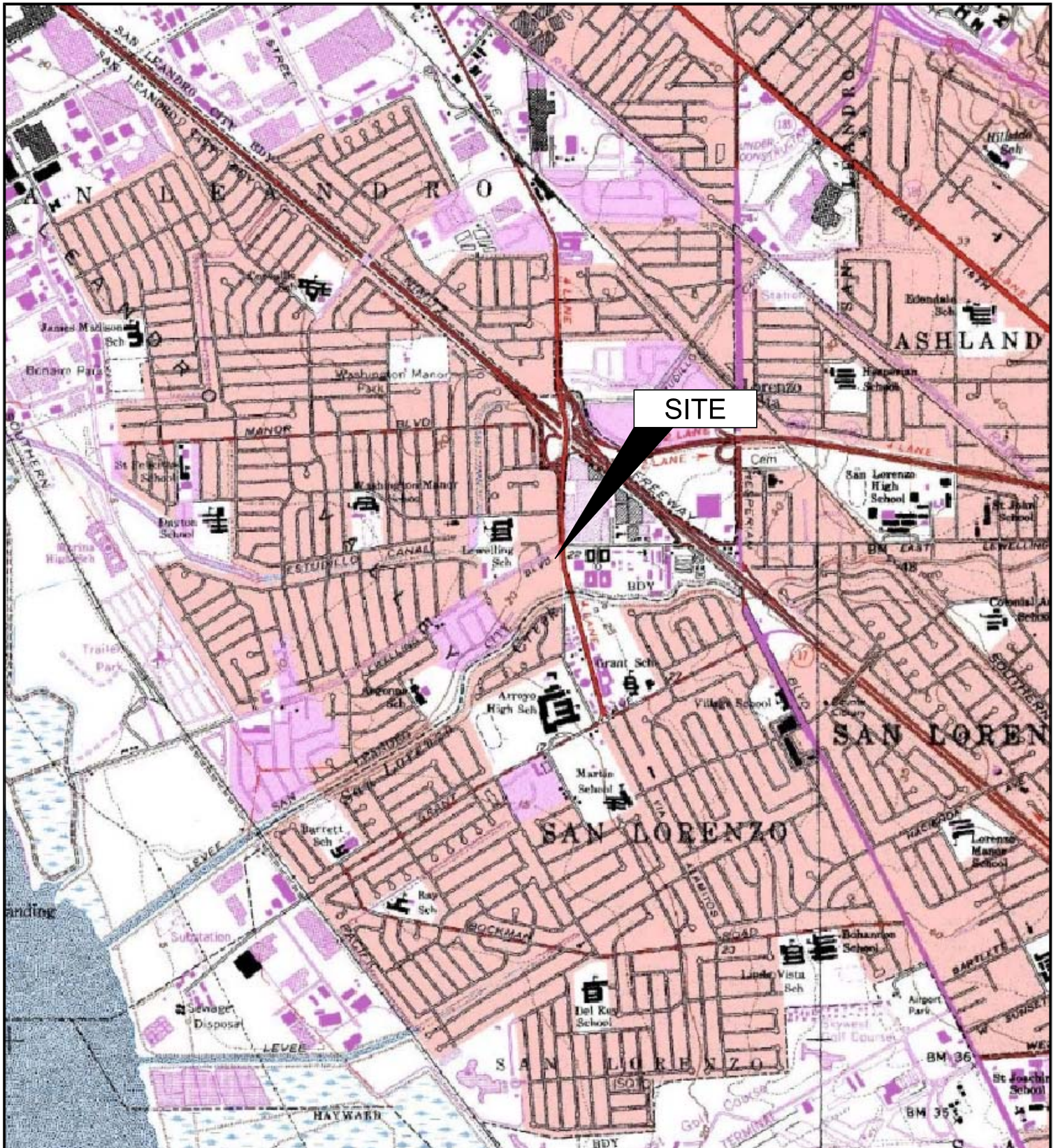
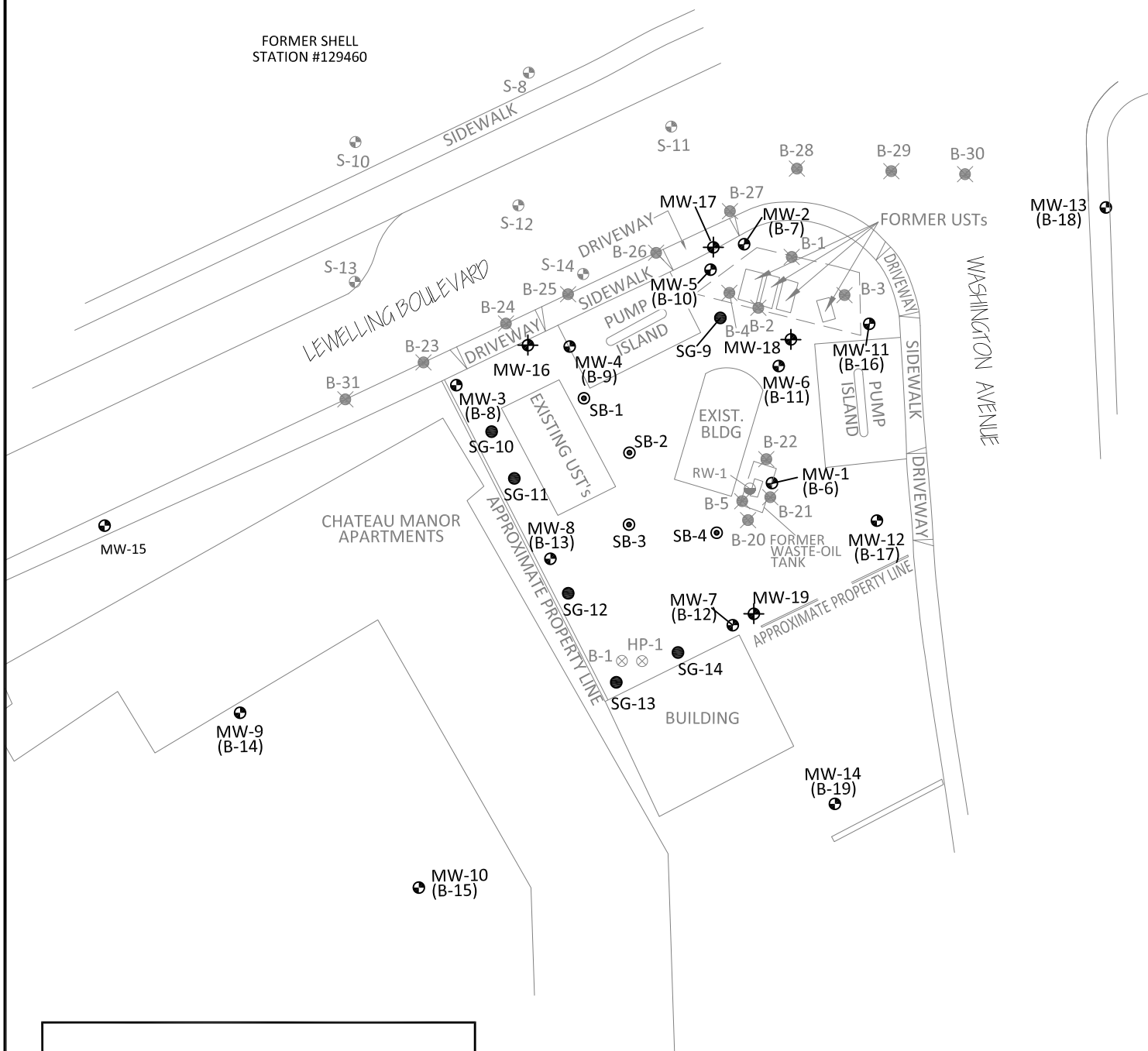


IMAGE SOURCE: USGS

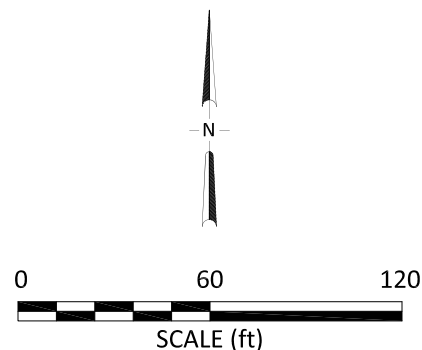
FORMER SHELL
STATION #129460



LEGEND

- ⊕ Soil Boring/Monitor Well Location
- Soil-Gas Boring/Temporary Vapor Implant Location
- ⊕ Groundwater Monitor Well Location
- ⊖ Soil Vapor Extraction Well Location
- ⊗ 2008 Deep Soil Boring/Hydropunch Sample Location
- ⊙ Grab-Groundwater Sample Location
- ✱ Historic Soil Boring Location (Approximate Locations)

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



Project No.: 06-88-605 Date: 12/14/2012

Station #601
712 Levee Boulevard
San Leandro, California

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

Drawing

2

FORMER SHELL
STATION #129460

S-8
NS

S-10
NS

MW-16
16.14*
2,900
30
<2.0
SA(1,3)

S-12
NG

MW-4
16.62*
GO

S-11
NG

MW-5
16.39
GO

MW-17
16.40
1,600
83
<1.0
SA(1,3)

MW-2
16.43
<50
<0.50
<0.50
A(3)

MW-13
16.78
GO

MW-11
16.58
GO

MW-3
16.59*
9,500
19
<5.0
SA(1,3)

S-10
NS

MW-1
16.37
6,500
38
<1.0
SA(1,3)

MW-6
16.41*
GO

MW-18
16.46
150
<0.50
1.8
SA(1,3)

MW-12
16.42
GO

MW-15
15.65
<50
<0.50
0.59
A(3)

MW-8
16.15
<50
<0.50
1.4
A(3)

CHATEAU MANOR
APARTMENTS

MW-9
15.57
<50
<0.50
3.6
A(3)

MW-10
15.28
<50
<0.50
1.4
SA(1,3)

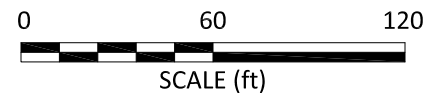
MW-7
16.69*
GO

MW-19
16.22
<50
<0.50
<0.50
A(3)

MW-14
16.06
<50
<0.50
<0.50
A(3)

LEGEND

- Monitor Well Location
 - Soil-Gas Boring/Temporary Vapor Implant Location
 - Soil Vapor Extraction Well Location
 - ⊗ Hydropunch Location
 - ⊙ Grab-Groundwater Sample Location
 - Groundwater Elevation Contour (Feet Above Site Datum)
 - Groundwater Flow Direction and Magnitude (ft/ft)
 - * Elevation Not Used in Contouring
- | WELL | Well Designation |
|------|----------------------------|
| ELEV | Groundwater Elevation (ft) |
| GRO | GRO, Benzene, and MTBE |
| BZ | Concentrations (µg/L) |
| MTBE | |
| A/SA | Sampling Frequency |
- A(1) Sampled Annually, 1st Quarter
 - A(3) Sampled Annually, 3rd Quarter
 - SA(1,3) Sampled Semi-Annually, 1st and 3rd Quarter
 - GO/NG Gauge Only/Not Gauged
 - NM/NS Not Monitored/Not Sampled



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



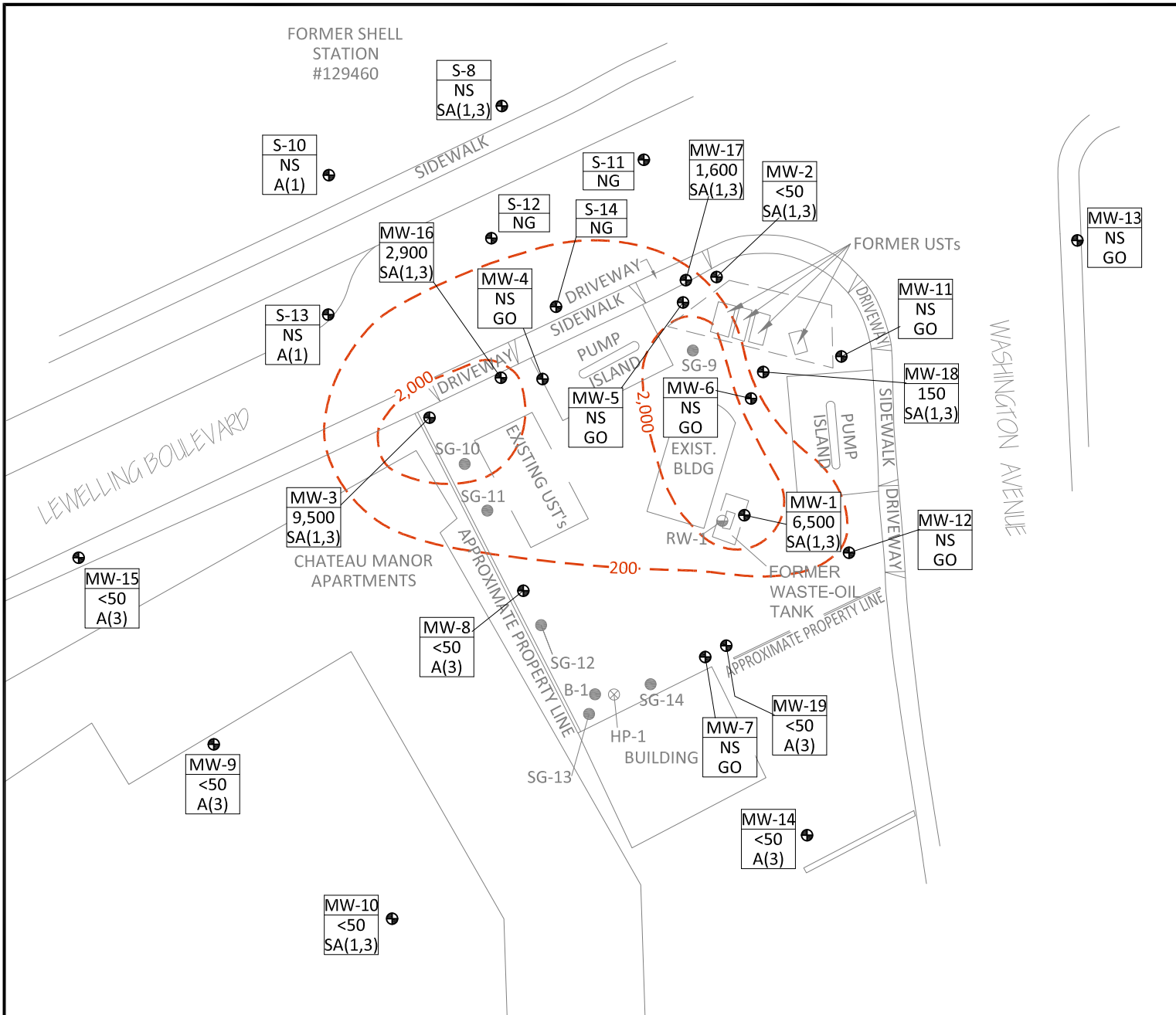
Project No.: 06-88-605 Date: 12/14/2012

Station #601
712 Lewelling Boulevard
San Leandro, California

Groundwater Elevation Contours and
Analytical Summary Map
July 24, 2012

Drawing

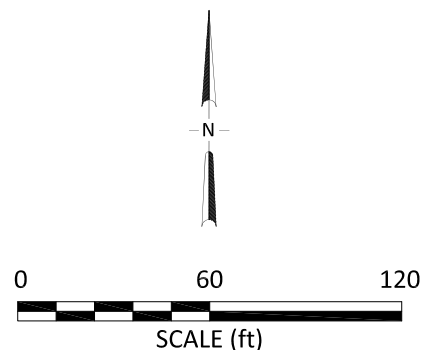
3



LEGEND

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

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



Project No.: 06-88-605 Date: 12/14/2012

Station #601
712 Lewelling Boulevard
San Leandro, California

GRO Isoconcentration Contour Map
July 24, 2012

Drawing

4

FORMER SHELL
STATION
#129460

S-8
NS
SA(1,3)

S-10
NS
A(1)

S-12
NG

S-11
NG

MW-17
<1.0
SA(1,3)

MW-2
<0.50
SA(1,3)

MW-13
NS
GO

FORMER UST's

MW-11
NS
GO

MW-18
1.8
SA(1,3)

MW-6
NS
GO

MW-1
<1.0
SA(1,3)

MW-12
NS
GO

LEWELLING BOULEVARD

CHATEAU MANOR
APARTMENTS

MW-15
0.59
A(3)

MW-9
3.6
A(3)

MW-10
1.4
SA(1,3)

MW-8
1.4
A(3)

MW-19
<0.50
A(3)

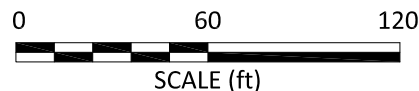
MW-7
NS
GO

MW-14
<0.50
A(3)

LEGEND

- ⊕ Monitor Well Location
- Soil-Gas Boring/Temporary Vapor Implant Location
- ⊙ Soil Vapor Extraction Well Location
- ⊗ Hydropunch Location
- ⊙ Grab-Groundwater Sample Location
- MTBE Isoconcentration (μg/L)

WELLID	Well Designation
MTBE	MTBE Concentration (μg/L)
A/SA	Sampling Frequency
A(1)	Sampled Annually, 1st Quarter
A(3)	Sampled Annually, 3rd Quarter
SA(1,3)	Sampled Semi-Annually, 1st and 3rd Quarter
GO/NG	Gauge Only/Not Gauged
NS	Not Sampled



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



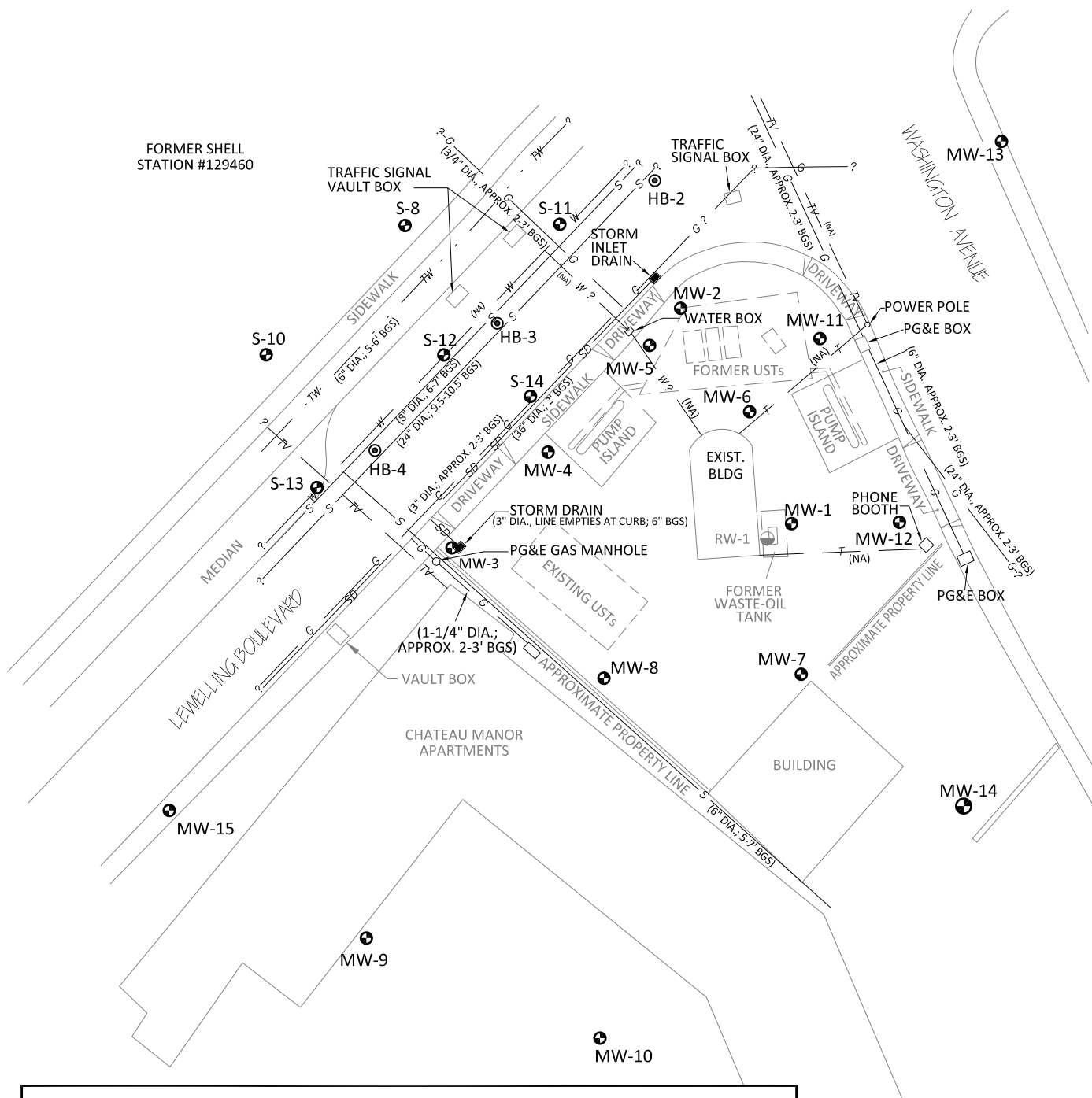
Project No.: 06-88-605 Date: 12/14/2012

Station #601
712 Lewelling Boulevard
San Leandro, California

MTBE Isoconcentration Contour Map
July 24, 2012

Drawing

6

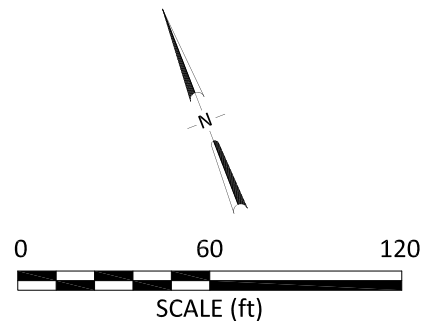


LEGEND

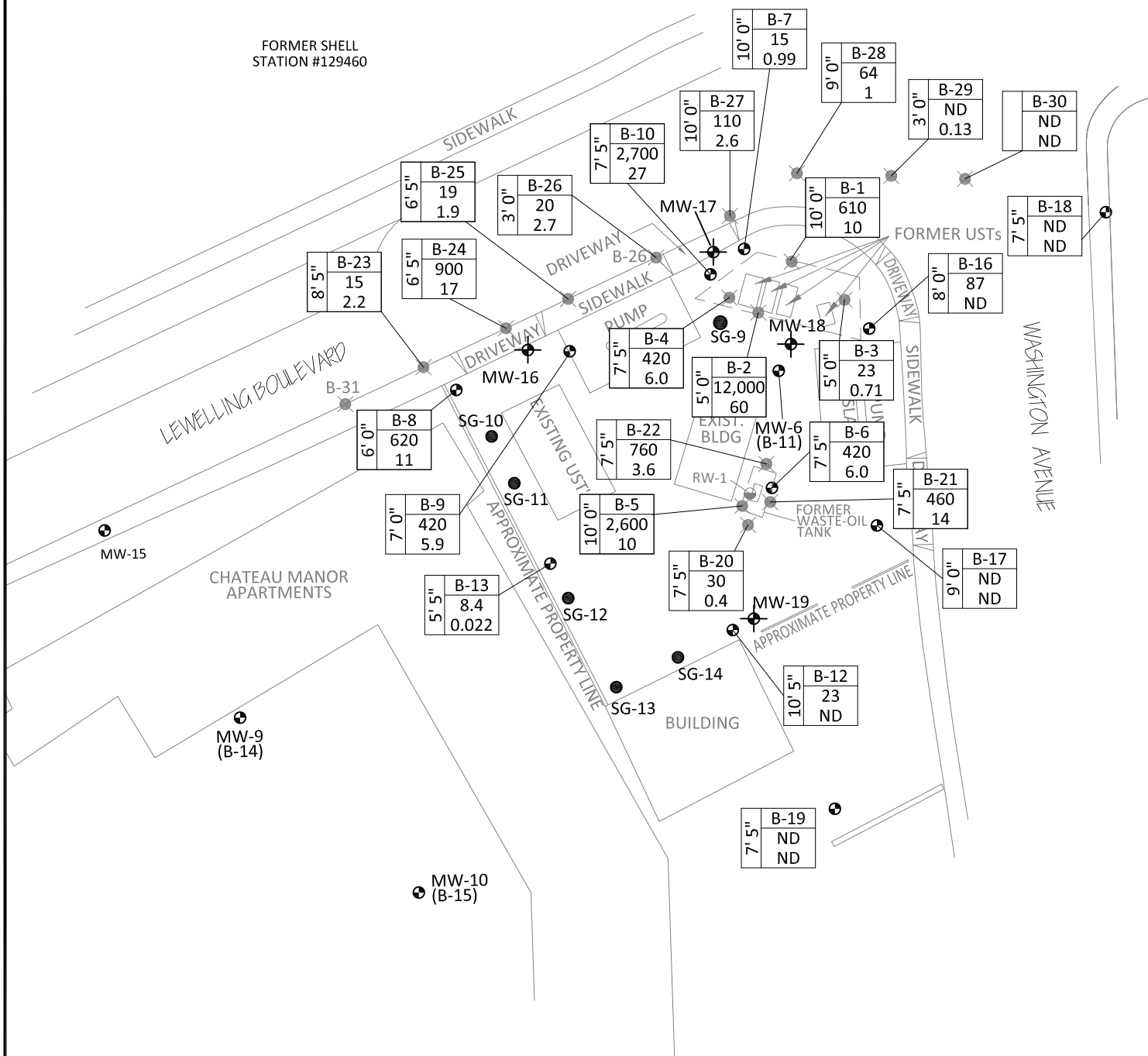
- | | | | |
|--------|--|--------|---------------------------|
| ⊕ | Monitor Well Location | (NA) | Information not available |
| ⊙ | Soil Vapor Extraction Well Location | — T — | Telephone |
| ⊗ | 2002 Sewer Trench Water Sample Locations | — TW — | Treated Wastewater |
| — G — | Gas | — W — | Water |
| — S — | Sanitary Sewer | — TV — | Television |
| — SD — | Storm Drain | | |

(36" DIA., 2' BGS) Diameter and Depth of Utility (Top of Pipe)

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



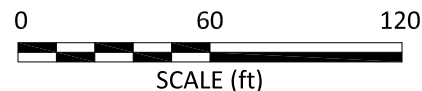
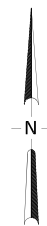
FORMER SHELL
STATION #129460



LEGEND

- Soil Boring/Monitoring Well
- Soil-Gas Boring/Temporary Vapor Implant Location
- Groundwater Monitor Well Location
- Soil Vapor Extraction Well Location
- ✱ Historic Soil Boring Location (Approximate Locations)

7' 0"	B-9	Well Designation
420		GRO (mg/kg)
5.9		Benzene (mg/Kg)
		Depth (ft.)



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



Project No.: 06-88-605 Date: 1/9/2013

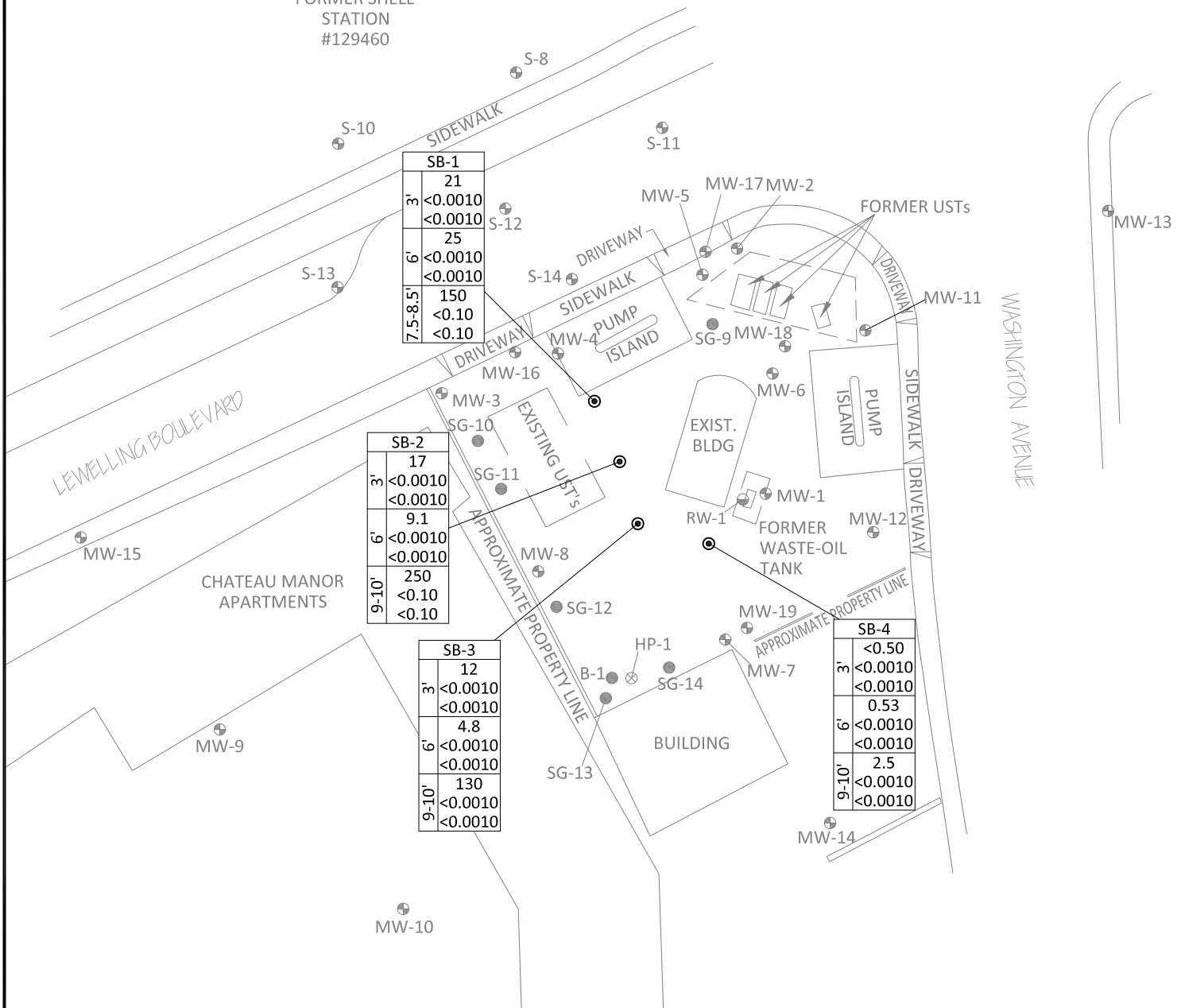
Station #601
712 Lewelling Boulevard
San Leandro, California

Historic Maximum
Petroleum Compounds in
Soil - 0 to 10.5 Feet bgs

Drawing

8

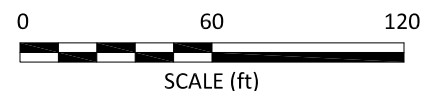
FORMER SHELL
STATION
#129460



LEGEND

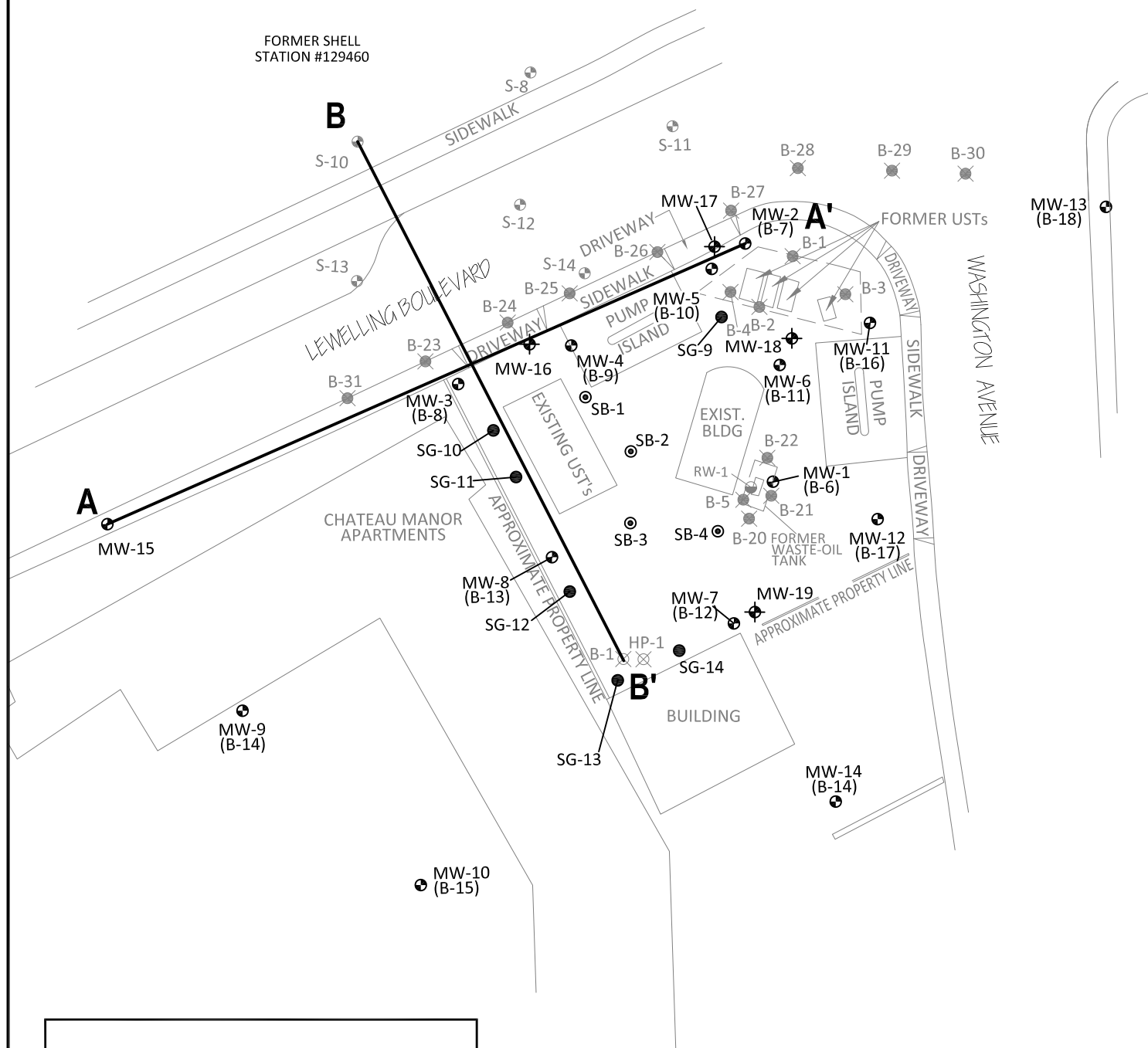
- Monitor Well Location
- Soil-Gas Boring/Temporary Vapor Implant Location
- Soil Vapor Extraction Well Location
- ⊗ Hydropunch Location
- ⊙ Soil Boring Location

BORING		Boring Designation
DEPTH'	GRO	
	BZ	
	MTBE	GRO, Benzene, and MTBE Concentrations (mg/Kg)



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

FORMER SHELL
STATION #129460



LEGEND

- ⊕ Soil Boring/Monitor Well Location
- Soil-Gas Boring/Temporary Vapor Implant Location
- ⊗ Groundwater Monitor Well Location
- ⊖ Soil Vapor Extraction Well Location
- ⊗ 2008 Deep Soil Boring/Hydropunch Sample Location
- ⊙ Grab-Groundwater Sample Location
- ✕ Historic Soil Boring Location (Approximate Locations)

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



875 Cotting Lane, Suite G
Vacaville, California 95688

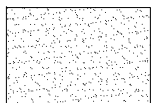
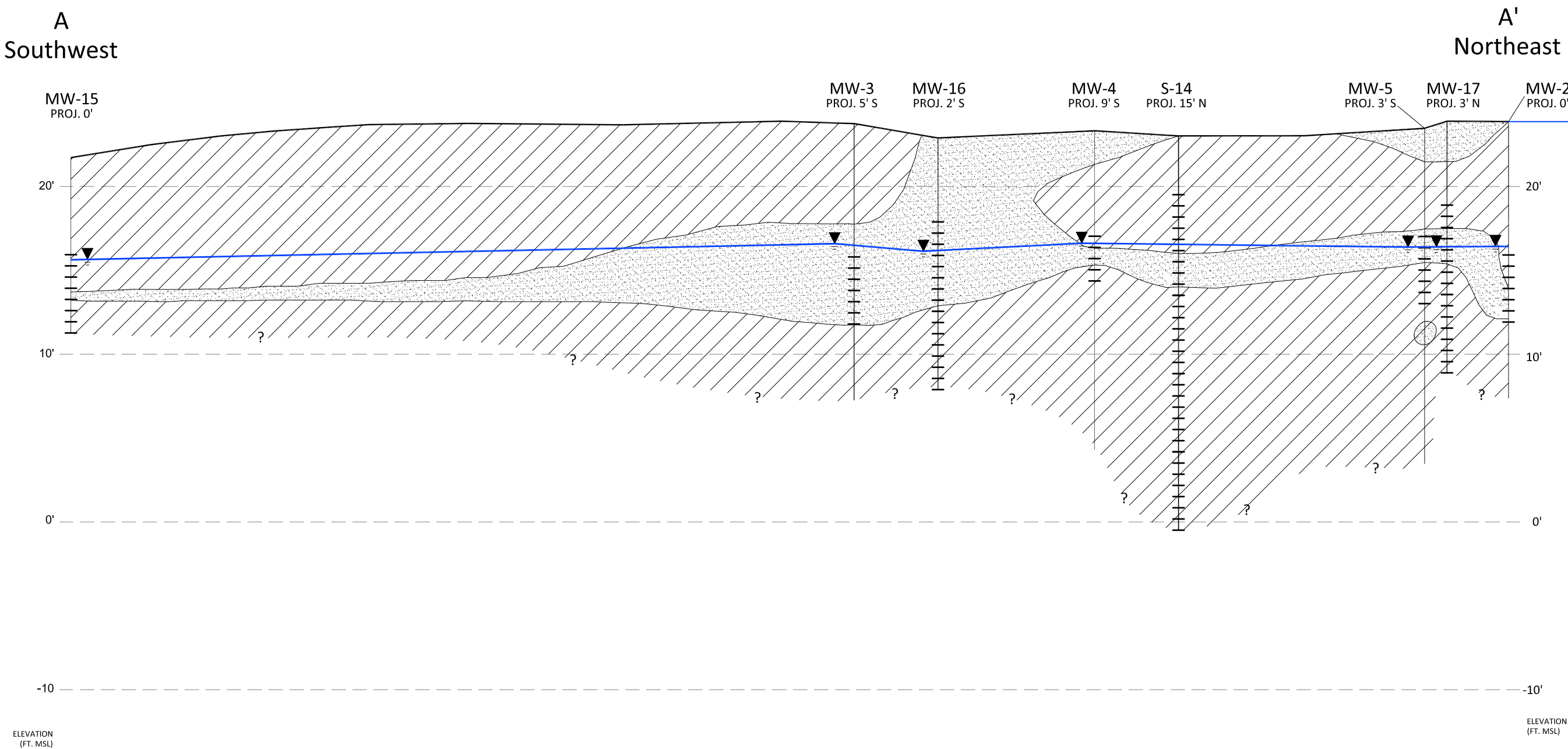
Project No.: 06-88-605 Date: 12/14/2012

Station #601
712 Lewelling Boulevard
San Leandro, California

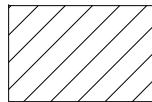
Site Layout with Cross Sections

Drawing

10



SM/SC/GC/GM - Moderate Permeability



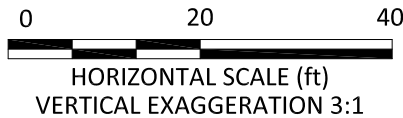
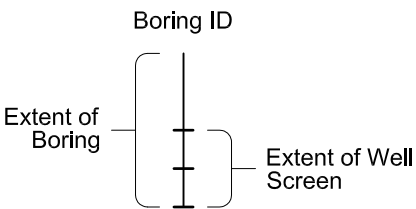
ML/CL/CH - Low Permeability



July 24, 2012 Static Water Level

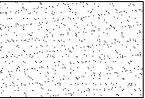
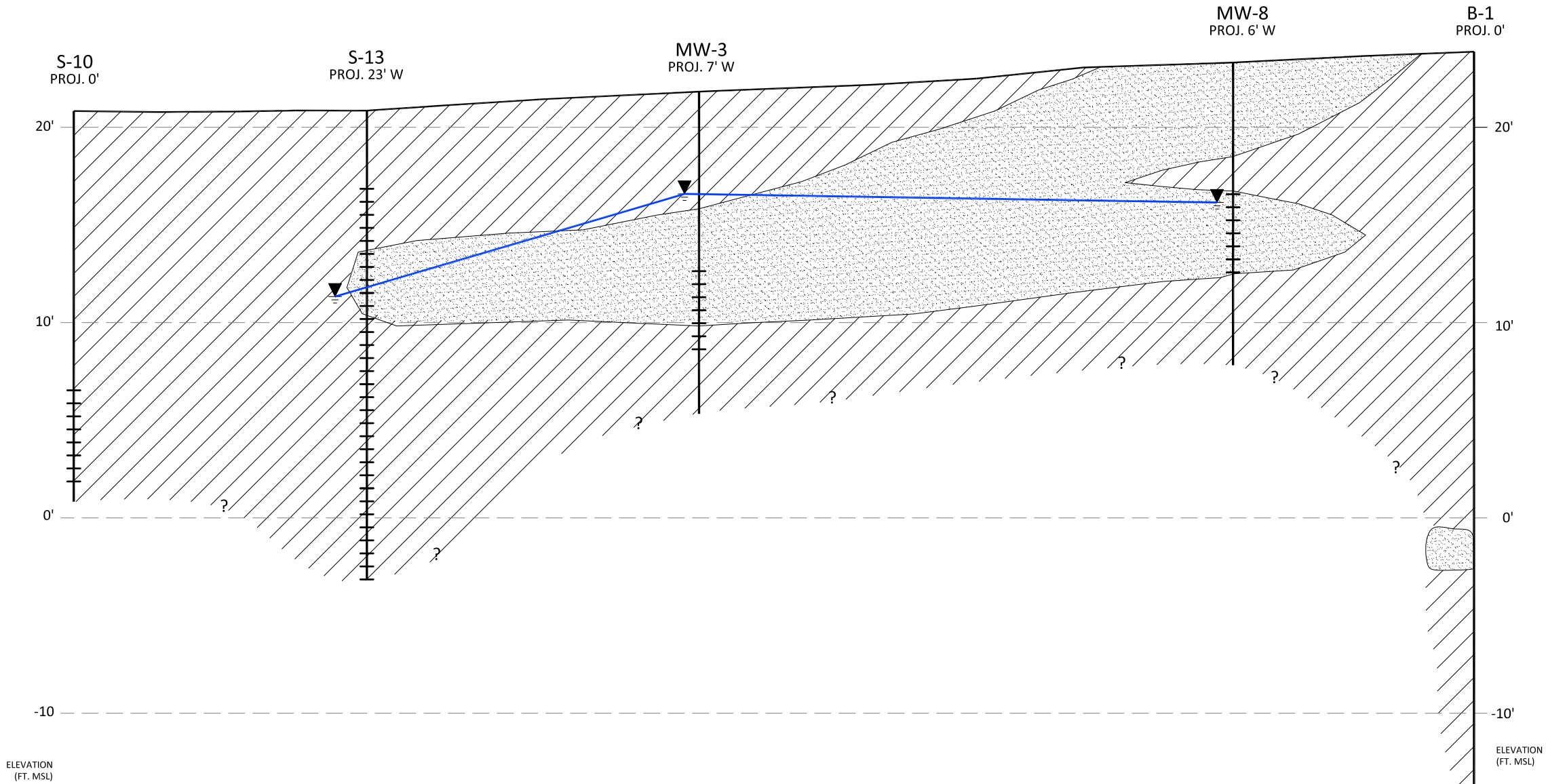


Groundwater Surface



B
North-Northwest

B'
South-Southeast



SM/SC/GC/GM - Moderate Permeability



ML/CL/CH - Low Permeability



July 24, 2012 Static Water Level



Groundwater Surface

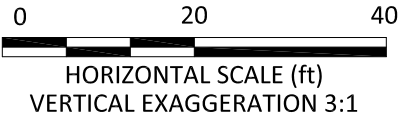
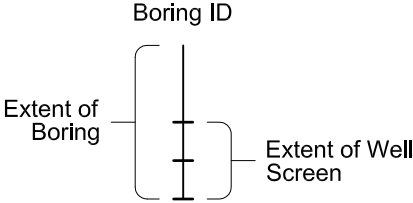


TABLE 1**CONCEPTUAL SITE MODEL**

Atlantic Richfield Company Station 601
 712 Lewelling Boulevard
 San Leandro, California

CSM Element	CSM Sub-Element	Description	Data Gap	How to Address
Geology and Hydrogeology	Regional	The Site is located within the San Leandro Sub-Area of the East Bay Plain of the San Francisco Basin. The San Leandro Sub-Area is primarily filled with alluvial fans, but unlike the Sub-Areas to the north, the Yerba-Buena Mid extends west into the San Leandro Sub-Area. It has been proposed that a clay layer forms an extensive east-west aquitard across the basin. Historically there were municipal supply wells in this Sub-Area that produced from the upper level Alameda gravels. The San Leandro Sub-Area is distinct from the Niles Cone basin to the south, in that the alluvial fans are much smaller and produce much less groundwater. Throughout most of the Alameda County portion of the East Bay Plain, from Hayward to Albany, groundwater level contours show that the general direction of groundwater flow is from the east to the west, from the Hayward Fault to the San Francisco Bay. Groundwater flow direction generally correlates to topography. Flow-direction and velocity are influenced by subsurface stream channels general oriented from east to west. However, near the San Leandro Sub-Area, limited regional data indicates that groundwater in the upper water-bearing zone flows to the south, with deeper groundwater flowing to the north.	None	NA
	Site	Sediments encountered during previous Site investigations generally consist of silty clays and silt which encase sand lenses of varying thickness. According to the cross sections presented in Drawing 11 and 12 show that a southwest-northwest trending sand layer is present at approximately 7 feet below ground surface (bgs) and varies in thickness from one to nine feet. As show in Drawing 12, this sand layer pinches out to the north and south of the Site, with lithology boreholes north (S-10) and south (B-10) of the Site containing only fine-grained soils. This lithology is consistent to a total explored depth of 58 feet bgs. Lithologic cross-sections of the Site are included in Drawings 11 and 12. The lithology represented in the cross-sections is consistent with the geologic environment of alluvial deposits, and consistent with the regional geologic environment.	None	NA

TABLE 1**CONCEPTUAL SITE MODEL**

Atlantic Richfield Company Station 601
712 Lewelling Boulevard
San Leandro, California

CSM Element	CSM Sub-Element	Description	Data Gap	How to Address
Surface Water Bodies		The nearest natural drainage from the Site is the San Lorenzo Creek, located 600 feet south of the Site. This creek is an urban stream, which is concrete lined and containing very little water during the dry season. The great majority of water traveling in this creek is the result of stormwater runoff which accumulates during rain events. The concrete lining inhibits what little contact with groundwater that may actually occur with the creek.	None	NA
Nearby Wells		A Sensitive Receptor Survey was carried out in October 2011 to identify the presence of water wells within a ½-mile radius of the Site. Based on a review of well completion reports furnished by the Department of Water Resources, 16 wells were identified within a ½-mile radius in the downgradient and crossgradient groundwater flow direction. The closest of these is an irrigation well approximately 1,150 feet southwest (downgradient) of the Site. The closest identified domestic supply well is located approximately 2,400 feet west-northwest (crossgradient) from the Site.	None	NA
Constituents of Concern	Light-Non Aqueous Phase Liquids (LNAPL)	LNAPL was first detected at the Site in well MW-1 in 1990. The largest measurement of LNAPL historically recorded at the Site 1.08 feet in November 1990 in well MW-3 located in the western corner of the Site. LNAPL was also detected in onsite well MW-1 during the same time-frame. This well is located near the former waste oil tank. LNAPL was historically detected in well MW-5 on a couple of isolated occasions, but LNAPL has primarily been historically measured in wells MW-1 and MW-3. LNAPL removal by product bailing was carried out since these initial measurements, with a total of 3.45 gallons of product having been removed. Measurable LNAPL has not been observed in MW-1 since 2008 and in MW-3 since 1995.	None	NA

TABLE 1**CONCEPTUAL SITE MODEL**

Atlantic Richfield Company Station 601
 712 Lewelling Boulevard
 San Leandro, California

CSM Element	CSM Sub-Element	Description	Data Gap	How to Address
Constituents of Concern	Gasoline Range Organics (GRO)	Concentrations of GRO have historically been detected in 10 of the 15 Site monitoring wells (MW-1 through MW-8, MW-11 and MW-15). In wells MW-7 and MW-15, only low and intermittent concentrations of GRO have been historically detected. Historical concentrations of GRO was reported in well MW-3 were above 400,000 micrograms per liter ($\mu\text{g/L}$) in the late 1990s. No GRO has been detected in offsite wells (MW-9, MW-10, MW-13, MW-14 and MW-15) with the exception of one detection of 97 $\mu\text{g/L}$ in well MW-15 in 1997. These wells define the GRO plume to the northwest (MW-13), southeast (MW-14), south (MW-10), south-southwest (MW-9), and southwest (MW-15). Offsite wells associated with the adjacent former Shell Station (Drawing 2) within Lewelling Boulevard provide additional definition of the GRO groundwater plume. Drawing 4 presents isoconcentration contours for the most recent groundwater monitoring and sampling event (3Q12). GRO concentration trend graphs for all wells are included in Appendix B. These graphs show a strong decreasing trend for GRO in all Site wells, indicating and shrinking plume.	None	NA
Constituents of Concern	Benzene	Benzene has historically been detected in the following Site wells: MW-1 through MW-9, MW-11, MW-14 and MW-15). However, in wells MW-7 through MW-9, MW-11, MW-14 and MW-15 only low concentrations have been intermittently detected. The highest onsite concentration of benzene was detected in well MW-5 at 25,000 $\mu\text{g/L}$ in 1991. Current maximum benzene concentrations are under 100 $\mu\text{g/L}$, indicating a strong decreasing benzene concentration trend over time. Drawing 5 presents isoconcentration contours of benzene in groundwater during the most recent groundwater monitoring event (3Q12). Benzene concentration trend graphs for all wells are included in Appendix B. These graphs show a strong decreasing trend for benzene in all Site wells, indicating and shrinking plume.	None	NA

TABLE 1**CONCEPTUAL SITE MODEL**

Atlantic Richfield Company Station 601
 712 Lewelling Boulevard
 San Leandro, California

CSM Element	CSM Sub-Element	Description	Data Gap	How to Address
Constituents of Concern	MTBE	Methyl tert butyl ether (MTBE) has been historically detected in 12 of the 15 wells present at the Site (MW-1 through MW-6, MW-8 through MW-11, MW-14, and MW-15). However, in wells MW-1, MW-3, MW-9, MW-11, MW-14, and MW-15 only low concentrations have been intermittently detected. The highest historic concentration of MTBE was reported in well MW-8 in 1997 at 1,300 µg/L. Drawing 6 presents isoconcentration contours of MTBE in groundwater during the most recent groundwater monitoring event (3Q12). MTBE concentration trend graphs for all wells are included in Appendix B. These graphs show a strong decreasing trend for MTBE in all Site wells, indicating a shrinking plume. Current concentrations of MTBE do not exceed 5 µg/L, indicating that MTBE in groundwater has almost completely degraded over time.	None	NA
Potential Sources	Onsite	The exact release source and volume released at the Site is unknown. However, it is assumed that the source was the former UST complex located at the northern portion of the Site, and the former waste oil tank located near the southeast corner of the service station building. These assumptions are supported by historical data including proximity to historical free product and higher dissolved-phase petroleum hydrocarbon concentrations. Additional areas of documented soil contamination occurred beneath product pipelines and dispensers, particularly the northern end of the western dispenser island. An unknown amount of petroleum hydrocarbon contamination is presently bound within the soil matrix in these areas, and dissolved in groundwater beneath and downgradient of the Site. A fluctuating groundwater table has likely caused a contaminant smear zone where the residual hydrocarbon mass remains. However, the trends for the residual petroleum compounds in groundwater (Appendix B) indicate that the residual concentrations in this smear zone have degraded over time and are impacting the groundwater beneath the Site to a far lesser degree than in the past, and will likely continue to degrade over time. The removal and replacement of the storage and dispensing system was conducted to stop the release. The initial UST removal and replacement activities were documented in the <i>Tank Replacement Report, ARCO Service Station #601</i> (GeoStrategies, 1990). Later removal and replacement of dispensers and product lines were documented in the <i>Dispenser and Product Line Removal and Upgrade Soil Sampling Report, Arco Service Station No. 601</i> (URS, 2003).	None	NA

TABLE 1**CONCEPTUAL SITE MODEL**

Atlantic Richfield Company Station 601
 712 Lewelling Boulevard
 San Leandro, California

CSM Element	CSM Sub-Element	Description	Data Gap	How to Address
Potential Sources	Onsite	The Site is an active service station. Current USTs and dispensers are present. Data presented herein does not indicate that an ongoing hydrocarbon release is occurring, since hydrocarbon concentrations have steadily been decreasing since historical maximums in the early 1990s (Appendix B). The Site monitoring and sampling history indicate that hydrocarbon releases occurred from the former UST farm and waste oil tank, with no additional releases having occurred.		
Potential Sources	Offsite	A former Shell Service Station is located adjacent to the Site to the north. A petroleum release occurred at the Shell Station in 1985, and was stopped in 1987. Site investigation activities including well and boring installations initially occurred at the former Shell Station site in 1988. A total of 14 monitoring were installed at the Site and have since been monitored for over 20 years. In that time frame, concentrations have decreased to a level where Site closure was requested and is currently being reviewed. Concentrations of petroleum compounds in wells in between the Site and the former Shell Station site have historically and currently indicate that the two plumes do not connect. Due to the decreasing trends and overall low concentration associated with the adjacent former Shell Station site, it is not a likely hydrocarbon source.	None	NA
Nature and Extent of Environmental Impacts	Extent in Soil	Soil appears defined at the Site. Upon completion of an offsite soil boring investigation conducted by RESNA in 1993, GRO in soil was defined to less than 1.0 milligrams per kilogram (mg/kg), and less than 0.005 mg/Kg benzene in all directions. The highest concentration of GRO and benzene were historically detected at the Site where near the former UST complex and the former waste oil tank pit. The locations where the highest concentrations of petroleum compounds have been detected have since been removed during tank removal and overexcavation activities. Of the sample locations that have not been removed by excavation, the highest concentrations of benzene were detected near the former waste oil tank (after removal activities), and near well MW-3. The highest concentrations were consistently reported at approximately 6.5 to 10 feet bgs, which is consistent with the capillary fringe zone at the Site. Even at these high concentrations, soil was defined laterally to non-detect for all petroleum compounds to the south and east, and to 1.0 mg/Kg benzene to the north, and to 7.0 mg/Kg benzene to the west along Lewelling Boulevard. Further definition to the north was not possible due to the presence of an adjacent Shell station in that area.	None	NA

TABLE 1**CONCEPTUAL SITE MODEL**

Atlantic Richfield Company Station 601
 712 Lewelling Boulevard
 San Leandro, California

CSM Element	CSM Sub-Element	Description	Data Gap	How to Address
Nature and Extent of Environmental Impacts	Extent in Soil	Since source areas have been removed and these concentrations were representative of overall groundwater concentrations at the time of sampling, it is likely that these concentrations have further attenuated over the last 20 years. In MW-3, where benzene concentrations in soil were 11 mg/Kg in 1991, petroleum impacts in groundwater have decreased by several orders of magnitude since that time. The adjacent offsite benzene concentration in soil (B-23; RESNA, 1993) was 7 mg/Kg. Both of these soil samples represented the capillary fringe zone, these concentrations have likely attenuated to near non-detect. Based on these data and the observation of current groundwater conditions, soil at this Site appears to be adequately defined.		
Nature and Extent of Environmental Impacts	Extent in Shallow Groundwater	The groundwater monitoring network at the Site includes source area wells (MW-1, MW-3, MW-16, MW-17, and MW-18); upgradient wells (MW-13, former Shell Station wells S-11, S-12, and S-14); crossgradient wells (MW-12, MW-14, and MW-19); and downgradient well (MW-8, MW-9, MW-10, and MW-15). Isoconcentration maps for the most recent groundwater monitoring and sampling event (3Q12) for GRO, benzene, and MTBE are included as Drawings 4 through 6 respectively. Although wells S-11, S-12, and S-14 have not been sampled since 2004, concentrations in nearby wells (MW-3, MW-17) have decreased significantly since that time (Appendix B). In 2004, these wells contained low to non-detect concentrations of petroleum compounds. Based on these drawings, the extent of petroleum compounds is well defined in all directions, and is predominately limited to onsite. The extent of petroleum compounds is small, and the plume is shrinking based on the observed decreasing trends (Appendix B). Although the screens of wells MW-1 and MW-3 are often submerged, the data is still assumed valid. This is because the other onsite wells do not have submerged screens and the concentrations are consistent with these older wells. The understanding of the Site is largely based on wells without flooded screens, and the flooded screen data is consistent with this non-flooded-screen data. Additionally, free product is no longer present at this Site, and dissolved petroleum concentrations are decreasing. The data is adequate for understanding the SCM. Well MW-3 has consistently had submerged screen for the last several years. Adjacent newer well MW-16 is approximately 20 to 30 feet from well MW-3 and is between this well and the suspected source area. Well MW-16 has never contained free product, and dissolved-phase petroleum concentrations in this are not consistent with proximity to free-product. Therefore, the data from well MW-3 is considered valid.	None	NA

TABLE 1**CONCEPTUAL SITE MODEL**

Atlantic Richfield Company Station 601
 712 Lewelling Boulevard
 San Leandro, California

CSM Element	CSM Sub-Element	Description	Data Gap	How to Address
Nature and Extent of Environmental Impacts	Extent in Deeper Groundwater	One deeper soil boring was advanced onsite in 2007 in order to define the vertical extent of petroleum hydrocarbons in groundwater. A Hydropunch™ groundwater sample was collected at a permeable zone at 55 to 58 feet bgs. No other permeable zones were encountered above that zone. No petroleum compounds other than low levels of diesel range organics (DRO) were encountered. Soil samples collected in this location at 15 feet bgs, 23 feet bgs, 31 feet bgs, 39 feet bgs, 47 feet bgs, and 54 feet bgs did not contain any petroleum compounds other than two detections of DRO slightly greater than the detection limit of 1.0 mg/Kg. Based on the results of this investigation, petroleum compounds in groundwater are vertically defined, with only first-encountered groundwater impacted, which is largely related to residual petroleum impacts in the capillary fringe. This observation is consistent with the nature of petroleum being less dense than water and being more prevalent at the groundwater surface.	None	NA
Nature and Extent of Environmental Impacts	Extent in Soil Vapor	A soil vapor assessment was performed at the Site near the adjacent Chateau Manor Apartments in 2009. The locations of the soil vapor samples (SG-9 through SG-14) are indicated in Drawing 2. Soil vapor samples were collected at 3 to 3.5 foot-intervals in all locations. The samples were analyzed for petroleum compounds including GRO, benzene, toluene, ethylbenzene, xylenes (BTEX) and gasoline additives. Additionally, samples were analyzed for oxygen, argon, carbon dioxide, and methane. Analytical results indicated that only one minor concentration of toluene slightly above reporting limits in the sample from SG-11. Additionally, oxygen and carbon were detected in soil vapor samples, indicating the possible occurrence of petroleum biodegradation in soil. It is possible that higher petroleum impacts are present near the former source areas; however, much of the soil in these areas has been removed by excavation. Any residual petroleum compounds in soil vapor do not extend to offsite receptors, and are therefore adequately defined.	None	NA

TABLE 1**CONCEPTUAL SITE MODEL**

Atlantic Richfield Company Station 601
 712 Lewelling Boulevard
 San Leandro, California

CSM Element	CSM Sub-Element	Description	Data Gap	How to Address
Migration Pathways	Potential Conduits	Historic maps of underground utilities including natural gas, storm drain and cable are included in Drawing 7. The majority of the mapped underground utilities are believed to be relatively shallow (less than three feet bgs). Exceptions are the mapped sewer pipelines in the area. A six-inch diameter sanitary sewer lateral conveys wastewater from the Chateau Manor apartments to an eight-inch diameter sewer main within Lewelling Boulevard, which is approximately six to seven feet bgs in the Site vicinity. A 24-inch diameter sanitary sewer main pipeline also runs under Lewelling at approximately 9.5 to 10.5 feet bgs. Since depth to groundwater is typically measured as high as 5 feet bgs, there is a potential that the deeper sewer system conduits may be acting as preferential pathways for contaminant migration. In response to this potential conduit, three hand-auger borings were advanced in 2002 near the sewer main, and groundwater was collected in the trench backfill. The locations of these borings (HA-2 through HA-4) are included in Drawing 2. The benzene concentrations reported in these samples were 640, 1,200, and 62 ug/L, respectively. The highest concentration was detected in HA-3, near well MW-3, where the highest petroleum hydrocarbon concentrations are typically detected. Since that time, benzene concentrations in MW-3 have decreased by over one order of magnitude. Benzene was most recently reported in this well at 19 ug/L. Due to the overall decrease in petroleum hydrocarbons in groundwater (Appendix B), and the fact that concentrations of benzene in the trench water samples decreased with distance from MW-3 and HA-3, and the sewer main is upgradient of the Site, the sewer mains near the Site are unlikely to be a conduit for contaminant migration.	None	NA
Potential Receptors	Onsite	No onsite water supply wells or surface water exists. The only potential onsite receptor would be onsite workers exposed to gasoline vapors. However, the exposure from current fueling operations represents a greater risk than any associated with potential groundwater or soil vapor exposure (SWRCB, 2012).	None	NA
Potential Receptors	Offsite	As discussed above, the Chateau Manor apartments are located downgradient of the Site. This receptor was considered in during the 2009 soil vapor investigation. Concentrations of petroleum compounds in samples collected adjacent to the apartment buildings contained no petroleum compounds with the exception of one detection of toluene slightly above reporting limits. Concentrations of benzene in groundwater (Drawing 5) indicate that impacts do not extend beneath these apartments. Therefore, the Chateau Manor apartments are a potential offsite receptor, but data collected indicates that the exposure pathway to this receptor is not complete.		

TABLE 1**CONCEPTUAL SITE MODEL**

Atlantic Richfield Company Station 601
 712 Lewelling Boulevard
 San Leandro, California

CSM Element	CSM Sub-Element	Description	Data Gap	How to Address
Potential Receptors	Offsite	A Sensitive Receptor Survey was performed in October 2011 to identify the presence of water wells within a ½-mile radius of the Site. Based on a review of well completion reports furnished by the Department of Water Resources, 16 wells were identified within a ½-mile radius in the downgradient and crossgradient groundwater flow direction. The closest of these is an irrigation well approximately 1,150 feet southwest (downgradient) of the Site. The closest identified domestic supply well is located approximately 2,400 feet west-northwest (crossgradient) from the Site. The nearest surface water body is an unnamed drainage ditch located approximately 450 feet south (downgradient) of the Site. The unnamed drainage ditch ultimately connects to the San Francisco Bay, which is located approximately 1.65 miles west-southwest (downgradient) of the Site. The nearest natural drainage is San Lorenzo Creek, located approximately 600 feet south (down-gradient) of the Site. This portion of the San Lorenzo Creek is seasonal and concrete lined, with the majority of water transported in this part of the creek being attributed to seasonal surface runoff. The concrete lining inhibits contact with any area groundwater.	None	NA

Notes:

bgs = below ground surface

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MTBE = Methyl tert-butyl Ether

BTEX = benzene, toluene, ethylbenzene, xylenes

µg/L = micrograms per liter

mg/Kg = milligrams per kilogram

All report references are included in Section 3 of the preceding report

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

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

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

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

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

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

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

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

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

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-2 Cont.																
7/18/1990	--	22.06	8.00	12.00	7.86	14.20	35,000	3,800	2,900	690	3,600	--	--	--	--	
10/15/1990	--		8.00	12.00	8.61	13.45	6,400	650	290	110	560	--	--	--	--	
1/9/1991	--		8.00	12.00	8.43	13.63	13,000	1,500	970	390	1,500	--	--	--	--	
4/16/1991	--		8.00	12.00	6.97	15.09	54,000	5,200	9,000	1,500	7,700	--	--	--	--	
6/10/1991	--	21.33	8.00	12.00	7.91	13.42	26,000	3,000	2,500	880	4,200	--	--	--	--	
10/10/1991	--		8.00	12.00	8.82	12.51	10,000	1,600	910	280	1,400	--	--	--	--	
3/23/1992	--		8.00	12.00	6.86	14.47	33,000	4,100	5,000	1,100	5,300	--	--	--	--	
6/8/1992	--		8.00	12.00	7.95	13.38	18,000	1,200	980	330	1,800	--	--	--	--	
9/15/1992	--		8.00	12.00	8.71	12.62	13,000	430	500	340	1,800	--	--	--	--	
11/16/1992	--		8.00	12.00	7.93	13.40	13,000	900	940	300	1,400	--	--	--	--	
2/16/1993	--		8.00	12.00	6.02	15.31	20,000	1,800	1,200	530	2,700	--	--	--	--	
5/13/1993	--		8.00	12.00	6.99	14.34	13,000	1,000	470	370	1,900	--	--	--	--	
8/17/1993	--		8.00	12.00	7.85	13.48	9,100	770	160	310	1,500	--	--	--	--	
11/8/1993	--		8.00	12.00	8.12	13.21	9,200	380	62	130	630	--	--	--	--	
2/14/1994	--		8.00	12.00	6.88	14.45	8,700	670	370	50	1,400	--	--	--	--	
5/5/1994	--		8.00	12.00	7.51	13.82	5,600	390	140	120	480	--	--	--	--	
8/4/1994	--		8.00	12.00	8.00	13.33	2,300	180	<2.5	<2.5	230	--	--	--	--	n
11/20/1994	--		8.00	12.00	6.86	14.47	4,900	170	150	120	390	--	--	--	--	
3/17/1995	--		8.00	12.00	6.12	15.21	10,000	460	77	260	550	--	--	--	--	
6/1/1995	--		8.00	12.00	6.56	14.77	13,000	400	78	210	410	--	--	--	--	
8/31/1995	--		8.00	12.00	7.18	14.15	5,000	280	18	120	140	<50	--	--	--	
11/27/1995	--		8.00	12.00	7.39	13.94	3,200	230	12	77	90	--	--	--	--	
2/22/1996	--		8.00	12.00	5.78	15.55	11,000	290	67	190	330	<50	--	--	--	
5/20/1996	--		8.00	12.00	6.27	15.06	--	--	--	--	--	--	--	--	--	
8/26/1996	--		8.00	12.00	7.30	14.03	--	--	--	--	--	--	--	--	--	
11/20/1996	--		8.00	12.00	7.28	14.05	--	--	--	--	--	--	--	--	--	
3/24/1997	--	21.12	8.00	12.00	7.11	14.01	4,800	570	6	71	32	67	--	--	--	
5/23/1997	--		8.00	12.00	7.44	13.68	--	--	--	--	--	--	--	--	--	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-2 Cont.																
8/19/1997	--	21.12	8.00	12.00	7.64	13.48	--	--	--	--	--	--	--	--	--	
11/19/1997	--		8.00	12.00	7.70	13.42	--	--	--	--	--	--	--	--	--	
2/19/1998	--		8.00	12.00	5.22	15.90	2,000	160	50	66	230	25	--	--	--	
4/23/1998	--		8.00	12.00	6.24	14.88	--	--	--	--	--	--	--	--	--	
7/27/1998	--		8.00	12.00	7.02	14.10	--	--	--	--	--	--	--	--	--	
10/14/1998	--		8.00	12.00	7.54	13.58	--	--	--	--	--	--	--	--	--	
1/21/1999	--		8.00	12.00	7.15	13.97	1,700	84	4	31	10	13	--	0.5	--	
5/6/1999	--		8.00	12.00	6.95	14.17	--	--	--	--	--	--	--	--	--	
8/23/1999	--		8.00	12.00	7.49	13.63	--	--	--	--	--	--	--	0.68	--	
10/28/1999	--		8.00	12.00	7.92	13.20	--	--	--	--	--	--	--	--	--	
2/4/2000	--		8.00	12.00	6.61	14.51	--	--	--	--	--	--	--	--	--	
6/20/2000	--		8.00	12.00	7.12	14.00	--	--	--	--	--	--	--	--	--	
9/29/2000	--		8.00	12.00	7.60	13.52	--	--	--	--	--	--	--	--	--	
12/17/2000	--		8.00	12.00	7.42	13.70	--	--	--	--	--	--	--	--	--	
3/28/2001	--		8.00	12.00	6.84	14.28	838	18.1	<5.0	7.63	5.98	39.5	--	--	--	
6/20/2001	--		8.00	12.00	7.66	13.46	--	--	--	--	--	--	--	--	--	
9/22/2001	--		8.00	12.00	8.08	13.04	--	--	--	--	--	--	--	--	--	
12/27/2001	--		8.00	12.00	6.48	14.64	--	--	--	--	--	--	--	--	--	
3/15/2002	--		8.00	12.00	6.84	14.28	100	<0.5	<0.5	2.5	<0.5	75	--	--	--	
4/18/2002	--		8.00	12.00	6.19	14.93	--	--	--	--	--	--	--	--	--	
7/23/2002	--		8.00	12.00	7.73	13.39	--	--	--	--	--	--	--	--	--	
10/16/2002	--		8.00	12.00	8.10	13.02	--	--	--	--	--	--	--	--	--	
1/23/2003	P		8.00	12.00	6.52	14.60	<5,000	<50	<50	<50	<50	95	--	1.6	7.2	g
4/7/2003	--		8.00	12.00	7.22	13.90	--	--	--	--	--	--	--	--	--	
8/7/2003	--		8.00	12.00	7.84	13.28	--	--	--	--	--	--	--	--	--	
10/23/2003	P		8.00	12.00	7.95	13.17	<250	<2.5	<2.5	<2.5	4.2	68	--	--	--	m
01/12/2004	--		8.00	12.00	6.60	14.52	--	--	--	--	--	--	--	--	--	
04/20/2004	--	23.87	8.00	12.00	8.32	15.55	--	--	--	--	--	--	--	--	--	r

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-2 Cont.																
07/01/2004	P	23.87	8.00	12.00	8.96	14.91	72	<0.50	<0.50	<0.50	<0.50	72	--	2.1	6.9	o
11/04/2004	--		8.00	12.00	7.30	16.57	--	--	--	--	--	--	--	--	--	
01/10/2005	--		8.00	12.00	5.87	18.00	--	--	--	--	--	--	--	--	--	
04/14/2005	--		8.00	12.00	5.75	18.12	--	--	--	--	--	--	--	--	--	
08/02/2005	P		8.00	12.00	6.47	17.40	1,300	4.3	0.57	11	0.97	12	--	--	7.0	
10/21/2005	--		8.00	12.00	7.12	16.75	--	--	--	--	--	--	--	--	--	
01/04/2006	--		8.00	12.00	6.75	17.12	--	--	--	--	--	--	--	--	--	
04/28/2006	--		8.00	12.00	5.90	17.97	--	--	--	--	--	--	--	--	--	
8/4/2006	P		8.00	12.00	7.41	16.46	50	<0.50	<0.50	<0.50	<0.50	7.9	--	1.57	7.2	
10/23/2006	--		8.00	12.00	7.72	16.15	--	--	--	--	--	--	--	--	--	
1/15/2007	--		8.00	12.00	7.14	16.73	--	--	--	--	--	--	--	--	--	
4/17/2007	--		8.00	12.00	7.28	16.59	--	--	--	--	--	--	--	--	--	
7/9/2007	P		8.00	12.00	7.73	16.14	110	<0.50	<0.50	<0.50	<0.50	3.2	--	1.40	7.37	
10/1/2007	--		8.00	12.00	7.95	15.92	--	--	--	--	--	--	--	--	--	
1/7/2008	--		8.00	12.00	6.46	17.41	--	--	--	--	--	--	--	--	--	
4/1/2008	--		8.00	12.00	7.10	16.77	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		8.00	12.00	7.90	15.97	<50	<0.50	<0.50	<0.50	<0.50	0.78	--	3.1	7.25	
10/22/2008	--		8.00	12.00	8.10	15.77	--	--	--	--	--	--	--	--	--	
1/21/2009	--		8.00	12.00	7.70	16.17	--	--	--	--	--	--	--	--	--	
4/21/2009	--		8.00	12.00	7.16	16.71	--	--	--	--	--	--	--	--	--	
7/21/2009	NP		8.00	12.00	8.01	15.86	<50	<0.50	<0.50	<0.50	<0.50	0.83	--	11.67	7.47	v
1/12/2010	--		8.00	12.00	7.35	16.52	--	--	--	--	--	--	--	--	--	
6/3/2010	P		8.00	12.00	6.78	17.09	<50	<0.50	<0.50	<0.50	<0.50	1.2	--	--	7.06	
7/22/2010	P		8.00	12.00	7.47	16.40	420	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.03	7.1	w
2/18/2011	--		8.00	12.00	6.71	17.16	--	--	--	--	--	--	--	--	--	
8/25/2011	P		8.00	12.00	7.40	16.47	780	<0.50	<0.50	0.79	<0.50	<0.50	--	1.05	7.2	x (GRO)
1/17/2012	--		8.00	12.00	8.01	15.86	--	--	--	--	--	--	--	--	--	
7/24/2012	P		8.00	12.00	7.44	16.43	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	0.81	7.36	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-3																
7/18/1990	--	20.84	8.00	12.00	7.03	13.81	--	--	--	--	--	--	--	--	--	
10/15/1990	--		8.00	12.00	8.19	12.65	--	--	--	--	--	--	--	--	--	i, l
1/9/1991	--		8.00	12.00	7.46	13.38	--	--	--	--	--	--	--	--	--	i, l
4/16/1991	--		8.00	12.00	7.95	12.89	--	--	--	--	--	--	--	--	--	a
6/10/1991	--	20.11	8.00	12.00	7.14	12.97	--	--	--	--	--	--	--	--	--	a
10/10/1991	--		8.00	12.00	7.82	12.29	--	--	--	--	--	--	--	--	--	i, l
3/23/1992	--		8.00	12.00	5.75	14.36	--	--	--	--	--	--	--	--	--	a
6/8/1992	--		8.00	12.00	7.52	12.59	--	--	--	--	--	--	--	--	--	i, l
9/15/1992	--		8.00	12.00	8.01	12.10	--	--	--	--	--	--	--	--	--	i, l
11/16/1992	--		8.00	12.00	7.11	13.00	--	--	--	--	--	--	--	--	--	a
2/16/1993	--		8.00	12.00	5.93	14.18	--	--	--	--	--	--	--	--	--	i, l
5/13/1993	--		8.00	12.00	6.37	13.74	--	--	--	--	--	--	--	--	--	i, l
8/17/1993	--		8.00	12.00	7.00	13.11	--	--	--	--	--	--	--	--	--	i, l
11/8/1993	--		8.00	12.00	7.31	12.80	430,000	4,100	14,000	6,400	37,000	--	--	--	--	
2/14/1994	--		8.00	12.00	5.81	14.30	85,000	4,200	12,000	2,500	16,000	--	--	--	--	
5/5/1994	--		8.00	12.00	6.81	13.30	560,000	4,600	14,000	5,300	40,000	--	--	--	--	
8/4/1994	--		8.00	12.00	7.31	12.80	64,000	4,200	7,600	1,700	12,000	--	--	--	--	
11/20/1994	--		8.00	12.00	5.88	14.23	80,000	4,700	9,700	2,400	15,000	--	--	--	--	
3/17/1995	--		8.00	12.00	5.46	14.65	370,000	4,800	12,000	5,800	34,000	--	--	--	--	
6/1/1995	--		8.00	12.00	6.34	13.77	270,000	6,000	11,000	5,200	28,000	--	--	--	--	
8/31/1995	--		8.00	12.00	6.60	13.51	--	--	--	--	--	--	--	--	--	i, l
11/27/1995	--		8.00	12.00	6.76	13.35	150,000	5,100	8,800	3,900	21,000	--	--	--	--	
2/22/1996	--		8.00	12.00	5.14	14.97	150,000	4,400	7,600	4,100	22,000	<3,000	--	--	--	
5/20/1996	--		8.00	12.00	5.17	14.94	410,000	4,700	8,000	6,300	36,000	<3,000	--	--	--	
8/26/1996	--		8.00	12.00	7.04	13.07	260,000	4,000	6,100	4,200	24,000	<2,000	--	--	--	
11/20/1996	--		8.00	12.00	6.26	13.85	190,000	3,200	5,800	3,300	20,000	<1,000	--	--	--	
3/24/1997	--	22.99	8.00	12.00	6.94	16.05	430,000	2,700	7,600	7,000	39,000	<5,000	--	--	--	
5/23/1997	--		8.00	12.00	6.98	16.01	130,000	2,100	4,300	3,500	19,000	<700	--	--	--	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-3 Cont.																
8/19/1997	--	22.99	8.00	12.00	7.25	15.74	100,000	2,000	3,200	<100	19,000	<600	--	--	--	
11/19/1997	--		8.00	12.00	7.25	15.74	93,000	1,700	2,400	2,800	16,000	<600	--	--	--	
2/19/1998	--		8.00	12.00	5.24	17.75	80,000	620	1,200	2,500	13,000	<600	--	--	--	
4/23/1998	--		8.00	12.00	6.60	16.39	130,000	1,500	2,400	3,500	18,000	<600	--	3.5	--	
7/27/1998	--		8.00	12.00	7.00	15.99	140,000	920	1,500	2,400	13,000	<600	--	1.0	--	
10/14/1998	--		8.00	12.00	7.04	15.95	300,000	1,200	2,400	5,700	32,000	970	--	1.0	--	
1/21/1999	--		8.00	12.00	6.50	16.49	120,000	860	1,500	2,600	14,000	<600	--	0.5	--	
5/6/1999	--		8.00	12.00	6.90	16.09	49,000	670	1,400	2,500	11,000	170	--	1.03	--	
8/23/1999	--		8.00	12.00	6.53	16.46	51,000	440	930	2,200	9,200	<150	--	0.67	--	
10/28/1999	--		8.00	12.00	7.50	15.49	1,400,000	830	4,100	15,000	78,000	<5,000	--	0.77	--	
2/4/2000	--		8.00	12.00	6.21	16.78	<50	<0.5	<0.5	<0.5	<1	650	--	1.61	--	
6/20/2000	--		8.00	12.00	6.22	16.77	45,000	670	990	2,400	12,000	<500	--	--	--	
9/29/2000	--		8.00	12.00	7.20	15.79	51,000	860	1,120	2,720	12,900	<250	--	--	--	
12/17/2000	--		8.00	12.00	--	--	--	--	--	--	--	--	--	--	--	
3/28/2001	--		8.00	12.00	6.10	16.89	43,500	804	<200	250	11,000	<1,000	--	--	--	
6/20/2001	--		8.00	12.00	6.14	16.85	62,000	1,000	850	2,800	13,000	<2,500	--	--	--	
9/22/2001	--		8.00	12.00	7.24	15.75	53,000	1,200	1,200	3,100	13,000	<1,000	--	--	--	
12/27/2001	--		8.00	12.00	7.00	15.99	44,000	860	840	2,300	10,000	<250	--	--	--	
3/15/2002	--		8.00	12.00	7.02	15.97	43,000	1,000	810	2,300	11,000	<250	--	--	--	
4/18/2002	--		8.00	12.00	--	--	--	--	--	--	--	--	--	--	--	
7/23/2002	P		8.00	12.00	7.22	15.77	45,000	750	570	2,100	10,000	<250	--	1	8	d
10/16/2002	P		8.00	12.00	7.54	15.45	42,000	780	620	2,500	11,000	<250	--	1.4	7.7	d
1/23/2003	P		8.00	12.00	6.85	16.14	68,000	580	500	3,300	16,000	<100	--	1.3	7	g
4/7/2003	--		8.00	12.00	7.05	15.94	48,000	620	450	2,200	11,000	<50	--	1.4	6.9	
8/7/2003	--		8.00	12.00	6.89	16.10	35,000	360	250	1,700	8,100	<100	--	2.4	8.9	m
10/23/2003	P		8.00	12.00	7.05	15.94	36,000	340	250	1,700	8,300	<25	--	--	--	m
01/12/2004	NP		8.00	12.00	5.93	17.06	1,100	<5.0	<5.0	<5.0	34	<5.0	--	3.2	9.5	
04/20/2004	P	22.63	8.00	12.00	7.60	15.03	30,000	210	170	1,700	7,300	<50	--	1.6	7.8	r

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-3 Cont.																
07/01/2004	P	22.63	8.00	12.00	7.76	14.87	33,000	190	190	1,300	6,300	<50	--	2.3	7.4	a
11/04/2004	--		8.00	12.00	--	--	--	--	--	--	--	--	--	--	--	p
11/23/2004	P		8.00	12.00	6.75	15.88	32,000	150	160	1,400	7,100	<50	--	1.2	7.5	
01/10/2005	P		8.00	12.00	4.75	17.88	34,000	180	150	1,400	6,900	<100	--	0.7	7.0	
04/14/2005	P		8.00	12.00	5.60	17.03	26,000	170	200	1,500	5,000	<25	--	2.3	7.0	
08/02/2005	P		8.00	12.00	5.97	16.66	41,000	260	190	1,800	8,600	<25	--	--	7.0	
10/21/2005	P		8.00	12.00	6.55	16.08	39,000	230	160	1,500	7,400	<50	--	1.05	7.0	
01/04/2006	P		8.00	12.00	4.57	18.06	33,000	160	150	1,700	7,500	<25	--	0.97	7.1	
04/28/2006	P		8.00	12.00	5.35	17.28	42,000	130	110	1,700	6,500	<25	--	1.39	7.0	a
8/4/2006	P		8.00	12.00	5.97	16.66	38,000	180	130	1,500	7,000	<25	--	0.47	6.9	
10/23/2006	P		8.00	12.00	6.66	15.97	48,000	180	120	1,500	7,100	<5.0	--	--	6.98	
1/15/2007	P		8.00	12.00	6.11	16.52	36,000	130	130	1,900	8,400	<25	--	0.97	7.25	
4/17/2007	P		8.00	12.00	6.13	16.50	73,000	120	140	2,200	9,900	<25	--	1.13	7.42	a
7/9/2007	P		8.00	12.00	6.82	15.81	42,000	110	110	1,700	7,100	<25	--	1.38	7.28	a
10/1/2007	P		8.00	12.00	6.85	15.78	48,000	100	100	1,700	7,700	<25	--	1.65	7.66	a, o, t
1/7/2008	--		8.00	12.00	--	--	--	--	--	--	--	--	--	--	--	p
4/1/2008	P		8.00	12.00	8.95	13.68	160,000	<100	<100	1,700	7,400	<100	--	0.96	7.03	a
7/23/2008	NP		8.00	12.00	7.00	15.63	33,000	39	47	1,100	5,000	<5.0	--	1.04	6.93	
10/22/2008	P		8.00	12.00	7.15	15.48	98,000	<120	<120	2,000	8,000	<120	--	1.06	7.09	a
1/21/2009	P		8.00	12.00	6.79	15.84	51,000	<100	<100	2,300	9,000	<100	--	0.58	7.08	a
4/21/2009	P		8.00	12.00	5.80	16.83	720,000	52	<50	790	7,000	<50	--	1.38	7.14	a
7/21/2009	P		8.00	12.00	6.84	15.79	36,000	29	33	1,300	4,800	<25	--	11.15	7.35	v
1/12/2010	P		8.00	12.00	6.19	16.44	25,000	25	24	1,200	3,900	<10	--	1.07	6.63	
6/3/2010	P		8.00	12.00	5.64	16.99	26,000	<25	<25	820	2,900	<25	--	1.16	6.8	
7/22/2010	P		8.00	12.00	6.37	16.26	42,000	<25	<25	1,100	3,500	<25	--	0.38	6.9	
2/18/2011	P		8.00	12.00	5.03	17.60	29,000	<25	<25	1,000	2,800	<25	--	0.70	6.50	
8/25/2011	P		8.00	12.00	5.96	16.67	20,000	<20	<20	850	1,600	<20	--	0.66	6.8	
1/17/2012	P		8.00	12.00	7.12	15.51	14,000	<10	<10	330	640	<10	--	0.26	7.01	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-3 Cont.																
7/24/2012	P	22.63	8.00	12.00	6.04	16.59	9,500	19	6.8	500	140	<5.0	--	1.25	7.15	
MW-4																
6/10/1991	--	20.75	6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
10/10/1991	--		6.00	9.00	--	--	15,000	5,300	1,500	470	1,300	--	--	--	--	b
3/23/1992	--		6.00	9.00	--	--	24,000	5,600	4,000	580	3,100	--	--	--	--	b
6/8/1992	--		6.00	9.00	--	--	5,700	2,000	170	92	270	--	--	--	--	b
9/15/1992	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/16/1992	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
2/16/1993	--		6.00	9.00	7.10	13.65	12,000	920	1,100	130	750	--	--	--	--	
5/13/1993	--		6.00	9.00	7.02	13.73	19,000	2,900	2,800	360	1,900	--	--	--	--	
8/17/1993	--		6.00	9.00	7.85	12.90	8,100	1,600	1,300	170	730	--	--	--	--	
11/8/1993	--		6.00	9.00	--	--	2,000	540	110	10	240	--	--	--	--	b
2/14/1994	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
5/5/1994	--		6.00	9.00	7.73	13.02	1,900	510	78	31	150	--	--	--	--	
8/4/1994	--		6.00	9.00	7.83	12.92	1,300	360	17	<5	190	--	--	--	--	n
11/20/1994	--		6.00	9.00	7.73	13.02	<50	2.9	0.5	<0.5	1.4	--	--	--	--	
3/17/1995	--		6.00	9.00	6.65	14.10	16,000	1,800	970	310	2,500	--	--	--	--	
6/1/1995	--		6.00	9.00	7.25	13.50	16,000	2,800	870	380	2,700	--	--	--	--	
8/31/1995	--		6.00	9.00	7.75	13.00	9,000	2,000	270	270	1,400	<100	--	--	--	
11/27/1995	--		6.00	9.00	7.87	12.88	3,800	890	130	130	550	--	--	--	--	
2/22/1996	--		6.00	9.00	7.29	13.46	940	150	82	19	130	<20	--	--	--	
5/20/1996	--		6.00	9.00	7.30	13.45	6,700	1,100	330	120	1,100	<100	--	--	--	
8/26/1996	--		6.00	9.00	7.57	13.18	14,000	2,400	510	350	2,100	<100	--	--	--	
11/20/1996	--		6.00	9.00	7.89	12.86	420	55	17	11	62	<3	--	--	--	
3/24/1997	--	22.38	6.00	9.00	6.90	15.48	6,800	620	150	81	1,300	<50	--	--	--	
5/23/1997	--		6.00	9.00	7.80	14.58	9,000	1,300	240	200	1,600	<60	--	--	--	
8/19/1997	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/19/1997	--		6.00	9.00	--	--	3700	600	93	120	710	<60	--	--	--	b, j

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-4 Cont.																
2/19/1998	--	22.38	6.00	9.00	6.78	15.60	1,800	93	51	29	420	110	--	--	--	
4/23/1998	--		6.00	9.00	6.47	15.91	6,500	700	110	180	1,300	93	--	0.5	--	
7/27/1998	--		6.00	9.00	7.22	15.16	10,000	1,400	140	290	1,900	<120	--	1.5	--	
10/14/1998	--		6.00	9.00	7.60	14.78	6,500	900	63	200	1,200	63	--	1	--	
1/21/1999	--		6.00	9.00	7.43	14.95	1,700	140	22	56	320	13	--	0.5	--	
5/6/1999	--		6.00	9.00	6.55	15.83	3,300	250	36	73	890	41	--	1.28	--	
8/23/1999	--		6.00	9.00	7.16	15.22	7,400	500	73	230	1,700	57	--	0.89	--	
10/28/1999	--		6.00	9.00	8.28	14.10	370	41	5.7	14	52	16	--	0.92	--	
2/4/2000	--		6.00	9.00	8.23	14.15	310	33	7.5	11	65	8	--	2.43	--	
6/20/2000	--		6.00	9.00	6.46	15.92	2,700	210	20	94	520	46	--	--	--	
9/29/2000	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
12/17/2000	--		6.00	9.00	--	--	--	--	--	--	--	--	--	--	--	b
3/28/2001	--		6.00	9.00	7.49	14.89	--	--	--	--	--	--	--	--	--	b
6/20/2001	--		6.00	9.00	7.21	15.17	13,000	690	170	330	1,400	110	--	--	--	
9/22/2001	--		6.00	9.00	7.43	14.95	6,700	650	110	410	1,800	100	--	--	--	
12/27/2001	--		6.00	9.00	7.32	15.06	1,200	47	15	46	250	15	--	--	--	
3/15/2002	--		6.00	9.00	7.43	14.95	490	34	7.4	26	110	12	--	--	--	
4/18/2002	--		6.00	9.00	7.00	15.38	<50	0.57	0.83	<0.5	1.1	3.7	--	--	--	
7/23/2002	NP		6.00	9.00	7.70	14.68	820	80	12	23	190	41	--	2.2	7.3	d
10/16/2002	NP		6.00	9.00	7.75	14.63	2,000	220	25	140	570	<25	--	1.8	7.6	d
1/23/2003	NP		6.00	9.00	7.11	15.27	<250	<2.5	<2.5	<2.5	8.8	5.9	--	1.7	7	g
4/7/2003	--		6.00	9.00	7.19	15.19	310	24	2.4	15	62	9.2	--	1.1	7.1	
8/7/2003	--		6.00	9.00	7.45	14.93	3,000	280	<25	150	700	<25	--	1.2	6.8	m
10/23/2003	NP		6.00	9.00	7.59	14.79	1,700	150	7.6	83	320	12	--	--	--	m
01/12/2004	NP		6.00	9.00	7.40	14.98	260	4.4	<2.5	<2.5	27	4.3	--	2.4	7.3	
04/20/2004	NP	23.32	6.00	9.00	7.38	15.94	1,500	160	<5.0	50	320	12	--	1.4	7.1	r
07/01/2004	NP		6.00	9.00	7.78	15.54	1,800	150	5.2	16	260	15	--	1.9	7.0	
11/04/2004	NP		6.00	9.00	7.75	15.57	640	38	1.9	2.1	110	5.7	--	1.9	7.0	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-4 Cont.																
01/10/2005	NP	23.32	6.00	9.00	7.54	15.78	<50	1.1	<0.50	<0.50	0.96	2.5	--	1.61	7.0	
04/14/2005	NP		6.00	9.00	7.20	16.12	320	16	0.69	1.4	48	4.5	--	2.5	7.0	
08/02/2005	NP		6.00	9.00	7.35	15.97	1,100	77	2.8	9.0	190	7.1	--	--	6.8	
10/21/2005	NP		6.00	9.00	7.25	16.07	1,700	84	3.9	6.5	250	10	--	1.99	6.9	
01/04/2006	NP		6.00	9.00	7.52	15.80	460	14	<1.0	2.1	72	3.7	--	1.15	7.2	
04/28/2006	NP		6.00	9.00	6.55	16.77	670	17	<1.0	3.7	33	3.7	--	1.39	7.0	
8/4/2006	NP		6.00	9.00	7.00	16.32	2,800	240	9.3	14	280	15	--	1.26	7.1	
10/23/2006	P		6.00	9.00	7.33	15.99	2,100	200	7.8	17	150	16	--	--	7.08	
1/15/2007	--		6.00	9.00	7.60	15.72	--	--	--	--	--	--	--	--	--	
4/17/2007	NP		6.00	9.00	7.47	15.85	110	9.0	<1.0	1.0	4.5	3.5	--	3.79	7.25	
7/9/2007	NP		6.00	9.00	7.55	15.77	1,400	130	5.4	14	96	14	--	3.55	7.40	
10/1/2007	NP		6.00	9.00	7.69	15.63	1,300	120	6.4	12	91	11	--	3.08	7.42	
1/7/2008	NP		6.00	9.00	7.38	15.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.25	7.26	
4/1/2008	NP		6.00	9.00	7.05	16.27	190	<0.50	<0.50	<0.50	<0.50	0.68	--	1.32	7.12	
7/23/2008	--		6.00	9.00	7.36	15.96	--	--	--	--	--	--	--	--	--	c
10/22/2008	--		6.00	9.00	7.41	15.91	--	--	--	--	--	--	--	--	--	c
1/21/2009	--		6.00	9.00	7.39	15.93	--	--	--	--	--	--	--	--	--	c
4/21/2009	NP		6.00	9.00	6.90	16.42	<50	<0.50	<0.50	<0.50	<0.50	1.5	--	1.18	7.28	
7/21/2009	--		6.00	9.00	7.18	16.14	--	--	--	--	--	--	--	--	--	
1/12/2010	--		6.00	9.00	7.23	16.09	--	--	--	--	--	--	--	--	--	
6/3/2010	P		6.00	9.00	6.35	16.97	650	38	<0.50	0.71	<0.50	2.3	--	1.10	7.1	
7/22/2010	--		6.00	9.00	7.34	15.98	--	--	--	--	--	--	--	--	--	
2/18/2011	--		6.00	9.00	6.89	16.43	--	--	--	--	--	--	--	--	--	
8/25/2011	--		6.00	9.00	6.50	16.82	--	--	--	--	--	--	--	--	--	
1/17/2012	--		6.00	9.00	7.07	16.25	--	--	--	--	--	--	--	--	--	
7/24/2012	--		6.00	9.00	6.70	16.62	--	--	--	--	--	--	--	--	--	
MW-5																
6/10/1991	--	20.90	6.00	10.50	7.58	13.32	100,000	25,000	20,000	2,600	12,000	--	--	--	--	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-5 Cont.																
10/10/1991	--	20.90	6.00	10.50	8.51	12.39	--	--	--	--	--	--	--	--	--	a
3/23/1992	--		6.00	10.50	6.06	14.84	150,000	24,000	31,000	4,400	23,000	--	--	--	--	
6/8/1992	--		6.00	10.50	7.66	13.24	120,000	17,000	13,000	2,400	11,000	--	--	--	--	
9/15/1992	--		6.00	10.50	8.40	12.50	--	--	--	--	--	--	--	--	--	l
11/16/1992	--		6.00	10.50	7.70	13.20	110,000	16,000	16,000	3,200	18,000	--	--	--	--	
2/16/1993	--		6.00	10.50	5.64	15.26	150,000	12,000	15,000	3,000	17,000	--	--	--	--	
5/13/1993	--		6.00	10.50	6.68	14.22	--	--	--	--	--	--	--	--	--	l
8/17/1993	--		6.00	10.50	7.49	13.41	87,000	15,000	8,500	1,900	11,000	--	--	--	--	
11/8/1993	--		6.00	10.50	7.93	12.97	87,000	12,000	8,300	2,000	12,000	--	--	--	--	
2/14/1994	--		6.00	10.50	6.49	14.41	46,000	7,300	5,300	940	5,200	--	--	--	--	
5/5/1994	--		6.00	10.50	7.18	13.72	54,000	9,700	4,700	1,000	6,400	--	--	--	--	
8/4/1994	--		6.00	10.50	7.83	13.07	57,000	14,000	3,200	1,200	7,200	--	--	--	--	
11/20/1994	--		6.00	10.50	6.34	14.56	33,000	5,700	1,800	720	4,700	--	--	--	--	
3/17/1995	--		6.00	10.50	5.51	15.39	48,000	6,400	2,000	740	5,100	--	--	--	--	
6/1/1995	--		6.00	10.50	6.55	14.35	76,000	11,000	5,400	1,400	7,700	--	--	--	--	
8/31/1995	--		6.00	10.50	6.80	14.10	53,000	12,000	1,600	1,000	6,000	<500	--	--	--	
11/27/1995	--		6.00	10.50	7.13	13.77	43,000	7,900	3,300	950	4,900	--	--	--	--	
2/22/1996	--		6.00	10.50	5.12	15.78	52,000	9,100	3,300	940	5,000	<500	--	--	--	
5/20/1996	--		6.00	10.50	5.87	15.03	55,000	9,300	3,800	1,100	5,400	<500	--	--	--	
8/26/1996	--		6.00	10.50	7.15	13.75	47,000	5,300	2,100	780	3,200	<300	--	--	--	
11/20/1996	--		6.00	10.50	6.88	14.02	53,000	8,700	5,700	920	4,400	<500	--	--	--	
3/24/1997	--	22.45	6.00	10.50	7.13	15.32	39,000	8,200	3,200	720	3,100	<500	--	--	--	
5/23/1997	--		6.00	10.50	7.42	15.03	29,000	6,600	1,700	400	1,500	<600	--	--	--	
8/19/1997	--		6.00	10.50	7.58	14.87	16,000	4,600	790	<50	1,300	<300	--	--	--	
11/19/1997	--		6.00	10.50	7.58	14.87	22,000	5,800	1,300	380	1,300	<300	--	--	--	
2/19/1998	--		6.00	10.50	4.65	17.80	40,000	5,100	3,800	620	2,900	<300	--	--	--	
4/23/1998	--		6.00	10.50	6.25	16.20	45,000	8,000	4,000	970	4,200	<600	--	1.5	--	
7/27/1998	--		6.00	10.50	6.71	15.74	30,000	8,000	2,000	590	1,900	<600	--	1.5	--	

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-5 Cont.																
10/14/1998	--	22.45	6.00	10.50	7.19	15.26	33,000	7,400	1,900	550	1,700	<300	--	1.5	--	
1/21/1999	--		6.00	10.50	7.03	15.42	34,000	6,200	2,600	630	2,300	<600	--	2.5	--	
5/6/1999	--		6.00	10.50	7.02	15.43	7,900	2,400	200	240	580	12	--	1.07	--	
8/23/1999	--		6.00	10.50	7.04	15.41	25,000	5,800	2,300	570	2,000	67	--	1.04	--	
10/28/1999	--		6.00	10.50	7.90	14.55	20,000	5,900	1,100	450	1,100	<250	--	0.87	--	
2/4/2000	--		6.00	10.50	6.71	15.74	32,000	2,500	3,800	770	4,200	<75	--	2.33	--	
6/20/2000	--		6.00	10.50	6.78	15.67	10,000	3,000	650	260	700	<200	--	--	--	
9/29/2000	--		6.00	10.50	--	--	--	--	--	--	--	--	--	--	--	b
12/17/2000	--		6.00	10.50	--	--	--	--	--	--	--	--	--	--	--	b
3/28/2001	--		6.00	10.50	6.48	15.97	23,400	4,160	3,450	728	3,090	<250	--	--	--	
6/20/2001	--		6.00	10.50	7.26	15.19	120,000	1,200	49	190	540	<100	--	--	--	
9/22/2001	--		6.00	10.50	--	--	--	--	--	--	--	--	--	--	--	b
12/27/2001	--		6.00	10.50	6.56	15.89	16,000	1,500	2,700	730	3,200	<250	--	--	--	
3/15/2002	--		6.00	10.50	6.90	15.55	20,000	2,600	3,300	1,000	4,000	<250	--	--	--	
4/18/2002	--		6.00	10.50	6.17	16.28	17,000	3,200	2,900	790	3,000	<250	--	--	--	
7/23/2002	NP		6.00	10.50	7.36	15.09	4,600	1,400	30	160	470	110	--	1.7	7.5	d
10/16/2002	NP		6.00	10.50	7.66	14.79	5,400	1,300	<20	62	150	<100	--	1.1	7.5	d
1/23/2003	NP		6.00	10.50	6.28	16.17	< 5,000	110	<50	< 50	98	<50	--	1.1	7.6	g
4/7/2003	--		6.00	10.50	7.21	15.24	1,600	310	18	36	62	32	--	1.5	7.2	
8/7/2003	--		6.00	10.50	7.46	14.99	<50	1.8	<0.50	<0.50	<0.50	3.5	--	12.2	9	m
10/23/2003	NP		6.00	10.50	7.68	14.77	76	14	<0.50	0.77	0.61	12	--	--	--	m
01/12/2004	NP		6.00	10.50	6.34	16.11	<50	1.5	0.68	<0.50	0.62	11	--	6.8	8.8	
04/20/2004	NP	23.47	6.00	10.50	8.12	15.35	300	53	13	12	29	12	--	8.9	8.5	r
07/01/2004	NP		6.00	10.50	8.62	14.85	<50	0.56	<0.50	<0.50	<0.50	11	--	10.6	8.5	
11/04/2004	NP		6.00	10.50	7.01	16.46	90	6.3	0.94	1.3	5.7	9.4	--	7.5	7.6	
01/10/2005	NP		6.00	10.50	5.51	17.96	710	0.55	<0.50	0.52	53	40	--	1.54	7.2	
04/14/2005	NP		6.00	10.50	5.67	17.80	1,800	130	5.9	54	350	40	--	2.0	6.8	
08/02/2005	NP		6.00	10.50	5.94	17.53	3,800	210	7.3	250	520	19	--	--	6.9	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-5 Cont.																
10/21/2005	NP	23.47	6.00	10.50	6.69	16.78	4,100	330	7.4	190	420	16	--	1.42	6.9	
01/04/2006	NP		6.00	10.50	5.55	17.92	5,100	580	14	210	420	30	--	0.62	6.8	
04/28/2006	NP		6.00	10.50	5.52	17.95	2,900	190	5.9	59	150	9.9	--	1.74	7.0	
8/4/2006	NP		6.00	10.50	6.51	16.96	3,800	380	7.6	34	140	14	--	0.82	6.9	
10/23/2006	P		6.00	10.50	7.34	16.13	3,300	310	96	70	210	13	--	--	6.99	
1/15/2007	P		6.00	10.50	6.67	16.80	5,600	320	300	220	820	10	--	1.03	7.03	
4/17/2007	NP		6.00	10.50	6.72	16.75	3,400	200	12	160	250	5.9	--	2.25	7.11	
7/9/2007	NP		6.00	10.50	7.30	16.17	2,600	240	7.0	15	63	6.9	--	2.28	7.16	
10/1/2007	NP		6.00	10.50	7.56	15.91	2,300	220	5.4	4.6	13	4.2	--	2.33	7.19	
1/7/2008	NP		6.00	10.50	6.12	17.35	2,100	190	8.8	18	46	4.1	--	1.06	6.97	
4/1/2008	NP		6.00	10.50	6.48	16.99	2,300	87	2.9	27	68	1.8	--	2.50	7.01	
7/23/2008	NP		6.00	10.50	7.16	16.31	2,900	210	<10	52	78	<10	--	1.4	7.03	
10/22/2008	NP		6.00	10.50	7.77	15.70	4,000	310	7.4	<5.0	7.9	<5.0	--	2.64	7.01	
1/21/2009	P		6.00	10.50	7.26	16.21	2,300	51	<5.0	9.4	17	<5.0	--	0.19	7.18	a
4/21/2009	NP		6.00	10.50	6.83	16.64	2,100	0.69	<0.50	<0.50	11	0.74	--	1.54	7.08	
7/21/2009	--		6.00	10.50	7.57	15.90	--	--	--	--	--	--	--	--	--	
1/12/2010	--		6.00	10.50	6.80	16.67	--	--	--	--	--	--	--	--	--	
6/3/2010	P		6.00	10.50	6.38	17.09	6,200	140	18	78	110	<2.5	--	1.77	6.9	
7/22/2010	--		6.00	10.50	7.08	16.39	--	--	--	--	--	--	--	--	--	
2/18/2011	--		6.00	10.50	6.37	17.10	--	--	--	--	--	--	--	--	--	
8/25/2011	--		6.00	10.50	6.90	16.57	--	--	--	--	--	--	--	--	--	
1/17/2012	--		6.00	10.50	7.57	15.90	--	--	--	--	--	--	--	--	--	
7/24/2012	--		6.00	10.50	7.08	16.39	--	--	--	--	--	--	--	--	--	
MW-6																
6/10/1991	--	22.08	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
10/10/1991	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
3/23/1992	--		5.50	9.00	7.45	14.63	75,000	19,000	10,000	1,600	8,600	--	--	--	--	
6/8/1992	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b

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							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-6 Cont.																
9/15/1992	--	22.08	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/16/1992	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
2/16/1993	--		5.50	9.00	6.79	15.29	65,000	14,000	3,500	1,300	6,100	--	--	--	--	
5/13/1993	--		5.50	9.00	7.73	14.35	36,000	8,200	870	1,000	5,200	--	--	--	--	
8/17/1993	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/8/1993	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
2/14/1994	--		5.50	9.00	7.78	14.30	47,000	14,000	390	1,000	5,100	--	--	--	--	
5/5/1994	--		5.50	9.00	8.24	13.84	45,000	14,000	<200	1,300	4,500	--	--	--	--	n
8/4/1994	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/20/1994	--		5.50	9.00	7.41	14.67	30,000	11,000	<100	1,200	2,300	--	--	--	--	n
3/17/1995	--		5.50	9.00	6.66	15.42	45,000	9,300	<100	1,900	3,600	--	--	--	--	n
6/1/1995	--		5.50	9.00	7.60	14.48	23,000	5,600	<50	1,300	1,900	--	--	--	--	
8/31/1995	--		5.50	9.00	7.92	14.16	26,000	8,000	<100	1,900	900	<500	--	--	--	
11/27/1995	--		5.50	9.00	8.21	13.87	6,700	1,800	<20	480	230	--	--	--	--	
2/22/1996	--		5.50	9.00	6.21	15.87	17,000	3,100	69	810	1,500	<300	--	--	--	
5/20/1996	--		5.50	9.00	7.07	15.01	16,000	3,700	<50	1,100	1,100	<300	--	--	--	
8/26/1996	--		5.50	9.00	7.93	14.15	23,000	5,800	<50	2,000	560	<300	--	--	--	
11/20/1996	--		5.50	9.00	8.02	14.06	11,000	3,300	<50	480	370	<300	--	--	--	j
3/24/1997	--	22.77	5.50	9.00	7.95	14.82	9,700	1,900	<20	800	270	<100	--	--	--	
5/23/1997	--		5.50	9.00	8.17	14.60	16,000	4,300	<50	1,400	180	<300	--	--	--	
8/19/1997	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/19/1997	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
2/19/1998	--		5.50	9.00	5.78	16.99	2,600	540	8	90	88	<30	--	--	--	
4/23/1998	--		5.50	9.00	6.83	15.94	7,600	1,300	13	520	190	<60	--	0.5	--	
7/27/1998	--		5.50	9.00	7.80	14.97	15,000	3,600	<25	1,100	230	<150	--	1	--	
10/14/1998	--		5.50	9.00	8.31	14.46	8,700	2,400	<20	220	36	<120	--	2	--	
1/21/1999	--		5.50	9.00	7.90	14.87	4,800	1,100	<25	340	79	<150	--	2	--	
5/6/1999	--		5.50	9.00	7.70	15.07	1,300	240	2.3	85	19	5	--	1.18	--	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-6 Cont.																
8/23/1999	--	22.77	5.50	9.00	8.24	14.53	4,200	970	12	110	29	<15	--	0.9	--	
10/28/1999	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
2/4/2000	--		5.50	9.00	7.31	15.46	110	<0.5	0.6	1.5	1.9	11	--	1.1	--	
6/20/2000	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
9/29/2000	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
12/17/2000	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
3/28/2001	--		5.50	9.00	7.57	15.20	--	--	--	--	--	--	--	--	--	b
6/20/2001	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
9/22/2001	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
12/27/2001	--		5.50	9.00	7.21	15.56	<50	2.6	0.57	1.1	1.6	<2.5	--	--	--	
3/15/2002	--		5.50	9.00	7.51	15.26	2,100	380	8.6	110	17	<25	--	--	--	
4/18/2002	--		5.50	9.00	6.89	15.88	2,200	440	12	96	14	52	--	--	--	
7/23/2002	NP		5.50	9.00	8.50	14.27	--	--	--	--	--	--	--	--	--	
10/16/2002	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
1/23/2003	--		5.50	9.00	8.05	14.72	< 250	58	<2.5	6.2	3.8	17	--	2.1	--	g, h
1/23/2003	NP		5.50	9.00	8.05	14.72	< 5,000	< 50	<50	< 50	<50	<50	--	2.1	6.4	g
4/7/2003	--		5.50	9.00	8.11	14.66	330	13	<0.50	2.7	8.6	15	--	2.2	6.9	
8/7/2003	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
10/23/2003	NP		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	
01/12/2004	NP		5.50	9.00	7.63	15.14	3,600	560	<25	120	<25	150	--	0.6	7.1	
04/20/2004	NP	24.66	5.50	9.00	8.54	16.12	--	--	--	--	--	--	--	--	--	c, r
07/01/2004	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
11/04/2004	NP		5.50	9.00	8.10	16.56	4,900	580	<10	180	30	230	--	2.9	6.9	
01/10/2005	NP		5.50	9.00	7.03	17.63	5,400	540	<25	150	46	240	--	1.29	6.9	
04/14/2005	NP		5.50	9.00	6.85	17.81	3,600	410	5.2	100	25	210	--	2.7	--	
08/02/2005	NP		5.50	9.00	7.28	17.38	4,300	340	<5.0	110	44	150	--	--	6.8	
10/21/2005	NP		5.50	9.00	7.38	17.28	3,400	250	<5.0	80	20	110	--	2.38	6.8	
01/04/2006	NP		5.50	9.00	7.20	17.46	2,800	270	4.0	75	14	130	--	1.07	7.3	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-6 Cont.																
04/28/2006	NP	24.66	5.50	9.00	6.60	18.06	4,400	170	<2.5	45	7.2	170	--	1.3	6.8	
8/4/2006	NP		5.50	9.00	7.50	17.16	2,200	93	<2.5	15	9.0	110	--	1.23	6.7	
10/23/2006	--		5.50	9.00	8.48	16.18	--	--	--	--	--	--	--	--	--	
1/15/2007	--		5.50	9.00	8.05	16.61	--	--	--	--	--	--	--	--	--	
4/17/2007	NP		5.50	9.00	7.58	17.08	330	5.6	<1.0	1.5	1.2	24	--	1.82	7.02	
7/9/2007	NP		5.50	9.00	8.34	16.32	1,600	63	1.4	16	9.4	51	--	1.73	7.13	
10/1/2007	--		5.50	9.00	8.60	16.06	--	--	--	--	--	--	--	--	--	
1/7/2008	NP		5.50	9.00	7.22	17.44	300	2.2	<0.50	2.8	1.0	37	--	3.24	7.16	
4/1/2008	NP		5.50	9.00	7.87	16.79	110	<0.50	<0.50	<0.50	<0.50	1.4	--	6.21	7.19	
7/23/2008	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
10/22/2008	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
1/21/2009	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
4/21/2009	--		5.50	9.00	7.91	16.75	--	--	--	--	--	--	--	--	--	c
7/21/2009	--		5.50	9.00	--	--	--	--	--	--	--	--	--	--	--	b
1/12/2010	--		5.50	9.00	8.11	16.55	--	--	--	--	--	--	--	--	--	
6/3/2010	--		5.50	9.00	7.45	17.21	--	--	--	--	--	--	--	--	--	
7/22/2010	--		5.50	9.00	8.19	16.47	--	--	--	--	--	--	--	--	--	
2/18/2011	--		5.50	9.00	7.48	17.18	--	--	--	--	--	--	--	--	--	
8/25/2011	--		5.50	9.00	6.99	17.67	--	--	--	--	--	--	--	--	--	
1/17/2012	--		5.50	9.00	8.63	16.03	--	--	--	--	--	--	--	--	--	
7/24/2012	--		5.50	9.00	8.25	16.41	--	--	--	--	--	--	--	--	--	
MW-7																
6/10/1991	--	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
10/10/1991	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
3/23/1992	--		8.00	10.00	8.20	14.69	270	10	0.5	3	13	--	--	--	--	
6/8/1992	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
9/15/1992	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
11/16/1992	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-7 Cont.																
2/16/1993	--	22.89	8.00	10.00	7.84	15.05	120	3.6	<0.5	<0.5	1.2	--	--	--	--	
5/13/1993	--		8.00	10.00	8.56	14.33	<50	0.8	<0.5	<0.5	<0.5	--	--	--	--	
8/17/1993	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
11/8/1993	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
2/14/1994	--		8.00	10.00	8.80	14.09	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/5/1994	--		8.00	10.00	9.11	13.78	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/4/1994	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
11/20/1994	--		8.00	10.00	8.72	14.17	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
3/17/1995	--		8.00	10.00	7.68	15.21	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		8.00	10.00	8.40	14.49	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/31/1995	--		8.00	10.00	9.09	13.80	<50	<0.5	<0.5	0.6	<0.5	<3	--	--	--	
11/27/1995	--		8.00	10.00	9.15	13.74	<50	<0.5	<0.5	0.9	<0.5	--	--	--	--	
2/22/1996	--		8.00	10.00	7.44	15.45	110	1.4	<0.5	3.8	3	<3	--	--	--	
5/20/1996	--		8.00	10.00	8.47	14.42	--	--	--	--	--	--	--	--	--	
8/26/1996	--		8.00	10.00	8.81	14.08	--	--	--	--	--	--	--	--	--	
11/20/1996	--		8.00	10.00	9.17	13.72	--	--	--	--	--	--	--	--	--	
3/24/1997	--		8.00	10.00	8.31	14.58	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/23/1997	--		8.00	10.00	9.26	13.63	--	--	--	--	--	--	--	--	--	
8/19/1997	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
11/19/1997	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
2/19/1998	--		8.00	10.00	6.13	16.76	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
4/23/1998	--		8.00	10.00	7.44	15.45	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.5	--	
7/27/1998	--		8.00	10.00	8.75	14.14	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--	
10/14/1998	--		8.00	10.00	9.22	13.67	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--	
1/21/1999	--		8.00	10.00	9.07	13.82	52	<0.5	<0.5	<0.5	0.27	<3	--	3.0	--	
5/6/1999	--		8.00	10.00	8.32	14.57	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.83	--	
8/23/1999	--		8.00	10.00	9.25	13.64	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.42	--	
10/28/1999	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-7 Cont.																
2/4/2000	--	22.89	8.00	10.00	8.79	14.10	<50	<0.5	<0.5	<0.5	<1	<3	--	4.46	--	
6/20/2000	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
9/29/2000	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
12/17/2000	--		8.00	10.00	8.93	13.96	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/28/2001	--		8.00	10.00	8.35	14.54	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
9/22/2001	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
12/27/2001	--		8.00	10.00	8.42	14.47	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/15/2002	--		8.00	10.00	8.54	14.35	<50	1.3	2.6	1.1	5.4	<2.5	--	--	--	
4/18/2002	--		8.00	10.00	7.84	15.05	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	3.32	--	
7/23/2002	NP		8.00	10.00	9.51	13.38	--	--	--	--	--	--	--	--	--	
10/16/2002	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
1/23/2003	NP		8.00	10.00	8.04	14.85	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	5.4	6.7	g
4/7/2003	--		8.00	10.00	8.39	14.50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	5.1	6.9	
8/7/2003	--		8.00	10.00	9.01	13.88	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	4.5	6.9	
10/23/2003	NP		8.00	10.00	9.22	13.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	
01/12/2004	NP		8.00	10.00	8.81	14.08	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	5.8	7.3	
04/20/2004	NP	25.46	8.00	10.00	8.95	16.51	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	5.6	7.2	r
07/01/2004	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
11/04/2004	NP		8.00	10.00	9.04	16.42	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	5.4	7.1	
01/10/2005	NP		8.00	10.00	8.25	17.21	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	7.02	7.0	
04/14/2005	--		8.00	10.00	7.95	17.51	--	--	--	--	--	--	--	--	--	
08/02/2005	NP		8.00	10.00	8.40	17.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	6.8	
10/21/2005	--		8.00	10.00	8.92	16.54	--	--	--	--	--	--	--	--	--	
01/04/2006	--		8.00	10.00	8.62	16.84	--	--	--	--	--	--	--	--	--	
04/28/2006	--		8.00	10.00	7.78	17.68	--	--	--	--	--	--	--	--	--	
8/4/2006	NP		8.00	10.00	8.78	16.68	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	4.49	7.2	
10/23/2006	--		8.00	10.00	9.39	16.07	--	--	--	--	--	--	--	--	--	

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-7 Cont.																
1/15/2007	--	25.46	8.00	10.00	9.06	16.40	--	--	--	--	--	--	--	--	--	
4/17/2007	--		8.00	10.00	9.12	16.34	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
10/1/2007	--		8.00	10.00	9.60	15.86	--	--	--	--	--	--	--	--	--	
1/7/2008	--		8.00	10.00	8.99	16.47	--	--	--	--	--	--	--	--	--	
4/1/2008	--		8.00	10.00	8.35	17.11	--	--	--	--	--	--	--	--	--	
7/23/2008	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
10/22/2008	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
1/21/2009	--		8.00	10.00	9.35	16.11	--	--	--	--	--	--	--	--	--	
4/21/2009	--		8.00	10.00	8.72	16.74	--	--	--	--	--	--	--	--	--	
7/21/2009	--		8.00	10.00	--	--	--	--	--	--	--	--	--	--	--	b
1/12/2010	--		8.00	10.00	9.11	16.35	--	--	--	--	--	--	--	--	--	
6/3/2010	--		8.00	10.00	8.34	17.12	--	--	--	--	--	--	--	--	--	
7/22/2010	--		8.00	10.00	9.13	16.33	--	--	--	--	--	--	--	--	--	
2/18/2011	--		8.00	10.00	8.51	16.95	--	--	--	--	--	--	--	--	--	
8/25/2011	--		8.00	10.00	9.11	16.35	--	--	--	--	--	--	--	--	--	
1/17/2012	--		8.00	10.00	9.49	15.97	--	--	--	--	--	--	--	--	--	
7/24/2012	--		8.00	10.00	8.77	16.69	--	--	--	--	--	--	--	--	--	
MW-8																
6/10/1991	--	20.97	6.50	10.50	7.80	13.17	5,800	73	7.2	150	21	--	--	--	--	
10/10/1991	--		6.50	10.50	8.87	12.10	2,800	31	6.1	4.5	3.9	--	--	--	--	
3/23/1992	--		6.50	10.50	5.81	15.16	8,000	18	<5	320	42	--	--	--	--	n
6/8/1992	--		6.50	10.50	8.01	12.96	4,000	<10	<10	110	<10	--	--	--	--	n
9/15/1992	--		6.50	10.50	8.80	12.17	4,200	6.4	<5	120	<5	--	--	--	--	n
11/16/1992	--		6.50	10.50	8.19	12.78	2,600	4	<2.5	21	5.2	--	--	--	--	n
2/16/1993	--		6.50	10.50	5.84	15.13	8,700	<5	<5	200	<5	--	--	--	--	n
5/13/1993	--		6.50	10.50	6.93	14.04	2,300	<5	<5	42	<5	--	--	--	--	n
8/17/1993	--		6.50	10.50	7.87	13.10	1,700	1.8	<1.3	16	1.2	--	--	--	--	n

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-8 Cont.																
11/8/1993	--	20.97	6.50	10.50	8.31	12.66	1,200	2.4	<1	19	2.3	--	--	--	--	n
2/14/1994	--		6.50	10.50	7.00	13.97	3,600	3	<1	72	<1	--	--	--	--	n
5/5/1994	--		6.50	10.50	7.46	13.51	2,100	<2.5	<2.5	8.3	<2.5	--	--	--	--	n
8/4/1994	--		6.50	10.50	8.17	12.80	1,200	1.5	<1	6.7	<1	--	--	--	--	n
11/20/1994	--		6.50	10.50	6.78	14.19	2,300	1.2	1.1	20	2.2	--	--	--	--	
3/17/1995	--		6.50	10.50	6.14	14.83	5,400	<5	<5	35	<5	--	--	--	--	n
6/1/1995	--		6.50	10.50	6.50	14.47	2,600	<2.5	<2.5	15	<2.5	--	--	--	--	
8/31/1995	--		6.50	10.50	7.35	13.62	1,400	<3	<3	5	<3	520	--	--	--	
11/27/1995	--		6.50	10.50	7.60	13.37	620	<0.5	<0.5	<0.5	0.5	560	--	--	--	
2/22/1996	--		6.50	10.50	5.35	15.62	5,800	<5	<5	28	<5	110	--	--	--	
5/20/1996	--		6.50	10.50	5.92	15.05	6,100	<5	<5	26	<5	240	--	--	--	
8/26/1996	--		6.50	10.50	7.08	13.89	970	<1	<1	3	<1	710	--	--	--	
11/20/1996	--		6.50	10.50	7.01	13.96	3,900	<2.5	<2.5	12	<2.5	930	--	--	--	
3/24/1997	--	20.89	6.50	10.50	7.33	13.56	1,400	<10	<10	<10	12	1,300	--	--	--	
5/23/1997	--		6.50	10.50	7.55	13.34	730	<5	<5	<5	<5	630	--	--	--	
8/19/1997	--		6.50	10.50	7.87	13.02	<500	<5	<5	<5	<5	290	--	--	--	
11/19/1997	--		6.50	10.50	7.87	13.02	<200	<2	<2	<2	<2	260	--	--	--	
2/19/1998	--		6.50	10.50	4.46	16.43	2,000	<2	<2	9	<2	140	--	--	--	
4/23/1998	--		6.50	10.50	6.35	14.54	4,500	<5	<5	<5	11	590	--	0.5	--	
7/27/1998	--		6.50	10.50	7.43	13.46	--	--	--	--	--	--	--	--	--	
10/14/1998	--		6.50	10.50	7.79	13.10	--	--	--	--	--	--	--	--	--	
1/21/1999	--		6.50	10.50	6.54	14.35	2,000	<2	<2	3	<2	320	--	2.5	--	
5/6/1999	--		6.50	10.50	7.30	13.59	<50	<0.5	<0.5	<0.5	<0.5	160	--	12.76	--	
8/23/1999	--		6.50	10.50	7.45	13.44	<50	<0.5	<0.5	<0.5	<0.5	5	--	7.85	--	
10/28/1999	--		6.50	10.50	8.22	12.67	160	<0.5	<0.5	<0.5	<1	45	--	0.84	--	
2/4/2000	--		6.50	10.50	8.47	12.42	<50	<0.5	<0.5	<0.5	<1	<3	--	1.92	--	
6/20/2000	--		6.50	10.50	7.23	13.66	150	<0.5	0.9	<0.5	<1.0	310	--	--	--	
9/29/2000	--		6.50	10.50	7.91	12.98	149	<0.5	<0.5	<0.5	<0.5	438	--	--	--	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-8 Cont.																
12/17/2000	--	20.89	6.50	10.50	7.11	13.78	662	<5.0	<5.0	<5.0	<5.0	273	--	--	--	
3/28/2001	--		6.50	10.50	6.88	14.01	840	<5.0	<5.0	<5.0	<5.0	320	--	--	--	
6/20/2001	--		6.50	10.50	7.25	13.64	230	<0.5	<0.5	<0.5	0.65	330	--	--	--	
9/22/2001	--		6.50	10.50	8.14	12.75	<50	<0.5	<0.5	<0.5	<0.5	6.5	--	--	--	
12/27/2001	--		6.50	10.50	6.73	14.16	780	<0.5	<0.5	0.6	0.89	160	--	--	--	
3/15/2002	--		6.50	10.50	6.94	13.95	1,100	<10	<10	<10	<10	830	--	--	--	
4/18/2002	--		6.50	10.50	--	--	--	--	--	--	--	--	--	--	--	
7/23/2002	NP		6.50	10.50	7.89	13.00	<50	<0.50	<0.50	<0.50	<0.50	8.7	--	4.5	7.7	
10/16/2002	NP		6.50	10.50	8.13	12.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	4.2	7.5	
1/23/2003	NP		6.50	10.50	6.47	14.42	<50	<0.50	<0.50	<0.50	<0.50	2.6	--	4.0	7.5	g
4/7/2003	--		6.50	10.50	7.49	13.40	<50	<0.50	<0.50	<0.50	<0.50	19	--	4.7	7.5	
8/7/2003	--		6.50	10.50	7.93	12.96	<50	<0.50	<0.50	<0.50	<0.50	0.96	--	14.8	8.3	m
10/23/2003	NP		6.50	10.50	7.83	13.06	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	--	--	
01/12/2004	NP		6.50	10.50	6.62	14.27	<50	<0.50	<0.50	<0.50	<0.50	13	--	11.2	9.0	
04/20/2004	NP	23.55	6.50	10.50	8.21	15.34	55	<0.50	<0.50	<0.50	<0.50	25	--	10.1	8.7	r
07/01/2004	NP		6.50	10.50	8.48	15.07	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	14.3	8.0	
11/04/2004	NP		6.50	10.50	7.19	16.36	<50	<0.50	<0.50	<0.50	<0.50	13	--	12.0	7.9	
01/10/2005	NP		6.50	10.50	5.42	18.13	<50	<0.50	<0.50	<0.50	<0.50	10	--	2.65	7.1	
04/14/2005	--		6.50	10.50	5.74	17.81	--	--	--	--	--	--	--	--	--	
08/02/2005	NP		6.50	10.50	6.60	16.95	<50	<0.50	<0.50	<0.50	<0.50	16	--	--	7.1	
10/21/2005	--		6.50	10.50	--	--	--	--	--	--	--	--	--	--	--	Well inaccessible p
01/04/2006	--		6.50	10.50	4.97	18.58	--	--	--	--	--	--	--	--	--	
04/28/2006	--		6.50	10.50	5.67	17.88	--	--	--	--	--	--	--	--	--	
8/4/2006	NP		6.50	10.50	7.37	16.18	<50	<0.50	<0.50	<0.50	<0.50	16	--	0.76	7.3	
10/23/2006	--		6.50	10.50	7.74	15.81	--	--	--	--	--	--	--	--	--	
1/15/2007	--		6.50	10.50	7.04	16.51	--	--	--	--	--	--	--	--	--	
4/17/2007	--		6.50	10.50	6.94	16.61	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		6.50	10.50	7.71	15.84	<50	<0.50	<0.50	<0.50	<0.50	17	--	1.90	7.25	

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-8 Cont.																
10/1/2007	--	23.55	6.50	10.50	8.00	15.55	--	--	--	--	--	--	--	--	--	
1/7/2008	--		6.50	10.50	5.79	17.76	--	--	--	--	--	--	--	--	--	
4/1/2008	--		6.50	10.50	6.89	16.66	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		6.50	10.50	7.80	15.75	<50	<0.50	<0.50	<0.50	<0.50	8.6	--	1.62	7.08	
10/22/2008	--		6.50	10.50	8.19	15.36	--	--	--	--	--	--	--	--	--	
1/21/2009	--		6.50	10.50	7.75	15.80	--	--	--	--	--	--	--	--	--	
4/21/2009	--		6.50	10.50	6.66	16.89	--	--	--	--	--	--	--	--	--	
7/21/2009	P		6.50	10.50	7.86	15.69	<50	<0.50	<0.50	<0.50	<0.50	3.3	--	13.97	7.56	
1/12/2010	--		6.50	10.50	6.89	16.66	--	--	--	--	--	--	--	--	--	
6/3/2010	--		6.50	10.50	6.45	17.10	--	--	--	--	--	--	--	--	--	
7/22/2010	NP		6.50	10.50	7.21	16.34	<50	<0.50	<0.50	<0.50	<0.50	4.3	--	1.05	7.39	
2/18/2011	--		6.50	10.50	6.55	17.00	--	--	--	--	--	--	--	--	--	
8/25/2011	P		6.50	10.50	7.12	16.43	<50	<0.50	<0.50	<0.50	<0.50	0.52	--	0.68	7.5	
1/17/2012	--		6.50	10.50	8.06	15.49	--	--	--	--	--	--	--	--	--	
7/24/2012	P		6.50	10.50	7.40	16.15	<50	<0.50	<0.50	<0.50	<1.0	1.4	--	0.84	7.30	
MW-9																
6/11/1993	--	20.89	6.00	19.50	8.15	12.74	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/17/1993	--		6.00	19.50	8.53	12.36	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
11/8/1993	--		6.00	19.50	8.87	12.02	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
2/14/1994	--		6.00	19.50	7.47	13.42	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
5/5/1994	--		6.00	19.50	8.04	12.85	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/4/1994	--		6.00	19.50	8.78	12.11	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
11/20/1994	--		6.00	19.50	6.83	14.06	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
3/17/1995	--		6.00	19.50	6.94	13.95	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
6/1/1995	--		6.00	19.50	8.15	12.74	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/31/1995	--		6.00	19.50	8.10	12.79	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/27/1995	--		6.00	19.50	8.38	12.51	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
2/22/1996	--		6.00	19.50	7.36	13.53	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	

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							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-9 Cont.																
5/20/1996	--	20.89	6.00	19.50	7.81	13.08	--	--	--	--	--	--	--	--	--	
8/26/1996	--		6.00	19.50	8.00	12.89	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/20/1996	--		6.00	19.50	7.06	13.83	--	--	--	--	--	--	--	--	--	
3/24/1997	--	22.26	6.00	19.50	7.74	14.52	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
5/23/1997	--		6.00	19.50	8.28	13.98	--	--	--	--	--	--	--	--	--	
8/19/1997	--		6.00	19.50	8.32	13.94	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/19/1997	--		6.00	19.50	8.32	13.94	--	--	--	--	--	--	--	--	--	
2/19/1998	--		6.00	19.50	7.11	15.15	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
4/23/1998	--		6.00	19.50	8.18	14.08	--	--	--	--	--	--	--	--	--	
7/27/1998	--		6.00	19.50	7.97	14.29	<50	<0.50	<0.50	<0.50	<0.50	<3	--	3.6	--	
10/14/1998	--		6.00	19.50	8.29	13.97	<50	<0.50	<0.50	<0.50	<0.50	<3	--	2.5	--	
1/21/1999	--		6.00	19.50	7.63	14.63	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.5	--	
5/6/1999	--		6.00	19.50	7.27	14.99	--	--	--	--	--	--	--	--	--	
8/23/1999	--		6.00	19.50	8.24	14.02	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.93	--	
10/28/1999	--		6.00	19.50	8.63	13.63	--	--	--	--	--	--	--	--	--	
2/4/2000	--		6.00	19.50	8.01	14.25	<50	<0.50	1.6	<0.50	<1	<3	--	1.47	--	
6/20/2000	--		6.00	19.50	8.01	14.25	--	--	--	--	--	--	--	--	--	
9/29/2000	--		6.00	19.50	8.44	13.82	<50	<0.5	<0.5	<0.5	<0.5	3.44	--	--	--	
12/17/2000	--		6.00	19.50	7.84	14.42	--	--	--	--	--	--	--	--	--	
3/28/2001	--		6.00	19.50	7.58	14.68	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		6.00	19.50	7.75	14.51	--	--	--	--	--	--	--	--	--	
9/22/2001	--		6.00	19.50	8.69	13.57	<50	<0.5	<0.5	<0.5	<0.5	7.8	--	--	--	
12/27/2001	--		6.00	19.50	7.15	15.11	--	--	--	--	--	--	--	--	--	
3/15/2002	--		6.00	19.50	7.23	15.03	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		6.00	19.50	6.79	15.47	--	--	--	--	--	--	--	--	--	
7/23/2002	P		6.00	19.50	8.30	13.96	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	1.4	7.2	
10/16/2002	--		6.00	19.50	8.64	13.62	--	--	--	--	--	--	--	--	--	
1/23/2003	P		6.00	19.50	7.35	14.91	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	3.0	7.2	g

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							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-9 Cont.																
4/7/2003	--	22.26	6.00	19.50	7.81	14.45	--	--	--	--	--	--	--	--	--	
8/7/2003	--		6.00	19.50	8.31	13.95	--	--	--	--	--	--	--	--	--	
10/23/2003	--		6.00	19.50	8.48	13.78	--	--	--	--	--	--	--	--	--	
01/12/2004	--		6.00	19.50	7.46	14.80	--	--	--	--	--	--	--	--	--	
04/20/2004	--	23.64	6.00	19.50	8.65	14.99	--	--	--	--	--	--	--	--	--	r
07/01/2004	P		6.00	19.50	9.03	14.61	<50	<0.50	<0.50	<0.50	<0.50	3.2	--	1.3	6.9	
11/04/2004	--		6.00	19.50	7.60	16.04	--	--	--	--	--	--	--	--	--	
01/10/2005	--		6.00	19.50	6.24	17.40	--	--	--	--	--	--	--	--	--	
04/14/2005	--		6.00	19.50	6.90	16.74	--	--	--	--	--	--	--	--	--	
08/02/2005	NP		6.00	19.50	7.60	16.04	<50	<0.50	<0.50	<0.50	<0.50	3.8	--	--	7.0	
10/21/2005	--		6.00	19.50	8.09	15.55	--	--	--	--	--	--	--	--	--	
01/04/2006	--		6.00	19.50	6.15	17.49	--	--	--	--	--	--	--	--	--	
04/28/2006	--		6.00	19.50	6.95	16.69	--	--	--	--	--	--	--	--	--	
8/4/2006	NP		6.00	19.50	7.90	15.74	<50	<0.50	<0.50	<0.50	<0.50	4.0	--	1.23	7.3	
10/23/2006	--		6.00	19.50	8.30	15.34	--	--	--	--	--	--	--	--	--	
1/15/2007	--		6.00	19.50	8.82	14.82	--	--	--	--	--	--	--	--	--	
4/17/2007	--		6.00	19.50	7.89	15.75	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		6.00	19.50	8.28	15.36	<50	<0.50	<0.50	<0.50	<0.50	2.0	--	1.80	7.31	
10/1/2007	--		6.00	19.50	8.50	15.14	--	--	--	--	--	--	--	--	--	
1/7/2008	--		6.00	19.50	8.38	15.26	--	--	--	--	--	--	--	--	--	
4/1/2008	--		6.00	19.50	7.92	15.72	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		6.00	19.50	8.16	15.48	<50	<0.50	<0.50	<0.50	<0.50	5.0	--	1.39	7.23	
10/22/2008	--		6.00	19.50	8.71	14.93	--	--	--	--	--	--	--	--	--	
1/21/2009	--		6.00	19.50	8.30	15.34	--	--	--	--	--	--	--	--	--	
4/21/2009	--		6.00	19.50	7.84	15.80	--	--	--	--	--	--	--	--	--	
7/21/2009	NP		6.00	19.50	8.35	15.29	<50	<0.50	<0.50	<0.50	<0.50	2.6	--	8.05	7.63	
1/12/2010	--		6.00	19.50	7.61	16.03	--	--	--	--	--	--	--	--	--	
6/3/2010	--		6.00	19.50	7.62	16.02	--	--	--	--	--	--	--	--	--	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-9 Cont.																
7/22/2010	NP	23.64	6.00	19.50	8.13	15.51	56	<0.50	<0.50	<0.50	<0.50	4.5	--	0.88	7.03	w
2/18/2011	--		6.00	19.50	6.54	17.10	--	--	--	--	--	--	--	--	--	
8/25/2011	P		6.00	19.50	8.05	15.59	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	0.60	7.2	
1/17/2012	--		6.00	19.50	8.63	15.01	--	--	--	--	--	--	--	--	--	
7/24/2012	P		6.00	19.50	8.07	15.57	<50	<0.50	<0.50	<0.50	<1.0	3.6	--	1.37	7.29	
MW-10																
6/11/1993	--	21.12	6.00	16.50	8.14	12.98	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/17/1993	--		6.00	16.50	8.54	12.58	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
11/8/1993	--		6.00	16.50	8.70	12.42	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
2/14/1994	--		6.00	16.50	7.13	13.99	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
5/5/1994	--		6.00	16.50	8.08	13.04	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/4/1994	--		6.00	16.50	8.84	12.28	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
11/20/1994	--		6.00	16.50	7.05	14.07	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
3/17/1995	--		6.00	16.50	6.26	14.86	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
6/1/1995	--		6.00	16.50	7.63	13.49	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
8/31/1995	--		6.00	16.50	8.17	12.95	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/27/1995	--		6.00	16.50	8.38	12.74	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--	
2/22/1996	--		6.00	16.50	5.41	15.71	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
5/20/1996	--		6.00	16.50	6.78	14.34	--	--	--	--	--	--	--	--	--	
8/26/1996	--		6.00	16.50	8.00	13.12	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/20/1996	--		6.00	16.50	7.81	13.31	--	--	--	--	--	--	--	--	--	
3/24/1997	--	21.33	6.00	16.50	7.87	13.46	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
5/23/1997	--		6.00	16.50	8.33	13.00	--	--	--	--	--	--	--	--	--	
8/19/1997	--		6.00	16.50	8.39	12.94	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
11/19/1997	--		6.00	16.50	8.39	12.94	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
2/19/1998	--		6.00	16.50	4.65	16.68	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--	
4/23/1998	--		6.00	16.50	6.28	15.05	<50	<0.50	<0.50	<0.50	<0.50	<3	--	0.5	--	
7/27/1998	--		6.00	16.50	7.97	13.36	<50	<0.50	<0.50	<0.50	<0.50	<3	--	3.3	--	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-10 Cont.																
10/14/1998	--	21.33	6.00	16.50	8.41	12.92	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.0	--	
1/21/1999	--		6.00	16.50	6.65	14.68	<50	<0.50	<0.50	<0.50	<0.50	<3	--	0.5	--	
5/6/1999	--		6.00	16.50	7.74	13.59	<50	<0.50	<0.50	<0.50	<0.50	<3	--	0.76	--	
8/23/1999	--		6.00	16.50	8.37	12.96	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.21	--	
10/28/1999	--		6.00	16.50	8.73	12.60	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.12	--	
2/4/2000	--		6.00	16.50	8.78	12.55	<50	<0.50	<0.50	<0.50	<0.50	<3	--	2.84	--	
6/20/2000	--		6.00	16.50	7.99	13.34	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	--	--	--	
9/29/2000	--		6.00	16.50	8.40	12.93	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
12/17/2000	--		6.00	16.50	7.91	13.42	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/28/2001	--		6.00	16.50	7.47	13.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		6.00	16.50	8.11	13.22	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
9/22/2001	--		6.00	16.50	8.77	12.56	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
12/27/2001	--		6.00	16.50	6.94	14.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/15/2002	--		6.00	16.50	7.48	13.85	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		6.00	16.50	6.77	14.56	<50	<0.5	<0.5	<0.5	<0.5	3.8	--	1.22	--	
7/23/2002	NP		6.00	16.50	8.42	12.91	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	1.0	7.2	
10/16/2002	NP		6.00	16.50	8.77	12.56	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	1.0	6.4	
1/23/2003	NP		6.00	16.50	7.12	14.21	<50	<0.50	<0.50	<0.50	<0.50	1.4	--	1.3	7.4	g
4/7/2003	--		6.00	16.50	7.73	13.60	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	1.3	7.0	
8/7/2003	--		6.00	16.50	8.45	12.88	<50	<0.50	<0.50	<0.50	<0.50	1.5	--	1.3	7.3	
10/23/2003	--		6.00	16.50	8.71	12.62	--	--	--	--	--	--	--	--	--	
01/12/2004	NP		6.00	16.50	7.25	14.08	<50	<0.50	<0.50	<0.50	<0.50	1.7	--	8.2	7.5	
04/20/2004	--	23.42	6.00	16.50	8.15	15.27	--	--	--	--	--	--	--	--	--	r
07/01/2004	NP		6.00	16.50	8.90	14.52	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	1.0	7.1	
11/04/2004	--		6.00	16.50	7.68	15.74	--	--	--	--	--	--	--	--	--	
01/10/2005	NP		6.00	16.50	6.13	17.29	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	0.9	7.3	
04/14/2005	--		6.00	16.50	6.68	16.74	--	--	--	--	--	--	--	--	--	
08/02/2005	NP		6.00	16.50	7.54	15.88	<50	<0.50	<0.50	<0.50	<0.50	1.7	--	--	7.1	

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-10 Cont.																
10/21/2005	--	23.42	6.00	16.50	8.12	15.30	--	--	--	--	--	--	--	--	--	
01/04/2006	NP		6.00	16.50	5.40	18.02	<50	<0.50	<0.50	<0.50	<0.50	2.0	--	1.4	7.3	
04/28/2006	--		6.00	16.50	6.65	16.77	--	--	--	--	--	--	--	--	--	
8/4/2006	NP		6.00	16.50	8.92	14.50	<50	<0.50	<0.50	<0.50	<0.50	1.8	--	0.87	7.3	
10/23/2006	--		6.00	16.50	8.23	15.19	--	--	--	--	--	--	--	--	--	
1/15/2007	P		6.00	16.50	7.47	15.95	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	1.15	7.21	
4/17/2007	--		6.00	16.50	7.74	15.68	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		6.00	16.50	8.35	15.07	<50	<0.50	<0.50	<0.50	<0.50	2.0	--	2.71	7.48	
10/1/2007	--		6.00	16.50	8.74	14.68	--	--	--	--	--	--	--	--	--	
1/7/2008	NP		6.00	16.50	6.02	17.40	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	1.22	7.41	
4/1/2008	--		6.00	16.50	8.97	14.45	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		6.00	16.50	8.62	14.80	<50	<0.50	<0.50	<0.50	<0.50	1.9	--	1.2	7.35	
10/22/2008	--		6.00	16.50	9.02	14.40	--	--	--	--	--	--	--	--	--	
1/21/2009	P		6.00	16.50	8.55	14.87	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	0.57	7.45	
4/21/2009	--		6.00	16.50	8.15	15.27	--	--	--	--	--	--	--	--	--	
7/21/2009	NP		6.00	16.50	8.81	14.61	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	7.60	7.77	
1/12/2010	P		6.00	16.50	7.90	15.52	<50	<0.50	<0.50	<0.50	<0.50	1.3	--	2.20	7.0	
6/3/2010	--		6.00	16.50	7.53	15.89	--	--	--	--	--	--	--	--	--	
7/22/2010	NP		6.00	16.50	8.24	15.18	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	--	--	
2/18/2011	NP		6.00	16.50	6.33	17.09	<50	<0.50	<0.50	<0.50	<0.50	1.7	--	0.90	5.6	
8/25/2011	P		6.00	16.50	6.10	17.32	<50	<0.50	<0.50	<0.50	<0.50	1.5	--	0.54	7.2	
1/17/2012	P		6.00	16.50	8.83	14.59	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	0.61	7.6	
7/24/2012	P		6.00	16.50	8.14	15.28	<50	<0.50	<0.50	<0.50	<1.0	1.4	--	1.56	7.44	
MW-11																
11/16/1992	--	22.38	7.00	12.00	9.02	13.36	7,000	21	<10	18	230	--	--	--	--	n
2/16/1993	--		7.00	12.00	7.11	15.27	2,200	<10	<10	11	<10	--	--	--	--	n
5/13/1993	--		7.00	12.00	8.04	14.34	1,600	<2.5	<2.5	41	6.8	--	--	--	--	n
8/17/1993	--		7.00	12.00	8.78	13.60	830	1.4	<1.0	25	15	--	--	--	--	n

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-11 Cont.																
11/8/1993	--	22.38	7.00	12.00	9.23	13.15	370	<1.0	<1.0	2.5	2.1	--	--	--	--	n
2/14/1994	--		7.00	12.00	7.94	14.44	650	<1	<1.0	2	4	--	--	--	--	n
5/5/1994	--		7.00	12.00	8.55	13.83	210	<0.5	<0.5	2.5	0.6	--	--	--	--	
8/4/1994	--		7.00	12.00	9.13	13.25	390	<0.5	<0.7	1.9	2.2	--	--	--	--	n
11/20/1994	--		7.00	12.00	7.73	14.65	1,300	1.3	0.5	1.5	21	--	--	--	--	
3/17/1995	--		7.00	12.00	6.94	15.44	100	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		7.00	12.00	7.90	14.48	210	<0.5	<0.5	0.9	0.7	--	--	--	--	
8/31/1995	--		7.00	12.00	8.18	14.20	680	<0.5	<0.5	4	1.8	<3	--	--	--	
11/27/1995	--		7.00	12.00	8.48	13.90	340	<0.5	<0.5	2.2	1.6	--	--	--	--	
2/22/1996	--		7.00	12.00	6.63	15.75	150	<0.5	<0.5	<0.8	<0.8	<3	--	--	--	
5/20/1996	--		7.00	12.00	7.25	15.13	--	--	--	--	--	--	--	--	--	
8/26/1996	--		7.00	12.00	8.22	14.16	--	--	--	--	--	--	--	--	--	
11/20/1996	--		7.00	12.00	8.37	14.01	--	--	--	--	--	--	--	--	--	
3/24/1997	--	20.97	7.00	12.00	8.15	12.82	63	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/23/1997	--		7.00	12.00	8.48	12.49	--	--	--	--	--	--	--	--	--	
8/19/1997	--		7.00	12.00	8.67	12.30	--	--	--	--	--	--	--	--	--	
11/19/1997	--		7.00	12.00	8.67	12.30	--	--	--	--	--	--	--	--	--	
2/19/1998	--		7.00	12.00	6.25	14.72	<50	<0.5	1.6	<0.5	1.8	7	--	--	--	
4/23/1998	--		7.00	12.00	7.23	13.74	--	--	--	--	--	--	--	--	--	
7/27/1998	--		7.00	12.00	8.05	12.92	--	--	--	--	--	--	--	--	--	
10/14/1998	--		7.00	12.00	8.58	12.39	--	--	--	--	--	--	--	--	--	
1/21/1999	--		7.00	12.00	8.25	12.72	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.5	--	
5/6/1999	--		7.00	12.00	7.95	13.02	--	--	--	--	--	--	--	--	--	
8/23/1999	--		7.00	12.00	8.51	12.46	--	--	--	--	--	--	--	0.86	--	
10/28/1999	--		7.00	12.00	8.95	12.02	--	--	--	--	--	--	--	--	--	
2/4/2000	--		7.00	12.00	7.88	13.09	<50	<0.5	<0.5	<0.5	<1	<3	--	3.29	--	
6/20/2000	--		7.00	12.00	8.18	12.79	--	--	--	--	--	--	--	--	--	
9/29/2000	--		7.00	12.00	8.60	12.37	--	--	--	--	--	--	--	--	--	

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-11 Cont.																
12/17/2000	--	20.97	7.00	12.00	8.48	12.49	--	--	--	--	--	--	--	--	--	
3/28/2001	--		7.00	12.00	7.88	13.09	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		7.00	12.00	8.48	12.49	--	--	--	--	--	--	--	--	--	
9/22/2001	--		7.00	12.00	9.11	11.86	--	--	--	--	--	--	--	--	--	
12/27/2001	--		7.00	12.00	7.50	13.47	--	--	--	--	--	--	--	--	--	
3/15/2002	--		7.00	12.00	7.87	13.10	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		7.00	12.00	7.22	13.75	--	--	--	--	--	--	--	--	--	
7/23/2002	--		7.00	12.00	8.76	12.21	--	--	--	--	--	--	--	--	--	
10/16/2002	--		7.00	12.00	9.15	11.82	--	--	--	--	--	--	--	--	--	
1/23/2003	P		7.00	12.00	7.61	13.36	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.4	7.4	g
4/7/2003	--		7.00	12.00	8.25	12.72	--	--	--	--	--	--	--	--	--	
8/7/2003	--		7.00	12.00	8.84	12.13	--	--	--	--	--	--	--	--	--	
10/23/2003	--		7.00	12.00	9.09	11.88	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	
01/12/2004	--		7.00	12.00	7.70	13.27	--	--	--	--	--	--	--	--	--	
04/20/2004	--	24.97	7.00	12.00	9.18	15.79	--	--	--	--	--	--	--	--	--	r
07/01/2004	P		7.00	12.00	9.90	15.07	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.8	7.01	o
11/04/2004	--		7.00	12.00	8.21	16.76	--	--	--	--	--	--	--	--	--	
01/10/2005	--		7.00	12.00	6.94	18.03	--	--	--	--	--	--	--	--	--	
04/14/2005	--		7.00	12.00	6.77	18.20	--	--	--	--	--	--	--	--	--	
08/02/2005	--		7.00	12.00	7.57	17.40	--	--	--	--	--	--	--	--	--	
10/21/2005	--		7.00	12.00	8.08	16.89	--	--	--	--	--	--	--	--	--	
01/04/2006	--		7.00	12.00	7.20	17.77	--	--	--	--	--	--	--	--	--	
04/28/2006	--		7.00	12.00	6.90	18.07	--	--	--	--	--	--	--	--	--	
8/4/2006	--		7.00	12.00	8.32	16.65	--	--	--	--	--	--	--	--	--	
10/23/2006	--		7.00	12.00	8.75	16.22	--	--	--	--	--	--	--	--	--	
1/15/2007	--		7.00	12.00	8.19	16.78	--	--	--	--	--	--	--	--	--	
4/17/2007	--		7.00	12.00	8.32	16.65	--	--	--	--	--	--	--	--	--	
7/9/2007	--		7.00	12.00	8.73	16.24	--	--	--	--	--	--	--	--	--	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-11 Cont.																
10/1/2007	--	24.97	7.00	12.00	8.65	16.32	--	--	--	--	--	--	--	--	--	
1/7/2008	--		7.00	12.00	7.52	17.45	--	--	--	--	--	--	--	--	--	
4/1/2008	--		7.00	12.00	8.18	16.79	--	--	--	--	--	--	--	--	--	
7/23/2008	--		7.00	12.00	9.27	15.70	--	--	--	--	--	--	--	--	--	
10/22/2008	--		7.00	12.00	9.11	15.86	--	--	--	--	--	--	--	--	--	
1/21/2009	--		7.00	12.00	8.72	16.25	--	--	--	--	--	--	--	--	--	
4/21/2009	--		7.00	12.00	8.22	16.75	--	--	--	--	--	--	--	--	--	
7/21/2009	--		7.00	12.00	8.98	15.99	--	--	--	--	--	--	--	--	--	
1/12/2010	--		7.00	12.00	8.39	16.58	--	--	--	--	--	--	--	--	--	
6/3/2010	--		7.00	12.00	7.77	17.20	--	--	--	--	--	--	--	--	--	
7/22/2010	--		7.00	12.00	8.41	16.56	--	--	--	--	--	--	--	--	--	
2/18/2011	--		7.00	12.00	7.76	17.21	--	--	--	--	--	--	--	--	--	
8/25/2011	--		7.00	12.00	8.39	16.58	--	--	--	--	--	--	--	--	--	
1/17/2012	--		7.00	12.00	9.02	15.95	--	--	--	--	--	--	--	--	--	
7/24/2012	--		7.00	12.00	8.39	16.58	--	--	--	--	--	--	--	--	--	
MW-12																
11/16/1992	--	22.77	7.50	12.50	9.65	13.12	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/16/1993	--		7.50	12.50	7.88	14.89	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/13/1993	--		7.50	12.50	8.63	14.14	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/17/1993	--		7.50	12.50	9.30	13.47	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/8/1993	--		7.50	12.50	9.72	13.05	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/14/1994	--		7.50	12.50	8.24	14.53	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/5/1994	--		7.50	12.50	8.97	13.80	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/4/1994	--		7.50	12.50	9.57	13.20	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/20/1994	--		7.50	12.50	8.06	14.71	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
3/17/1995	--		7.50	12.50	7.09	15.68	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		7.50	12.50	8.40	14.37	--	--	--	--	--	--	--	--	--	
8/31/1995	--		7.50	12.50	8.55	14.22	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-12 Cont.																
11/27/1995	--	22.77	7.50	12.50	8.95	13.82	--	--	--	--	--	--	--	--	--	
2/22/1996	--		7.50	12.50	6.81	15.96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/20/1996	--		7.50	12.50	7.56	15.21	--	--	--	--	--	--	--	--	--	
8/26/1996	--		7.50	12.50	8.63	14.14	--	--	--	--	--	--	--	--	--	
11/20/1996	--		7.50	12.50	8.38	14.39	--	--	--	--	--	--	--	--	--	
3/24/1997	--	20.11	7.50	12.50	8.75	11.36	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/23/1997	--		7.50	12.50	8.92	11.19	--	--	--	--	--	--	--	--	--	
8/19/1997	--		7.50	12.50	9.20	10.91	--	--	--	--	--	--	--	--	--	
11/19/1997	--		7.50	12.50	9.20	10.91	--	--	--	--	--	--	--	--	--	
2/19/1998	--		7.50	12.50	6.28	13.83	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
4/23/1998	--		7.50	12.50	7.52	12.59	--	--	--	--	--	--	--	--	--	
7/27/1998	--		7.50	12.50	8.52	11.59	--	--	--	--	--	--	--	--	--	
10/14/1998	--		7.50	12.50	9.06	11.05	--	--	--	--	--	--	--	--	--	
1/21/1999	--		7.50	12.50	8.20	11.91	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--	
5/6/1999	--		7.50	12.50	8.47	11.64	--	--	--	--	--	--	--	--	--	
8/23/1999	--		7.50	12.50	9.04	11.07	--	--	--	--	--	--	--	0.85	--	
10/28/1999	--		7.50	12.50	9.40	10.71	--	--	--	--	--	--	--	--	--	
2/4/2000	--		7.50	12.50	8.38	11.73	<50	<0.5	<0.5	<0.5	<1	<3	--	3.34	--	
6/20/2000	--		7.50	12.50	8.55	11.56	--	--	--	--	--	--	--	--	--	
9/29/2000	--		7.50	12.50	8.98	11.13	--	--	--	--	--	--	--	--	--	
12/17/2000	--		7.50	12.50	8.76	11.35	--	--	--	--	--	--	--	--	--	
3/28/2001	--		7.50	12.50	8.31	11.80	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		7.50	12.50	9.10	11.01	--	--	--	--	--	--	--	--	--	
9/22/2001	--		7.50	12.50	9.48	10.63	--	--	--	--	--	--	--	--	--	
12/27/2001	--		7.50	12.50	7.78	12.33	--	--	--	--	--	--	--	--	--	
3/15/2002	--		7.50	12.50	8.22	11.89	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		7.50	12.50	7.65	12.46	--	--	--	--	--	--	--	--	--	
7/23/2002	--		7.50	12.50	9.18	10.93	--	--	--	--	--	--	--	--	--	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-12 Cont.																
10/16/2002	--	20.11	7.50	12.50	9.51	10.60	--	--	--	--	--	--	--	--	--	
1/23/2003	--		7.50	12.50	7.86	12.25	--	--	--	--	--	--	--	--	--	
4/7/2003	--		7.50	12.50	8.58	11.53	--	--	--	--	--	--	--	--	--	
8/7/2003	--		7.50	12.50	9.23	10.88	--	--	--	--	--	--	--	--	--	
10/23/2003	P		7.50	12.50	9.44	10.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	
01/12/2004	--		7.50	12.50	8.08	12.03	--	--	--	--	--	--	--	--	--	
04/20/2004	--	25.32	7.50	12.50	9.28	16.04	--	--	--	--	--	--	--	--	--	r
07/01/2004	P		7.50	12.50	9.65	15.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.8	7.0	
11/04/2004	--		7.50	12.50	8.53	16.79	--	--	--	--	--	--	--	--	--	
01/10/2005	--		7.50	12.50	7.04	18.28	--	--	--	--	--	--	--	--	--	
04/14/2005	--		7.50	12.50	6.95	18.37	--	--	--	--	--	--	--	--	--	
08/02/2005	--		7.50	12.50	8.05	17.27	--	--	--	--	--	--	--	--	--	
10/21/2005	--		7.50	12.50	8.70	16.62	--	--	--	--	--	--	--	--	--	
01/04/2006	--		7.50	12.50	10.00	15.32	--	--	--	--	--	--	--	--	--	
04/28/2006	--		7.50	12.50	7.19	18.13	--	--	--	--	--	--	--	--	--	
8/4/2006	--		7.50	12.50	8.80	16.52	--	--	--	--	--	--	--	--	--	
10/23/2006	--		7.50	12.50	9.17	16.15	--	--	--	--	--	--	--	--	--	
1/15/2007	--		7.50	12.50	8.57	16.75	--	--	--	--	--	--	--	--	--	
4/17/2007	--		7.50	12.50	8.68	16.64	--	--	--	--	--	--	--	--	--	
7/9/2007	--		7.50	12.50	9.18	16.14	--	--	--	--	--	--	--	--	--	
10/1/2007	--		7.50	12.50	9.45	15.87	--	--	--	--	--	--	--	--	--	
1/7/2008	--		7.50	12.50	7.58	17.74	--	--	--	--	--	--	--	--	--	
4/1/2008	--		7.50	12.50	8.57	16.75	--	--	--	--	--	--	--	--	--	
7/23/2008	--		7.50	12.50	9.34	15.98	--	--	--	--	--	--	--	--	--	
10/22/2008	--		7.50	12.50	9.64	15.68	--	--	--	--	--	--	--	--	--	
1/21/2009	--		7.50	12.50	9.25	16.07	--	--	--	--	--	--	--	--	--	
4/21/2009	--		7.50	12.50	8.66	16.66	--	--	--	--	--	--	--	--	--	
7/21/2009	--		7.50	12.50	9.42	15.90	--	--	--	--	--	--	--	--	--	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-12 Cont.																
1/12/2010	--	25.32	7.50	12.50	8.86	16.46	--	--	--	--	--	--	--	--	--	
6/3/2010	--		7.50	12.50	8.20	17.12	--	--	--	--	--	--	--	--	--	
7/22/2010	--		7.50	12.50	8.90	16.42	--	--	--	--	--	--	--	--	--	
2/18/2011	--		7.50	12.50	7.80	17.52	--	--	--	--	--	--	--	--	--	
8/25/2011	--		7.50	12.50	8.89	16.43	--	--	--	--	--	--	--	--	--	
1/17/2012	--		7.50	12.50	9.50	15.82	--	--	--	--	--	--	--	--	--	
7/24/2012	--		7.50	12.50	8.90	16.42	--	--	--	--	--	--	--	--	--	
MW-14																
9/15/1992	--	22.99	7.50	13.50	10.66	12.33	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/16/1992	--		7.50	13.50	10.33	12.66	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/16/1993	--		7.50	13.50	8.18	14.81	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/13/1993	--		7.50	13.50	9.05	13.94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/17/1993	--		7.50	13.50	22.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/8/1993	--		7.50	13.50	10.25	12.74	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/14/1994	--		7.50	13.50	8.80	14.19	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/5/1994	--		7.50	13.50	9.49	13.50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/4/1994	--		7.50	13.50	10.11	12.88	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/20/1994	--		7.50	13.50	8.66	14.33	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
3/17/1995	--		7.50	13.50	8.17	14.82	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		7.50	13.50	8.57	14.42	--	--	--	--	--	--	--	--	--	
8/31/1995	--		7.50	13.50	9.05	13.94	--	--	--	--	--	--	--	--	--	
11/27/1995	--		7.50	13.50	9.19	13.80	--	--	--	--	--	--	--	--	--	
2/22/1996	--		7.50	13.50	6.52	16.47	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/20/1996	--		7.50	13.50	7.88	15.11	--	--	--	--	--	--	--	--	--	
8/26/1996	--		7.50	13.50	8.83	14.16	--	--	--	--	--	--	--	--	--	
11/20/1996	--		7.50	13.50	8.95	14.04	--	--	--	--	--	--	--	--	--	
3/24/1997	--	20.90	7.50	13.50	8.98	11.92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
5/23/1997	--		7.50	13.50	9.61	11.29	--	--	--	--	--	--	--	--	--	

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-14 Cont.																
8/19/1997	--	20.90	7.50	13.50	9.80	11.10	--	--	--	--	--	--	--	--	--	
11/19/1997	--		7.50	13.50	9.80	11.10	<50	1.7	<0.5	0.6	3	<3	--	--	--	
2/19/1998	--		7.50	13.50	6.27	14.63	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
4/23/1998	--		7.50	13.50	7.75	13.15	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.5	--	
7/27/1998	--		7.50	13.50	9.24	11.66	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.0	--	
10/14/1998	--		7.50	13.50	9.73	11.17	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.0	--	
1/21/1999	--		7.50	13.50	8.90	12.00	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--	
5/6/1999	--		7.50	13.50	8.98	11.92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.73	--	
8/23/1999	--		7.50	13.50	9.68	11.22	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.91	--	
10/28/1999	--		7.50	13.50	10.00	10.90	<50	<0.5	<0.5	<0.5	<1	<10	--	1.06	--	
2/4/2000	--		7.50	13.50	8.19	12.71	<50	<0.5	0.5	<0.5	<1	<3	--	1.21	--	
6/20/2000	--		7.50	13.50	9.16	11.74	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--	--	
9/29/2000	--		7.50	13.50	9.48	11.42	<50	<0.5	<0.5	<0.5	<0.5	<2.50	--	--	--	
12/17/2000	--		7.50	13.50	9.24	11.66	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/28/2001	--		7.50	13.50	8.91	11.99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
6/20/2001	--		7.50	13.50	9.70	11.20	<50	<0.5	<0.5	<0.5	<0.5	3.1	--	--	--	
9/22/2001	--		7.50	13.50	10.04	10.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
12/27/2001	--		7.50	13.50	8.33	12.57	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
3/15/2002	--		7.50	13.50	8.75	12.15	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		7.50	13.50	8.21	12.69	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
7/23/2002	NP		7.50	13.50	9.76	11.14	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	1.4	7.1	
10/16/2002	NP		7.50	13.50	10.10	10.80	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	1.1	5.8	
1/23/2003	NP		7.50	13.50	8.41	12.49	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.3	7.1	g
4/7/2003	--		7.50	13.50	9.09	11.81	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.4	6.9	
8/7/2003	--		7.50	13.50	9.81	11.09	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.4	6.7	
10/23/2003	P		7.50	13.50	10.04	10.86	--	--	--	--	--	--	--	--	--	
01/12/2004	P		7.50	13.50	8.89	12.01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.0	7.2	
04/20/2004	--	25.55	7.50	13.50	9.62	15.93	--	--	--	--	--	--	--	--	--	r

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-14 Cont.																
07/01/2004	NP	25.55	7.50	13.50	10.03	15.52	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.6	6.7	
11/04/2004	--		7.50	13.50	9.13	16.42	--	--	--	--	--	--	--	--	--	
01/10/2005	NP		7.50	13.50	7.61	17.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.06	6.9	
04/14/2005	--		7.50	13.50	7.70	17.85	--	--	--	--	--	--	--	--	--	
08/02/2005	NP		7.50	13.50	8.73	16.82	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	6.9	
10/21/2005	--		7.50	13.50	9.47	16.08	--	--	--	--	--	--	--	--	--	
01/04/2006	--		7.50	13.50	6.92	18.63	--	--	--	--	--	--	--	--	--	
04/28/2006	--		7.50	13.50	7.71	17.84	--	--	--	--	--	--	--	--	--	
8/4/2006	NP		7.50	13.50	9.32	16.23	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	0.95	6.8	
10/23/2006	--		7.50	13.50	9.66	15.89	--	--	--	--	--	--	--	--	--	
1/15/2007	--		7.50	13.50	9.05	16.50	--	--	--	--	--	--	--	--	--	
4/17/2007	--		7.50	13.50	9.16	16.39	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		7.50	13.50	9.67	15.88	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.87	7.13	
10/1/2007	--		7.50	13.50	9.95	15.60	--	--	--	--	--	--	--	--	--	
1/7/2008	--		7.50	13.50	8.74	16.81	--	--	--	--	--	--	--	--	--	
4/1/2008	--		7.50	13.50	9.13	16.42	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		7.50	13.50	9.86	15.69	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.18	6.93	
10/22/2008	--		7.50	13.50	10.20	15.35	--	--	--	--	--	--	--	--	--	
1/21/2009	--		7.50	13.50	9.81	15.74	--	--	--	--	--	--	--	--	--	
4/21/2009	--		7.50	13.50	9.22	16.33	--	--	--	--	--	--	--	--	--	
7/21/2009	NP		7.50	13.50	9.90	15.65	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	11.04	7.21	
1/12/2010	--		7.50	13.50	9.31	16.24	--	--	--	--	--	--	--	--	--	
6/3/2010	--		7.50	13.50	8.71	16.84	--	--	--	--	--	--	--	--	--	
7/22/2010	NP		7.50	13.50	9.45	16.10	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--	
2/18/2011	--		7.50	13.50	7.92	17.63	--	--	--	--	--	--	--	--	--	
8/25/2011	P		7.50	13.50	9.43	16.12	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	0.58	7.1	
1/17/2012	--		7.50	13.50	10.04	15.51	--	--	--	--	--	--	--	--	--	
7/24/2012	P		7.50	13.50	9.49	16.06	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	1.22	7.09	

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

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-15																
5/13/1993	--	19.19	5.50	10.50	5.91	13.28	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/17/1993	--		5.50	10.50	6.54	12.65	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/8/1993	--		5.50	10.50	6.98	12.21	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
2/14/1994	--		5.50	10.50	5.44	13.75	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
5/5/1994	--		5.50	10.50	6.18	13.01	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
8/4/1994	--		5.50	10.50	6.84	12.35	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
11/20/1994	--		5.50	10.50	5.31	13.88	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
3/17/1995	--		5.50	10.50	5.21	13.98	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	
6/1/1995	--		5.50	10.50	5.84	13.35	--	--	--	--	--	--	--	--	--	
8/31/1995	--		5.50	10.50	6.18	13.01	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--	
11/27/1995	--		5.50	10.50	6.42	12.77	--	--	--	--	--	--	--	--	--	
2/22/1996	--		5.50	10.50	4.84	14.35	<50	<0.5	<0.5	<0.5	<0.5	12	--	--	--	
5/20/1996	--		5.50	10.50	5.31	13.88	--	--	--	--	--	--	--	--	--	
8/26/1996	--		5.50	10.50	6.05	13.14	<50	<0.5	<0.5	<0.5	<0.5	8	--	--	--	
11/20/1996	--		5.50	10.50	5.46	13.73	--	--	--	--	--	--	--	--	--	
3/24/1997	--	22.08	5.50	10.50	6.00	16.08	<50	<0.5	<0.5	<0.5	<0.5	15	--	--	--	
5/23/1997	--		5.50	10.50	6.25	15.83	--	--	--	--	--	--	--	--	--	
8/19/1997	--		5.50	10.50	6.34	15.74	99	<0.5	<0.5	<0.5	0.7	6	--	--	--	j
11/19/1997	--		5.50	10.50	6.34	15.74	--	--	--	--	--	--	--	--	--	
2/19/1998	--		5.50	10.50	4.66	17.42	<50	<0.5	<0.5	<0.5	<0.5	48	--	--	--	
4/23/1998	--		5.50	10.50	5.18	16.90	--	--	--	--	--	--	--	--	--	
7/27/1998	--		5.50	10.50	6.02	16.06	<50	<0.5	<0.5	<0.5	<0.5	50	--	1.0	--	
10/14/1998	--		5.50	10.50	6.26	15.82	<50	<0.5	<0.5	<0.5	<0.5	27	--	1.5	--	
1/21/1999	--		5.50	10.50	5.33	16.75	<50	<0.5	<0.5	<0.5	<0.5	6	--	1.0	--	
5/6/1999	--		5.50	10.50	5.82	16.26	--	--	--	--	--	--	--	--	--	
8/23/1999	--		5.50	10.50	6.24	15.84	<50	<0.5	<0.5	<0.5	<0.5	21	--	1.14	--	
10/28/1999	--		5.50	10.50	6.60	15.48	--	--	--	--	--	--	--	--	--	
2/4/2000	--		5.50	10.50	7.02	15.06	<50	<0.5	<0.5	<0.5	<1	<3	--	1.09	--	

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Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/ TPHg	Benzene	Toluene	Ethyl- Benzene	Total Xylenes	MTBE	Semi- VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-15 Cont.																
6/20/2000	--	22.08	5.50	10.50	5.98	16.10	--	--	--	--	--	--	--	--	--	
9/29/2000	--		5.50	10.50	6.50	15.58	<50	<0.5	<0.5	<0.5	<0.5	<2.50	--	--	--	
12/17/2000	--		5.50	10.50	5.89	16.19	--	--	--	--	--	--	--	--	--	
3/28/2001	--		5.50	10.50	5.78	16.30	<50	<0.5	<0.5	<0.5	<0.5	11.1	--	--	--	
6/20/2001	--		5.50	10.50	5.72	16.36	--	--	--	--	--	--	--	--	--	
9/22/2001	--		5.50	10.50	6.79	15.29	<50	<0.5	<0.5	<0.5	<0.5	13	--	--	--	
12/27/2001	--		5.50	10.50	5.49	16.59	--	--	--	--	--	--	--	--	--	
3/15/2002	--		5.50	10.50	5.68	16.40	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	
4/18/2002	--		5.50	10.50	4.85	17.23	--	--	--	--	--	--	--	--	--	
7/23/2002	P		5.50	10.50	6.32	15.76	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	2.0	7.9	
10/16/2002	--		5.50	10.50	6.69	15.39	--	--	--	--	--	--	--	--	--	
1/23/2003	P		5.50	10.50	5.70	16.38	<50	<0.50	<0.50	<0.50	<0.50	1.9	--	2.6	7.5	g
4/7/2003	--		5.50	10.50	5.94	16.14	--	--	--	--	--	--	--	--	--	
8/7/2003	--		5.50	10.50	6.32	15.76	--	--	--	--	--	--	--	--	--	
10/23/2003	--		5.50	10.50	6.56	15.52	--	--	--	--	--	--	--	--	--	
01/12/2004	--		5.50	10.50	5.71	16.37	--	--	--	--	--	--	--	--	--	
04/20/2004	--	21.72	5.50	10.50	7.10	14.62	--	--	--	--	--	--	--	--	--	r
07/01/2004	P		5.50	10.50	7.18	14.54	<50	<0.50	<0.50	<0.50	<0.50	1.9	--	1.6	7.3	
11/04/2004	--		5.50	10.50	5.90	15.82	--	--	--	--	--	--	--	--	--	
01/10/2005	--		5.50	10.50	5.30	16.42	--	--	--	--	--	--	--	--	--	
04/14/2005	--		5.50	10.50	5.40	16.32	--	--	--	--	--	--	--	--	--	
08/02/2005	P		5.50	10.50	5.33	16.39	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	6.5	
10/21/2005	--		5.50	10.50	5.92	15.80	--	--	--	--	--	--	--	--	--	
01/04/2006	--		5.50	10.50	5.19	16.53	--	--	--	--	--	--	--	--	--	
04/28/2006	--		5.50	10.50	5.45	16.27	--	--	--	--	--	--	--	--	--	
8/4/2006	P		5.50	10.50	5.99	15.73	<50	<0.50	<0.50	<0.50	<0.50	2.1	--	1.49	7.1	
10/23/2006	--		5.50	10.50	6.36	15.36	--	--	--	--	--	--	--	--	--	
1/15/2007	--		5.50	10.50	6.00	15.72	--	--	--	--	--	--	--	--	--	

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

Well ID and Date Monitored	P/NP	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet)	Water Level Elevation (feet)	Concentrations in µg/L							DO (mg/L)	pH	Footnote
							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-15 Cont.																
4/17/2007	--	21.72	5.50	10.50	5.98	15.74	--	--	--	--	--	--	--	--	--	
7/9/2007	NP		5.50	10.50	6.26	15.46	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.77	7.44	
10/1/2007	--		5.50	10.50	6.53	15.19	--	--	--	--	--	--	--	--	--	
1/7/2008	--		5.50	10.50	6.12	15.60	--	--	--	--	--	--	--	--	--	
4/1/2008	--		5.50	10.50	5.92	15.80	--	--	--	--	--	--	--	--	--	
7/23/2008	NP		5.50	10.50	6.30	15.42	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.07	7.32	
10/22/2008	--		5.50	10.50	6.69	15.03	--	--	--	--	--	--	--	--	--	
1/21/2009	--		5.50	10.50	6.22	15.50	--	--	--	--	--	--	--	--	--	
4/21/2009	--		5.50	10.50	5.79	15.93	--	--	--	--	--	--	--	--	--	
7/21/2009	NP		5.50	10.50	6.34	15.38	<50	<0.50	<0.50	<0.50	<0.50	1.4	--	9.63	7.63	
1/12/2010	--		5.50	10.50	5.93	15.79	--	--	--	--	--	--	--	--	--	
6/3/2010	--		5.50	10.50	5.79	15.93	--	--	--	--	--	--	--	--	--	
7/22/2010	P		5.50	10.50	6.25	15.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.11	7.30	
2/18/2011	--		5.50	10.50	8.48	13.24	--	--	--	--	--	--	--	--	--	
8/25/2011	P		5.50	10.50	6.07	15.65	<50	<0.50	<0.50	<0.50	<0.50	2.9	--	0.88	7.2	
1/17/2012	--		5.50	10.50	6.88	14.84	--	--	--	--	--	--	--	--	--	
7/24/2012	P		5.50	10.50	6.07	15.65	<50	<0.50	<0.50	<0.50	<1.0	0.59	--	1.56	7.45	
MW-16																
7/21/2009	P	22.89	5.00	15.00	12.90	9.99	1,500	2.3	13	36	300	0.68	--	14.83	7.71	
1/12/2010	P		5.00	15.00	6.67	16.22	1,700	6.8	4.3	71	48	<0.50	--	1.24	6.8	
6/3/2010	P		5.00	15.00	6.13	16.76	4,100	28	9.2	420	170	<1.0	--	--	7.10	
7/22/2010	NP		5.00	15.00	6.83	16.06	6,400	34	13	570	210	<1.0	--	0.68	6.95	
2/18/2011	NP		5.00	15.00	5.60	17.29	1,100	6.1	2.2	8.7	23	<0.50	--	1.18	6.66	
8/25/2011	P		5.00	15.00	6.70	16.19	2,800	31	17	180	480	<4.0	--	0.75	7.0	
1/17/2012	P		5.00	15.00	7.29	15.60	1,300	7.9	3.8	66	48	<1.0	--	0.42	7.30	
7/24/2012	P		5.00	15.00	6.75	16.14	2,900	30	11	240	310	<2.0	--	1.09	7.25	
MW-17																

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							GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE	Semi-VOCs			
ESL - DW							100	1.0	40	30	20	5.0				
ESL - NDW							210	46	130	43	100	1,800				
MW-17 Cont.																
7/21/2009	P	23.42	5.00	15.00	7.58	15.84	3,700	61	160	150	1,300	2.8	--	11.48	7.57	
1/12/2010	P		5.00	15.00	6.98	16.44	11,000	110	72	1,100	1,600	<10	--	1.02	6.80	
6/3/2010	P		5.00	15.00	6.37	17.05	19,000	140	45	1,200	2,600	<25	--	1.26	6.99	
7/22/2010	NP		5.00	15.00	7.05	16.37	21,000	160	63	1,300	2,800	<25	--	0.50	7.00	
2/18/2011	NP		5.00	15.00	6.33	17.09	9,400	58	<10	480	930	<10	--	2.84	6.7	
8/25/2011	P		5.00	15.00	6.96	16.46	5,500	140	<10	250	870	<10	--	0.47	7.1	
1/17/2012	P		5.00	15.00	7.62	15.80	4,000	72	13	180	360	<2.5	--	0.36	7.35	
7/24/2012	P		5.00	15.00	7.02	16.40	1,600	83	4.6	100	92	<1.0	--	1.00	7.21	
MW-18																
7/21/2009	P	24.48	5.00	15.00	8.73	15.75	290	1.1	<0.50	8.0	1.4	4.8	--	14.25	7.69	
1/12/2010	P		5.00	15.00	7.95	16.53	1,000	2.4	<1.0	57	<1.0	5.8	--	1.79	6.8	
6/3/2010	--		5.00	15.00	7.33	17.15	--	--	--	--	--	--	--	--	--	
7/22/2010	NP		5.00	15.00	8.02	16.46	760	3.5	<0.50	27	<0.50	5.1	--	0.71	7.09	w
2/18/2011	NP		5.00	15.00	7.38	17.10	360	<0.50	<0.50	<0.50	<0.50	3.8	--	2.80	6.9	x (GRO)
8/25/2011	P		5.00	15.00	8.00	16.48	640	3.4	<0.50	4.1	<0.50	4.9	--	0.61	7.1	x (GRO)
1/17/2012	P		5.00	15.00	8.61	15.87	140	<0.50	<0.50	<0.50	<0.50	2.5	--	0.45	7.5	x (GRO)
7/24/2012	P		5.00	15.00	8.02	16.46	150	<0.50	<0.50	<0.50	<1.0	1.8	--	0.90	7.40	
MW-19																
7/21/2009	P	25.10	5.00	15.00	9.34	15.76	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	13.65	8.03	
1/12/2010	--		5.00	15.00	6.75	18.35	--	--	--	--	--	--	--	--	--	
6/3/2010	--		5.00	15.00	8.14	16.96	--	--	--	--	--	--	--	--	--	
2/18/2011	--		5.00	15.00	7.51	17.59	--	--	--	--	--	--	--	--	--	
8/25/2011	P		5.00	15.00	6.02	19.08	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.35	7.2	
1/17/2012	--		5.00	15.00	9.47	15.63	--	--	--	--	--	--	--	--	--	
7/24/2012	--		5.00	15.00	8.88	16.22	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	

Symbols & Abbreviations:

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

Footnotes:

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

Notes:

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

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

Values for DO and pH were obtained through field measurements

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

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

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

Table 3. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

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

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

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Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-1 Cont.									
8/25/2011	<1,500	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
1/17/2012	<600	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
7/24/2012	<300	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
MW-2									
8/31/1995	--	--	<50	--	--	--	--	--	
2/22/1996	--	--	<50	--	--	--	--	--	
3/24/1997	--	--	67	--	--	--	--	--	
2/19/1998	--	--	25	--	--	--	--	--	
1/21/1999	--	--	13	--	--	--	--	--	
3/28/2001	--	--	39.5	--	--	--	--	--	
3/15/2002	--	--	75	--	--	--	--	--	
1/23/2003	<4,000	<2,000	95	<50	<50	<50	<50	<50	
10/23/2003	--	<100	68	<2.5	<2.5	16	<2.5	<2.5	
07/01/2004	<100	28	72	<0.50	<0.50	15	<0.50	<0.50	
08/02/2005	<100	<20	12	<0.50	<0.50	3.4	<0.50	<0.50	
8/4/2006	<300	21	7.9	<0.50	<0.50	2.3	<0.50	<0.50	
7/9/2007	<300	<20	3.2	<0.50	<0.50	0.98	<0.50	<0.50	
7/23/2008	<300	<10	0.78	<0.50	<0.50	<0.50	<0.50	<0.50	
7/21/2009	<300	<10	0.83	<0.50	<0.50	<0.50	<0.50	<0.50	
6/3/2010	<300	<10	1.2	<0.50	<0.50	0.76	<0.50	<0.50	
7/22/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/24/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-3									
2/22/1996	--	--	<3,000	--	--	--	--	--	
5/20/1996	--	--	<3,000	--	--	--	--	--	
8/26/1996	--	--	<2,000	--	--	--	--	--	
11/20/1996	--	--	<1,000	--	--	--	--	--	

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Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-3 Cont.									
3/24/1997	--	--	<5,000	--	--	--	--	--	
5/23/1997	--	--	<700	--	--	--	--	--	
8/19/1997	--	--	<600	--	--	--	--	--	
11/19/1997	--	--	<600	--	--	--	--	--	
2/19/1998	--	--	<600	--	--	--	--	--	
4/23/1998	--	--	<600	--	--	--	--	--	
7/27/1998	--	--	<600	--	--	--	--	--	
10/14/1998	--	--	970	--	--	--	--	--	
1/21/1999	--	--	<600	--	--	--	--	--	
5/6/1999	--	--	170	--	--	--	--	--	
8/23/1999	--	--	<150	--	--	--	--	--	
10/28/1999	--	--	<5,000	--	--	--	--	--	
2/4/2000	--	--	650	--	--	--	--	--	
6/20/2000	--	--	<500	--	--	--	--	--	
9/29/2000	--	--	<250	--	--	--	--	--	
3/28/2001	--	--	<1,000	--	--	--	--	--	
6/20/2001	--	--	<2,500	--	--	--	--	--	
9/22/2001	--	--	<1,000	--	--	--	--	--	
12/27/2001	--	--	<250	--	--	--	--	--	
3/15/2002	--	--	<250	--	--	--	--	--	
7/23/2002	--	--	<250	--	--	--	--	--	
10/16/2002	--	--	<250	--	--	--	--	--	
1/23/2003	<8,000	<4,000	<100	<100	<100	<100	<100	<100	
4/7/2003	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
8/7/2003	<20,000	<4,000	<100	<100	<100	<100	<100	<100	
10/23/2003	--	<1,000	<25	<25	<25	<25	<25	<25	
01/12/2004	<1,000	<200	<5.0	<10	<10	<10	<5.0	<5.0	
04/20/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
07/01/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	

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

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-3 Cont.									
11/23/2004	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
01/10/2005	<20,000	<4,000	<100	<100	<100	<100	<100	<100	
04/14/2005	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
08/02/2005	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
10/21/2005	<10,000	<2,000	<50	<50	<50	<50	<50	<50	
01/04/2006	<5,000	<1,000	<25	<25	<25	<25	<25	<25	b
04/28/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
8/4/2006	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
10/23/2006	<3,000	<200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	b
1/15/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
4/17/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
7/9/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	
10/1/2007	<15,000	<1,000	<25	<25	<25	<25	<25	<25	d
4/1/2008	<60,000	<2,000	<100	<100	<100	<100	<100	<100	
7/23/2008	<3,000	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
10/22/2008	<75,000	<2,500	<120	<120	<120	<120	<120	<120	
1/21/2009	<60,000	<2,000	<100	<100	<100	<100	<100	<100	
4/21/2009	<30,000	<1,000	<50	<50	<50	<50	<50	<50	
7/21/2009	<15,000	<500	<25	<25	<25	<25	<25	<25	
1/12/2010	<6,000	<200	<10	<10	<10	<10	<10	<10	
6/3/2010	<15,000	<500	<25	<25	<25	<25	<25	<25	
7/22/2010	<15,000	<500	<25	<25	<25	<25	<25	<25	
2/18/2011	<15,000	<500	<25	<25	<25	<25	<25	<25	
8/25/2011	<12,000	<400	<20	<20	<20	<20	<20	<20	
1/17/2012	<6,000	<200	<10	<10	<10	<10	<10	<10	
7/24/2012	<1,500	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
MW-4									
8/31/1995	--	--	<100	--	--	--	--	--	
2/22/1996	--	--	<20	--	--	--	--	--	

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Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-4 Cont.									
5/20/1996	--	--	<100	--	--	--	--	--	
8/26/1996	--	--	<100	--	--	--	--	--	
11/20/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<50	--	--	--	--	--	
5/23/1997	--	--	<60	--	--	--	--	--	
11/19/1997	--	--	<60	--	--	--	--	--	
2/19/1998	--	--	110	--	--	--	--	--	
4/23/1998	--	--	93	--	--	--	--	--	
7/27/1998	--	--	<120	--	--	--	--	--	
10/14/1998	--	--	63	--	--	--	--	--	
1/21/1999	--	--	13	--	--	--	--	--	
5/6/1999	--	--	41	--	--	--	--	--	
8/23/1999	--	--	57	--	--	--	--	--	
10/28/1999	--	--	16	--	--	--	--	--	
2/4/2000	--	--	8	--	--	--	--	--	
6/20/2000	--	--	46	--	--	--	--	--	
6/20/2001	--	--	110	--	--	--	--	--	
9/22/2001	--	--	100	--	--	--	--	--	
12/27/2001	--	--	15	--	--	--	--	--	
3/15/2002	--	--	12	--	--	--	--	--	
4/18/2002	--	--	3.7	--	--	--	--	--	
7/23/2002	--	--	41	--	--	--	--	--	
10/16/2002	--	--	<25	--	--	--	--	--	
1/23/2003	<200	<100	5.9	<2.5	<2.5	<2.5	<2.5	<2.5	
4/7/2003	<100	<20	9.2	<0.5	<0.5	0.61	<0.5	<0.50	
8/7/2003	<5,000	<1,000	<25	<25	<25	<25	<25	<25	
10/23/2003	--	<100	12	<2.5	<2.5	<2.5	<2.5	<2.5	
01/12/2004	<500	<100	4.3	<5.0	<5.0	<5.0	<2.5	<2.5	
04/20/2004	<1,000	<200	12	<5.0	<5.0	<5.0	<5.0	<5.0	

Table 3. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-4 Cont.									
07/01/2004	<500	<100	15	<2.5	<2.5	<2.5	<2.5	<2.5	
11/04/2004	<200	<40	5.7	<1.0	<1.0	<1.0	<1.0	<1.0	
01/10/2005	<100	<20	2.5	<0.50	<0.50	<0.50	<0.50	<0.50	
04/14/2005	<100	<20	4.5	<0.50	<0.50	0.61	<0.50	<0.50	
08/02/2005	<100	<20	7.1	<0.50	<0.50	0.97	3.7	<0.50	
10/21/2005	<200	<40	10	<1.0	<1.0	1.3	<1.0	<1.0	b
01/04/2006	<200	<40	3.7	<1.0	<1.0	<1.0	<1.0	<1.0	b
04/28/2006	<600	<40	3.7	<1.0	<1.0	<1.0	<1.0	<1.0	
8/4/2006	<3,000	<200	15	<5.0	<5.0	<5.0	<5.0	<5.0	
10/23/2006	<300	<20	16	<0.50	<0.50	5.5	<0.50	<0.50	b
1/15/2007	--	--	--	--	--	--	--	--	g
4/17/2007	<600	<40	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	
7/9/2007	<1,200	<80	14	<2.0	<2.0	<2.0	<2.0	<2.0	
10/1/2007	<600	<40	11	<1.0	<1.0	1.6	<1.0	<1.0	
1/7/2008	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
4/1/2008	<300	<10	0.68	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2008	--	--	--	--	--	--	--	--	f
10/22/2008	--	--	--	--	--	--	--	--	f
4/21/2009	<300	<10	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	
6/3/2010	<300	<10	2.3	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-5									
8/31/1995	--	--	<500	--	--	--	--	--	
2/22/1996	--	--	<500	--	--	--	--	--	
5/20/1996	--	--	<500	--	--	--	--	--	
8/26/1996	--	--	<300	--	--	--	--	--	
11/20/1996	--	--	<500	--	--	--	--	--	
3/24/1997	--	--	<500	--	--	--	--	--	
5/23/1997	--	--	<600	--	--	--	--	--	
8/19/1997	--	--	<300	--	--	--	--	--	

Table 3. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-5 Cont.									
11/19/1997	--	--	<300	--	--	--	--	--	
2/19/1998	--	--	<300	--	--	--	--	--	
4/23/1998	--	--	<600	--	--	--	--	--	
7/27/1998	--	--	<600	--	--	--	--	--	
10/14/1998	--	--	<300	--	--	--	--	--	
1/21/1999	--	--	<600	--	--	--	--	--	
5/6/1999	--	--	12	--	--	--	--	--	
8/23/1999	--	--	67	--	--	--	--	--	
10/28/1999	--	--	<250	--	--	--	--	--	
2/4/2000	--	--	<75	--	--	--	--	--	
6/20/2000	--	--	<200	--	--	--	--	--	
3/28/2001	--	--	<250	--	--	--	--	--	
6/20/2001	--	--	<100	--	--	--	--	--	
12/27/2001	--	--	<250	--	--	--	--	--	
3/15/2002	--	--	<250	--	--	--	--	--	
4/18/2002	--	--	<250	--	--	--	--	--	
7/23/2002	--	--	110	--	--	--	--	--	
10/16/2002	--	--	<100	--	--	--	--	--	
1/23/2003	<4,000	<2,000	<50	<50	<50	<50	<50	<50	
4/7/2003	<500	<100	32	<2.5	<2.5	6.3	<2.5	<2.5	
8/7/2003	<100	<20	3.5	<0.50	<0.50	<0.50	<0.50	<0.50	
10/23/2003	--	<20	12	<0.50	<0.50	1.7	<0.50	<0.50	
01/12/2004	<100	<20	11	<1.0	<1.0	1.3	<0.50	<0.50	
04/20/2004	<100	<20	12	<0.50	<0.50	3.0	<0.50	<0.50	
07/01/2004	<100	<20	11	<0.50	<0.50	2.0	<0.50	<0.50	
11/04/2004	<100	<20	9.4	<0.50	<0.50	2.0	<0.50	<0.50	
01/10/2005	<100	<20	40	<0.50	<0.50	9.7	<0.50	<0.50	
04/14/2005	<1,000	<200	40	<5.0	<5.0	9.3	<5.0	<5.0	
08/02/2005	<500	<100	19	<2.5	<2.5	5.0	9.2	<2.5	

Table 3. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-5 Cont.									
10/21/2005	<1,000	<200	16	<5.0	<5.0	<5.0	<5.0	<5.0	
01/04/2006	<1,000	<200	30	<5.0	<5.0	7.2	<5.0	<5.0	b
04/28/2006	<3,000	<200	9.9	<5.0	<5.0	<5.0	<5.0	<5.0	
8/4/2006	<3,000	<200	14	<5.0	<5.0	<5.0	<5.0	<5.0	
10/23/2006	<6,000	<400	13	<10	<10	<10	<10	<10	b
1/15/2007	<6,000	<400	10	<10	<10	<10	<10	<10	
4/17/2007	<3,000	<200	5.9	<5.0	<5.0	<5.0	<5.0	<5.0	
7/9/2007	<3,000	<200	6.9	<5.0	<5.0	<5.0	<5.0	<5.0	
10/1/2007	<1,500	<100	4.2	<2.5	<2.5	<2.5	<2.5	<2.5	
1/7/2008	<1,500	<100	4.1	<2.5	<2.5	<2.5	<2.5	<2.5	
4/1/2008	<300	<10	1.8	<0.50	<0.50	0.70	<0.50	<0.50	
7/23/2008	<6,000	<200	<10	<10	<10	<10	<10	<10	
10/22/2008	<3,000	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
1/21/2009	<3,000	<100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
4/21/2009	<300	<10	0.74	<0.50	<0.50	<0.50	<0.50	<0.50	
6/3/2010	<1,500	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	
MW-9									
8/31/1995	--	--	<3	--	--	--	--	--	
2/22/1996	--	--	<3	--	--	--	--	--	
8/26/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<3	--	--	--	--	--	
8/19/1997	--	--	<3	--	--	--	--	--	
2/19/1998	--	--	<3	--	--	--	--	--	
7/27/1998	--	--	<3	--	--	--	--	--	
10/14/1998	--	--	<3	--	--	--	--	--	
1/21/1999	--	--	<3	--	--	--	--	--	
8/23/1999	--	--	<3	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
9/29/2000	--	--	3.44	--	--	--	--	--	

Table 3. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-9 Cont.									
3/28/2001	--	--	<2.5	--	--	--	--	--	
9/22/2001	--	--	7.8	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	
7/23/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	<20	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	
07/01/2004	<100	<20	3.2	<0.50	<0.50	<0.50	<0.50	<0.50	
08/02/2005	<100	<20	3.8	<0.50	<0.50	<0.50	<0.50	<0.50	
8/4/2006	<300	<20	4.0	<0.50	<0.50	<0.50	<0.50	<0.50	
7/9/2007	<300	<20	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2008	<300	<10	5.0	<0.50	<0.50	<0.50	<0.50	<0.50	
7/21/2009	<300	<10	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	
7/22/2010	<300	<10	4.5	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2011	<300	<10	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	
7/24/2012	<150	<10	3.6	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-10									
8/31/1995	--	--	<3	--	--	--	--	--	
2/22/1996	--	--	<3	--	--	--	--	--	
8/26/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<3	--	--	--	--	--	
8/19/1997	--	--	<3	--	--	--	--	--	
11/19/1997	--	--	<3	--	--	--	--	--	
2/19/1998	--	--	<3	--	--	--	--	--	
4/23/1998	--	--	<3	--	--	--	--	--	
7/27/1998	--	--	<3	--	--	--	--	--	
10/14/1998	--	--	<3	--	--	--	--	--	
1/21/1999	--	--	<3	--	--	--	--	--	
5/6/1999	--	--	<3	--	--	--	--	--	
8/23/1999	--	--	<3	--	--	--	--	--	
10/28/1999	--	--	<3	--	--	--	--	--	

Table 3. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-10 Cont.									
2/4/2000	--	--	<3	--	--	--	--	--	
6/20/2000	--	--	<3.0	--	--	--	--	--	
9/29/2000	--	--	<2.5	--	--	--	--	--	
12/17/2000	--	--	<2.5	--	--	--	--	--	
3/28/2001	--	--	<2.5	--	--	--	--	--	
6/20/2001	--	--	<2.5	--	--	--	--	--	
9/22/2001	--	--	<2.5	--	--	--	--	--	
12/27/2001	--	--	<2.5	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	
4/18/2002	--	--	3.8	--	--	--	--	--	
7/23/2002	--	--	<2.5	--	--	--	--	--	
10/16/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	<20	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	
4/7/2003	<100	<20	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	
8/7/2003	<100	<20	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	
01/12/2004	<100	<20	1.7	<1.0	<1.0	<1.0	<0.50	<0.50	
07/01/2004	<100	<20	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	
01/10/2005	<100	<20	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	b
08/02/2005	<100	<20	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	
01/04/2006	<100	<20	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	b
8/4/2006	<300	<20	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	
1/15/2007	<300	<20	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	
7/9/2007	<300	<20	2.0	<0.50	<0.50	<0.50	<0.50	<0.50	
1/7/2008	<300	<20	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2008	<300	<10	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	
1/21/2009	<300	<10	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	
7/21/2009	<300	<10	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	
1/12/2010	<300	<10	1.3	<0.50	<0.50	<0.50	<0.50	<0.50	
7/22/2010	<300	<10	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	

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

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-10 Cont.									
2/18/2011	<300	<10	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2011	<300	<10	1.5	<0.50	<0.50	<0.50	<0.50	<0.50	
1/17/2012	<300	<10	1.6	<0.50	<0.50	<0.50	<0.50	<0.50	
7/24/2012	<150	<10	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-14									
2/22/1996	--	--	<3	--	--	--	--	--	
3/24/1997	--	--	<3	--	--	--	--	--	
11/19/1997	--	--	<3	--	--	--	--	--	
2/19/1998	--	--	<3	--	--	--	--	--	
4/23/1998	--	--	<3	--	--	--	--	--	
7/27/1998	--	--	<3	--	--	--	--	--	
10/14/1998	--	--	<3	--	--	--	--	--	
1/21/1999	--	--	<3	--	--	--	--	--	
5/6/1999	--	--	<3	--	--	--	--	--	
8/23/1999	--	--	<3	--	--	--	--	--	
10/28/1999	--	--	<10	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
6/20/2000	--	--	<10	--	--	--	--	--	
9/29/2000	--	--	<2.50	--	--	--	--	--	
12/17/2000	--	--	<2.5	--	--	--	--	--	
3/28/2001	--	--	<2.5	--	--	--	--	--	
6/20/2001	--	--	3.1	--	--	--	--	--	
9/22/2001	--	--	<2.5	--	--	--	--	--	
12/27/2001	--	--	<2.5	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	
4/18/2002	--	--	<2.5	--	--	--	--	--	
7/23/2002	--	--	<2.5	--	--	--	--	--	
10/16/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 3. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-14 Cont.									
4/7/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/7/2003	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
01/12/2004	<100	<20	<0.50	<1.0	<1.0	<1.0	<0.50	<0.50	
07/01/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
01/10/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
08/02/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/4/2006	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/9/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/21/2009	<300	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/22/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/24/2012	<150	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-15									
8/31/1995	--	--	<3	--	--	--	--	--	
2/22/1996	--	--	12	--	--	--	--	--	
8/26/1996	--	--	8	--	--	--	--	--	
3/24/1997	--	--	15	--	--	--	--	--	
8/19/1997	--	--	6	--	--	--	--	--	
2/19/1998	--	--	48	--	--	--	--	--	
7/27/1998	--	--	50	--	--	--	--	--	
10/14/1998	--	--	27	--	--	--	--	--	
1/21/1999	--	--	6	--	--	--	--	--	
8/23/1999	--	--	21	--	--	--	--	--	
2/4/2000	--	--	<3	--	--	--	--	--	
9/29/2000	--	--	<2.50	--	--	--	--	--	
3/28/2001	--	--	11.1	--	--	--	--	--	
9/22/2001	--	--	13	--	--	--	--	--	
3/15/2002	--	--	<2.5	--	--	--	--	--	

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

Well ID and Date Monitored	Concentrations in µg/L								Footnote
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
ESL - DW	NE	12	5.0	NE	NE	NE	0.5	0.05	
ESL - NDW	NE	18,000	1,800	NE	NE	NE	200	150	
MW-15 Cont.									
7/23/2002	--	--	<2.5	--	--	--	--	--	
1/23/2003	<40	<20	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	
07/01/2004	<100	<20	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	
08/02/2005	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/4/2006	<300	<20	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	
7/9/2007	<300	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2008	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
7/21/2009	<300	<0.50	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	
7/22/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2011	<300	<10	2.9	<0.50	<0.50	<0.50	<0.50	<0.50	
7/24/2012	<150	<10	0.59	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-16									
7/21/2009	<300	<0.50	0.68	<0.50	<0.50	<0.50	<0.50	<0.50	
1/12/2010	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
6/3/2010	<600	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
7/22/2010	<600	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
2/18/2011	<300	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
8/25/2011	<2,400	<80	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
1/17/2012	600	<20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
7/24/2012	<600	<40	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
MW-17									
7/21/2009	<300	10	2.8	<0.50	<0.50	1.0	<0.50	<0.50	
1/12/2010	<6,000	<200	<10	<10	<10	<10	<10	<10	
6/3/2010	<15,000	<500	<25	<25	<25	<25	<25	<25	
7/22/2010	<15,000	<500	<25	<25	<25	<25	<25	<25	
2/18/2011	<6,000	<200	<10	<10	<10	<10	<10	<10	
8/25/2011	<6,000	<200	<10	<10	<10	<10	<10	<10	
1/17/2012	<1,500	<50	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	

Table 3. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

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

Symbols & Abbreviations:

-- = Not analyzed/applicable/measured/available

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

1,2-DCA = 1,2-Dichloroethane

ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

µg/L = Micrograms per Liter

Footnotes:

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

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

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

d = Sample preserved improperly

e = FP in well

f = Insufficient water to sample

g = Well was dry

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

Notes:

All volatile organic compounds analyzed using EPA Method 8260B

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

Table 4. Historical Groundwater Gradient - Direction and Magnitude
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

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

Table 4. Historical Groundwater Gradient - Direction and Magnitude
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

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

Notes:

Wells resurveyed on 2/27/2004

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

Table 5. Bio-Degradation Parameters
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in mg/L										ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane	Total Alkalinity			
MW-1													
7/21/2009	10.85	<0.1	--	5.8	2.7	<0.050	--	--	--	--	--	7.10	
1/12/2010	0.98	<0.1	--	13.0	<1.0	<0.050	--	--	--	--	-138	6.48	
1/17/2012	0.36	--	--	--	--	--	--	--	--	--	-49	6.65	
7/24/2012	1.25	--	--	--	--	--	--	--	--	--	-177	7.09	
MW-2													
6/3/2010	--	<0.1	--	<0.10	54	<0.050	--	--	--	--	-65	7.06	
MW-3													
7/21/2009	11.15	<0.1	--	<0.10	2.4	<0.050	--	--	--	--	--	7.35	
1/12/2010	1.07	<0.1	--	2.0	1.2	<0.050	--	--	--	--	-97	6.63	
6/3/2010	1.16	<0.1	--	0.340	<1.0	<0.050	--	--	--	--	-146	6.8	
1/17/2012	0.26	--	--	--	--	--	--	--	--	--	3	7.01	
7/24/2012	1.25	--	--	--	--	--	--	--	--	--	-132	7.15	
MW-4													
6/3/2010	1.10	<0.1	--	<0.10	64	<0.050	--	--	--	--	-120	7.1	
MW-5													
6/3/2010	1.77	<0.1	--	<0.10	<1.0	<0.050	--	--	--	--	-80	6.9	
MW-9													
7/24/2012	1.37	--	--	--	--	--	--	--	--	--	25	7.29	
MW-10													
1/17/2012	0.61	--	--	--	--	--	--	--	--	--	185	7.6	
7/24/2012	1.56	--	--	--	--	--	--	--	--	--	-135	7.44	
MW-14													
7/24/2012	1.22	--	--	--	--	--	--	--	--	--	64	7.09	
MW-15													
7/24/2012	1.56	--	--	--	--	--	--	--	--	--	51	7.45	

Table 5. Bio-Degradation Parameters
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well ID and Date Monitored	Concentrations in mg/L										ORP (mV)	pH	Footnote
	Dissolved Oxygen	Nitrate (NO3)	Manganese	Ferrous Iron	Sulfate (SO4)	Dissolved Sulfide	Hydrogen Sulfide	Dissolved CO2	Methane	Total Alkalinity			
MW-16													
7/21/2009	14.83	<0.1	--	<0.10	94	<0.050	--	--	--	--	--	7.71	
1/12/2010	1.24	<0.1	--	<0.10	24	<0.050	--	--	--	--	-53	6.8	
6/3/2010	--	<0.1	--	<0.10	9.6	<0.050	--	--	--	--	-108	7.10	
1/17/2012	0.42	--	--	--	--	--	--	--	--	--	53	7.30	
7/24/2012	1.09	--	--	--	--	--	--	--	--	--	-149	7.25	
MW-17													
7/21/2009	11.48	<0.1	--	<0.10	25	<0.050	--	--	--	--	--	7.57	
1/12/2010	1.02	<0.1	--	0.130	<1.0	<0.050	--	--	--	--	-84	6.80	
6/3/2010	1.26	<0.1	--	<0.260	<1.0	<0.050	--	--	--	--	-66	6.99	
1/17/2012	0.36	--	--	--	--	--	--	--	--	--	42	7.35	
7/24/2012	1.00	--	--	--	--	--	--	--	--	--	-128	7.21	
MW-18													
7/21/2009	14.25	<0.1	--	<0.10	24	<0.050	--	--	--	--	--	7.69	
1/12/2010	1.79	<0.1	--	<0.10	26	<0.050	--	--	--	--	-20	6.8	
1/17/2012	0.45	--	--	--	--	--	--	--	--	--	227	7.5	
7/24/2012	0.90	--	--	--	--	--	--	--	--	--	-170	7.40	
MW-19													
7/21/2009	13.65	0.920	--	<0.10	110	<0.050	--	--	--	--	--	8.03	

Symbols & Abbreviations:

< = Not detected at or above specified laboratory reporting limit

ORP = Oxygen reduction potential

DO = Dissolved oxygen

CO₂ = Carbon dioxide

mV = Millivolts

µg/L = Micrograms per liter

mg/L = Milligrams per liter

APPENDIX A

Detailed Site History

Previous Environmental Activities at Site

In 1989, Applied GeoSystems, Inc. (AGS) conducted a subsurface evaluation in the vicinity of the then present USTs, including two 6,000-gallon and two 4,000-gallon single-walled steel gasoline USTs located in the northern corner of the Site, and one smaller waste oil UST located at the southeast corner of the Station Building (historically reported as to have been of 550-gallon, 300-gallon or 280-gallon capacity). Five soil borings (B-1 through B-5) were advanced in the vicinity of these USTs with borings B-1 through B-4 advanced in the vicinity of the gasoline USTs and B-5 advanced near the waste oil UST. Borings B-1 through B-5 were advanced to first-encountered groundwater. In the area of the former gasoline USTs, soil samples from borings B-1 through B-4 contained Gasoline Range Organics (GRO) up to 12,000 milligrams per kilogram (mg/Kg) and Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX) up to 60 mg/Kg, 450 mg/Kg, 110 mg/Kg and 660 mg/Kg, respectively. Soil samples from boring B-5 in the area of the former waste oil UST contained GRO up to 2,600 mg/Kg, Total Oil & Grease (TOG) up to 4,800 mg/Kg, and BTEX up to 10 mg/Kg, 90 mg/Kg, 21 mg/Kg, and 130 mg/Kg, respectively. No halogenated volatile organic compounds (HVOCs) were detected above the laboratory reporting limits. Reportedly, separate-phase hydrocarbons (SPH, or free product) were encountered in each of the five borings (AGS, 1989). Historical data is included in Appendix C.

In January 1990, GeoStrategies, Inc. (GSI) removed the five former USTs and product lines from the Site, which had reportedly been installed in 1974. Approximately 588 cubic yards (yd³) of soil were removed with the former gasoline USTs and product line trenching excavation. The excavation size of approximately 35 feet by 60 feet was reportedly constrained by existing structures. Approximately 288 yd³ of this soil contained GRO exceeding 1,000 mg/Kg, while the remaining 300 yd³ contained GRO exceeding 100 mg/Kg. Approximately 15 yd³ of soil were excavated during removal of the waste oil UST. Finally, approximately 950 yd³ of soil was removed from the excavation for the replacement USTs in the southwestern portion of the Site. Reportedly the 950 yd³ contained less than 10 mg/Kg GRO. The former excavations were reportedly backfilled with pea gravel. However, a six-inch diameter recovery well RW-1 was installed in the pea gravel backfill for the former waste oil UST (GSI, 1990). Data including maps and tables from these activities is included in Appendix C.

In June of 1990, AGS advanced soil borings B-6 through B-8) at the Site and completed these borings as monitoring wells MW-1, MW-2 and MW-3. Thin layers (less than 1½ feet thick) of sandy clay and/or clayey sands were observed between eight and twelve feet below ground surface (feet bgs). Soil samples from boring B-6 near the former waste oil UST indicated the following maximum concentrations:

- GRO at 420 mg/Kg
- Diesel range organics (DRO) at 280 mg/Kg
- TOG at 190 mg/Kg, and
- BTEX at 6.0 mg/Kg, 27 mg/Kg, 8.8 mg/Kg, and 52 mg/Kg, respectively
- Naphthalene at 2.9 mg/Kg
- 2-methylnaphthalene at 2.6 mg/Kg
- HVOCs were not detected above reporting limits.

Soil samples from boring B-7 contained maximum concentrations GRO at 9.3 mg/Kg, and maximum BTEX concentrations at 0.99 mg/Kg, 0.71 mg/Kg, 0.50 mg/Kg and 1.3 mg/Kg, respectively. Soil samples from boring B-8 in the southwest corner of the Site contained a maximum GRO of 620 mg/Kg, maximum BTEX concentrations of 11 mg/Kg, 30 mg/Kg, 16 mg/Kg and 82 mg/Kg, respectively. Wells MW-1 through MW-3 were developed on July 11, 1990 and sampled on July 17, 1990. Samples from these wells were not analyzed due to the presence of SPH (AGS, 1990). Data including maps and tables from these activities is included in Appendix C.

In May of 1991, RESNA Industries, Inc. (RESNA)/AGS advanced six soil borings onsite (B-9 through B-13 plus B-11A), and completed five into wells MW-4 through MW-8. Maximum GRO concentration were reported at 2,700 mg/Kg in boring B-10 (MW-5) located immediately west of the former USTs. Samples of groundwater were collected from wells MW-2, MW-5 and MW-8. Wells MW-1 and MW-3 were not sampled due to the presence of SPH, and remaining wells were not sampled due to insufficient water. A soil vapor extraction test was performed from wells MW-1 through MW-6. The results of this test indicated that vapor extraction efficiency was limited by the thin vadose zone and low permeability soils. A well search conducted to a half-mile radius found 69 wells: two domestic (both upgradient), one cathodic protection (upgradient at an Exxon Station), 27 monitoring wells, 32 irrigation wells (most to the west and northwest), four test wells (three to the north and one to the south), two abandoned wells (north and south), and one of unidentified use (to the northeast). Finally, records research for possible secondary sources of contamination found Shell Station #129460 at 15275 Washington Avenue, Greenhouse Plaza at 699 Lewelling Boulevard, GASCO Station #798 at 15201 Washington Avenue, and a Mobil Station at 15119 Washington Avenue, and California Department of Transportation site at 600 Lewelling Boulevard (Located across Lewelling Boulevard upgradient across intersection).

RESNA oversaw field activities where onsite borings and (B-16, B-17, and B-20 through B-22) and two offsite borings (B-18 and B-19) were advanced. Onsite borings B-16 and B-17 were advanced in October 1992 and converted into wells MW-11 and MW-12. Subsequently offsite borings B-18 and B-19 were advanced and completed as monitoring wells MW-13 and MW-14, respectively. RESNA reported lithology comprised of interbedded sand within silty clay (RESNA, 1993), which was consistent with previous data.

Also in October 1992, RESNA as a result of petroleum-impacted soil being observed by Pacific Gas & Electric Company (PG&E) during a trenching operation to replace gas lines in the public right of way along the northwestern border of the Site. Nine soil borings (B-23 through B-31) were advanced in Lewelling Boulevard adjacent to the Site. Lithology observed in these borings included native silts and clays, with the exception of boring B-23 where sandy trench backfill was encountered. A limited number of sand lenses encountered above the water table appeared to contain perched groundwater. Subsurface soils in the vadose zone contained low concentrations of GRO at maximum concentration of 20 mg/Kg, and BTEX up to 2.7 mg/Kg in borings B-23 through B-28 and B-31. Subsurface soils in the capillary fringe zone, above first encountered ground water (depths of seven to ten feet bgs) in borings B-24, B-27 and B-31 contained GRO concentrations greater than 100 mg/Kg. Borings B-29 and B-30 appeared to have delineated the lateral extent of subsurface contamination. The vertical extent of contamination was delineated

to a depth of 15½ feet bgs (RESNA, 1993). The locations of these borings are presented in Drawings 2 and 8.

In December 1992, the California Regional Water Quality Control Board (RWQCB) issued Cleanup and Abatement Order # 92-147 (CAO 92-147) to Atlantic Richfield Company and Mr. John J. Sullivan, owner of the adjacent downgradient property. This order required an access agreement be made between Atlantic Richfield Company and Mr. Sullivan for the purpose of allowing the required additional investigation of ground water and soil downgradient of the Site, or for Mr. Sullivan to submit a work plan to conduct the investigation himself.

In March 1993, RESNA advanced offsite borings B-32A and B-32B, and completed boring B-32B into monitoring well MW-15. In May 1993, RESNA advanced offsite borings B-33 and B-34 on the Sullivan property downgradient from the Site. Borings B-33 and B-34 were completed as wells MW-10 and MW-9, respectively. The results of this investigation delineated GRO concentrations in soil to less than 1.0 mg/Kg offsite to the east, southeast, west, and southwest, and onsite in the southeastern portion of the Site. A review of all previous data and the March 1993 investigation indicated that soil was delineated to less than 100 mg/kg at a depth of about 15 feet beneath the Site in the silty clay confining layer beneath thin, water-bearing sandy layers. RESNA also performed step-drawdown pumping tests on wells MW-8 and MW-12, and performed two 12-hour pumping tests on well MW-8 at different pumping rates. Based on their findings from the pumping tests, RESNA concluded that pump and treat would not be a viable technology for groundwater remediation at the Site.

In 1997, EMCON conducted a soil gas investigation and risk-based corrective action (RBCA) analysis. Seven soil gas borings were collected at 1½ feet bgs and 4 feet bgs. No BTEX were detected at 1½ feet bgs. Benzene was detected at 0.5 milligrams per cubic meter (mg/m³) at 4 feet bgs behind the station building. The RBCA evaluation was reportedly conducted consistent with guidelines then established by the American Society of Testing and Materials (ASTM). EMCON concluded that the results showed that concentrations of BTEX detected in soil and ground water at the Site did not exceed concentrations that correspond to acceptable levels of risk (EMCON, 1997).

In May 2002, Delta Environmental Consultants, Inc. (Delta) advanced three hand-auger borings (HB-2 through HB-4) to approximately 10½ feet bgs adjacent to the Oro Loma sanitary sewer pipeline within Lewelling Boulevard. Upgradient hand-auger boring HB-1 was not advanced due to potential conflict with the traffic signal. Grab samples of water collected from HB-2, HB-3, and HB-4 contained GRO at 28,000 micrograms per liter (µg/L), 38,000 µg/L, and 630 µg/L, respectively. Benzene was detected in HB-2, HB-3, and HB-4 samples at 570 µg/L, 1,200 µg/L, and 62 µg/L, respectively. Methyl-Tertiary Butyl Ether (MTBE) was detected in the sample from HB-4 at a concentration of 160 µg/L (Delta, 2002).

In June 2003, Wilcon Builders removed the dispensers and product piping and excavated soils in their vicinity. URS Consultants, Inc. (URS) reported no obvious soil staining at the soil sample locations. Slight hydrocarbon odors were reported beneath the pipelines at sample locations PL-2, PL-7 and PL-13. Strong hydrocarbon odors were reported at dispenser sample location D-6 with photo-ionization detector (PID) measurements up to 685 parts per million (ppm) at D-6. Eight soil samples designated D-1 through D-8 were collected between 4-5 feet bgs.

Sample D-6 contained BTEX at 7 mg/Kg, 230 mg/Kg, 55 mg/Kg, and 350 mg/Kg, respectively. Twelve soil samples designated PL-1 through PL-4, and PL-7 through PL-14 were collected between four to six feet bgs. Samples PL-2 and PL-3 contained very low concentrations of BTEX. No MTBE was detected in soil samples. Groundwater was encountered during dewatering of the pit and stored in a 21,000 gallon Baker tank. A sample of water from the Baker tank did not contain BTEX above the laboratory reporting limits, but did contain MTBE at 290 µg/L (URS, 2003).

In 2004, URS administered an oxygen release compound (ORC) to onsite wells MW-2, MW-3, MW-5, and MW-8.

In November 2006, Stratus Environmental, Inc. (Stratus), under direction from BAI, advanced one soil boring and one Hydropunch boring both to a depth of 58 feet bgs in the southern portion of the for vertical characterization and delineation of hydrocarbons in soil and groundwater. The lithology encountered included thin layers of clayey sand at 24½-26½ feet bgs, 46½-47 feet bgs, and 53-54 feet. Sand with clay was encountered from 55-58 feet bgs (the total depth). Samples collected from the sand layers did not contain BTEX, MTBE, GRO or Oil-Range Organics (ORO) above the laboratory reporting limits. Low concentrations of a contaminant reported in the Diesel Range Organics (C10-C28) were detected, however, the laboratory reported that the chromatogram profiles did not resemble the referenced fuel standard (BAI, 2007).

An Initial Site Conceptual Model with Soil & Groundwater Investigation Work Plan was submitted to ACEH on March 24, 2009 per request in a letter dated November 14, 2008. In June 2009, six soil vapor sampling wells (SG-9 through SG-14) were installed at the Site (Drawing 2) to assess vapor intrusion as a potential migration pathway. One minor concentration of Toluene (0.0033 milligrams per cubic meter) was detected in soil vapor sampling point SG-11. No other constituents were detected above their respective laboratory reporting limits. The detected Toluene concentration was below the Environmental Screening Level (ESL) established by the San Francisco Regional Water Quality Control Board (SFRWQCB). Oxygen and Carbon Dioxide were also detected in the soil gas at levels indicating subsurface biodegradation was occurring. A detailed description of field activities and results associated with this vapor intrusion assessment can be found in the *Vapor Intrusion Assessment and Soil & Groundwater Investigation Report* (BAI, 2009a).

In June 2009, four soil borings were advanced onsite and completed as wells MW-16 through MW-19 to replace existing wells MW-4 through MW-7, which were often observed to be dry. A total of 24 soil samples were collected. GRO concentrations were detected above laboratory reporting limits in 15 of the 24 soil samples collected. Minimal BTEX concentrations were also observed in several of the soil samples collected. A detailed description of field activities and results associated with this soil and ground-water investigation can be found in the *Vapor Intrusion Assessment and Soil & Groundwater Investigation Report* (BAI, 2009b).

In March 2011, BAI oversaw the advancement of four direct-push technology (DPT) borings (identified as SB-1 through SB-4) on the Site to evaluate potential residual petroleum hydrocarbon impacts to soil and groundwater (Drawing 9). Soil samples were collected as each borehole was advanced. When first groundwater was encountered a grab-groundwater sample was collected from each borehole. Concentrations of GRO were detected above the laboratory

reporting limits in 11 of the 12 soil samples collected, with concentrations a maximum concentration of 250 mg/Kg in boring SB-2 at 9.0 feet bgs. BTEX, MTBE, TBA, TAME, 1,2-DCA, EDB, DIPE, ETBE and Ethanol were not detected above their respective laboratory reporting limit all other soil samples. In grab-groundwater samples, residual petroleum compounds were reported as follows:

- GRO in all four samples ranging from 9,400 µg/L in SB-3 to 140,000 µg/L in SB-2
- Benzene in three samples, from 2.5 µg/L in SB-3 to 380 µg/L in SB-2
- Toluene in one sample, at 2.3 µg/L in SB-3
- Ethylbenzene in four samples, from 1.9 µg/L in SB-3 to 130 µg/L in SB-2
- Total Xylenes in one sample at 3.4 µg/L in SB-3
- MTBE in two samples collected, from 2.1 µg/L in SB-3 to 2.2 µg/L in SB-
- TBA in one sample at of 250 µg/L in SB-2

Concentrations of TAME, 1,2-DCA, EDB, DIPE, ETBE and Ethanol were not detected above their respective laboratory reporting limits for each sample. Details of this investigation are presented in BAI's *Soil & Groundwater Investigation and First Quarter 2011 Monitoring Report* dated April 6, 2011 (BAI, 2011).

Quarterly ground-water monitoring at the Site was initiated in June 1990. Recent ground-water monitoring data is provided in Tables 1-5. Historic groundwater and soil analytical data, are included in Appendix C.

Previous Environmental Activities at Adjacent Former Shell Station

As mentioned in Above, the Site is located south of Former Shell Station #129460, an active release site (ACEH Case # RO0000372 / GeoTracker Global ID T0600101226). The former Shell Station is located immediately north of Lewelling Boulevard, on the northwest corner of Lewelling Boulevard and Washington Avenue at 15275 Washington Avenue. Background and specific historical information useful with respect to the Site is summarized below.

According to GeoTracker, the leak at the former Shell Station was discovered on in July 1985 reported in August 1986, and stopped in June 1987. In November 1988, several additional monitoring wells were installed to support subsurface characterization associated with the former Shell Station, including wells S-8, S-10, S-11 and S-12. In March 1989, several additional monitoring wells were including wells S-13 and S-14 adjacent to the Site. Monitoring wells S-8 and S-10 are located just northwest of Lewelling Boulevard, across the street from Station No. 601. Monitoring wells S-11, S-12 and S-13 are located near the center of Lewelling Boulevard, between the former Shell Station and Station No. 601. Well S-14 is located within the southeastern side of Lewelling Boulevard, just northwest of Station No. 601. Locations of Shell wells S-8, S-10, S-11, S-12, S-13, and S-14 are exhibited in Drawings 2 and 3.

References

- Applied GeoSystems, November 9, 1989. *Limited Environmental Site Assessment at ARCO Service Station # 601, Southwest Corner of Washington Avenue and Lewelling Boulevard, San Leandro, California.*
- Applied GeoSystems Inc., December 14, 1990. *Subsurface Environmental Assessment at ARCO Station 601, 712 Lewelling Boulevard, San Leandro, California.*
- BAI, March 28, 2007. *Soil and Water Investigation Report, Atlantic Richfield Company Station #601, 712 Lewelling Boulevard, San Leandro, California.*
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- Delta Environmental Consultants, Inc., July 31, 2002. *Hand Auger Boring Installation Report, ARCO Service Station 601, 712 Lewelling Boulevard, San Leandro, California.*
- EMCON, June 9, 1997. *Tier I, Tier II Risk-Based Corrective Action Evaluation for, ARCO Service Station 601, 712 Lewelling Boulevard, San Leandro, California.*
- RESNA/Applied GeoSystems, Inc., October 17, 1991. *Subsurface Environmental Assessment and Vapor Extraction Test at ARCO Service Station 601, 712 Lewelling Boulevard, San Leandro, California.*
- RESNA, February 3, 1993, *Limited Offsite Subsurface Investigation at ARCO Station 601, 712 Lewelling Boulevard, San Leandro, California.*
- RESNA, March 3, 1993. *Additional Subsurface Investigation at ARCO Station 601, 712 Lewelling Boulevard, San Leandro, California.*
- RESNA, August 5, 1993. *Additional Offsite Subsurface Investigation, Aquifer Pumping Test and Remedial Alternatives Feasibility Study at ARCO Station 601, 712 Lewelling Boulevard, San Leandro, California.*

URS, October 9, 2003. *Dispenser and Product Line Removal and Upgrade Soil Sampling Report, ARCO Service Station #0601, 712 Lewelling Boulevard, San Leandro, California.*

APPENDIX B

GRO, Benzene, and MTBE Concentration Trend Graphs

Figure 1
MW-1 Concentrations and Groundwater Elevation vs Time
Atlantic Richfield Company Station #601
712 Lewelling Blvd, San Leandro, California

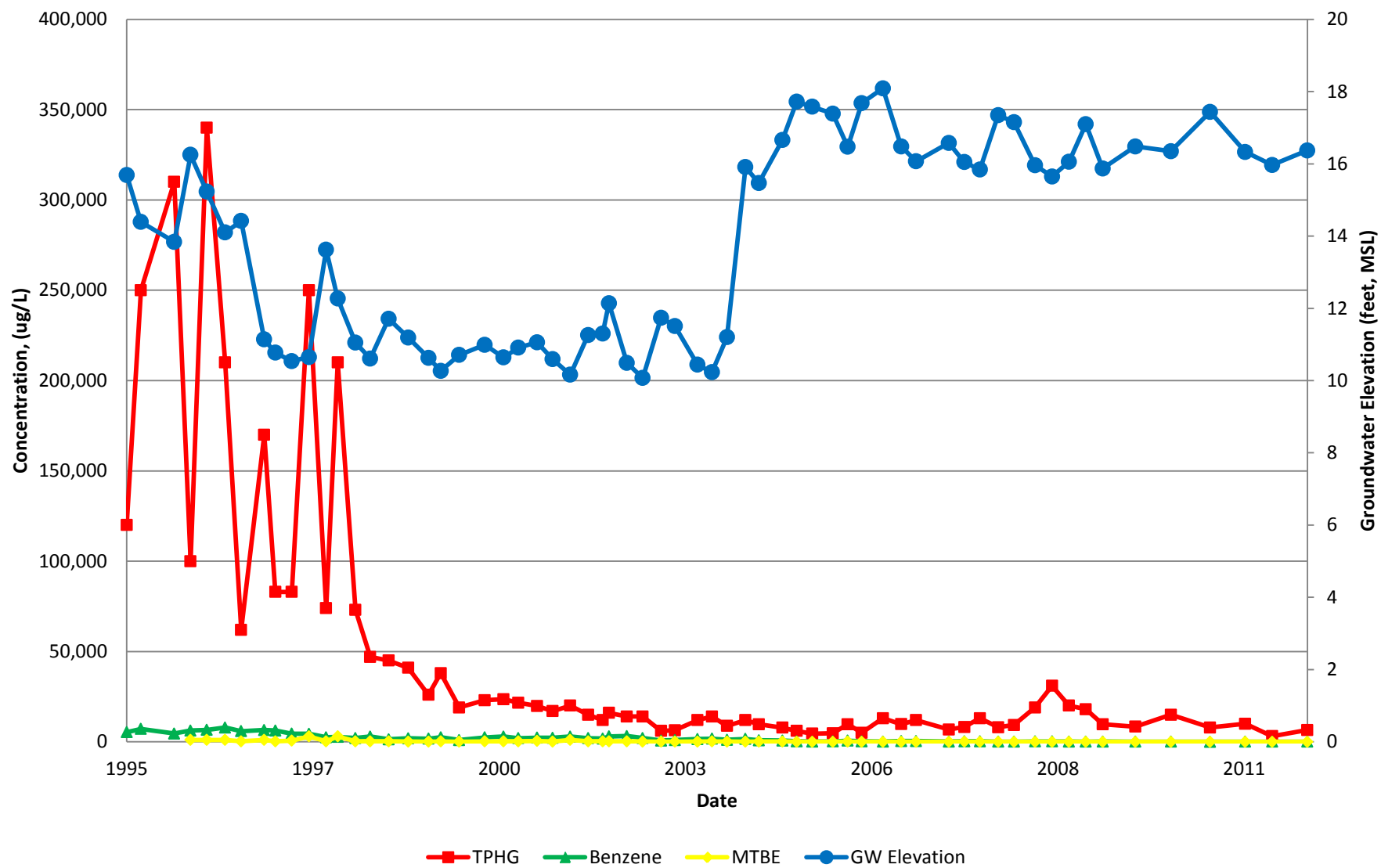


Figure 2
MW-2 Concentrations and Groundwater Elevations vs Time
Atlantic Richfield Company Station #601
712 Lewelling Blvd, San Leandro, California

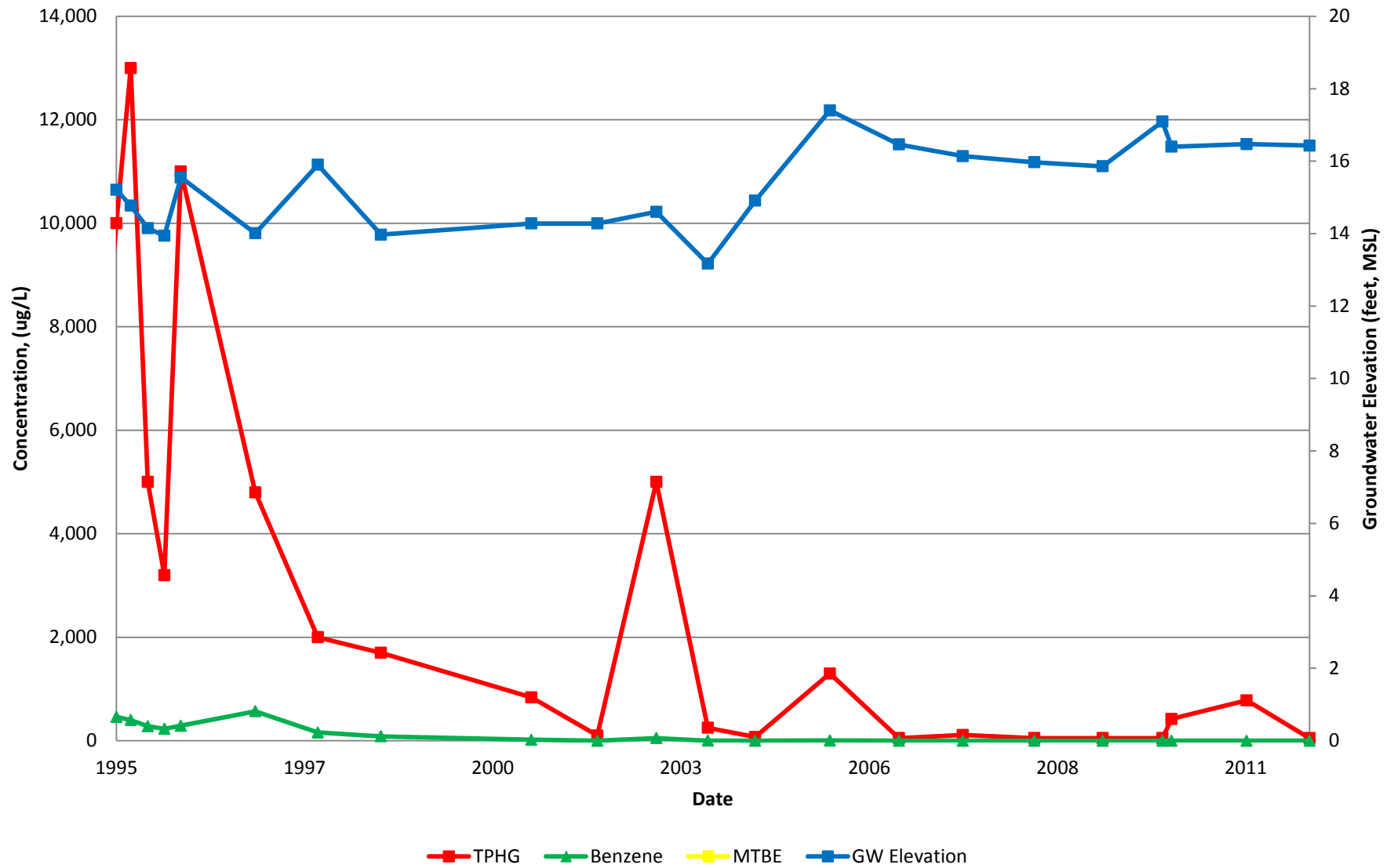


Figure 3
MW-3 Concentrations and Groundwater Elevation vs Time
Atlantic Richfield Company Station #601
712 Lewelling Blvd, San Leandro, California

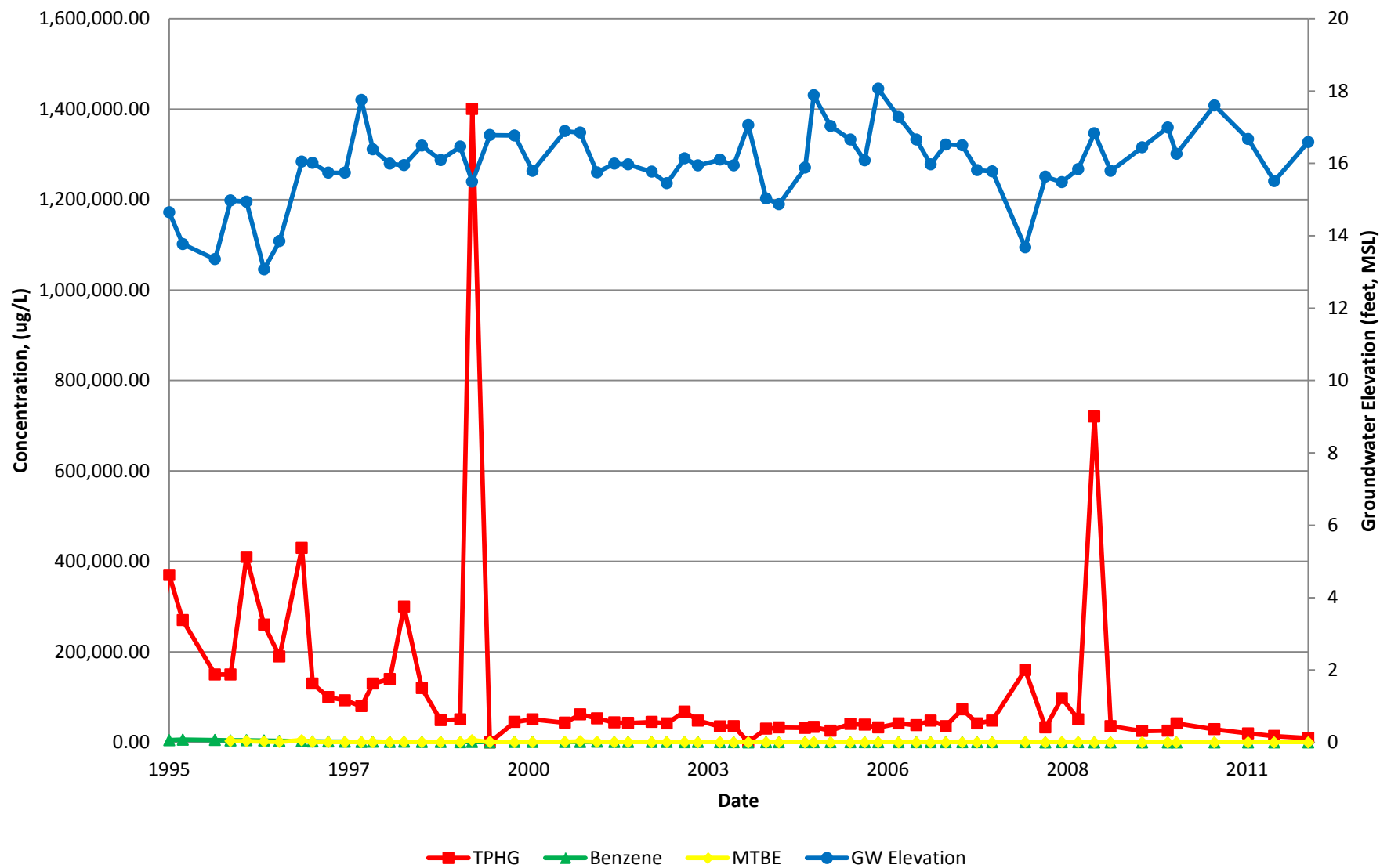


Figure 4
MW-4 Concentrations and Groundwater Elevations vs Time
Atlantic Richfield Company Stations #601
712 Lewelling Blvd, San Leandro, California

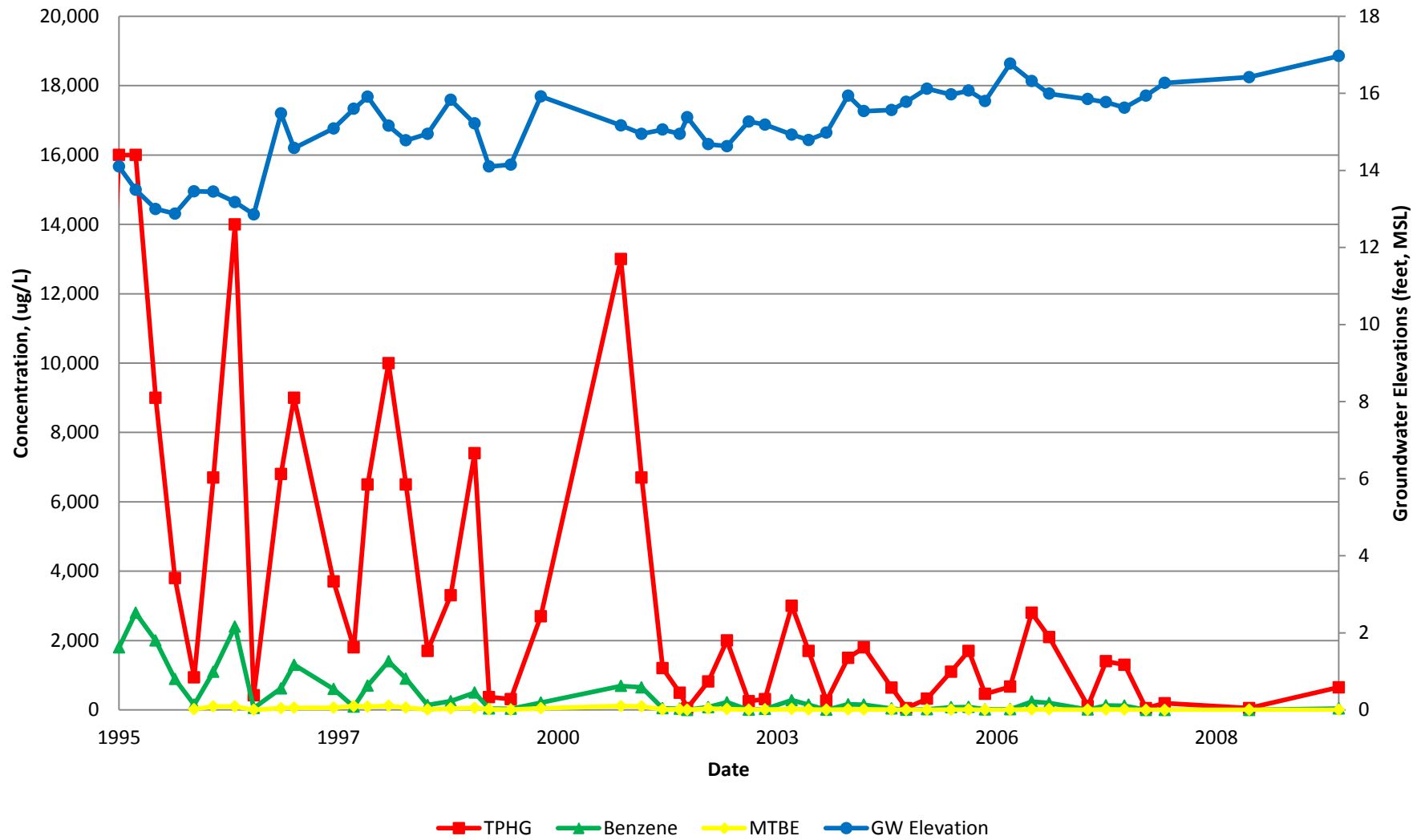


Figure 5
MW-5 Concentrations and Groundwater Elevations vs. Time
Atlantic Richfield Company Station #601
712 Lewelling Blvd, San Leandro, California

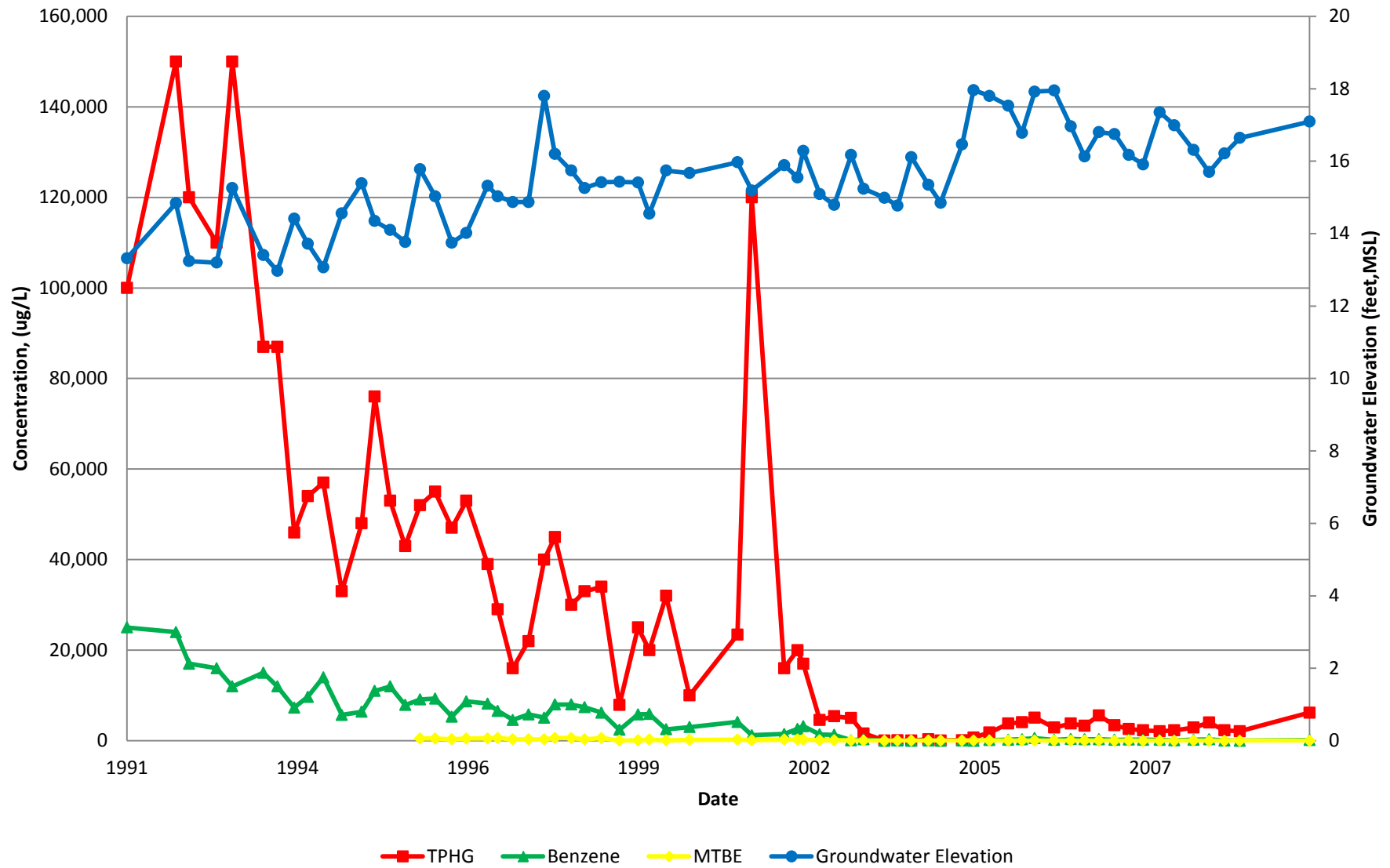


Figure 6
MW-6 Concentrations and Groundwater Elevations vs Time
Atlantic Richfield Company Station #601
712 Lewelling Blvd, San Leandro, California

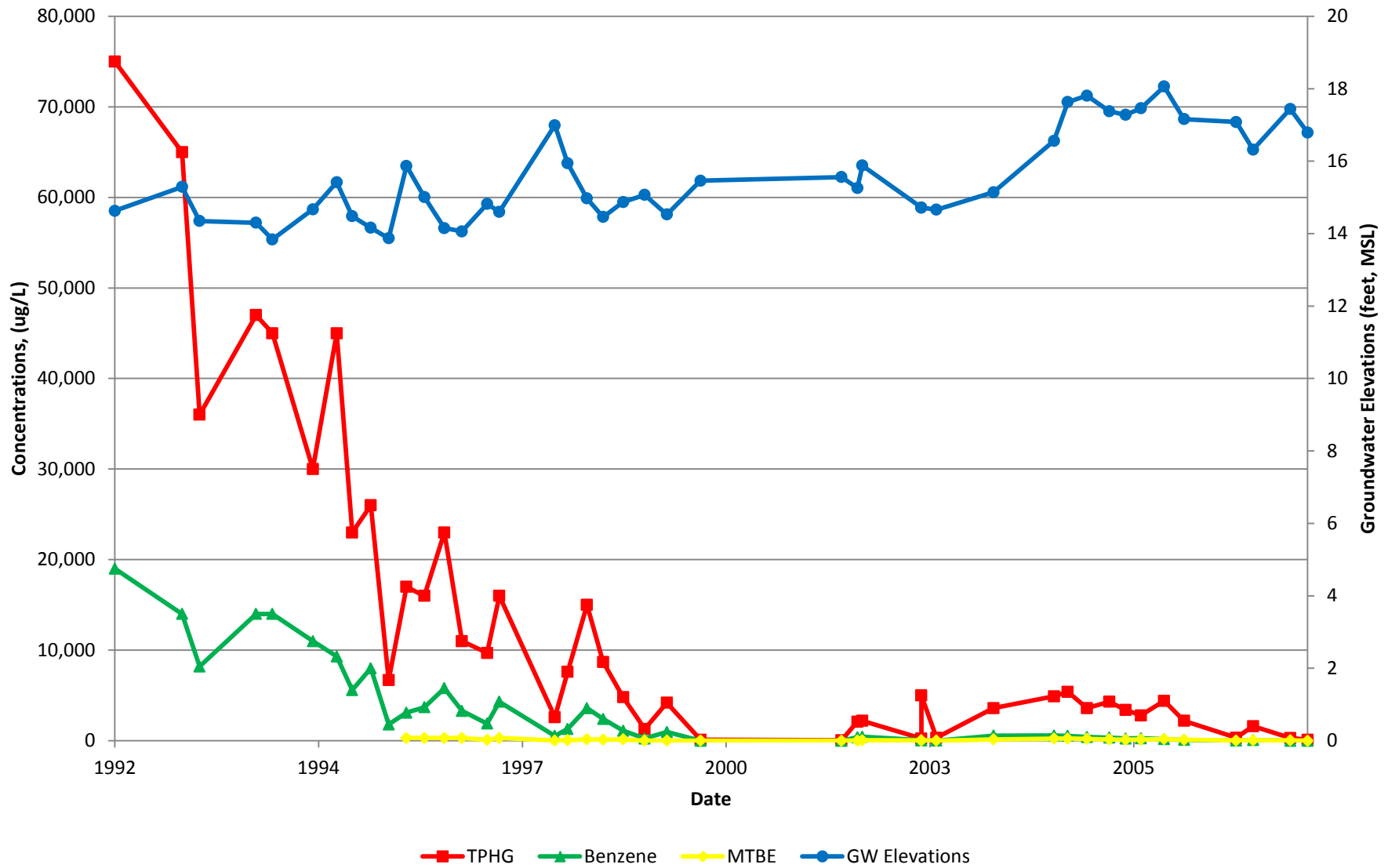


Figure 7
MW-8 Concentrations and Groundwater Elevations vs Time
Atlantic Richfield Company Station #601
712 Lewelling Blvd, San Leandro, California

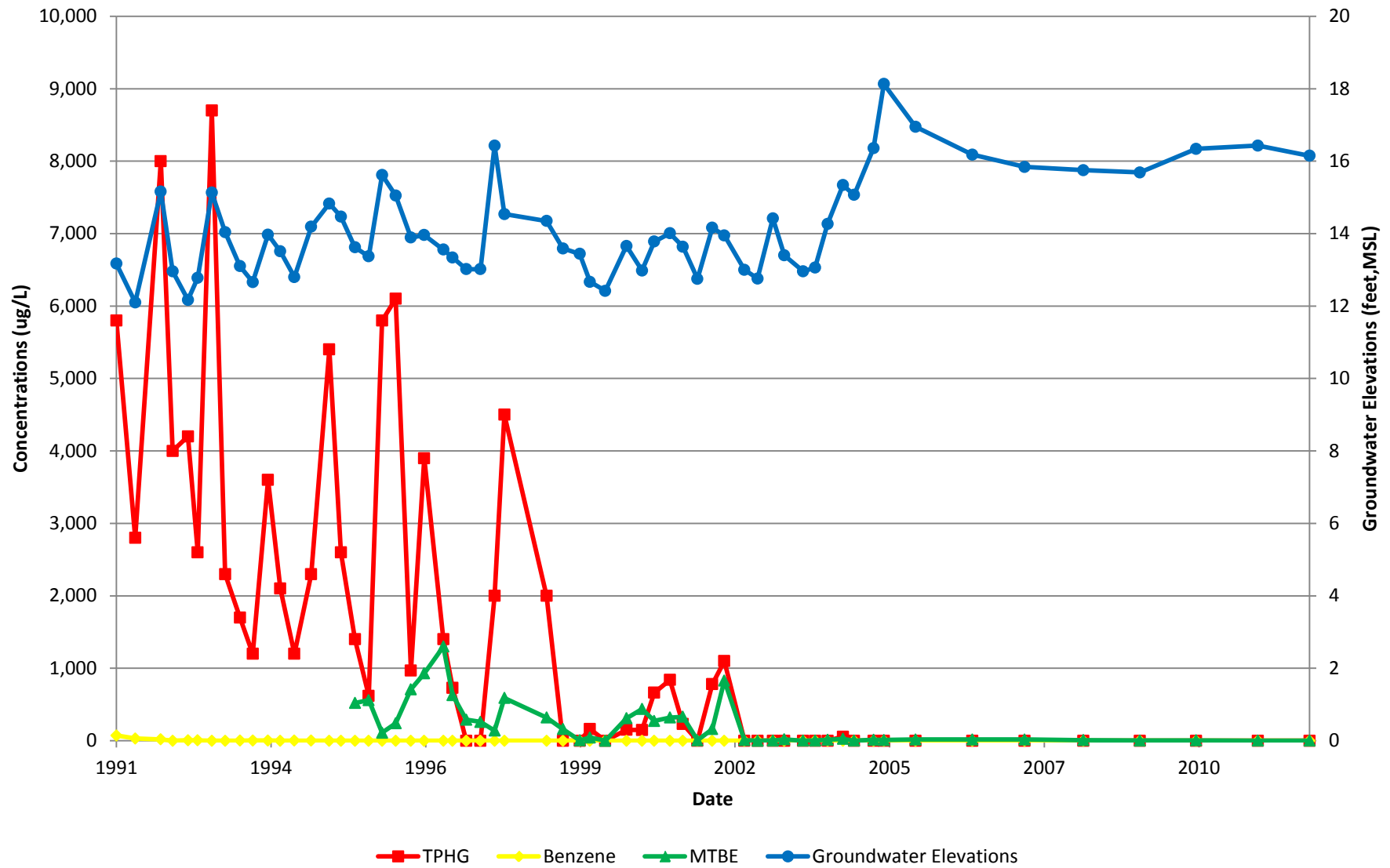


Figure 8
MW-16 Concentrations and Groundwater Elevations vs Time
Atlantic Richfield Company Station #601
712 Lewelling Blvd, San Leandro, California

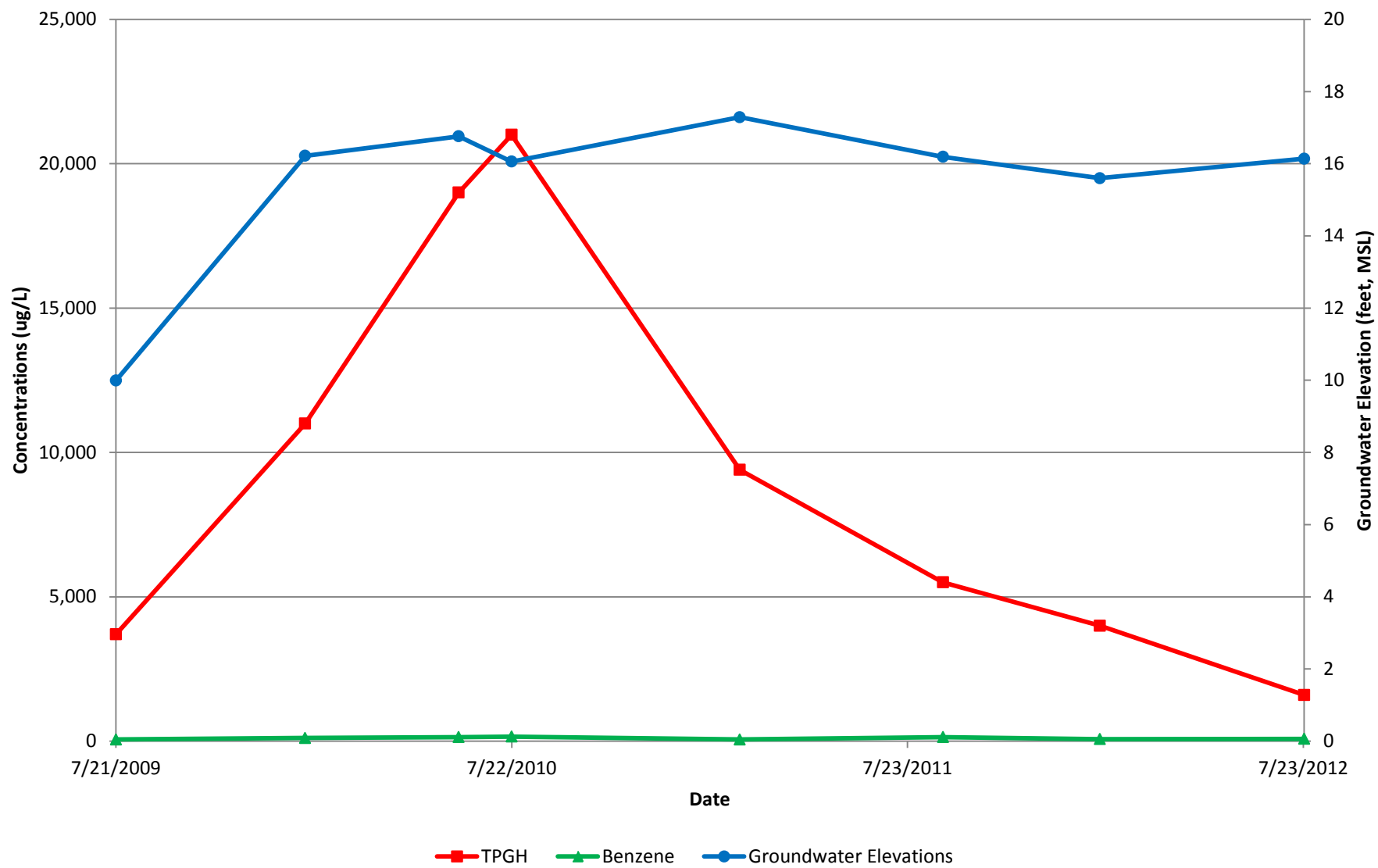


Figure 9
MW-17 Concentrations and Groundwater Elevations vs Time
Atlantic Richfield Company Station #601
712 Lewelling Blvd, San Leandro, California

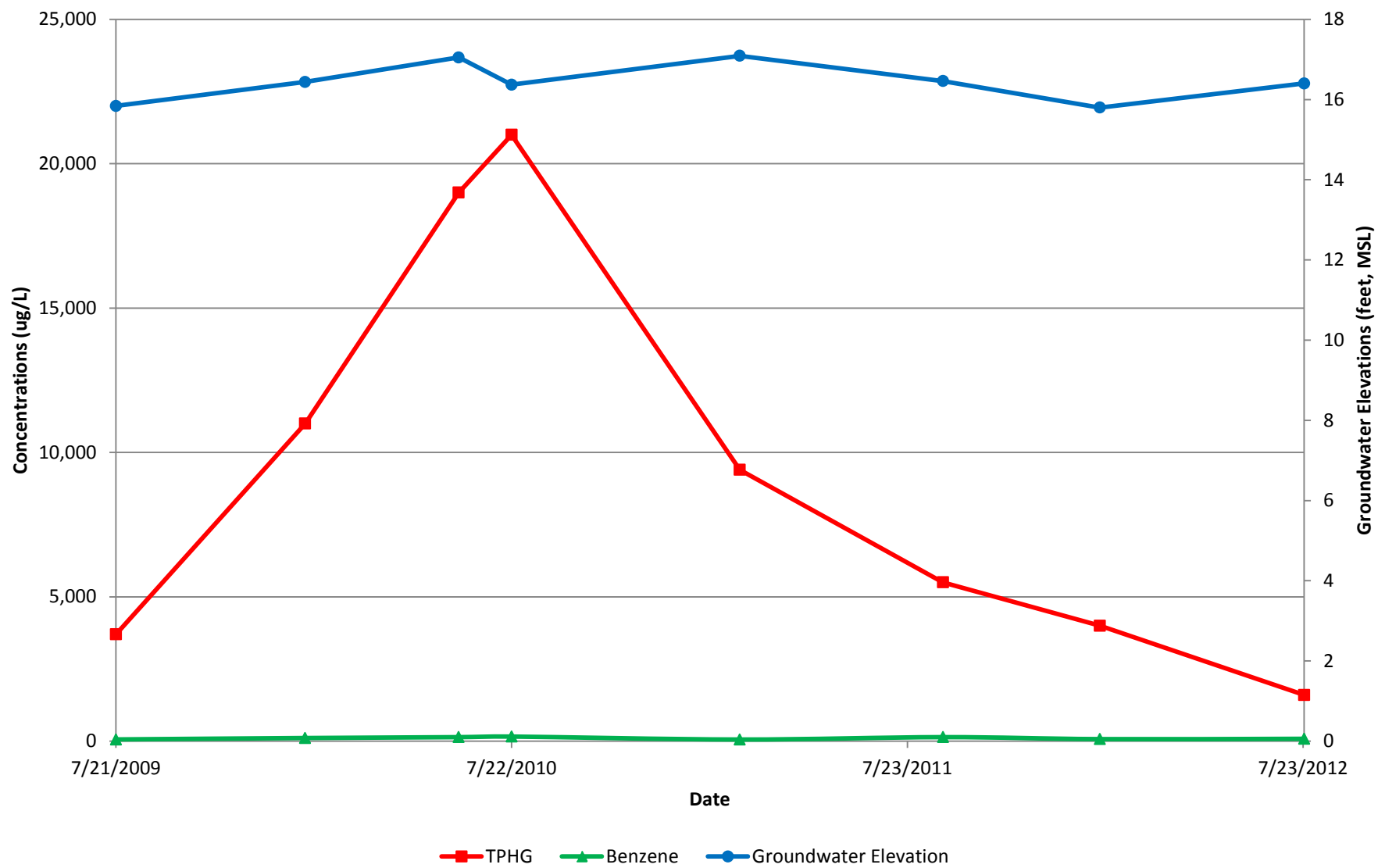
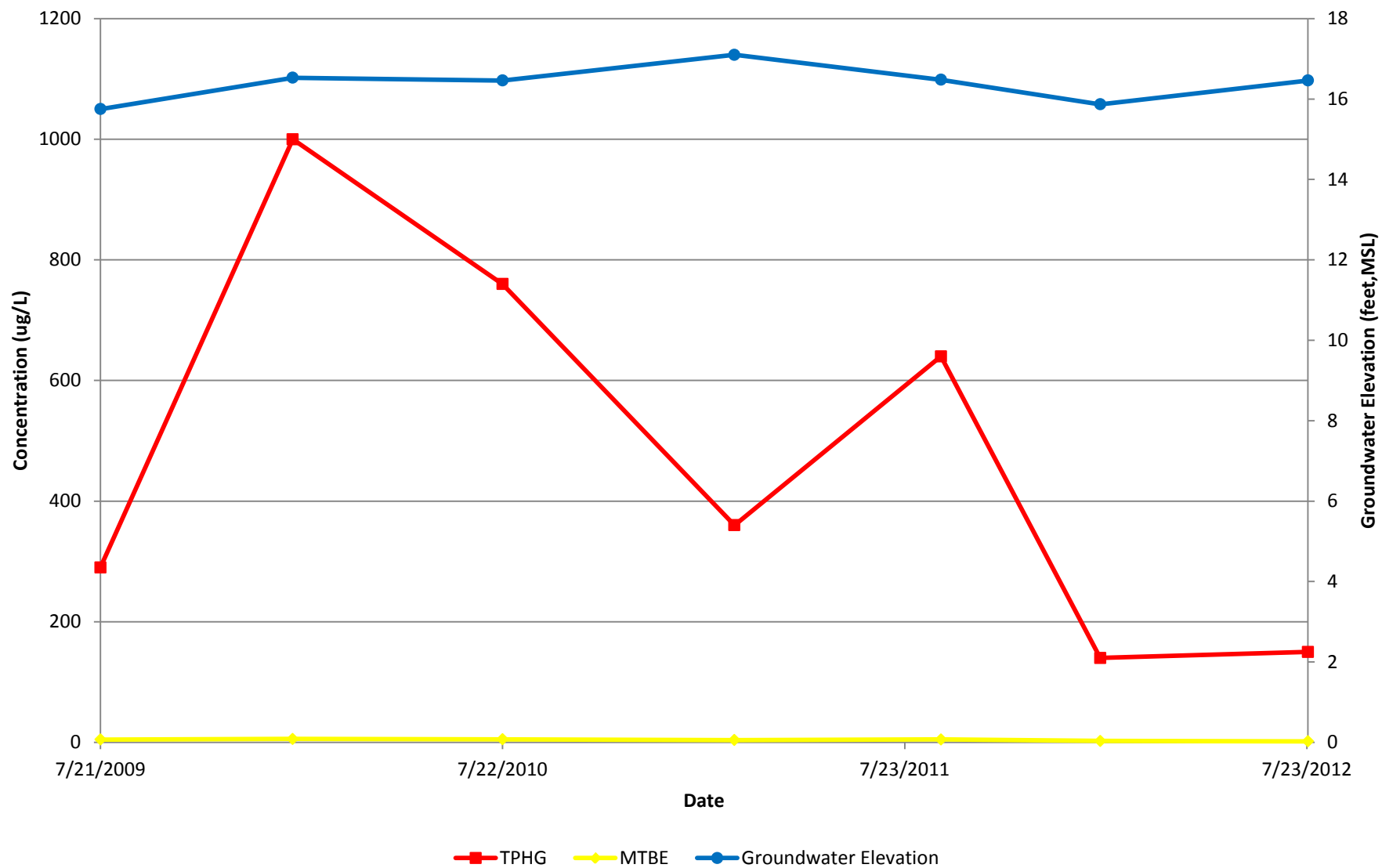
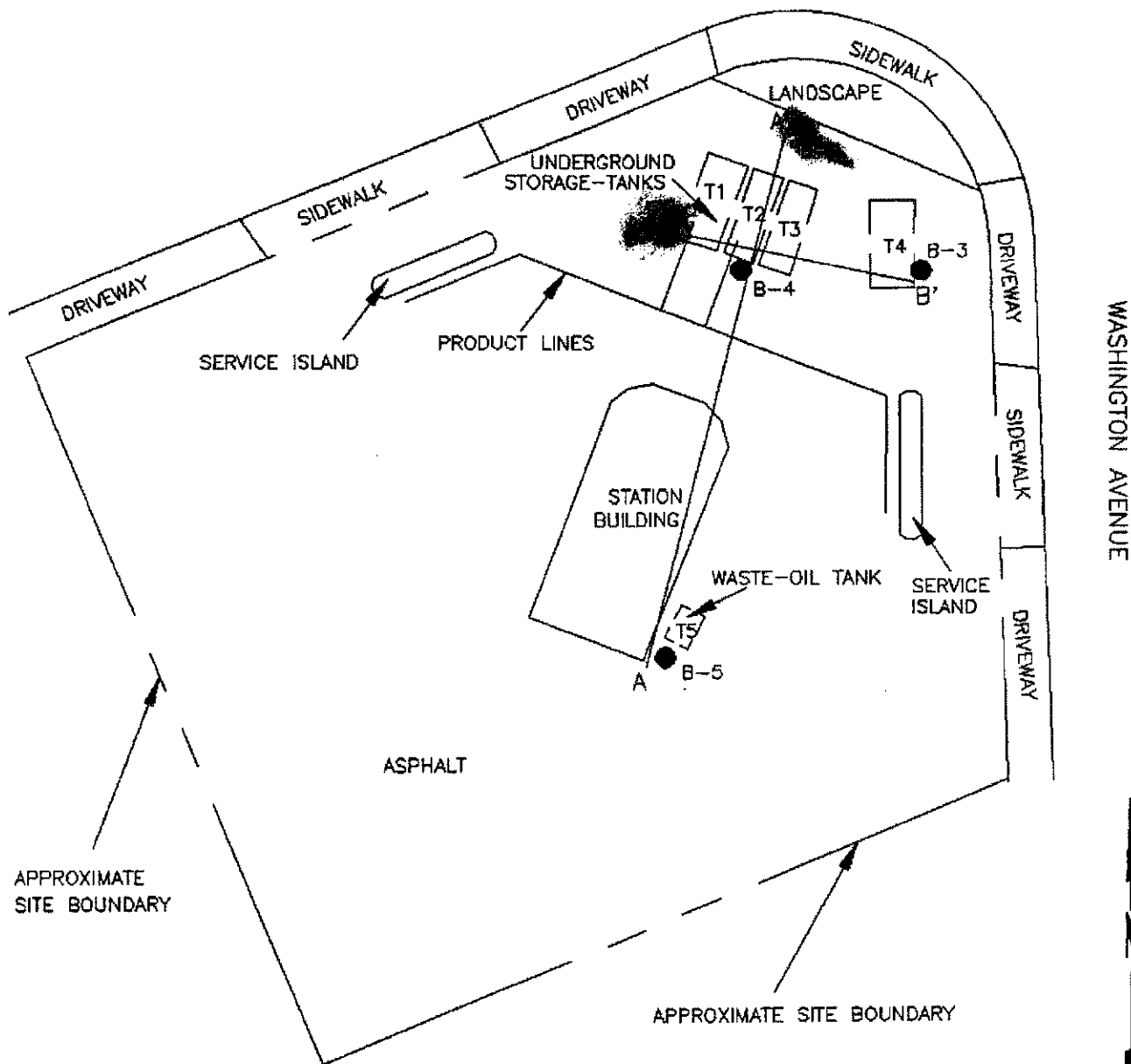


Figure 10
MW-18 Concentrations and Groundwater Elevation vs Time
Atlantic Richfield Company Station #601
712 Lewelling Blvd, San Leandro, California



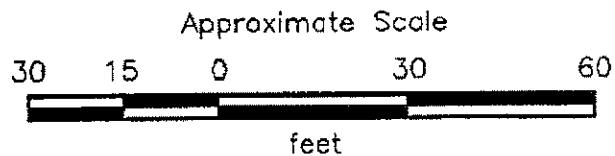
APPENDIX C

Historic Site Data



- A — A' = Location of cross sections
 B — B' = Presented in Plate P - 9
 B-5 ● = Soil boring

Source: Modified from plan supplied by Arco



PROJECT NO. 69034-1

GENERALIZED SITE PLAN
 ARCO Service Station No. 601
 Washington Ave. and Lewelling Blvd.
 San Leandro, California

PLATE
 P - 2

ppm respectively. VOC were nondetectable in samples analyzed from boring B-5. The results of the laboratory analyses are presented in the Analysis Data Sheets included in Appendix B. Laboratory results of samples analyzed for TPHg and BTEX are summarized in Table 1.

TABLE 1
RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES
ARCO Station No. 601
Washington Avenue and Lewelling Boulevard
San Leandro, California

Sample Identifier	TPHg	B	T	E	X	TOG	VOC
S-5-B1		8.3	19	5.1	26	NT	NT
S-10-B1		10	37	6	48	NT	NT
S-15-B1	<1	0.007	0.011	<0.005	0.012	NT	NT
S-5-B2	2,000		450	110	660	NT	NT
S-10-B2	<1	0.015	0.016	<0.005	0.018	NT	NT
S-14-B2	<1	0.015	0.030	<0.005	0.035	NT	NT
S-5-B3	23	0.710	<0.05	0.40	0.034	NT	NT
S-10-B3		0.700	3.2	1.4	9.6	NT	NT
S-5-B4	12	0.33	0.37	<0.05	0.75	NT	NT
S-10-B4	65	1.9	2.0	0.7	4.6	NT	NT
S-5-B5		2.1	3.8	0.8	2.8		BDC
S-10-B5		10	90	21	130		BDC

Results in milligrams per kilogram (mg/kg), or parts per million (ppm).

TPHg: Total petroleum hydrocarbons as gasoline

B:benzene T:toluene E:ethylbenzene X:total xylene isomers

BDC: Report concentration below detection concentration

NT: Not tested.

Sample identification:

S-10-B3

└─Boring number

└─Approximate sample depth in feet

└─Soil sample

TABLE 1

SOIL ANALYSES DATA

SAMPLE NO	SAMPLE DATE	ANALYZED DATE	TPH (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)	DIESEL (PPM)	OIL (PPM)	OIL & GR (PPM)
AP-1	24-Jan-90	29-Jan-90	6.8	0.13	<0.025	<0.025	0.20	N/A	N/A	N/A
AP-2	24-Jan-90	29-Jan-90	12.	0.71	0.049	0.31	0.60	N/A	N/A	N/A
AP-3	24-Jan-90	29-Jan-90	47.	1.1	2.1	0.63	5.5	N/A	N/A	N/A
AP-4	24-Jan-90	29-Jan-90	42.	5.1	10.	2.8	18.	N/A	N/A	N/A
AP-5	24-Jan-90	29-Jan-90	42.	1.5	3.9	0.95	14.	N/A	N/A	N/A
AT-1a	08-Jan-90	08-Jan-90	<10	0.043	0.072	0.013	0.085	N/A	N/A	N/A
AT-1b	08-Jan-90	08-Jan-90	<10	0.014	0.035	0.0079	0.046	N/A	N/A	N/A
AT-2a	08-Jan-90	08-Jan-90	<10	<0.005	0.0068	<0.005	<0.005	N/A	N/A	N/A
AT-2b	08-Jan-90	08-Jan-90	<10	0.0071	<0.005	<0.005	<0.005	N/A	N/A	N/A
AT-3a	08-Jan-90	08-Jan-90	<10	0.023	0.041	0.013	0.036	N/A	N/A	N/A
AT-3b	08-Jan-90	08-Jan-90	<10	0.016	<0.005	<0.005	0.0077	N/A	N/A	N/A
AT-4a	08-Jan-90	08-Jan-90	<10	0.068	0.17	<0.005	0.014	N/A	N/A	N/A
AT-4b	08-Jan-90	08-Jan-90	<10	<0.005	0.048	<0.005	0.08	N/A	N/A	N/A
ASW-1	09-Jan-90	09-Jan-90	ND	36	111	50	210	N/A	N/A	N/A
ASW-2	09-Jan-90	09-Jan-90	ND	ND	509	220	980	N/A	N/A	N/A
ASW-3	08-Jan-90	08-Jan-90	ND	3.1	3.1	3.8	15	N/A	N/A	N/A
ASW-4	09-Jan-90	09-Jan-90	ND	12	46	26	129	N/A	N/A	N/A
ANP-1	10-Jan-90	10-Jan-90	ND	8.1	3.9	5.8	20	N/A	N/A	N/A
ANP-2	10-Jan-90	10-Jan-90	36	2	.8	1.4	5.1	N/A	N/A	N/A

ALL DATA SHOWN AS <X ARE REPORTED AS ND (NONE DETECTED)

TABLE 2

=====

SOIL ANALYSES DATA

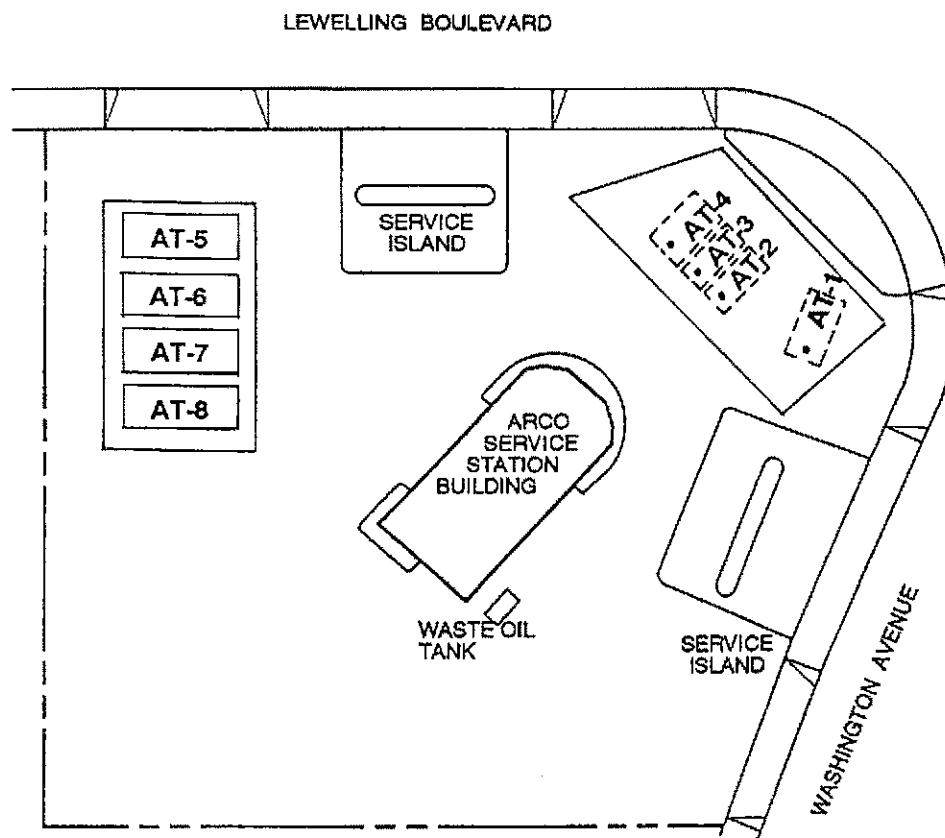
BORING NO	SAMPLE DATE	ANALYZED DATE	TPH (PPM)	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE (PPM)	XYLENES (PPM)	DIESEL (PPM)	OIL (PPM)	OIL & GR (PPM)
AWO-1	09-Jan-90	15-Jan-90	690.	<0.010	0.027	0.019	0.69	630.	N/A	4400.
AWO-3	26-Jan-90	30-Jan-90	15.	1.5	0.08	0.25	0.88	11.	<20.	<50.
AWO-5	26-Jan-90	30-Jan-90	<3.0	0.11	0.11	<0.03	0.10	<5.	<20.	<50.

ALL DATA SHOWN AS <X ARE REPORTED AS ND (NONE DETECTED)

TABLE 3

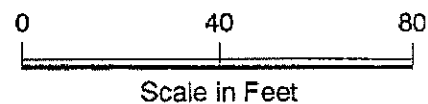
<u>Sample No.</u>	<u>Date Collected</u>	<u>TPH-Gasoline in PPM</u>	<u>Date Removed</u>	<u>Approximate Volume</u>
<u>Soils from Former UGST excavation</u>				
AS-1(a-d)	1-8-90	1,000	1-9-90	
AS-2(a-d)	1-8-90	1,900	1-9-90	
AS-3(a-d)	1-8-90	2,600	1-9-90	
AS-4(a-d)	1-8-90	2,000	1-9-90	
AS-5(a-d)	1-9-90	34	1-9-90	
AS-6(a-d)	1-9-90	560	1-9-90	288 yds ³
AS-8(a-d)	1-9-90	190	1-10-90	
AS-9(a-d)	1-9-90	230	1-10-90	
AS-10(a-d)	1-9-90	350	1-10-90	
AS-11(a-d)	1-9-90	690	1-10-90	
AS-12(a-d)	1-9-90	220	1-10-90	
AS-13(a-d)	1-9-90	340	1-10-90	300 yds ³
TOTAL				<u>588 yds³</u>
<u>Soils from New UGST excavation</u>				
AS-14(a-d)	1-10-90	10	1-12-90	
AS-15(a-d)	1-10-90	44	1-12-90	
AS-16(a-d)	1-10-90	45	1-12-90	150 yds ³
AS-17(a-d)	1-12-90	10.7	1-15-90	
AS-18(a-d)	1-12-90	10.4	1-15-90	
AS-19(a-d)	1-12-90	9.2	1-15-90	150 yds ³
AS-31(a-d)	1-16-90	4.4	1-22-90	
AS-32(a-d)	1-16-90	74	1-22-90	
AS-33(a-d)	1-16-90	<2.5	1-22-90	
AS-34(a-d)	1-16-90	8.4	1-22-90	
AS-35(a-d)	1-16-90	14	1-22-90	
AS-36(a-d)	1-16-90	11	1-22-90	
AS-37(a-d)	1-16-90	9.6	1-22-90	
AS-38(a-d)	1-16-90	12	1-22-90	
AS-39(a-d)	1-16-90	<2.5	1-22-90	
AS-40(a-d)	1-16-90	9.2	1-22-90	
AS-41(a-d)	1-16-90	3.0	1-22-90	550 yds ³
AS-43(a-d)	1-24-90	16	1-26-90	
AS-44(a-d)	1-24-90	18	1-26-90	<u>100 yds³</u>
TOTAL				950 yds ³

Note: Soil volumes are estimates based on the weight and volume capacities of the trailers used for hauling the soils.



EXPLANATION

- Fill riser
- AT-1 Tank Designation
- Regular Gasoline
AT-1 and 6
- Unleaded Gasoline
AT-2, 3, 7 and 8
- Super Unleaded Gasoline
AT-4 and 5



GeoStrategies Inc.

Tank Designation Map
Arco Service Station #601
712 Lewelling Boulevard
San Leandro, California

PLATE

2

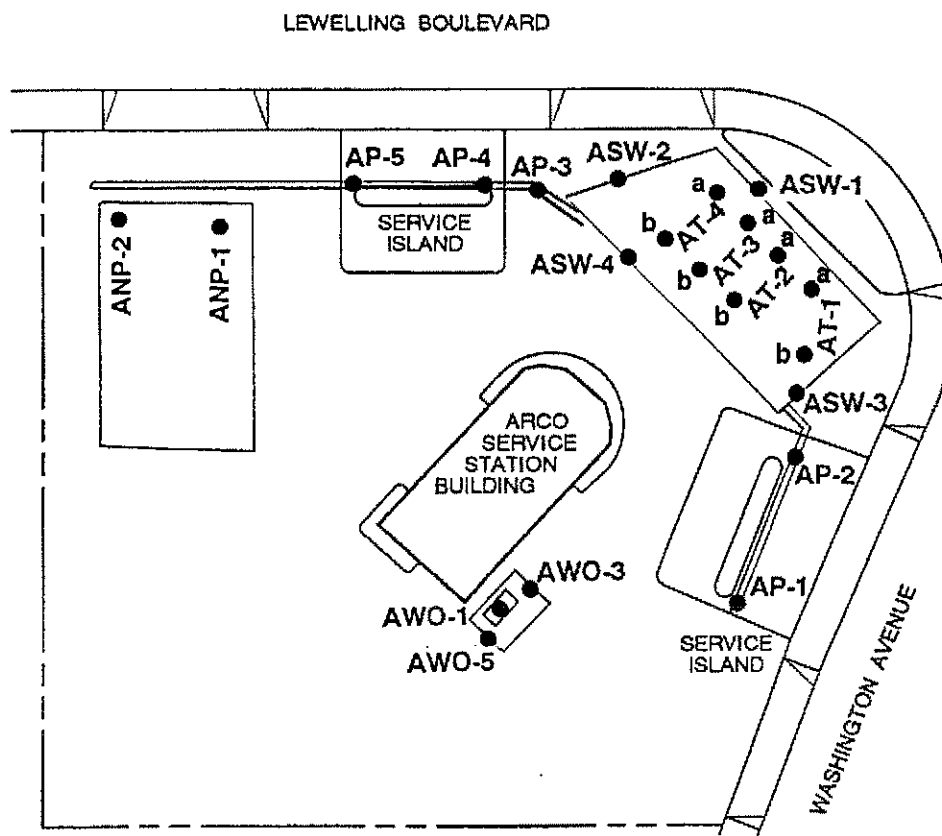
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REVIEWED BY RG/CEG
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DATE
3/90

REVISED DATE

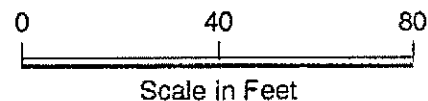
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EXPLANATION

- ANP-1 New excavation sample location
- AP-1 Piping Trench sample location
- ASW-1 Sidewall sample location
- AT-1a Former UGST sample location
- AWO-1 Waste Oil Tank excavation sample location

Note: Sample locations shown are approximate



GeoStrategies Inc.

Soil Sampling Location Map
 Arco Service Station #601
 712 Lewelling Boulevard
 San Leandro, California

PLATE

3

JOB NUMBER
7918

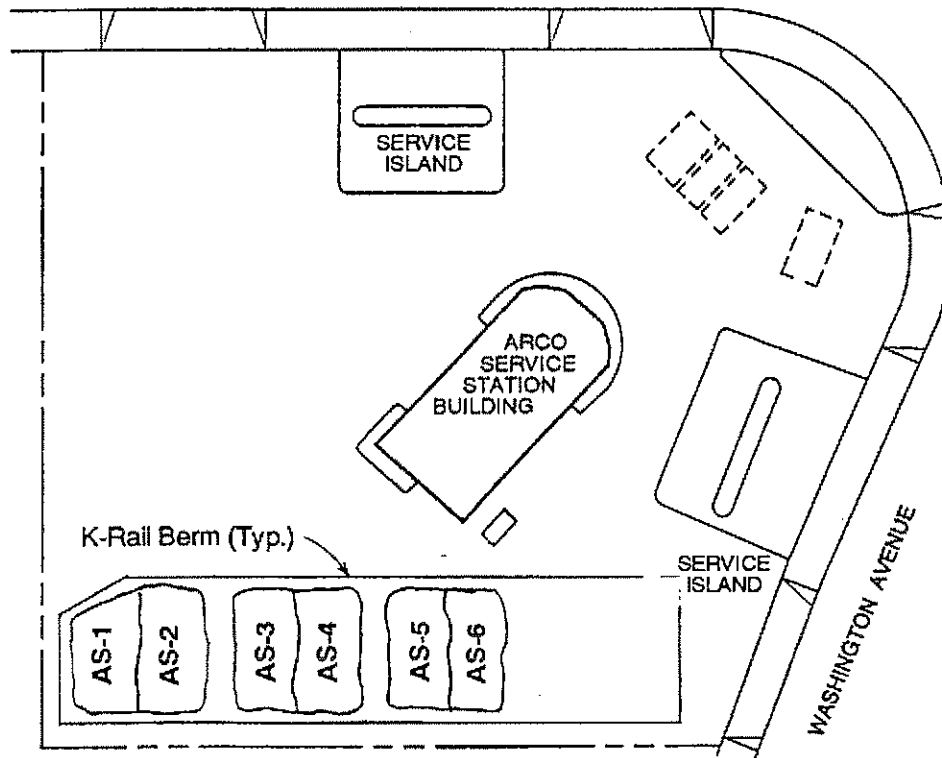
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DATE
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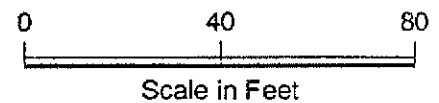
REVISED DATE

LEWELLING BOULEVARD



EXPLANATION

AS-1 Composite soil samples
collected on January 8, and 9, 1990



GeoStrategies Inc.

Soil Stockpile Sample Location Map
Arco Service Station #601
712 Lewelling Boulevard
San Leandro, California

PLATE

4

JOB NUMBER
7918

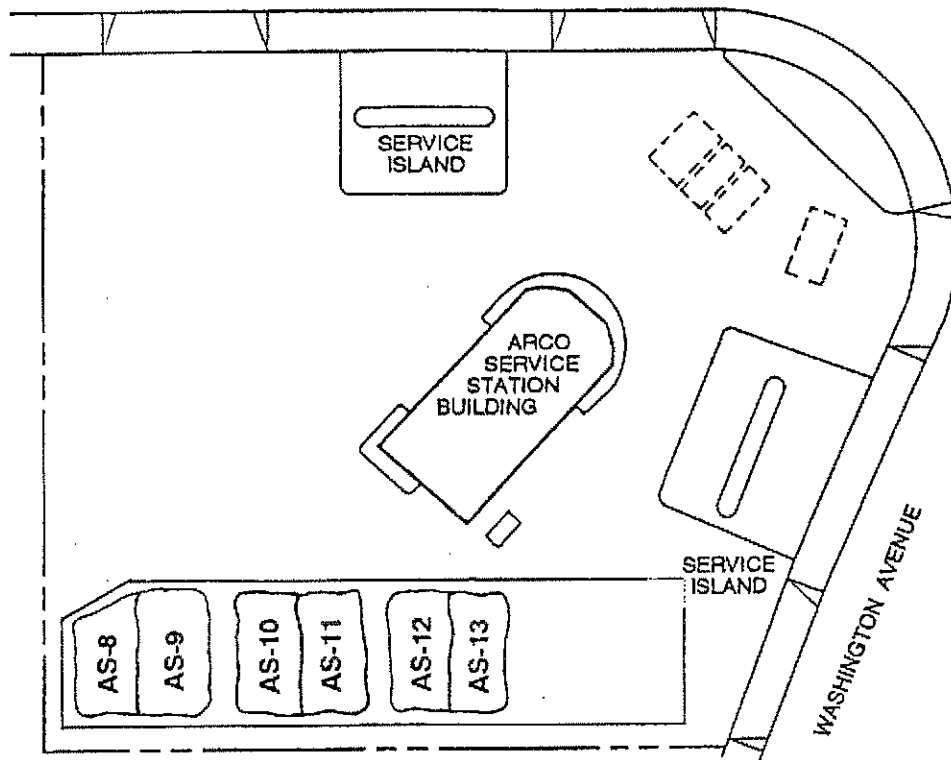
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DATE
3/90

REVISED DATE

REVISED DATE

LEWELLING BOULEVARD



EXPLANATION

AS-8 Composite soil samples
collected on January 9, 1990



GeoStrategies Inc.

Soil Stockpile Sample Location Map
Arco Service Station #601
712 Lewelling Boulevard
San Leandro, California

PLATE

5

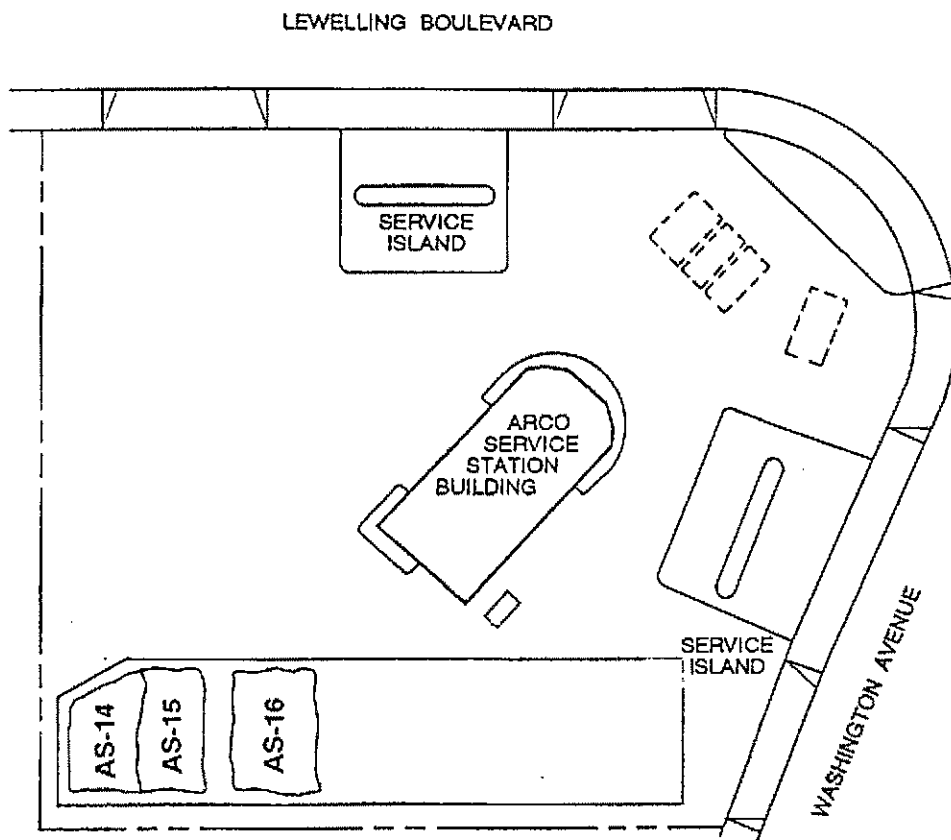
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DATE
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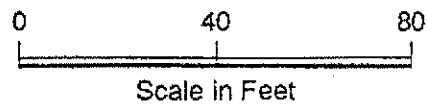
REVISED DATE

REVISED DATE



EXPLANATION

AS-14 Composite soil samples
collected on January 10, 1990



GeoStrategies Inc.

Soil Stockpile Sample Location Map
Arco Service Station #601
712 Lewelling Boulevard
San Leandro, California

PLATE

6

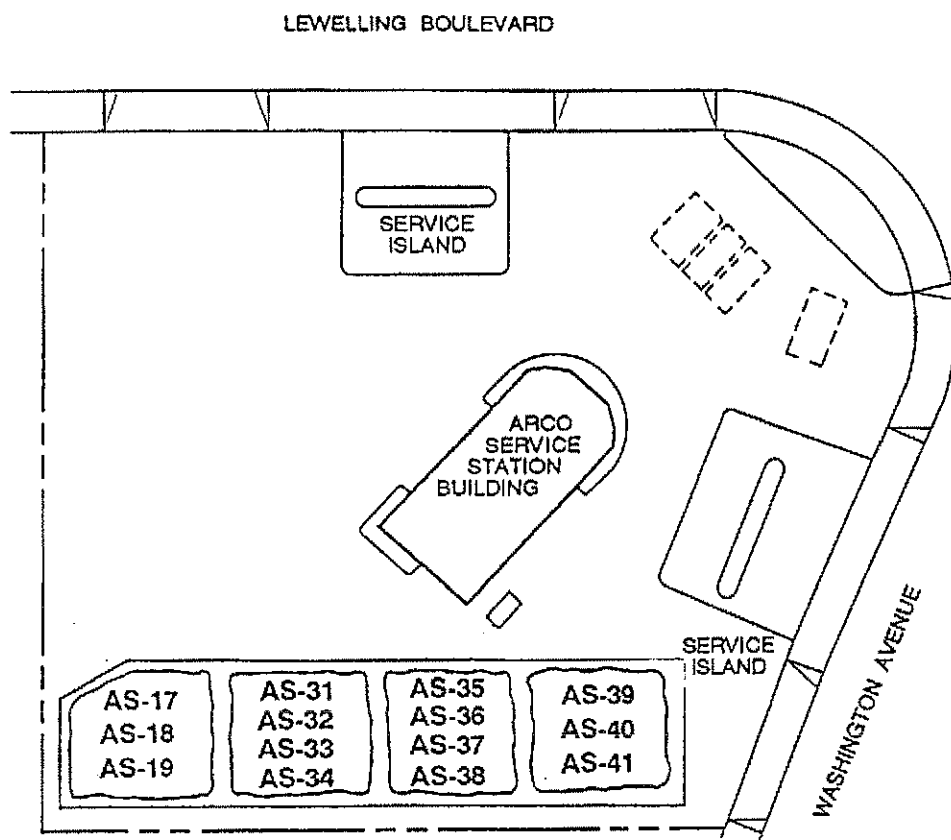
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DATE
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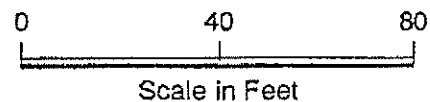
REVISED DATE

REVISED DATE



EXPLANATION

AS-17 Composite soil samples
collected on January 12 and 16, 1990
(samples from new tank excavation)



GeoStrategies Inc.

Soil Stockpile Sample Location Map
Arco Service Station #601
712 Lewelling Boulevard
San Leandro, California

PLATE

7

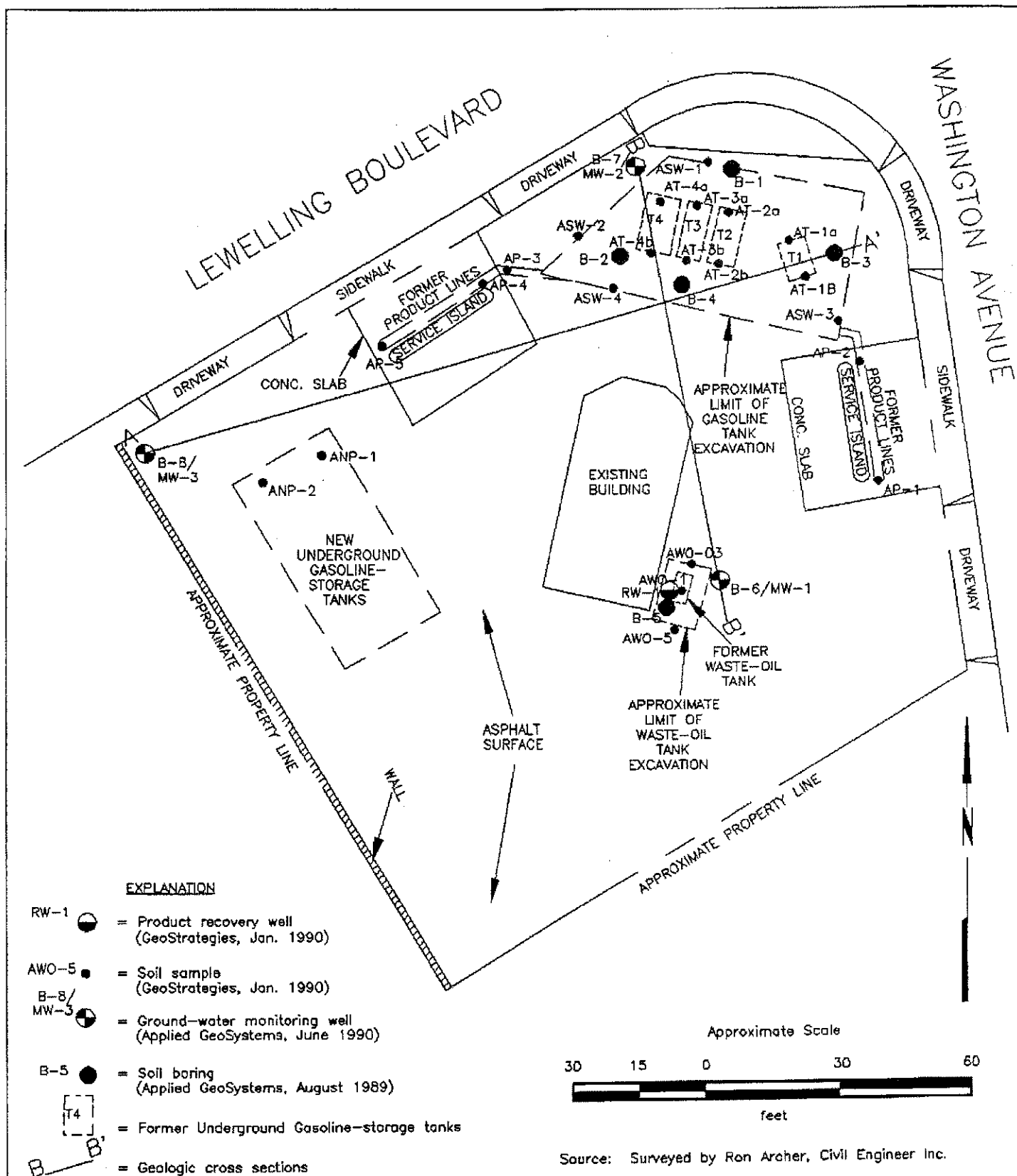
JOB NUMBER
7918

REVIEWED BY RG/CEG
CMA CEG 1202

DATE
3/90

REVISED DATE

REVISED DATE



PROJECT 69034-4W

**GENERALIZED SITE PLAN
ARCO Station 601
712 Lewelling Boulevard
San Leandro, California**

**PLATE
2**

TABLE 1
GROUND-WATER MONITORING DATA
ARCO Station 601
712 Lewelling Boulevard
San Leandro, California

Date Well Measured	Depth of Well	Well Elevation	Depth-to-Water	Water Elevation	Product Evidence
<u>MW-1</u>					
07/17/90	11.20	22.98	9.03	13.95	emulsion
08/07/90	11.18	22.98	9.19	13.79	NA
<u>MW-2</u>					
07/17/90	12.33	22.06	7.86	14.20	odor
08/07/90	12.24	22.06	8.03	14.03	NA
<u>MW-3</u>					
07/17/90	11.99	20.84	7.03	13.81	sheen
08/07/90	11.98	20.84	7.21	13.63	NA

Measurements in feet.

Datum mean sea level.

Depth-to-Water measured in feet below top of casing.

NA = Not analyzed.

TABLE 2
LABORATORY ANALYSIS OF SOIL SAMPLES
June 1990
ARCO Station 601
712 Lewelling Boulevard
San Leandro, California
(Page 1 of 2)

Sample Number	TPHg	TPHd	TOG	B	T	E	X	Organic Lead
S-4 1/2-B6	9.5	<10	190	1.4 (0.490)	0.099 (0.038)	0.25 (0.120)	1.3 (0.650)	NA
S-7 1/2-B6	420	280	130	6.0 (5.800)	27 (33.000)	8.8 (19.000)	52 (130.000)	NA
S-12-B6	6.5	<10	190	0.002 (<0.010)	0.001 (<0.010)	0.001 (<0.010)	0.001 (<0.010)	<0.01
S-16 1/2-B6	<1.0	<10	190	<0.0050 (<0.010)	0.001 (<0.010)	0.001 (<0.010)	0.001 (<0.010)	NA
S-4 1/2-B7	9.3	NA	NA	0.71	0.040	0.18	0.68	NA
S-10-B7	15	NA	NA	0.99	0.71	0.50	1.3	<0.01
S-12 1/2-B7	<1.0	NA	NA	0.001	0.001	<0.0050	0.001	NA
S-16-B7	<1.0	NA	NA	0.001	0.001	<0.0050	0.001	NA
S-6-B8	620	NA	NA	11	30	16	82	NA
S-9-B8	3.1	NA	NA	0.15 (0.034)	0.25 (0.079)	0.094 (0.001)	0.43 (0.016)	<0.01
S-12-B8	1.7	NA	NA	0.034 (0.082)	0.079 (0.076)	0.001 (0.0050)	0.016 (0.079)	NA
S-15 1/2-B8	<1.0	NA	NA	0.082	0.076	<0.0050	0.079	NA

See Notes on Page 2 of 2

TABLE 2
LABORATORY ANALYSIS OF SOIL SAMPLES
June 1990
ARCO Station 601
712 Lewelling Boulevard
San Leandro, California
(Page 2 of 2)

Sample Number	BNAs	VOCs	Cadmium	Chromium	Lead	Zinc
S-4 1/2-B6	brl	brl	9.4	63.0		63.9
S-7 1/2-B6	2.9 ^a , 2.6 ^b	brl	4.5	49.8		51.3
S-12-B6	brl	brl	13.2	61.2		55.0
S-16 1/2-B6	brl	brl	13.5	64.8		53.0
TTLc			100	2,500	1,000	5,000

Results are in parts per million (ppm)

TPHg = total petroleum hydrocarbons as gasoline

B = benzene

T = toluene

E = ethylbenzene

X = total xylenes

() = BTEX results analyzed as VOCs

PNAs = base neutral and acid extractables including polynuclear aromatics

(^a = naphthalene, ^b = 2-methylnaphthalene)

VOCs = volatile organics except for BTEX

< = Below indicated laboratory reporting limit

brl = below laboratory reporting limit for respective compounds

NA = Not Analyzed

TTLc = Total threshold limit concentration values (Title 22 of the California Administrative Code, January 1988)

Sample Number explanation:

S-12-B6

— Boring number

— Sample depth in feet below ground surface

— Soil sample

TABLE 3
LABORATORY ANALYSIS OF SOIL SAMPLES
ARCO Station 601
San Leandro, California

Sample Number	TPHg	TPHd	TOG	B	T	E	X	Organic Lead
<u>June 1990</u>								
S-4 1/2-B6	9.5	<10	190	1.4 (0.490)	0.099 (0.038)	0.25 (0.120)	1.3 (0.650)	NA
S-7 1/2-B6	420	280	130	6.0 (5.800)	27 (33.000)	8.8 (19.000)	52 (130.000)	NA
S-12-B6	6.5	<10	130	0.062 (<0.010)	0.29 (0.037)	0.10 (0.011)	0.60 (0.097)	<0.01
S-16 1/2-B6	<1.0	<10	63	<0.0050 (<0.010)	0.040 (0.015)	0.011 (<0.010)	0.069 (0.041)	NA
S-4 1/2-B7	9.3	NA	NA	0.71	0.040	0.18	0.68	NA
S-10-B7	15	NA	NA	0.99	0.71	0.50	1.3	<0.01
S-12 1/2-B7	<1.0	NA	NA	0.056	0.015	<0.0050	0.011	NA
S-16-B7	<1.0	NA	NA	0.0085	0.0071	<0.0050	0.0094	NA
S-6-B8	620	NA	NA	11	30	16	82	NA
S-9-B8	3.1	NA	NA	0.18	0.25	0.094	0.43	<0.01
S-12-B8	1.7	NA	NA	0.034	0.039	0.0098	0.046	NA
S-15 1/2-B8	<1.0	NA	NA	0.082	0.076	<0.0050	0.079	NA
Sample Number	BNAs		VOCs	Cadmium	Chromium	Lead	Zinc	
S-4 1/2-B6	brl		brl	9.4	63.0	287.1	63.9	
S-7 1/2-B6	2.9 ^a , 2.6 ^b		brl	4.5	49.8	242.0	51.3	
S-12-B6	brl		brl	13.2	61.2	105.1	55.0	
S-16 1/2-B6	brl		brl	13.5	64.8	100.5	53.0	
TTLc				100	2,500	1,000	5,000	

Results are in parts per million (ppm)

- < = Below indicated laboratory reporting limit
- brl = below laboratory reporting limit for respective compounds
- NA = Not Analyzed
- TPHg = total petroleum hydrocarbons as gasoline
- B = benzene, T = toluene, E = ethylbenzene, X = total xylenes
- () = BTEX results analyzed as VOCs
- BNAs = base neutral and acid extractables including polynuclear aromatics (^a = naphthalene, ^b = 2-methylnaphthalene)
- VOCs = volatile organics except for BTEX
- TTLc = Total threshold limit concentration values (Title 22 of the California Administrative Code, January 1988)

See notes on Page 2 of 2.

TABLE 3
LABORATORY ANALYSES OF GROUND-WATER SAMPLES
July 1990
ARCO Station 601
712 Lewelling Boulevard
San Leandro, California

Well Number	TPH _g	TPH _d	TOG	Benzene	Toluene	Ethylbenzene	Total xylenes
MW-2	35,000	850*	<5,000	3,800 (3,200)	2,900 (2,400)	690 (270)	3,600 (2,900)
MW-3	N/A	N/A	<5,000	N/A	N/A	N/A	N/A

Well Number	BNAs	VOCs	Cadmium	Chromium	Lead	Zinc
MW-2	340 ^a , 170 ^b	39 ^c	<20	50	50	120
DWAL	--	40 ^c	10	50	50	5000

Results are in parts per billion (ppb)

TPH_g = total petroleum hydrocarbons as gasoline

TPH_d = total petroleum hydrocarbons as diesel (* Applied Analytical laboratories reports the chromatograph resembled gasoline and not diesel)

TOG = total oil and grease

() BTEX results analyzed as VOCs

PNAs = base neutral and acid extractables including polynuclear aromatics

Concentrations are below laboratory reporting limits for respective compounds except as indicated.

(^a = naphthalene, ^b = 2-methylnaphthalene)

VOCs = volatile organics except for BTEX

Concentrations are below laboratory reporting limits for respective compounds except as indicated.

(^c = methylene chloride)

< = Below indicated laboratory reporting limit

brl = below laboratory reporting limit for respective compounds

NA = Not Analyzed

DWAL = California Department of Health Services recommended drinking water action levels (July 1990)

TABLE 4
LABORATORY ANALYSIS OF SOIL SAMPLES
August 1989
ARCO Station 601
712 Lewelling Boulevard
San Leandro, California

Sample	TPHg	TOG	B	T	E	X	VOCs
S-5-B1	350	NA	8.3	19	5.1	26	NA
S-10-B1	610	NA	10	37	6	48	NA
S-15-B1	<10	NA	0.007	0.011	<0.005	0.012	NA
S-5-B2	12,000	NA	60	450	110	660	NA
S-10-B2	<1	NA	0.015	0.016	<0.005	0.018	NA
S-14-B2	<1	NA	0.015	0.030	<0.005	0.035	NA
S-5-B3	23	NA	0.710	<0.05	0.40	0.034	NA
S-10-B3	180	NA	0.700	3.2	1.4	9.6	NA
S-5-B4	12	NA	0.33	0.37	<0.05	0.75	NA
S-10-B4	65	NA	1.9	2.0	0.7	4.6	NA
S-5-B5	370	4,800	2.1	3.8	0.8	2.8	brl
S-10-B5	2,600	130	10	90	21	130	

Results are in parts per million (ppm)

TPHg = total petroleum hydrocarbons as gasoline

B = benzene; T = toluene; E = ethylbenzene; X = total xylenes

VOCs = volatile organic compounds

< = Below indicated laboratory reporting limit

brl = below laboratory reporting limit for respective compounds

NA = Not Analyzed

Sample Number explanation:

S-12-B6

TABLE 5
LABORATORY ANALYSIS OF SOIL SAMPLES BY GEOSTRATEGIES
January 1990
ARCO Station 601
712 Lewelling Boulevard
San Leandro, California
(Page 1 of 2)

Sample Number	TPHg	TPHd	TPHo	TOG	B	T	E	X
AP-1	6.8	NA	NA	NA	0.13	<0.025	<0.025	0.20
AP-2	12	NA	NA	NA	0.71	0.049	0.31	0.60
AP-3	47	NA	NA	NA	1.1	2.1	0.63	5.5
AP-4	120	NA	NA	NA	5.1	10	2.8	18
AP-5	42	NA	NA	NA	1.5	3.9	0.95	14
AT-1a	<10	NA	NA	NA	0.043	0.072	0.013	0.085
AT-1b	<10	NA	NA	NA	0.014	0.035	0.0079	0.046
AT-2a	<10	NA	NA	NA	<0.005	0.0068	<0.005	<0.005
AT-2b	<10	NA	NA	NA	0.0071	<0.005	<0.005	<0.005
AT-3a	<10	NA	NA	NA	0.023	0.041	0.013	0.036
AT-3b	<10	NA	NA	NA	0.016	<0.005	<0.005	0.0077
AT-4a	<10	NA	NA	NA	0.068	0.17	<0.005	0.014
AT-4b	<10	NA	NA	NA	<0.005	0.048	<0.005	0.08
ASW-1	1,600	NA	NA	NA	36	111	50	210
ASW-2	7,100	NA	NA	NA	175	509	220	980
ASW-3	140	NA	NA	NA	3.1	3.1	3.8	15
ASW-4	1,400	NA	NA	NA	12	46	26	129

See Notes on Page 2 of 2

TABLE 5
LABORATORY ANALYSIS OF SOIL SAMPLES BY GEOSTRATEGIES
January 1990
ARCO Station 601
712 Lewelling Boulevard
San Leandro, California
(Page 2 of 2)

Sample Number	TPHg	TPHd	TPHo	TOG	B	T	E	X
ANP-1	150	NA	NA	NA	8.1	3.9	5.8	20
ANP-2	36	NA	NA	NA	2	0.8	1.4	5.1
AWO-1	690	630	4,400	NA	<0.010	0.027	0.019	0.69
AWO-3	15	11	<50	<20	1.5	0.08	0.25	0.88
AWO-5	<3.0	<5	<50	<20	0.11	0.11	<0.03	0.10

Results are in parts per million (ppm)

TPHg = total petroleum hydrocarbons as gasoline

TPHd = Total Petroleum Hydrocarbons as diesel

TPHo = Total Petroleum Hydrocarbons as oil

TOG = Total Oil and Grease

B = benzene T = toluene E = ethylbenzene X = total xylenes

< = Below indicated laboratory reporting limit

NA = Not Analyzed

Sample Number explanation:

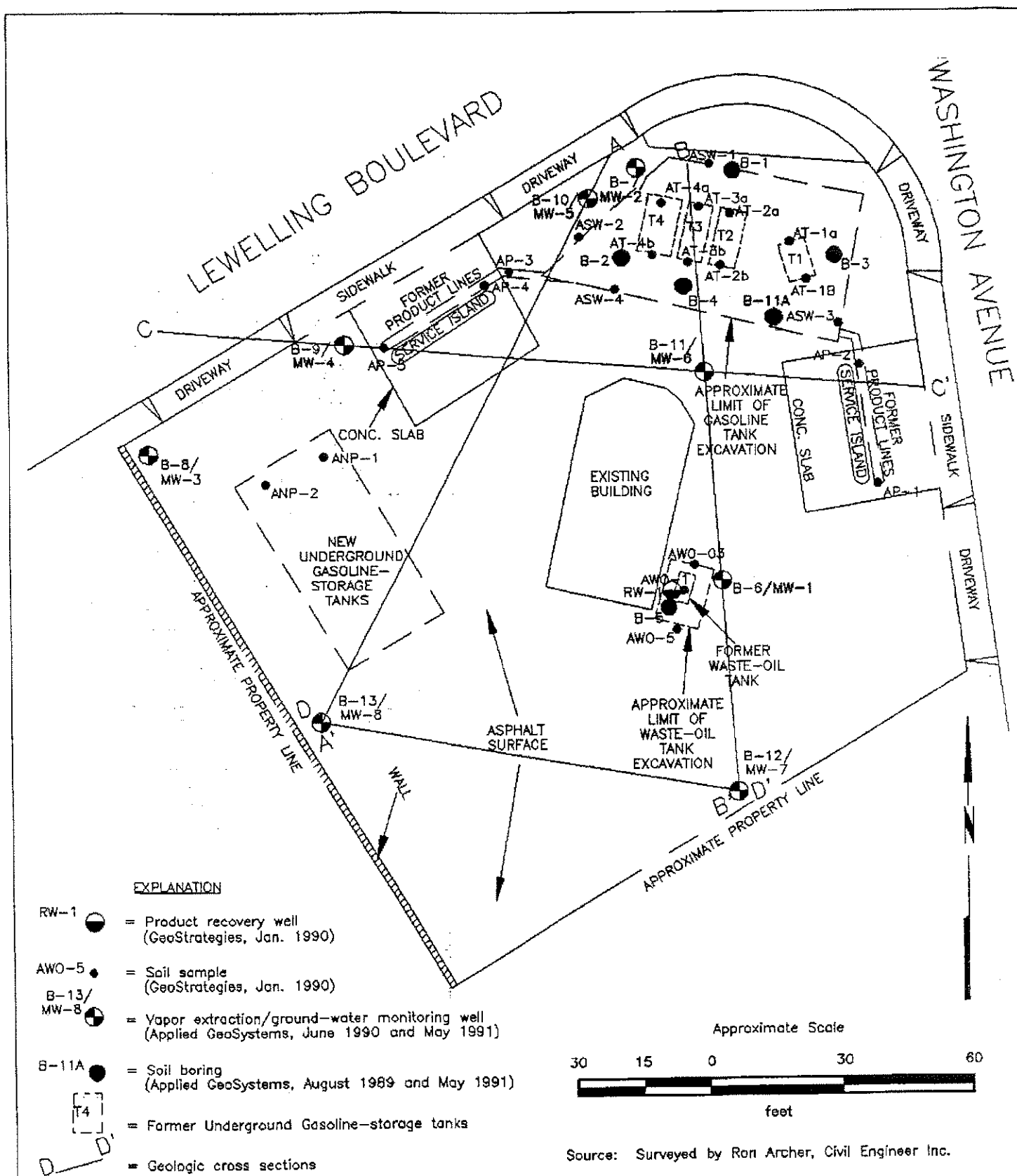
AP-5 = Product line soil sample

AT-4b = Former product tank number base soil sample

ASW-4 = Former product tank excavation sidewall soil sample

ANP-2 = New product tank excavation soil sample

AWO-5 = Former waste-oil tank excavation soil sample



RESNA

PROJECT 69034.04

**GENERALIZED SITE PLAN
ARCO Station 601
712 Lewelling Boulevard
San Leandro, California**

PLATE

2

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
ARCO Station 601
San Leandro, California
(Page 1 of 2)

Date Well Measured	Depth of Well	Well Elevation	Depth-to-Water	Water Elevation	Product Evidence
<u>MW-1</u>					
07/17/90	11.20	22.98*	9.03	13.95	emulsion
08/07/90			9.19	13.79	odor
10/15/90			9.85	13.13	0.25
11/20/90			9.79	13.19	0.46
12/21/90			9.18	13.80	sheen
01/09/91			9.47	13.51	0.02
06/10/91		22.26**	9.00	13.26	emulsion
07/18/91			9.34	12.92	0.01
<u>MW-2</u>					
07/17/90	12.33	22.06*	7.86	14.20	odor
08/07/90			8.03	14.03	
10/15/90			8.61	13.45	
11/20/90			8.76	13.30	
12/21/90			8.28	13.78	odor
01/09/91			8.43	13.63	odor
06/10/91		21.33**	7.91	13.42	
07/18/91			8.30	13.03	
<u>MW-3</u>					
07/17/90	11.99	20.84*	7.03	13.81	sheen
08/07/90			7.21	13.63	odor
10/15/90			8.19	12.65	0.75
11/20/90			7.98	12.85	1.08
12/21/90			7.22	13.62	0.01
01/09/91			7.46	13.38	0.30
06/10/91		20.11**	7.14	12.97	sheen
07/18/91			7.55	12.56	odor

See Notes on Page 2 of 2

TABLE 1
CUMULATIVE GROUNDWATER MONITORING DATA
ARCO Station 601
San Leandro, California
(Page 2 of 2)

Date Well Measured	Depth of Well	Well Elevation	Depth-to-Water	Water Elevation	Product Evidence
<u>MW-4</u>					
06/10/91	9.00	20.75**	---	well dry	
07/18/91			7.86	12.89	
<u>MW-5</u>					
06/10/91	10.50	20.90**	7.58	13.32	
07/18/91			7.97	12.93	
<u>MW-6</u>					
06/10/91	9.00	22.08**	---	well dry	
07/18/91			---	well dry	
<u>MW-7</u>					
06/10/91	10.00	22.89**	---	well dry	
07/18/91			---	well dry	
<u>MW-8</u>					
06/10/91	10.50	20.97**	7.80	13.17	odor
07/18/91			8.36	12.61	odor

Measurements in feet.

Elevations expressed as feet mean sea level.

Depth-to-Water measured in feet below top of casing.

Wells were surveyed on 07/17/90 (*) and resurveyed with new wells 06/20/91 (**).

TABLE 2
VAPOR-EXTRACTION TEST FIELD MONITORING DATA
ARCO Station 601
San Leandro, California

<u>Influent Air Stream at Extraction Well</u>				<u>Observation Wells</u>			
<u>Flow</u>	<u>Conc.</u>	<u>Vacuum</u>	<u>Temp.</u>	<u>MW-1</u> (Vacuum Measured)	<u>MW-2</u>	<u>MW-4</u>	<u>MW-5</u>
37	NT	>50	72	0	0	0	0
35	1,000	49	72	0	>0.06	0	0
55	2,500	>50	72	0	>0.10	0.015	0.02
44	3,000	>50	73	0	>0.09	0	0
Distance from extraction well MW-6 (feet):				42	57	88	57

NT = Not Taken

Flow measured in cubic feet per minute (CFM).

Concentration of organic vapors measured in parts per million by volume (ppmv)
on Organic Vapor Meter.

Vacuum measured in inches of water column vacuum.

Temperature measured in degrees Fahrenheit.

TABLE 3
LABORATORY ANALYSIS OF SOIL SAMPLES
May 1991
ARCO Station 601
712 Lewelling Boulevard
San Leandro, California
(Page 1 of 2)

Sample Number	TPHg	TPHd	TOG	B	T	E	X
S-5 1/2-B9	120	NA	NA	1.6	4.2	1.9	12
S-7-B9	420	NA	NA	5.9	24	8.4	48
S-8 1/2-B9	170	NA	NA	3.7	14	3.5	20
S-11 1/2-B9	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050
S-14 1/2-B9	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050
S-17 1/2-B9	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050
S-5 1/2-B10	500	NA	NA	2.8	8.1	7.4	34
S-7 1/2-B10	2,700	NA	NA	27	150	65	370
S-10-B10	4.9	NA	NA	0.33	0.33	0.10	0.51
S-16-B10	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050
S-6-B11A	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050
S-5 1/2-B11	4.4	NA	NA	0.72	0.019	0.022	0.041
S-8 1/2-B11	100	NA	NA	3.0	9.3	2.7	1.5
S-12-B11	<1.0	NA	NA	0.011	0.019	0.0055	0.025
S-15-B11	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050
S-5 1/2-B12	<1.0	<1.0	<30	<0.0050	<0.0050	<0.0050	<0.0050
S-7 1/2-B12	<1.0	<1.0	<30	<0.0050	<0.0050	<0.0050	<0.0050
S-10 1/2-B12	23	6.0	<30	<0.0050	0.24	0.50	2.2
S-14 1/2-B12	<1.0	<1.0	<30	<0.0050	<0.0050	<0.0050	<0.0050

See Notes on Page 2 of 2

TABLE 3
LABORATORY ANALYSIS OF SOIL SAMPLES
May 1991
ARCO Station 601
San Leandro, California
(Page 2 of 2)

Sample Number	TPHg	TPHd	TOG	B	T	E	X
S-5 1/2-B13	8.4	15	<30	0.022	0.017	0.20	0.059
S-11-B13	<1.0	<1.0	<30	<0.0050	<0.0050	<0.0050	<0.0050
S-15-B13	<1.0	<1.0	<30	<0.0050	<0.0050	<0.0050	<0.0050

Results are in parts per million (ppm)

TPHg = total petroleum hydrocarbons as gasoline

TPHd = total petroleum hydrocarbons as diesel

TOG = total oil and grease

B = benzene

T = toluene

E = ethylbenzene

X = total xylenes

< = Below indicated laboratory reporting limit

NA = Not Analyzed

Sample Number explanation:

S-12-B9

└─ Boring number

└─ Sample depth in feet below ground surface

└─ Soil sample

TABLE 4
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER
ARCO Service Station 601
San Leandro, California
(Page 1 of 3)

Sample Date	TPHg	TPHd	B	T	E	X	TOG
<u>MW-1</u>							
07/17/90	NA	NR	NA	NA	NA	NA	NR
10/15/90	NA	NR	NA	NA	NA	NA	NR
01/09/91	NA	NR	NA	NA	NA	NA	NR
06/10/91	NS	NS	NS	NS	NS	NS	NS
<u>MW-2</u>							
07/17/90	35,000	850*	3,800 (3,200)	2,900 (2,400)	690 (270)	3,600 (2,900)	<5,000
10/15/90	6,400	NR	650	290	110	560	NR
01/09/91	13,000	NR	1500 (1700)	970 (1200)	390 (370)	1500 (2400)	NR
06/10/91	26,000	NR	3,000	2,500	880	4,200	NR
<u>MW-3</u>							
07/17/90	NA	NR	NA	NA	NA	NA	<5,000
10/15/90	NA	NR	NA	NA	NA	NA	NR
01/09/91	NA	NR	NA	NA	NA	NA	NR
06/10/91	NS	NS	NS	NS	NS	NS	NS
<u>MW-4</u>							
06/10/91	NS	NS	NS	NS	NS	NS	NS
<u>MW-5</u>							
06/10/91	100,000	NR	25,000	20,000	2,600	12,000	NR
<u>MW-6</u>							
06/10/91	NS	NS	NS	NS	NS	NS	NS

See Notes on Page 2 of 3

TABLE 4
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER
ARCO Service Station 601
San Leandro, California
(Page 2 of 3)

Sample	TPHg	TPHd	B	T	E	X	TOG
<u>MW-7</u> 06/10/91	NS	NS	NS	NS	NS	NS	NS
<u>MW-8</u> 06/10/91	5,800	NR	73	7.2	150	21	<5,000
MCLs	NA	NA	1.0	---	680	1750	NA
DWALs	NA	NA	NA	100	NA	NA	NA

Results in micrograms per liter (ug/L) = parts per billion (ppb).

NA: Not analyzed. NR:Not requested. NS:Not Sampled.

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

TPHd: Total petroleum hydrocarbons as diesel by EPA method 3550/3510.

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

BTEX: Measured by EPA method 8020/602.

TOG: Total oil and grease measured by Standard method 503A/E.

<: Results reported as less than the detection limit.

*: Applied Analytical Laboratories reports that the chromatograph resembled gasoline not diesel.

(): BTEX results analyzed as VOCs by EPA method 624.

MCLs: Adopted Maximum Contaminant Levels in Drinking Water, DHS (July 1989)

DWAL: Recommended Drinking Water Action Levels, DHS (January 1990)

TABLE 4
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER
ARCO Service Station 601
San Leandro, California
(Page 3 of 3)

Sample	BNAs	VOCs	Cadmium	Chromium	Lead	Zinc
<u>MW-2</u>						
07/17/90	340 ^a ,170 ^b	39 ^c	<20	50	50	120
MCLs	--	40 ^c	10	50	50	5000**

BNAs: Base neutral and acid extractables including polynuclear aromatics
Concentrations are below laboratory reporting limits for respective compounds
except as indicated (^a = naphthalene, ^b = 2-methylnaphthalene).

VOCs: Volatile organics except for BTEX
Concentrations are below laboratory reporting limits for respective compounds
except as indicated (^c = methylene chloride).

** : Secondary drinking water standard (July 1990)

TABLE 5
LABORATORY ANALYSIS OF AIR SAMPLES
ARCO Station 601
San Leandro, California

Sample ID	Well	E/T (Min.)	TPHg	B	T	E	X
AS1	inf MW-6	20	76,000	5,500	1,200	79	130
AS2	inf MW-1	35	24,000	1,200	170	ND	ND
AS3	inf MW-5	55	30,000	2,100	600	ND	ND
AS4	inf MW-4	75	930	67	74	9.7	50
AS5	inf MW-8	95	9,500	100	82	54	40

Concentrations are in mg/mg3

E/T: Vapor extraction time

inf: Influent

ND: Non-detectable

TPHg: Total Petroleum Hydrocarbons as gasoline (analyzed by EPA SW-846
Methods 5030 and 8015)

B: Benzene

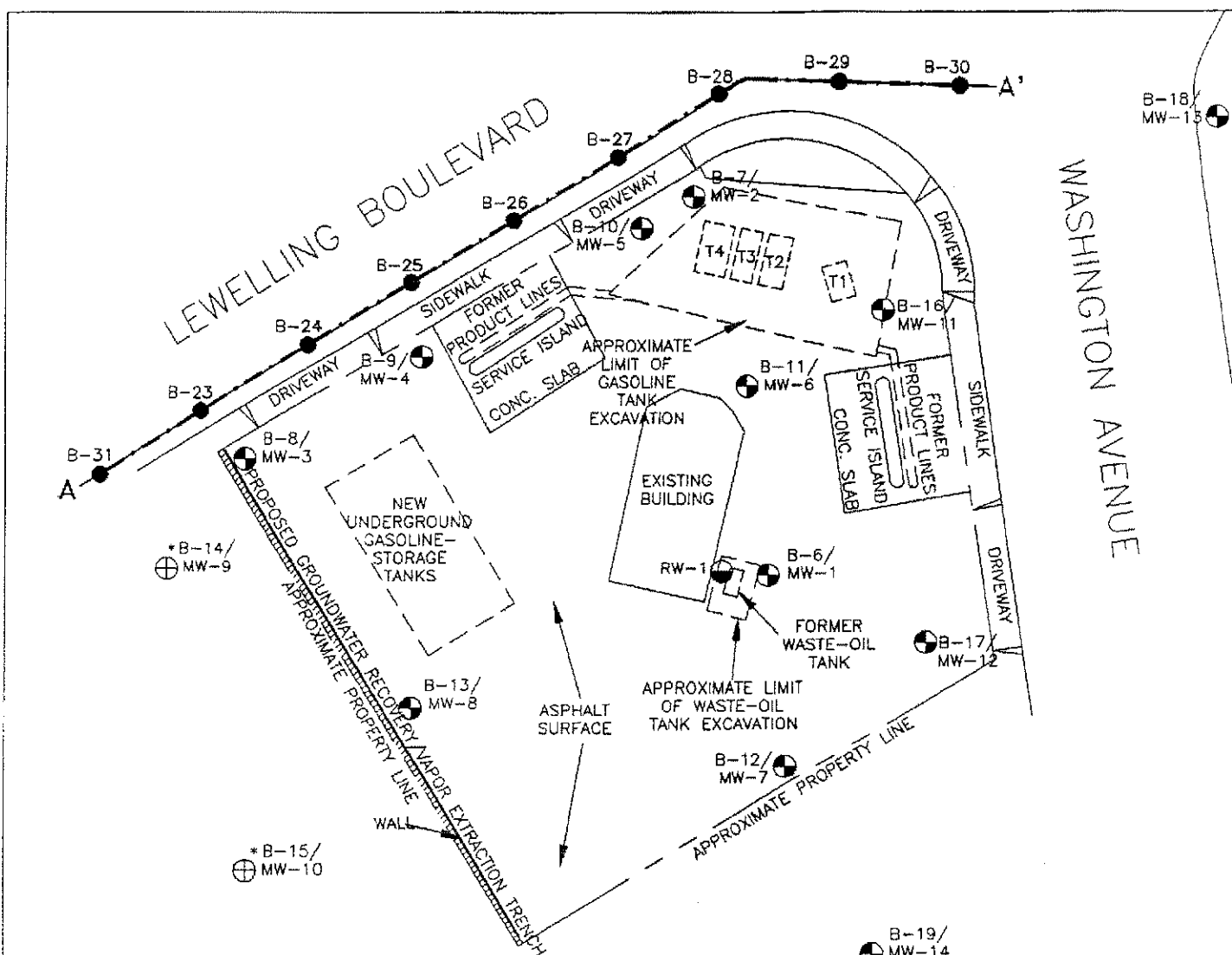
T: Toluene

E: Ethylbenzene

X: Total Xylenes

BTEX: Analyzed by EPA SW-846 Methods 5030 and 8020.

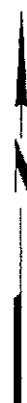
AS5: Air Sample Number five (5).



EXPLANATION

- = PG&E proposed trench alignment
- B-31 ● = Soil boring (RESNA, October 27 and 28, 1992)
- *B-15/MW-10 ⊕ = Proposed boring/groundwater monitoring well (Not yet installed due to difficulty obtaining access)
- B-19/MW-14 ⊕ = Groundwater monitoring well (RESNA, 1990, 1991, and 1992)
- RW-1 ⊕ = Product recovery well (GeoStrategies, January 1990)
- [T4] = Former underground gasoline storage tank

A—A' = Geologic cross section



Approximate Scale



Source: Surveyed by John Koch, Licensed Land Surveyor.

RESNA
Working to Restore Nature

PROJECT 69034.11

GENERALIZED SITE PLAN
ARCO Station 601
712 Lewelling Boulevard
San Leandro, California

PLATE

2

Limited Offsite Subsurface Investigation
ARCO Station 601

February 3, 1993
69034.11

TABLE 1
RESULTS OF LABORATORY
ANALYSES OF SOIL SAMPLES
ARCO Station 601
San Leandro, California
(Page 1 of 2)

Sample ID	TPHg	TPHd	TOG	B	T	E	X
S-5.5-B23	<1	NA	NA	0.009	0.014	0.007	0.029
S-8.5-B23	15	NA	NA	2.2	4.9	1.3	7.4
S-12.5-B23	<1	NA	NA	<0.005	<0.005	<0.005	<0.015
S-15.5-B23	<1	NA	NA	<0.005	<0.005	<0.005	<0.015
S-2.5-B24	<2	NA	NA	0.9	0.065	0.092	0.19
S-4.5-B24	5	NA	NA	1.1	0.061	0.44	0.91
S-6.5-B24	900	NA	NA	17	40	30	150
S-15.5-B24	<1	NA	NA	<0.005	<0.005	<0.005	<0.015
S-2.5-B25	7.5	NA	NA	1.6	0.92	0.31	1.4
S-5.5-B25	11	NA	NA	0.82	0.37	0.33	2.1
S-6.5-B25	19	NA	NA	1.9	1	0.64	3.5
S-15.5-B25	<1	NA	NA	<0.005	<0.005	<0.005	<0.015
S-3-B26	20	NA	NA	2.7	6	0.7	3.9
S-6.5-B26	16	NA	NA	1.7	3.1	0.44	2.7
S-15.5-B26	<1	NA	NA	<0.005	<0.005	<0.005	<0.015
S-3-B27	7	NA	NA	1.2	0.034	0.43	0.76
S-6-B27	2.8	NA	NA	0.52	0.008	0.15	0.047
S-10-B27	110	NA	NA	2.6	6.4	2.5	14
S-15.5-B27	<1	NA	NA	<0.005	<0.005	<0.005	<0.015
S-3-B28	2	NA	NA	0.5	0.06	0.24	0.35
S-4.5-B28	2	NA	NA	0.38	0.03	0.24	0.22
S-9-B28	64	NA	NA	1	0.53	1.7	6.3
S-15.5-B28	<1	NA	NA	<0.005	<0.005	<0.005	<0.015
S-3-B29	<1	NA	NA	0.13	0.006*	<0.005	<0.015
S-6.5-B29	<1	NA	NA	0.0078	0.007*	0.018	0.11
S-9.5-B29	<1	NA	NA	<0.005	<0.005	<0.005	<0.015
S-15.5-B29	<1	NA	NA	<0.005	<0.005	<0.005	<0.015
S-3.0-B30	<1	NA	NA	<0.005	0.007*	<0.005	<0.015
S-6-B30	<1	NA	NA	<0.005	0.007*	<0.005	<0.015
S-9.5-B30	<1	NA	NA	<0.005	<0.005	<0.005	<0.015
S-15.5-B30	<1	NA	NA	<0.005	<0.005	<0.005	<0.015

See notes on page 2 of 2.

Limited Offsite Subsurface Investigation
ARCO Station 601

February 3, 1993
69034.11

TABLE 1
RESULTS OF LABORATORY
ANALYSES OF SOIL SAMPLES
ARCO Station 601
San Leandro, California
(Page 2 of 2)

Sample ID	TPHg	TPHd	TOG	B	T	E	X
S-3.5-B31	<1	NA	NA	<0.005	0.005	<0.005	<0.015
S-6-B31	<1	NA	NA	<0.005	0.005	<0.005	<0.015
S-7-B31	330	NA	NA	7	28	9	49
S-7.5-B31	120	NA	NA	3.5	13	3.5	20
S-15.5-B31	<1	NA	NA	<0.005	0.005	<0.005	<0.015
<u>Composited Stockpile Sample</u>							
SPA-SPD	<1	NA	NA	<0.0050	<0.0050	0.010	0.012

Results in parts per million (ppm).

Depth in feet below ground surface.

TPHg = Total petroleum hydrocarbons as gasoline using EPA Method 5030/8020/8015

B = benzene, T = toluene, E = ethylbenzene, X = total xylenes (EPA Method 8020/8015)

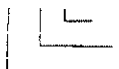
< = Below indicated laboratory reporting limits.

NA = Not applicable

* = Laboratory Method blank contained concentrations of Toluene ranging from 0.006 ppm to 0.009 ppm.

Sample Identification:

S-10-B12

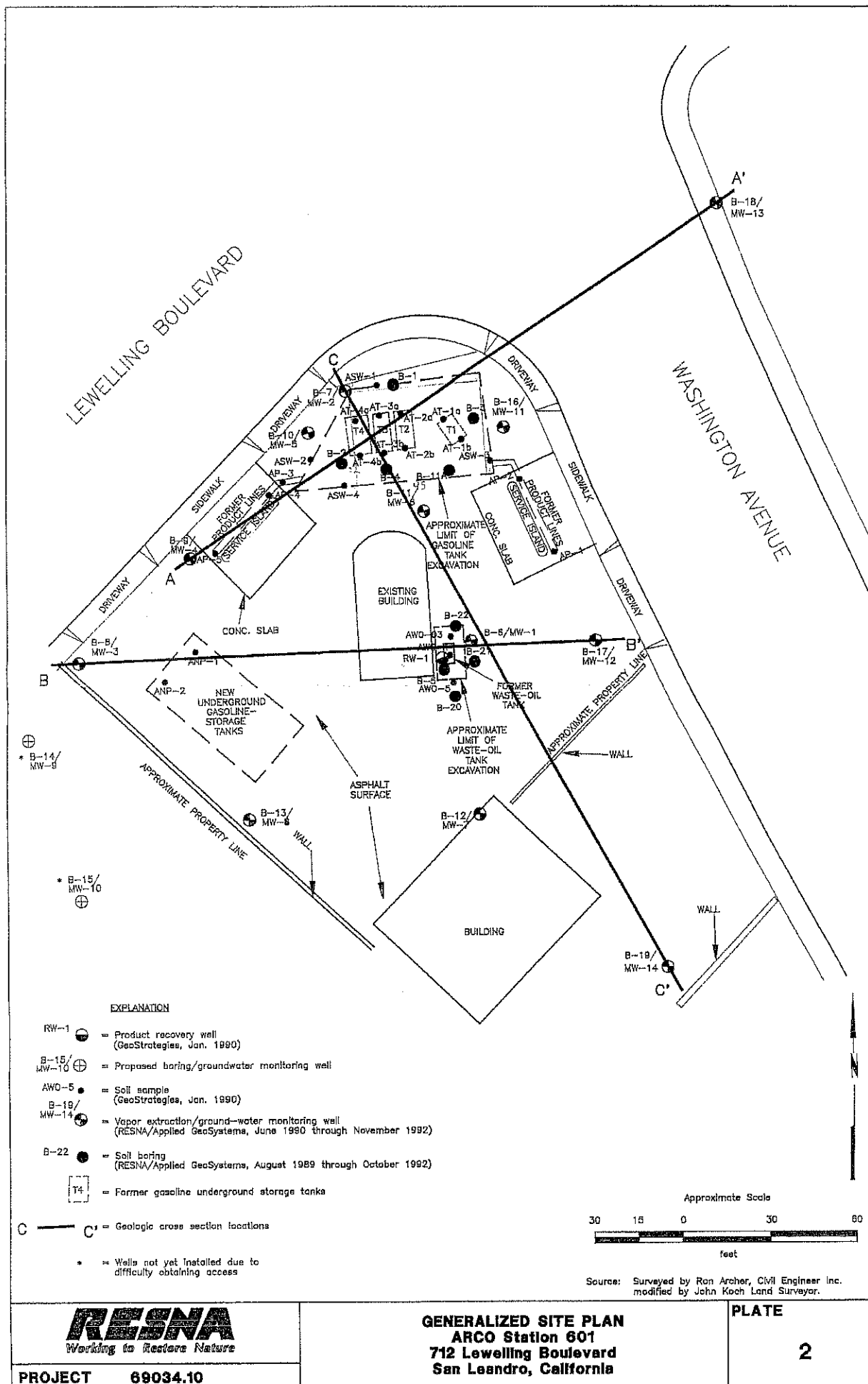


Boring number
Sample depth in feet below ground surface
Soil sample

SPA-SPD



Composite sample
Soil pile



Additional Subsurface Investigation
ARCO Station 601, San Leandro, California

March 3, 1993
69034.10

TABLE 2
CUMULATIVE RESULTS OF LABORATORY
ANALYSES OF SOIL SAMPLES
ARCO Station 601
San Leandro, California
(Page 1 of 4)

Sample ID	TPHg	TPHd	TOG	B	T	E	X	Pb
<u>Borings August 1989</u>								
S-5-B1	350	NA	NA	8.3	19	5.1	26	NA
S-10-B1	610	NA	NA	10	37	6	48	NA
S-15-B1	<10	NA	NA	0.007	0.011	<0.005	0.012	NA
S-5-B2	12,000	NA	NA	60	450	110	660	NA
S-10-B2	<1	NA	NA	0.015	0.016	<0.005	0.018	NA
S-14-B2	<1	NA	NA	0.015	0.030	<0.005	0.035	NA
S-5-B3	23	NA	NA	0.710	<0.05	0.40	0.034	NA
S-10-B3	180	NA	NA	0.700	3.2	1.4	9.6	NA
S-5-B4	12	NA	NA	0.33	0.37	<0.05	0.75	NA
S-10-B4	65	NA	NA	1.9	2.0	0.7	4.6	NA
S-5-B5	370	NA	4,800	2.1	3.8	0.8	2.8	NA
S-10-B5	2,600	NA	130	10	90	21	130	NA
S-4.5-B6	9.5	<10	190	1.4	0.099	0.25	1.3	NA
S-7.5-B6	420	280	130	6.0	27	8.8	52	NA
S-12-B6	6.5	<10	130	0.062	0.29	0.10	0.60	NA
S-16.5-B6	<1.0	<10	63	<0.0050	0.040	0.011	0.069	NA
S-4.5-B7	9.3	NA	NA	0.71	0.040	0.18	0.68	NA
S-10-B7	15	NA	NA	0.99	0.71	0.50	1.3	NA
S-12.5-B7	<1.0	NA	NA	0.56	0.015	<0.0050	0.011	NA
S-16-B7	<1.0	NA	NA	0.0085	0.0071	<0.0050	0.0094	NA
S-6-B8	620	NA	NA	11	30	16	82	NA
S-9-B8	3.1	NA	NA	0.18	0.25	0.0094	0.43	NA
S-12-B8	1.7	NA	NA	0.034	0.039	0.0098	0.046	NA
S-15.5-B8	<1.0	NA	NA	0.082	0.076	<0.0050	0.079	NA
<u>Borings May 1991</u>								
S-5.5-B9	120	NA	NA	1.6	4.2	1.9	12	NA
S-7-B9	420	NA	NA	5.9	24	8.4	48	NA
S-8.5-B9	170	NA	NA	3.7	14	3.5	20	NA
S-11.5-B9	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-14.5-B9	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-17.5-B9	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-5.5-B10	500	NA	NA	2.8	8.1	7.4	34	NA
S-7.5-B10	2,700	NA	NA	27	150	65	370	NA

See notes on page 4 of 4.

Additional Subsurface Investigation
ARCO Station 601, San Leandro, California

March 3, 1993
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TABLE 2
CUMULATIVE RESULTS OF LABORATORY
ANALYSES OF SOIL SAMPLES
ARCO Station 601
San Leandro, California
(Page 2 of 4)

Sample ID	TPHg	TPHd	TOG	B	T	E	X	Pb
<u>Borings May 1991</u>								
S-10-B10	4.9	NA	NA	0.33	0.33	0.10	0.51	NA
S-16-B10	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-6-B11A	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-5.5-B11	4.4	NA	NA	0.72	0.019	0.022	0.041	NA
S-8.5-B11	100	NA	NA	3.0	9.3	2.7	1.5	NA
S-12-B11	<1.0	NA	NA	0.011	0.019	0.0055	0.025	NA
S-15-B11	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-5.5-B12	<1.0	<1.0	<30	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-7.5-B12	<1.0	<1.0	<30	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-10.5-B12	23	6.0	<30	<0.0050	0.24	0.50	2.2	NA
S-14.5-B12	<1.0	<1.0	<30	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-5.5-B13	8.4	15	<30	0.022	0.017	0.20	0.59	NA
S-11-B13	<1.0	<1.0	<30	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-15-B13	<1.0	<1.0	<30	<0.0050	<0.0050	<0.0050	<0.0050	NA
<u>Borings Oct 1992</u>								
S-6-B16	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-8-B16	87	NA	NA	<0.2500	<0.2500	8.4	37	NA
S-15.5-B16	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-5.5-B17	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-9-B17	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	<5.0
S-14-B17	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	0.025	NA
<u>Boring Nov 1992</u>								
S-5-B18	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-7.5-B18	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-11-B18	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-16-B18	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
<u>Composited Soil Samples Nov 1992</u>								
SP A-D	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	0.0060
<u>Boring Aug 1992</u>								
S-7.5-B19	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA
S-15.5-B19	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA

See notes on page 4 of 4.

Additional Subsurface Investigation
ARCO Station 601, San Leandro, California

March 3, 1993
69034.10

TABLE 2
CUMULATIVE RESULTS OF LABORATORY
ANALYSES OF SOIL SAMPLES
ARCO Station 601
San Leandro, California
(Page 3 of 4)

Sample ID	TPHg	TPHd	TOG	B	T	E	X	Pb
<u>Composited Soil Samples Aug 1992</u>								
SP-0807 A-D	<1.0	NA	NA	<0.0050	<0.0050	<0.0050	<0.0050	NA

Sample ID	TPHg	TPHd	TOG	B	T	E	X	VOCs	Cd	Cr	Pb	Zn	Ni	BNAs
<u>Borings Oct 1992</u>														
S-4.5-B20	<1.0	<1.0	<50	0.074 (<0.100)	<0.0050 (<0.100)	<0.0050 (<0.100)	0.034 (<0.100)	ND	<0.50	49	5.0	70	53	ND
S-7.5-B20	30	300	430	0.40 (0.480)	<0.1000 (<0.100)	0.88 (3.000)	0.96 (2.300)	ND	<0.50	44	5.4	59	43	7,300* 4,500* 0.180*
S-17-B20	<1.0	<1.0	<50	<0.0050 (<0.100)	<0.0050 (<0.100)	<0.0050 (<0.100)	<0.0050 (<0.100)	ND	<0.50	50	<5.0	64	60	ND
S-4.5-B21	6.1	2.2	<50	0.42 (0.270)	0.0070 (<0.100)	0.10 (<0.100)	0.17 (0.130)	ND	<0.50	56	<5.0	67	56	ND
S-7.5-B21	460	2,000	1,200	14 (2.100)	2.4 (<1.000)	9.6 (23.000)	14 (7.700)	ND	<0.50	42	7.9	52	46	3,600* 3,300*
S-16.5-B21	2.8	<1.0	<50	0.013 (<0.100)	<0.0050 (<0.100)	0.056 (<0.100)	0.18 (<0.100)	ND	<0.50	50	5.4	71	67	ND
S-4.5-B22	460	300	93	29 (57.000)	11 (18.000)	10 (28.000)	28 (77.000)	ND	<0.50	28	<5.0	80	48	ND
S-7.5-B22	760	390	82	3.6 (1.300)	3.2 (<0.500)	12 (0.500)	43 (23.000)	ND	1.4	15	240	2,600	52	5,700* 4,100*
S-16.5-B22	<1.0	<1.0	<50	0.014 (<0.100)	0.027 (<0.100)	0.014 (<0.100)	0.070 (0.160)	ND	<0.50	56	6.3	80	70	ND

Metals
TTL Value
STLC

Cd Cr Pb Zn Ni
100 500 1,000 5,000 2,000
1.0 5.0 5.0 20.0 1.0

Sample ID	TPHg	TPHd	TOG	B	T	E	X	Pb
<u>Composited Stockpile Samples Oct 1992</u>								
SPA-SPD	33	NA	NA	0.28	0.28	0.50	1.6	0.0060

See notes on page 4 of 4.

Additional Subsurface Investigation
ARCO Station 601, San Leandro, California

March 3, 1993
69034.10

TABLE 2
CUMULATIVE RESULTS OF LABORATORY
ANALYSES OF SOIL SAMPLES
ARCO Station 601
San Leandro, California
(Page 4 of 4)

Results in parts per million (ppm).

TPHg = Total petroleum hydrocarbons as gasoline using EPA Method 5030/8020/8015

TEPHg = Total extractable petroleum hydrocarbons using EPA Method 3350/8015.

TOG = Total oil and grease using 5520 E&F (gravimetric).

B = benzene, T = toluene, E = ethylbenzene, X = total xylenes (EPA Method 8020/8015)

VOCs = Volatile organic compounds using EPA Method 8240 (except BTEX).

() = BTEX using EPA Method 8240.

BNAs = Semi-volatile organics using EPA 8270 (* = 2-Methylnaphthalene, * = Naphthalene, and ° = Phenanthrene).

Cd = Cadmium Cr = Chromium Pb = Lead Zn = Zinc Ni = Nickel (EPA Method 6010)

TILC Values = Total Threshold Limit Concentration (California Administrative Code, Title 22)

< = Below indicated laboratory reporting limits.

NA = Not analyzed

ND = Not detected

Sample Identification:

S-10-B12



Boring number

Sample depth in feet below ground surface

Soil sample

SPA-SPD



Composite sample

Soil stockpile

Additional Subsurface Investigation
ARCO Station 601, San Leandro, California

March 3, 1993
69034.10

TABLE 3
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
ARCO Station 601
San Leandro, California
(Page 1 of 3)

Sample	TPHg	TPHd	B	T	E	X	TOG	BNAs	VOCs	Cd	Cr	Pb	Ni	Zn
<u>MW-1</u>														
07/18/90														
10/15/90														
01/09/91														
04/16/91														
06/10/91														
10/10/91														
03/23/92														
06/08/92														
09/15/92														
11/16/92														
<u>MW-2</u>														
07/18/90	35,000	850*	3,800	2,900	690	3,600	<5,000	340*	39*	<20	50	50	NA	120
			(3,200)	(2,400)	(270)	(2,900)		170*						
10/15/90	6,400	NA	650	290	110	560	NA	NA	18*	NA	NA	NA	NA	NA
01/09/91	13,000	NA	1500	970	390	1500	NA	NA	6.5*	NA	NA	NA	NA	NA
			(1700)	(1200)	(370)	(2400)								
04/16/91	54,000	NA	5,200	9,000	1,500	7,700	NA	NA	NA	NA	NA	NA	NA	NA
06/10/91	26,000	NA	3,000	2,500	880	4,200	NA	NA	NA	NA	NA	NA	NA	NA
10/10/91	10,000	NA	1,600	910	280	1,400	<5,000	NA	1.7*	<10	<10	11	72	91
03/23/92	33,000	NA	4,100	5,000	1,100	5,300	NA	NA	NA	NA	NA	NA	NA	NA
06/08/92	18,000	NA	1,200	980	330	1,800	NA	NA	NA	NA	NA	NA	NA	NA
09/15/92	13,000	NA	430	500	340	1,800	NA	NA	NA	NA	NA	NA	NA	NA
11/16/92	13,000	NA	900	940	300	1,400	NA	NA	NA	NA	NA	NA	NA	NA
<u>MW-3</u>														
07/18/90	NA	NA	NA	NA	NA	NA	<5,000	NA	NA	NA	NA	NA	NA	NA
10/15/90														
01/09/91														
04/16/91														
06/10/91														
10/10/91														
03/23/92														
06/08/92														
09/15/92														
11/16/92														
<u>MW-4</u>														
06/10/91														
10/10/91	15,000	NA	5,300	1,500	470	1,300	NA	NA	NA	NA	NA	NA	NA	NA
03/23/92	24,000	NA	5,600	4,000	580	3,100	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on page 2 of 3.

Additional Subsurface Investigation
ARCO Station 601, San Leandro, California

March 3, 1993
69034.10

TABLE 3
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
ARCO Station 601
San Leandro, California
(Page 2 of 3)

Sample	TPHg	TPHd	B	T	E	X	TOG	BNAs	VOCs	Cd 10/00 10	Cr 5000 50	Pb 5000 50	Ni 2000 —	Zn 2000 5000 PPM	STC
<u>MW-4</u>															
06/08/92	5,700	NA	2,000	170	92	270	NA	NA	NA	NA	NA	NA	NA	NA	
09/15/92															
11/16/92															
<u>MW-5</u>															
06/10/91	100,000	NA	25,000	20,000	2,600	12,000	NA	NA	NA	NA	NA	NA	NA	NA	
10/10/91															
03/23/92	150,000	NA	24,000	31,000	4,400	23,000	NA	NA	NA	NA	NA	28	NA	NA	
06/08/92	120,000	NA	17,000	13,000	2,400	11,000	NA	NA	NA	NA	NA	NA	NA	NA	
09/15/92															
11/16/92	110,000	NA	16,000	16,000	3,200	18,000	NA	NA	NA	NA	NA	NA	NA	NA	
<u>MW-6</u>															
06/10/91															
10/10/91															
03/23/92	75,000	NA	19,000	10,000	1,600	8,600	NA	NA	NA	NA	NA	NA	NA	NA	
06/08/92															
09/15/92															
11/16/92															
<u>MW-7</u>															
06/10/91															
10/10/91															
03/23/92	270	NA	10	0.5	3.0	13	NA	NA	NA	NA	NA	NA	NA	NA	
06/08/92															
09/15/92															
11/16/92															
<u>MW-8</u>															
06/10/91	5,800	NA	73	7.2	150	21	<5,000	NA	NA	NA	NA	NA	NA	NA	
10/10/91	2,800	NA	31	6.1	4.5	3.9	NA	NA	NA	NA	NA	NA	NA	NA	
03/23/92	8,000	NA	18	<5.0**	320	42	NA	NA	ND	NA	NA	NA	NA	NA	
			(23**)	(<5.0**)	(450**)	(23**)									
06/08/92	4,000	NA	<10**	<10**	110	<10**	NA	NA	NA	NA	NA	NA	NA	NA	
09/15/92	4,200	460***	6.4	<5*	120	<5*	NA	6*	ND	ND	59	18	78	128	
11/16/92	2,600	1,100***	4.0	<2.5**	21	5.2	1,200	32*	ND	7	42	20	69	123	
<u>MW-11</u>															
11/16/92	7,000	NA	21	<10**	18	230	NA	NA	NA	NA	NA	NA	NA	NA	
<u>MW-12</u>															
11/16/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	

See Notes on page 2 of 3.

Additional Subsurface Investigation
ARCO Station 601, San Leandro, California

March 3, 1993
69034.10

TABLE 3
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
ARCO Station 601
San Leandro, California
(Page 3 of 3)

Sample	TPHg	TPHd	B	T	E	X	TOG	BNAs	VOCs	Cd	Cr	Pb	Ni	Zn
<u>MW-13</u>														
11/16/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA
<u>MW-14</u>														
09/15/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA
11/16/92	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA	NA	NA	NA
DWAL:	—	—	—	100	—	—	—	—	—	—	—	—	—	—
MCLs:	—	—	1	NA	680	1,750	—	—	—	10	50	50	—	5,000

Results in micrograms per liter (ug/L) = parts per billion (ppb).

NA: Not analyzed.

<: Results reported as less than the detection limit.

*: Applied analytical laboratories reports that the chromatograph resembled gasoline not diesel.

**: Laboratory reported raised maximum reporting limit due to high analyte concentration requiring sample dilution.

***: Sample contains a lower boiling point hydrocarbon mixture quantitated as diesel. The chromatogram does not match the typical diesel fingerprint, possibly reflecting weathered gasoline.

(): BTEX results analyzed as VOCs.

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

TPHd: Total petroleum hydrocarbons as diesel by EPA method 3550/3510.

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

BTEX: Measured by EPA method 8020/602.

TOG: Total oil and grease measured by Standard Method 503A/E or EPA Method 418.1.

BNAs: Base neutral and acid extractables including polynuclear aromatics concentrations are below laboratory reporting limits for respective compounds except as indicated. (* = naphthalene, * = 2-methylnaphthalene, * = Bis (2-ethylhexyl) Phthalate)

VOCs: volatile organics except for BTEX concentrations are below laboratory reporting limits for respective compounds except as indicated. (* = methylene chloride, * = 1,2-Dichloroethane)

Cd: Cadmium (By EPA Method 6010)

Cr: Chromium (By EPA Method 6010)

Pb: Lead (By EPA Method 7421)

Ni: Nickel (By EPA Method 6010)

Zn: Zinc (By EPA Method 6010)

ND: Below detection limits. Detection limits for VOCs varied according to analyte.

DWAL: California Department of Health Services recommended drinking water action levels (October 1990).

MCLs: Maximum Contaminant Level in ppb (October 1990).

TABLE 1**GROUNDWATER ANALYTICAL DATA**

ARCO Service Station No. 601
712 Lewelling Boulevard
San Leandro, California

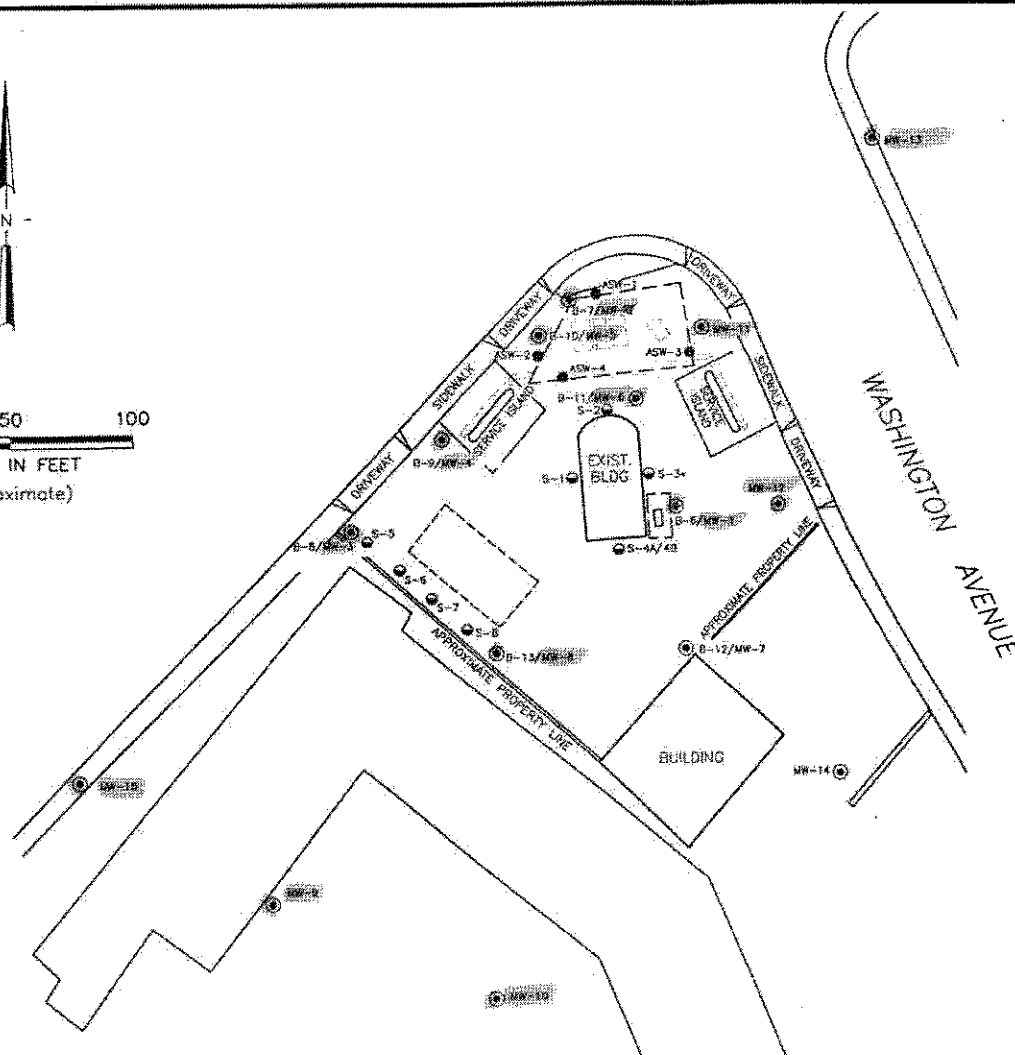
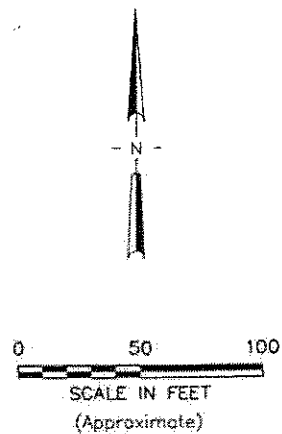
Sample ID	Date Sampled	Depth to Groundwater in Boring (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	TPH as Gasoline (µg/L)	MTBE ^a (µg/L)
HB-2	05/30/02	7.5	570	960	1,600	7,300	28,000	<50
HB-3	05/30/02	7.5	1,200	740	2,100	11,000	38,000	<50
HB-4	05/30/02	7.5	62	<5.0	7.8	<5.0	630	160

^a MTBE by EPA Method 8260B

TPH = Total petroleum hydrocarbons

µg/L = micrograms per liter

MTBE = Methyl tertiary butyl ether



EXPLANATION

- ⊙ Groundwater monitoring well
- Excavation sidewall soil sample
- Soil vapor sample
- Former underground gasoline storage tank
- Existing underground gasoline storage tank
- Approximate limit of gasoline tank excavation
- Former product line
- Not sampled, area was inaccessible



DATE: APR. 1997
 DWN: KLT
 APP: _____
 REV: _____
 PROJECT NO.
 805-121.004

FIGURE 2
 ARCO PRODUCTS COMPANY
 SERVICE STATION 601, 712 LEWELLING BLVD.
 SAN LEANDRO, CALIFORNIA
SITE PLAN

Table 4
Summary of Analytical Soil-Vapor Results
ARCO Service Station 601

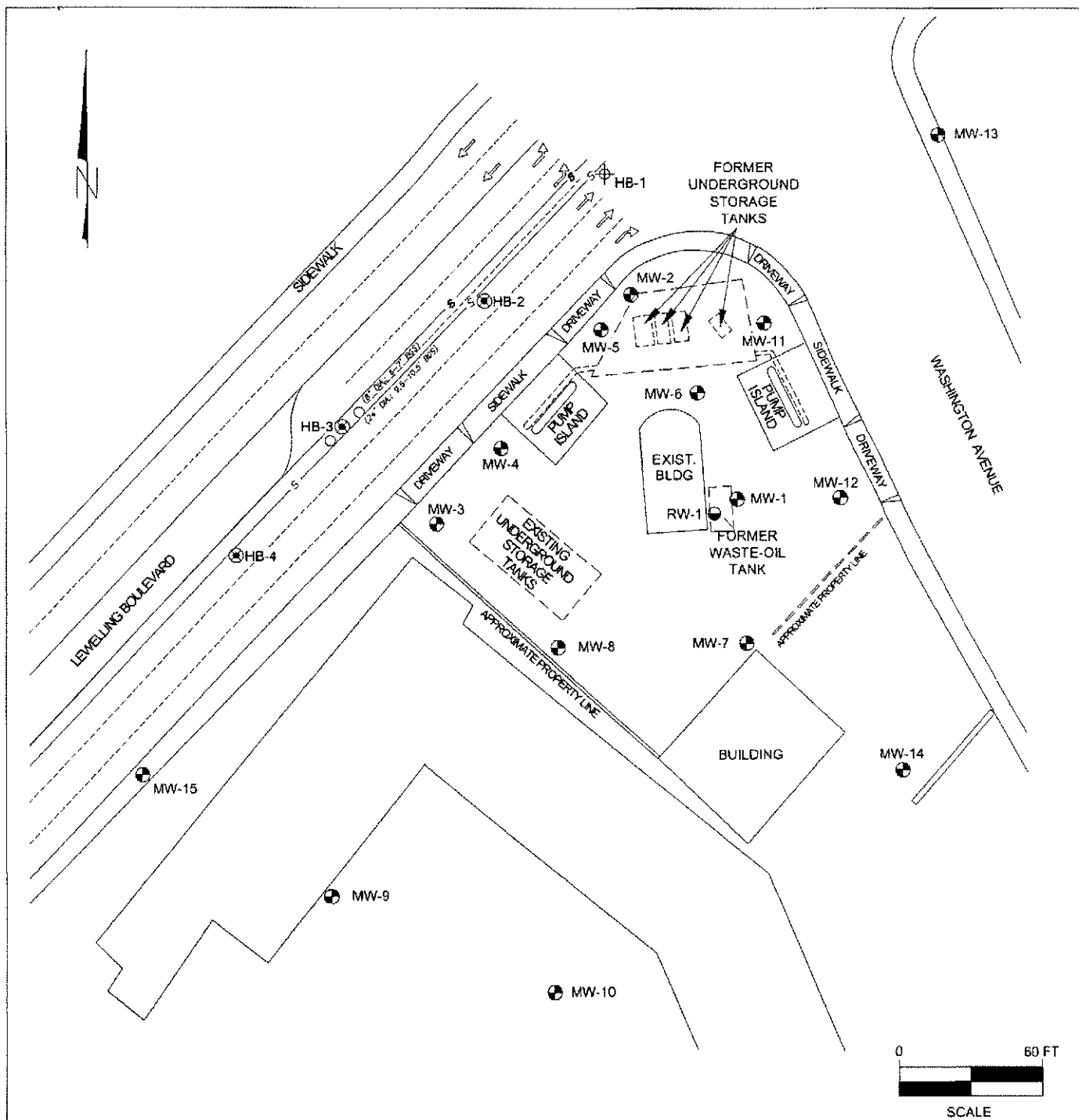
Sample	Depth (feet BGS)	Benzene (mg/m ³)	Toluene (mg/m ³)	Ethylbenzene (mg/m ³)	Total Xylenes (mg/m ³)
S-B*	ambient air	<0.5	<0.5	<0.5	<1
S-1	1 - 1.5	<0.5	<0.5	<0.5	<1
S-2	1 - 1.5	<0.5	<0.5	<0.5	<1
S-4A	1 - 1.5	<0.5	<0.5	<0.5	<1
S-4B	4	<0.5	<0.5	<0.5	<1
S-5	1 - 1.5	<0.5	<0.5	<0.5	<1
S-6	1 - 1.5	<0.5	<0.5	<0.5	<1
S-7	1 - 1.5	<0.5	<0.5	<0.5	<1
S-8	1 - 1.5	<0.5	<0.5	<0.5	<1

BGS: below ground surface

mg/m³: milligrams per cubic meter of air

* background ambient air sample

<: Concentrations were detected below the method reporting limit (MRL), therefore half of the MRL was used in RBCA calculations.



LEGEND:

- MW-1 MONITORING WELL LOCATION
- RW-1 SOIL VAPOR EXTRACTION WELL LOCATION
- ⊕ HB-1 PROPOSED HAND AUGER BORING LOCATION
- ⊗ HB-2 HAND AUGER BORING LOCATION

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

FIGURE 2

SITE MAP

ARCO FACILITY NO. 601
712 LEVEE BOULEVARD
SAN LEANDRO, CA.

PROJECT NO. 0000-303	DRAWN BY M.L. 7/12/02
FILE NO. 601-1	PREPARED BY W.S.
REVISION NO. 2	REVIEWED BY



TABLE 1**GROUNDWATER ANALYTICAL DATA**

ARCO Service Station No. 601
712 Lewelling Boulevard
San Leandro, California

Sample ID	Date Sampled	Depth to Groundwater in Boring (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	TPH as Gasoline (µg/L)	MTBE ^a (µg/L)
HB-2	05/30/02	7.5	570	960	1,600	7,300	28,000	<50
HB-3	05/30/02	7.5	1,200	740	2,100	11,000	38,000	<50
HB-4	05/30/02	7.5	62	<5.0	7.8	<5.0	630	160

^a MTBE by EPA Method 8260B

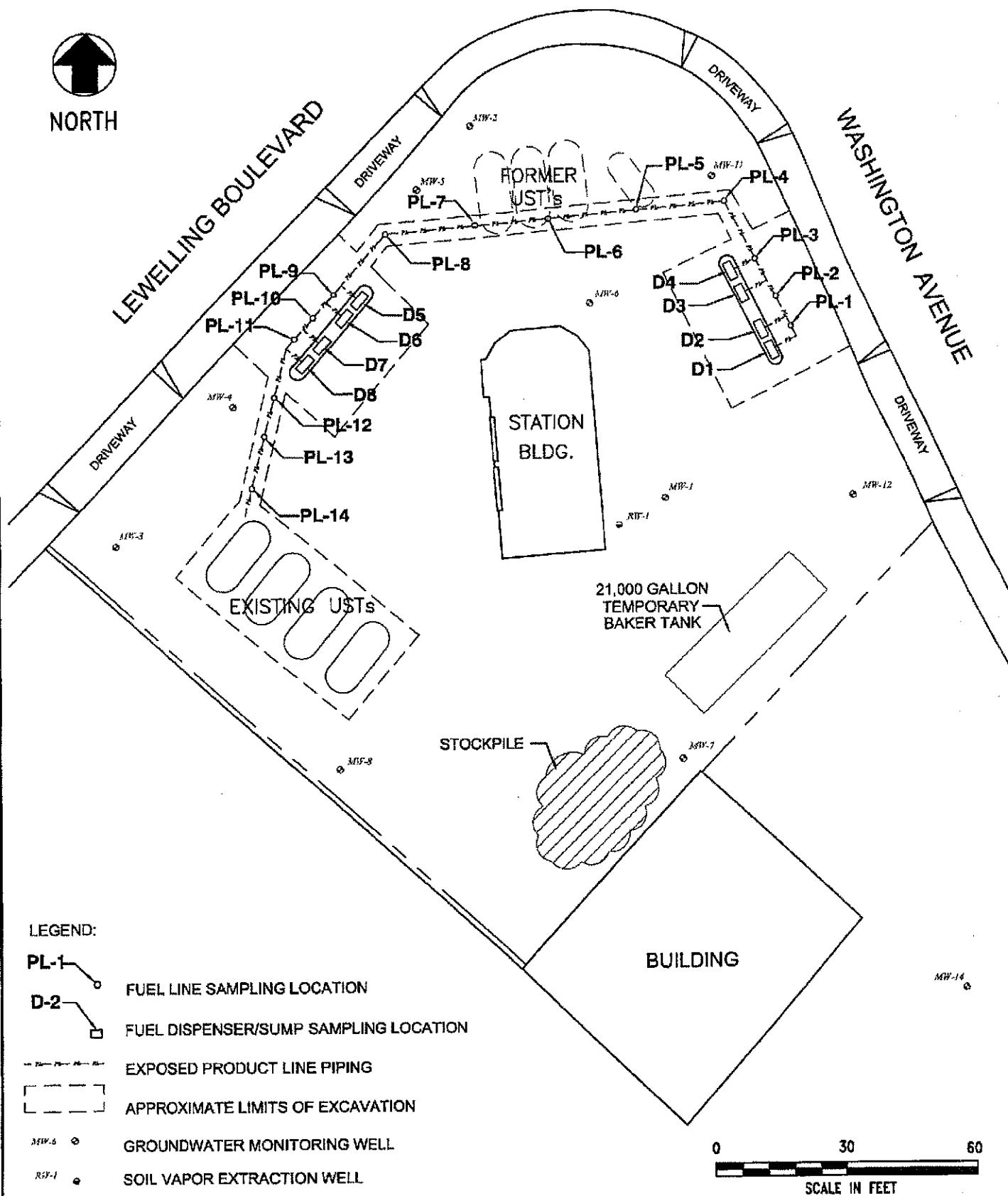
TPH = Total petroleum hydrocarbons

µg/L = micrograms per liter

MTBE = Methyl tertiary butyl ether



NORTH



URS

Project No. 38486284
Arco Service Station 0601
712 Lewelling Boulevard
San Leandro, California

SOIL SAMPLE LOCATION MAP

FIGURE
2

Table 1
LINE/DISPENSER SOIL SAMPLE RESULTS

Soil Sample ID	Sample Depth (feet) ^a	Date Sampled	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	MTBE (ppm)
D-1	4.0	06/18/03	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017
D-2	4.0	06/18/03	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017
D-3	4.0	06/18/03	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017	ND<0.0017
D-4 ^a	4.0	06/18/03	ND<0.0016	0.0091	ND<0.0016	0.0088	ND<0.0016
D-5 ^a	4.0	06/18/03	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015
D-6 ^a	4.0	06/18/03	7	230	55	350	ND <2.5
D-7	5.0	06/19/03	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016
D-8	4.0	06/19/03	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016
PL-1	4.0	06/18/03	ND <0.0014	ND <0.0014	ND <0.0014	ND <0.0014	ND <0.0014
PL-2 ^a	4.0	06/18/03	1.2	14	1.5	9.7	ND <0.25
PL-3	4.0	06/18/03	ND <0.0017	0.0026	ND <0.0017	0.0036	ND <0.0017
PL-4	4.0	06/18/03	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016	ND <0.0016
PL-7 ^a	5.0	06/18/03	ND <0.05	ND <0.05	ND <0.05	0.14	ND <0.025
PL-8 ^a	6.0	06/19/03	ND <0.05	ND <0.05	0.27	0.11	ND <0.025
PL-9	4.0	06/18/03	ND <0.0017	ND <0.0017	ND <0.0017	ND <0.0017	ND <0.0017
PL-10	5.0	06/19/03	ND <0.0019	ND <0.0019	ND <0.0019	ND <0.0019	ND <0.0019
PL-11	4.0	06/19/03	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015
PL-12	5.0	06/19/03	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015
PL-13 ^a	4.0	06/19/03	ND <0.5	ND <0.5	5.6	30	ND <0.25
PL-14	6.0	06/19/03	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015	ND <0.0015
Over Excavation Sample.							
OE PL-2 ^a	8.0	06/19/03	0.1500	0.1800	0.0063	0.6400	0.0045

Notes:

a. The Lab analytical results also reported other chemical constituents in small quantities such as 1,2,3-Trimethylbenzene, n-Butylbenzene, Naphthalene, n-Propylbenzene, and p-Isopropyltoluene. A complete list of all chemicals can be found in the certified analytical results presented in Appendix B of this report.

Table 2
STOCKPILE SOIL SAMPLE RESULTS

Soil Sample ID	Date Sampled	Benzene (ppm)	Toluene (ppm)	Ethyl benzene (ppm)	Xylenes (ppm)	MTBE (ppm)	Lead (ppm)
601 ^b	06/24/03	0.0026	ND <0.002	0.007	0.026	ND <0.002	17

Notes:

b. The Lab analytical results also reported other chemical constituents in small quantities such as Trimethylbenzene, Butylbenzene, Naphthalene, and n-Propylbenzene. A complete list of all chemicals can be found in the certified analytical results presented in Appendix B of this report.

BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B.
MTBE = Methyl tert-Butyl Ether by EPA Method 8260B.
Lead = Total lead by EPA Method 6010B.
ppm = Parts per million.
ND < = Less than stated laboratory detection limit.

ARCO Service Station 601
712 Lewelling Boulevard
San Leandro, California

Table 3
GROUNDWATER SAMPLE RESULTS

Sample ID	Date Sampled	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE (ppb)	pH
TW-1	06/17/03	ND<5.0	ND<5.0	ND<5.0	ND<5.0	290	6.96

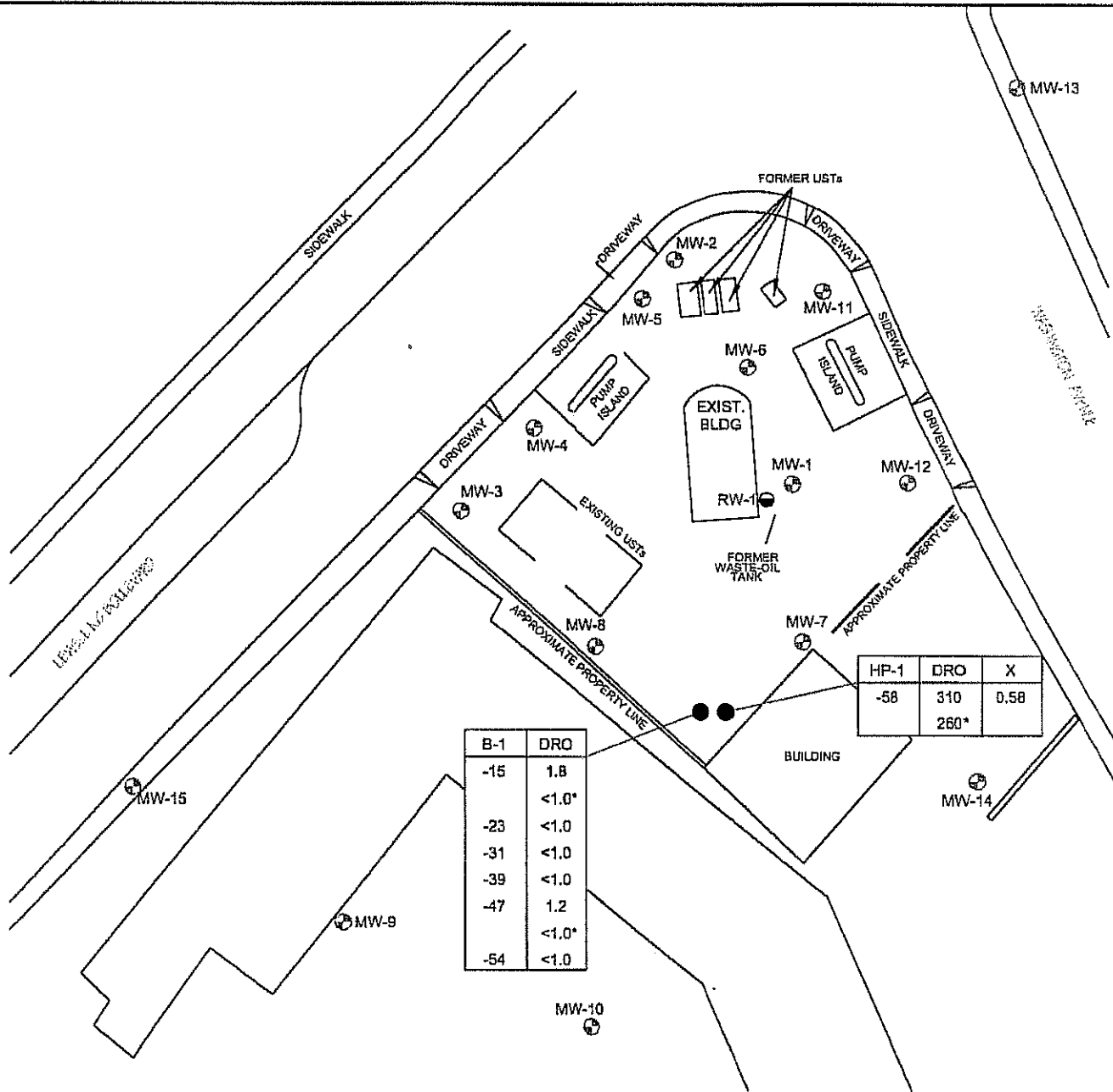
BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B.

MTBE = Methyl tert-Butyl Ether by EPA Method 8260B.

pH = pH by EPA Method 150.1

ppm = Parts per million.

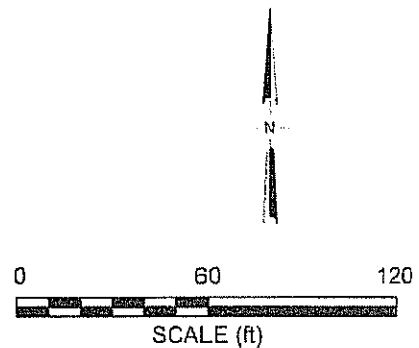
ND < = Less than stated laboratory detection limit.



LEGEND

- ⊕ GROUND-WATER MONITORING WELL
- SOIL VAPOR EXTRACTION WELL
- APPROXIMATE SOIL BORING/HYDROPUNCH LOCATION
- < NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMITS
- Soil Boring B-1 Diesel Range Organics (DRO) Concentrations in mg/Kg
- Hydropunch Boring HP-1 DRO and Xylenes Concentrations in ug/L
- * Revised Concentrations Following Silica-Gel Extraction Procedure

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



BROADBENT & ASSOCIATES, INC.

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, California

Project No.: 06-08-605 Date: 01/18/07

Station #601
712 Lewelling Boulevard
San Leandro, California

Site Plan with Soil/
Hydropunch Boring Locations
30 November 2006

Drawing

1

Table 1
Summary of Sanitary Sewer Sampling Data
 ARCO Service Station No. 0601
 712 Lewelling Blvd.,
 San Leandro, CA

Date	Sample ID	Benzene (ug/l)	Toluene (ug/l)	Ethyl- benzene (ug/l)	Xylenes (ug/l)
		8260	8260	8260	8260
11/30/05	Sewer 1	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Notes:

ug/l = micrograms per liter

Sewer 1 = Sanitary sewer lateral

Sewer = Sanitary sewer lateral

ND< = Non detected at or above laboratory reporting limits.

ND = Non-detect

Historical Groundwater Elevation and Analytical Data

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Date: 04-15-97

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Groundwater Elevation ft-MSL	Floating Product Thickness feet	Groundwater Flow Direction MWN	Hydraulic Gradient ft/ft	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8020 µg/L	Toluene EPA 8020 µg/L	Ethylbenzene EPA 8020 µg/L	Total Xylenes EPA 8020 µg/L	MTBE EPA 8020 µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L
MW-1	07-17-90	22.98	9.03	13.95	Emulsion	NR	NR	07-18-90	Not sampled: well contained floating product								
MW-1	08-07-90	22.98	9.19	13.79	ND	NR	NR										
MW-1	10-15-90	22.98	^9.85	^13.13	0.25	NR	NR	10-15-90	Not sampled: well contained floating product								
MW-1	11-20-90	22.98	^9.79	^13.19	0.46	NR	NR										
MW-1	12-21-90	22.98	9.18	13.80	Sheen	NR	NR										
MW-1	01-09-91	22.98	^9.47	^13.51	0.02	NR	NR	01-09-91	Not sampled: well contained floating product								
MW-1	02-27-91	22.98	^9.31	^13.67	0.03	NR	NR										
MW-1	03-20-91	22.98	^^7.81	^^15.17	Sheen	NR	NR										
MW-1	04-16-91	22.98	6.12	16.86	Sheen	NR	NR	04-16-91	Not sampled: well contained floating product								
MW-1	05-16-91	22.98	^8.60	^13.66	0.01	NR	NR										
MW-1	06-10-91	22.26	9.00	13.26	Sheen	NR	NR	06-10-91	Not sampled: well contained floating product								
MW-1	07-18-91	22.26	^9.33	^12.93	0.01	NR	NR										
MW-1	08-22-91	22.26	^9.49	^12.77	0.04	NR	NR										
MW-1	09-18-91	22.26	^9.63	^12.63	0.04	NR	NR										
MW-1	10-10-91	22.26	^9.73	^12.53	0.04	NR	NR	10-10-91	Not sampled: well contained floating product								
MW-1	11-21-91	22.26	^8.40	^13.86	0.01	NR	NR										
MW-1	12-24-91	22.26	^9.68	^13.30	0.13	NR	NR										
MW-1	01-19-92	22.26	8.84	13.42	ND	NR	NR										
MW-1	02-20-92	22.26	7.22	15.04	ND	NR	NR										
MW-1	03-23-92	22.26	7.40	14.86	Sheen	NR	NR	03-23-92	Not sampled: well contained floating product								
MW-1	04-21-92	22.26	8.30	13.96	ND	NR	NR										
MW-1	05-15-92	22.26	^8.77	^13.49	0.01	NR	NR										
MW-1	06-08-92	22.26	^9.08	^13.18	0.02	NR	NR	06-08-92	Not sampled: well contained floating product								
MW-1	07-15-92	22.26	9.40	12.86	ND	NR	NR										
MW-1	08-25-92	22.26	8.21	14.05	ND	NR	NR										
MW-1	09-15-92	22.26	^8.18	^14.08	0.02	NR	NR	09-15-92	Not sampled: well contained floating product								
MW-1	10-28-92	22.26	8.62	13.64	ND	NR	NR										
MW-1	11-16-92	22.26	^9.09	^13.17	0.02	NR	NR	11-16-92	Not sampled: well contained floating product								
MW-1	12-16-92	22.26	^8.10	^14.16	0.02	NR	NR										
MW-1	01-15-93	22.26	6.53	15.73	ND	NR	NR										
MW-1	02-16-93	22.26	^7.03	^15.23	0.01	NR	NR	02-16-93	Not sampled: well contained floating product								
MW-1	03-30-93	22.26	6.86	15.40	ND	NR	NR										

Historical Groundwater Elevation and Analytical Data

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Date: 04-15-97

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Groundwater Elevation ft-MSL	Floating Product Thickness feet	Groundwater Flow Direction MWN	Hydraulic Gradient ft/ft	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8020 µg/L	Toluene EPA 8020 µg/L	Ethylbenzene EPA 8020 µg/L	Total Xylenes EPA 8020 µg/L	MTBE EPA 8020 µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L
MW-1	04-28-93	22.26	^6.77	^15.49	0.01	NR	NR										
MW-1	05-13-93	22.26	^8.08	^14.18	0.01	NR	NR	05-13-93	Not sampled: well contained floating product								
MW-1	06-17-93	22.26	^8.48	^13.78	0.01	NR	NR										
MW-1	07-28-93	22.26	^8.80	^13.46	0.01	NR	NR										
MW-1	08-17-93	22.26	^8.81	^13.45	0.01	NR	NR	08-17-93	Not sampled: well contained floating product								
MW-1	11-08-93	22.26	^9.22	^13.04	0.01	NR	NR	11-08-93	Not sampled: well contained floating product								
MW-1	02-14-94	22.26	7.72	14.54	Sheen	NR	NR	02-14-94	Not sampled: well contained floating product								
MW-1	05-05-94	22.26	8.47	13.79	Sheen	NR	NR	05-05-94	Not sampled: well contained floating product								
MW-1	08-04-94	22.26	8.72	13.54	Sheen	SW	0.004	08-04-94	Not sampled: well contained floating product								
MW-1	11-20-94	22.26	7.81	14.45	Sheen	SW	0.002	11-20-94	Not sampled: well contained floating product								
MW-1	03-17-95	22.26	6.57	15.69	ND	WSW	0.006	03-17-95	120000	5300	370	1500	13000	--	--	48000	6200^
MW-1	06-01-95	22.26	7.87	14.39	ND	SW	0.003	06-01-95	250000	7100	950	3500	21000	--	--	38000	190000^
MW-1	08-31-95	22.26	8.12	** 14.15	0.01	SSW	0.005	08-31-95	Not sampled: well contained floating product								
MW-1	11-27-95	22.26	8.42	13.84	Sheen	SSW	0.004	11-27-95	310000	4600	770	5700	21000	--	--	--	--
MW-1	02-22-96	22.26	6.01	** 16.26	0.01	NW	0.007	03-14-96	100000	6200	320	2500	12000	<1000*	--	--	--
MW-1	05-20-96	22.26	7.03	15.23	ND	SW	0.007	05-21-96	340000	6600	240	4500	22000	<1000*	--	150	<2500^
MW-1	08-26-96	22.26	8.16	14.10	ND	SSW	0.004	08-26-96	210000	7900	320	3400	15000	<1000*	--	--	--
MW-1	11-20-96	22.26	7.84	14.42	ND	SSE	0.004	11-20-96	62000	5900	77	2000	7700	<300*	--	--	--

Historical Groundwater Elevation and Analytical Data

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Date: 04-15-97

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Groundwater Elevation ft-MSL	Floating Product Thickness feet	Groundwater Flow Direction MWN	Hydraulic Gradient ft/ft	Water Sample Field Date	TPHC LUFT Method µg/L	Benzene EPA 8020 µg/L	Toluene EPA 8020 µg/L	Ethylbenzene EPA 8020 µg/L	Total Xylenes EPA 8020 µg/L	MTBE EPA 8020 µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L
MW-2	07-17-90	22.06	7.86	14.20	ND	NR	NR	07-18-90	35000	3800	2900	690	3600	--	--	<5000	850^
MW-2	08-07-90	22.06	8.03	14.03	ND	NR	NR										
MW-2	10-15-90	22.06	8.61	13.45	ND	NR	NR	10-15-90	6400	650	290	110	560	--	--	--	--
MW-2	11-20-90	22.06	8.76	13.30	ND	NR	NR										
MW-2	12-21-90	22.06	8.28	13.78	ND	NR	NR										
MW-2	01-09-91	22.06	8.43	13.63	ND	NR	NR	01-09-91	13000	1500	970	390	1500	--	--	--	--
MW-2	02-27-91	22.06	8.28	13.78	ND	NR	NR										
MW-2	03-20-91	22.06	^^7.26	^^14.80	ND	NR	NR										
MW-2	04-16-91	22.06	6.97	15.09	ND	NR	NR	04-16-91	54000	5200	9000	1500	7700	--	--	--	--
MW-2	05-16-91	22.06	7.52	14.54	ND	NR	NR										
MW-2	06-10-91	21.33	7.91	13.42	ND	NR	NR	06-10-91	26000	3000	2500	880	4200	--	--	--	--
MW-2	07-18-91	21.33	8.30	13.03	ND	NR	NR										
MW-2	08-22-91	21.33	8.50	12.83	ND	NR	NR										
MW-2	09-18-91	21.33	8.63	12.70	ND	NR	NR										
MW-2	10-10-91	21.33	8.82	12.51	ND	NR	NR	10-10-91	10000	1600	910	280	1400	--	--	<5000	--
MW-2	11-21-91	21.33	8.46	12.87	ND	NR	NR										
MW-2	12-24-91	21.33	8.72	12.61	ND	NR	NR										
MW-2	01-19-92	21.33	7.96	13.37	ND	NR	NR										
MW-2	02-20-92	21.33	6.55	14.78	ND	NR	NR										
MW-2	03-23-92	21.33	6.86	14.47	ND	NR	NR	03-23-92	33000	4100	5000	1100	5300	--	--	--	--
MW-2	04-21-92	21.33	7.15	14.18	ND	NR	NR										
MW-2	05-15-92	21.33	7.61	13.72	ND	NR	NR										
MW-2	06-08-92	21.33	7.95	13.38	ND	NR	NR	06-08-92	18000	1200	980	330	1800	--	--	--	--
MW-2	07-15-92	21.33	8.45	12.88	ND	NR	NR										
MW-2	08-25-92	21.33	8.53	12.80	ND	NR	NR										
MW-2	09-15-92	21.33	8.71	12.62	ND	NR	NR	09-15-92	13000	430	500	340	1800	--	--	--	--
MW-2	10-28-92	21.33	8.89	12.44	ND	NR	NR										
MW-2	11-16-92	21.33	7.93	13.40	ND	NR	NR	11-16-92	13000	900	940	300	1400	--	--	--	--
MW-2	12-16-92	21.33	7.44	13.89	ND	NR	NR										
MW-2	01-15-93	21.33	6.13	15.20	ND	NR	NR										
MW-2	02-16-93	21.33	6.02	15.31	ND	NR	NR	02-16-93	20000	1800	1200	530	2700	--	--	--	--
MW-2	03-30-93	21.33	5.98	15.35	ND	NR	NR										

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ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

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Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Groundwater Elevation ft-MSL	Floating Product Thickness feet	Groundwater Flow Direction MWN	Hydraulic Gradient ft/ft	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8020 µg/L	Toluene EPA 8020 µg/L	Ethylbenzene EPA 8020 µg/L	Total Xylenes EPA 8020 µg/L	MTBE EPA 8020 µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L
MW-2	04-28-93	21.33	6.58	14.75	ND	NR	NR										
MW-2	05-13-93	21.33	6.99	14.34	ND	NR	NR	05-13-93	13000	1000	470	370	1900	--	--	--	--
MW-2	06-17-93	21.33	7.40	13.93	ND	NR	NR										
MW-2	07-28-93	21.33	7.79	13.54	ND	NR	NR										
MW-2	08-17-93	21.33	7.85	13.48	ND	NR	NR	08-17-93	9100	770	160	310	1500	--	--	--	--
MW-2	11-08-93	21.33	8.12	13.21	ND	NR	NR	11-08-93	9200	380	62	130	630	--	--	--	--
MW-2	02-14-94	21.33	6.88	14.45	ND	NR	NR	02-14-94	8700	670	370	50	1400	--	--	--	--
MW-2	05-05-94	21.33	7.51	13.82	ND	NR	NR	05-05-94	5600	390	140	120	480	--	--	--	--
MW-2	08-04-94	21.33	8.00	13.33	ND	SW	0.004	08-04-94	2300	180	<2.5*	<2.5*	230	--	--	--	--
MW-2	11-20-94	21.33	6.86	14.47	ND	SW	0.002	11-20-94	4900	170	150	120	390	--	--	--	--
MW-2	03-17-95	21.33	6.12	15.21	ND	WSW	0.006	03-17-95	10000	460	77	260	550	--	--	--	--
MW-2	06-01-95	21.33	6.56	14.77	ND	SW	0.003	06-01-95	13000	400	78	210	410	--	--	--	--
MW-2	08-31-95	21.33	7.18	14.15	ND	SSW	0.005	08-31-95	5000	280	18	120	140	<50*	--	--	--
MW-2	11-27-95	21.33	7.39	13.94	ND	SSW	0.004	11-27-95	3200	230	12	77	90	--	--	--	--
MW-2	02-22-96	21.33	5.78	15.55	ND	NW	0.007	03-14-96	11000	290	67	190	330	<50*	--	--	--
MW-2	05-20-96	21.33	6.27	15.06	ND	SW	0.007	05-21-96	Not sampled: well sampled annually, during the first quarter								
MW-2	08-26-96	21.33	7.30	14.03	ND	SSW	0.004	08-26-96	Not sampled: well sampled annually, during the first quarter								
MW-2	11-20-96	21.33	7.28	14.05	ND	SSE	0.004	11-20-96	Not sampled: well sampled annually, during the first quarter								

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Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Groundwater Elevation ft-MSL	Floating Product Thickness feet	Groundwater Flow Direction MWN	Hydraulic Gradient ft/ft	Water Sample Field Date	TPHC LUFT Method µg/L	Benzene EPA 8020 µg/L	Toluene EPA 8020 µg/L	Ethylbenzene EPA 8020 µg/L	Total Xylenes EPA 8020 µg/L	MTBE EPA 8020 µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L
MW-3	07-17-90	20.84	7.03	13.81	Sheen	NR	NR	07-18-90	--	--	--	--	--	--	--	<5000	--
MW-3	08-07-90	20.84	7.21	13.63	ND	NR	NR										
MW-3	10-15-90	20.84	^8.19	^12.65	0.75	NR	NR	10-15-90	Not sampled: well contained floating product								
MW-3	11-20-90	20.84	^7.98	^12.85	1.08	NR	NR										
MW-3	12-21-90	20.84	^7.22	^13.62	0.01	NR	NR										
MW-3	01-09-91	20.84	^7.46	^13.38	0.30	NR	NR	01-09-91	Not sampled: well contained floating product								
MW-3	02-27-91	20.84	^7.37	^13.47	0.02	NR	NR										
MW-3	03-20-91	20.84	^^5.79	^^15.05	Sheen	NR	NR										
MW-3	04-16-91	20.84	7.95	12.89	Sheen	NR	NR	04-16-91	Not sampled: well contained floating product								
MW-3	05-16-91	20.84	7.50	13.34	ND	NR	NR										
MW-3	06-10-91	20.11	7.14	12.97	Sheen	NR	NR	06-10-91	Not sampled: well contained floating product								
MW-3	07-18-91	20.11	7.55	12.56	ND	NR	NR										
MW-3	08-22-91	20.11	7.64	12.47	Sheen	NR	NR										
MW-3	09-18-91	20.11	^7.89	^12.22	0.12	NR	NR										
MW-3	10-10-91	20.11	^7.82	^12.29	0.26	NR	NR	10-10-91	Not sampled: well contained floating product								
MW-3	11-21-91	20.11	^7.59	^12.52	0.04	NR	NR										
MW-3	12-24-91	20.11	^8.74	^11.37	0.01	NR	NR										
MW-3	01-19-92	20.11	6.98	13.13	0.01	NR	NR										
MW-3	02-20-92	20.11	5.05	15.06	0.01	NR	NR										
MW-3	03-23-92	20.11	5.75	14.36	Sheen	NR	NR	03-23-92	Not sampled: well contained floating product								
MW-3	04-21-92	20.11	6.55	13.56	ND	NR	NR										
MW-3	05-15-92	20.11	^7.11	^13.00	0.03	NR	NR										
MW-3	06-08-92	20.11	^7.52	^12.59	0.02	NR	NR	06-08-92	Not sampled: well contained floating product								
MW-3	07-15-92	20.11	7.92	12.19	ND	NR	NR										
MW-3	08-25-92	20.11	8.00	12.11	ND	NR	NR										
MW-3	09-15-92	20.11	^8.01	^12.10	0.02	NR	NR	09-15-92	Not sampled: well contained floating product								
MW-3	10-28-92	20.11	8.66	11.45	ND	NR	NR										
MW-3	11-16-92	20.11	7.11	13.00	Sheen	NR	NR	11-16-92	Not sampled: well contained floating product								
MW-3	12-16-92	20.11	6.62	13.49	ND	NR	NR										
MW-3	01-15-93	20.11	4.44	15.67	ND	NR	NR										
MW-3	02-16-93	20.11	^5.93	^14.18	0.01	NR	NR	02-16-93	Not sampled: well contained floating product								
MW-3	03-30-93	20.11	5.48	14.63	ND	NR	NR										

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712 Lewelling Boulevard, San Leandro, California

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Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Groundwater Elevation ft-MSL	Floating Product Thickness feet	Groundwater Flow Direction MWN	Hydraulic Gradient ft/ft	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8020 µg/L	Toluene EPA 8020 µg/L	Ethylbenzene EPA 8020 µg/L	Total Xylenes EPA 8020 µg/L	MTBE EPA 8020 µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L
MW-3	04-28-93	20.11	^6.02	^14.09	0.01	NR	NR										
MW-3	05-13-93	20.11	^6.37	^13.74	0.01	NR	NR	05-13-93	Not sampled: well contained floating product								
MW-3	06-17-93	20.11	^6.52	^13.59	0.01	NR	NR										
MW-3	07-28-93	20.11	6.95	13.16	ND	NR	NR										
MW-3	08-17-93	20.11	^7.00	^13.11	0.01	NR	NR	08-17-93	Not sampled: well contained floating product								
MW-3	11-08-93	20.11	7.31	12.80	ND	NR	NR	11-08-93	430000	4100	14000	6400	37000	--	--	--	--
MW-3	02-14-94	20.11	5.81	14.30	ND	NR	NR	02-14-94	85000	4200	12000	2500	16000	--	--	--	--
MW-3	05-05-94	20.11	6.81	13.30	ND	NR	NR	05-05-94	560000	4600	14000	5300	40000	--	--	--	--
MW-3	08-04-94	20.11	7.31	12.80	ND	SW	0.004	08-04-94	64000	4200	7600	1700	12000	--	--	--	--
MW-3	11-20-94	20.11	5.88	14.23	ND	SW	0.002	11-20-94	80000	4700	9700	2400	15000	--	--	--	--
MW-3	03-17-95	20.11	5.46	14.65	ND	WSW	0.006	03-17-95	370000	4800	12000	5800	34000	--	--	--	--
MW-3	06-01-95	20.11	6.34	13.77	ND	SW	0.003	06-01-95	270000	6000	11000	5200	28000	--	--	--	--
MW-3	08-31-95	20.11	6.60	** 13.52	0.02	SSW	0.005	08-31-95	Not sampled: well contained floating product								
MW-3	11-27-95	20.11	6.76	** 13.36	0.01	SSW	0.004	11-27-95	150000	5100	8800	3900	21000	--	--	--	--
MW-3	02-22-96	20.11	5.14	** 14.98	0.01	NW	0.007	03-14-96	150000	4400	7600	4100	22000	<3000*	--	--	--
MW-3	05-20-96	20.11	5.17	14.94	ND	SW	0.007	05-21-96	410000	4700	8000	6300	36000	<3000*	--	--	--
MW-3	08-26-96	20.11	7.04	13.07	ND	SSW	0.004	08-26-96	260000	4000	6100	4200	24000	<2000*	--	--	--
MW-3	11-20-96	20.11	6.26	13.85	ND	SSE	0.004	11-20-96	190000	3200	5800	3300	20000	<1000*	--	--	--

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Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Groundwater Elevation ft-MSL	Floating Product Thickness feet	Groundwater Flow Direction MWN	Hydraulic Gradient ft/ft	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8020 µg/L	Toluene EPA 8020 µg/L	Ethylbenzene EPA 8020 µg/L	Total Xylenes EPA 8020 µg/L	MTBE EPA 8020 µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L
MW-4	06-10-91	20.75	DRY	DRY	ND	DRY	DRY	06-10-91	Not sampled: dry well								
MW-4	07-18-91	20.75	7.86	12.89	ND	NR	NR										
MW-4	08-22-91	20.75	7.85	12.90	ND	NR	NR										
MW-4	09-18-91	20.75	7.84	12.91	ND	NR	NR										
MW-4	10-10-91	20.75	DRY	DRY	ND	DRY	DRY	10-10-91	15000	5300	1500	470	1300	--	--	--	--
MW-4	11-21-91	20.75	DRY	DRY	ND	DRY	DRY										
MW-4	12-24-91	20.75	DRY	DRY	ND	DRY	DRY										
MW-4	01-19-92	20.75	DRY	DRY	ND	DRY	DRY										
MW-4	02-20-92	20.75	DRY	DRY	ND	DRY	DRY										
MW-4	03-23-92	20.75	DRY	DRY	ND	DRY	DRY	03-23-92	24000	5600	4000	580	3100	--	--	--	--
MW-4	04-21-92	20.75	DRY	DRY	ND	DRY	DRY										
MW-4	05-15-92	20.75	DRY	DRY	ND	DRY	DRY										
MW-4	06-08-92	20.75	DRY	DRY	ND	DRY	DRY	06-08-92	5700	2000	170	92	270	--	--	--	--
MW-4	07-15-92	20.75	DRY	DRY	ND	DRY	DRY										
MW-4	08-25-92	20.75	DRY	DRY	ND	DRY	DRY										
MW-4	09-15-92	20.75	DRY	DRY	ND	DRY	DRY	09-15-92	Not sampled: dry well								
MW-4	10-28-92	20.75	DRY	DRY	ND	DRY	DRY										
MW-4	11-16-92	20.75	DRY	DRY	ND	DRY	DRY	11-16-92	Not sampled: dry well								
MW-4	12-16-92	20.75	DRY	DRY	ND	DRY	DRY										
MW-4	01-15-93	20.75	7.48	13.27	ND	NR	NR										
MW-4	02-16-93	20.75	7.10	13.65	ND	NR	NR	02-16-93	12000	920	1100	130	750	--	--	--	--
MW-4	03-30-93	20.75	7.51	13.24	ND	NR	NR										
MW-4	04-28-93	20.75	7.10	13.65	ND	NR	NR										
MW-4	05-13-93	20.75	7.02	13.73	ND	NR	NR	05-13-93	19000	2900	2800	360	1900	--	--	--	--
MW-4	06-17-93	20.75	7.98	12.77	ND	NR	NR										
MW-4	07-28-93	20.75	7.90	12.85	ND	NR	NR										
MW-4	08-17-93	20.75	7.85	12.90	ND	NR	NR	08-17-93	8100	1600	1300	170	730	--	--	--	--
MW-4	11-08-93	20.75	DRY	DRY	ND	DRY	DRY	11-08-93	2000	540	110	10	240	--	--	--	--
MW-4	02-14-94	20.75	DRY	DRY	ND	DRY	DRY	02-14-94	Not sampled: dry well								
MW-4	05-05-94	20.75	7.73	13.02	ND	NR	NR	05-05-94	1900	510		31	150	--	--	--	--
MW-4	08-04-94	20.75	7.83	12.92	ND	SW	0.004	08-04-94	1300	360	17	<5*	190	--	--	--	--
MW-4	11-20-94	20.75	7.73	13.02	ND	SW	0.002	11-20-94	<50	2.9	0.5	<0.5	1.4	--	--	--	--

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MW-4	03-17-95	20.75	6.65	14.10	ND	WSW	0.006	03-17-95	16000	1800	970	310	2500	--	--	--	--
MW-4	06-01-95	20.75	7.25	13.50	ND	SW	0.003	06-01-95	16000	2800	870	380	2700	--	--	--	--
MW-4	08-31-95	20.75	7.75	13.00	ND	SSW	0.005	08-31-95	9000	2000	270	270	1400	<100*	--	--	--
MW-4	11-27-95	20.75	7.87	12.88	ND	SSW	0.004	11-27-95	3800	890	130	130	550	--	--	--	--
MW-4	02-22-96	20.75	7.29	13.46	ND	NW	0.007	03-14-96	940	150	82	19	130	<20*	--	--	--
MW-4	05-20-96	20.75	7.30	13.45	ND	SW	0.007	05-21-96	6700	1100	330	120	1100	<100*	--	--	--
MW-4	08-26-96	20.75	7.57	13.18	ND	SSW	0.004	08-26-96	14000	2400	510	350	2100	<100*	--	--	--
MW-4	11-20-96	20.75	7.89	12.86	ND	SSE	0.004	11-20-96	420	55	17	11	62	<3	--	--	--

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MW-5	06-10-91	20.90	7.58	13.32	ND	NR	NR	06-10-91	100000	25000	20000	2600	12000	--	--	--	--
MW-5	07-18-91	20.90	7.97	12.93	ND	NR	NR										
MW-5	08-22-91	20.90	8.18	12.72	ND	NR	NR										
MW-5	09-18-91	20.90	8.31	12.59	ND	NR	NR										
MW-5	10-10-91	20.90	8.51	12.39	Sheen	NR	NR	10-10-91	Not sampled: well contained floating product								
MW-5	11-21-91	20.90	8.13	12.77	ND	NR	NR										
MW-5	12-24-91	20.90	8.32	12.58	ND	NR	NR										
MW-5	01-19-92	20.90	7.50	13.40	ND	NR	NR										
MW-5	02-20-92	20.90	5.97	14.93	ND	NR	NR										
MW-5	03-23-92	20.90	6.06	14.84	ND	NR	NR	03-23-92	150000	24000	31000	4400	23000	--	--	--	--
MW-5	04-21-92	20.90	6.90	14.00	ND	NR	NR										
MW-5	05-15-92	20.90	7.32	13.58	ND	NR	NR										
MW-5	06-08-92	20.90	7.66	13.24	ND	NR	NR	06-08-92	120000	17000	13000	2400	11000	--	--	--	--
MW-5	07-15-92	20.90	8.34	12.56	ND	NR	NR										
MW-5	08-25-92	20.90	8.18	12.72	ND	NR	NR										
MW-5	09-15-92	20.90	8.40	12.50	ND	NR	NR	09-15-92	Not sampled: floating product entered the well during purging								
MW-5	10-28-92	20.90	8.83	12.07	ND	NR	NR										
MW-5	11-16-92	20.90	7.70	13.20	ND	NR	NR	11-16-92	110000	16000	16000	3200	18000	--	--	--	--
MW-5	12-16-92	20.90	6.92	13.98	ND	NR	NR										
MW-5	01-15-93	20.90	5.52	15.38	ND	NR	NR										
MW-5	02-16-93	20.90	5.64	15.26	ND	NR	NR	02-16-93	150000	12000	15000	3000	17000	--	--	--	--
MW-5	03-30-93	20.90	5.56	15.34	ND	NR	NR										
MW-5	04-28-93	20.90	6.28	14.62	ND	NR	NR										
MW-5	05-13-93	20.90	6.68	14.22	ND	NR	NR	05-13-93	Not sampled: floating product entered the well during purging								
MW-5	06-17-93	20.90	7.07	13.83	ND	NR	NR										
MW-5	07-28-93	20.90	7.41	13.49	ND	NR	NR										
MW-5	08-17-93	20.90	7.49	13.41	ND	NR	NR	08-17-93	87000	15000	8500	1900	11000	--	--	--	--
MW-5	11-08-93	20.90	7.93	12.97	ND	NR	NR	11-08-93	87000	12000	8300	2000	12000	--	--	--	--
MW-5	02-14-94	20.90	6.49	14.41	ND	NR	NR	02-14-94	46000	7300	5300	940	5200	--	--	--	--
MW-5	05-05-94	20.90	7.18	13.72	ND	NR	NR	05-05-94	54000	9700	4700	1000	6400	--	--	--	--
MW-5	08-04-94	20.90	7.83	13.07	ND	SW	0.004	08-04-94	57000	14000	3200	1200	7200	--	--	--	--
MW-5	11-20-94	20.90	6.34	14.56	ND	SW	0.002	11-20-94	33000	5700	1800	720	4700	--	--	--	--

Historical Groundwater Elevation and Analytical Data

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Date: 04-15-97

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Groundwater Elevation ft-MSL	Floating Product Thickness feet	Groundwater Flow Direction MWN	Hydraulic Gradient ft/ft	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8020 µg/L	Toluene EPA 8020 µg/L	Ethylbenzene EPA 8020 µg/L	Total Xylenes EPA 8020 µg/L	MTBE EPA 8020 µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L
MW-5	03-17-95	20.90	5.51	15.39	ND	WSW	0.006	03-17-95	48000	6400	2000	740	5100	--	--	--	--
MW-5	06-01-95	20.90	6.55	14.35	ND	SW	0.003	06-01-95	76000	11000	5400	1400	7700	--	--	--	--
MW-5	08-31-95	20.90	6.80	14.10	ND	SSW	0.005	08-31-95	53000	12000	1600	1000	6000	<500*	--	--	--
MW-5	11-27-95	20.90	7.13	13.77	ND	SSW	0.004	11-27-95	43000	7900	3300	950	4900	--	--	--	--
MW-5	02-22-96	20.90	5.12	15.78	ND	NW	0.007	03-14-96	52000	9100	3300	940	5000	<500*	--	--	--
MW-5	05-20-96	20.90	5.87	15.03	ND	SW	0.007	05-21-96	55000	9300	3800	1100	5400	<500*	--	--	--
MW-5	08-26-96	20.90	7.15	13.75	ND	SSW	0.004	08-26-96	47000	5300	2100	780	3200	<300*	--	--	--
MW-5	11-20-96	20.90	6.88	14.02	ND	SSE	0.004	11-20-96	53000	8700	5700	920	4400	<500*	--	--	--

Historical Groundwater Elevation and Analytical Data

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Date: 04-15-97

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Groundwater Elevation ft-MSL	Floating Product Thickness feet	Groundwater Flow Direction MWN	Hydraulic Gradient ft/ft	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8020 µg/L	Toluene EPA 8020 µg/L	Ethylbenzene EPA 8020 µg/L	Total Xylenes EPA 8020 µg/L	MTBE EPA 8020 µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L
MW-6	06-10-91	22.08	DRY	DRY	ND	DRY	DRY	06-10-91	Not sampled: dry well								
MW-6	07-18-91	22.08	DRY	DRY	ND	DRY	DRY										
MW-6	08-22-91	22.08	DRY	DRY	ND	DRY	DRY										
MW-6	09-18-91	22.08	DRY	DRY	ND	DRY	DRY										
MW-6	10-10-91	22.08	DRY	DRY	ND	DRY	DRY	10-10-91	Not sampled: dry well								
MW-6	11-21-91	22.08	DRY	DRY	ND	DRY	DRY										
MW-6	12-24-91	22.08	DRY	DRY	ND	DRY	DRY										
MW-6	01-19-92	22.08	DRY	DRY	ND	DRY	DRY										
MW-6	02-20-92	22.08	7.28	14.80	ND	NR	NR										
MW-6	03-23-92	22.08	7.45	14.63	ND	NR	NR	03-23-92	75000	19000	10000	1600	8600	--	--	--	--
MW-6	04-21-92	22.08	7.74	14.34	ND	NR	NR										
MW-6	05-15-92	22.08	DRY	DRY	ND	DRY	DRY										
MW-6	06-08-92	22.08	DRY	DRY	ND	DRY	DRY	06-08-92	Not sampled: dry well								
MW-6	07-15-92	22.08	DRY	DRY	ND	DRY	DRY										
MW-6	08-25-92	22.08	DRY	DRY	ND	DRY	DRY										
MW-6	09-15-92	22.08	DRY	DRY	ND	DRY	DRY	09-15-92	Not sampled: dry well								
MW-6	10-28-92	22.08	DRY	DRY	ND	DRY	DRY										
MW-6	11-16-92	22.08	DRY	DRY	ND	DRY	DRY	11-16-92	Not sampled: dry well								
MW-6	12-16-92	22.08	DRY	DRY	ND	DRY	DRY										
MW-6	01-15-93	22.08	7.22	14.86	ND	NR	NR										
MW-6	02-16-93	22.08	6.79	15.29	ND	NR	NR	02-16-93	65000	14000	3500	1300	6100	--	--	--	--
MW-6	03-30-93	22.08	6.68	15.40	ND	NR	NR										
MW-6	04-28-93	22.08	7.28	14.80	ND	NR	NR										
MW-6	05-13-93	22.08	7.73	14.35	ND	NR	NR	05-13-93	36000	8200	870	1000	5200	--	--	--	--
MW-6	06-17-93	22.08	8.15	13.93	ND	NR	NR										
MW-6	07-28-93	22.08	DRY	DRY	ND	DRY	DRY										
MW-6	08-17-93	22.08	DRY	DRY	ND	DRY	DRY	08-17-93	Not sampled: dry well								
MW-6	11-08-93	22.08	DRY	DRY	ND	DRY	DRY	11-08-93	Not sampled: dry well								
MW-6	02-14-94	22.08	7.78	14.30	ND	NR	NR	02-14-94	47000	14000	390	1000	5100	--	--	--	--
MW-6	05-05-94	22.08	8.24	13.84	ND	NR	NR	05-05-94	45000	14000	<200*	1300	4500	--	--	--	--
MW-6	08-04-94	22.08	DRY	DRY	ND	DRY	DRY	08-04-94	Not sampled: dry well								
MW-6	11-20-94	22.08	7.41	14.67	ND	SW	0.002	11-20-94	30000	11000	<100*	1200	2300	--	--	--	--

Historical Groundwater Elevation and Analytical Data

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Date: 04-15-97

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Groundwater Elevation ft-MSL	Floating Product Thickness feet	Groundwater Flow Direction MWN	Hydraulic Gradient ft/ft	Water Sample Field Date	TPHC LUFT Method µg/L	Benzene EPA 8020 µg/L	Toluene EPA 8020 µg/L	Ethylbenzene EPA 8020 µg/L	Total Xylenes EPA 8020 µg/L	MTBE EPA 8020 µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L
MW-6	03-17-95	22.08	6.66	15.42	ND	WSW	0.006	03-17-95	45000	9300	<100*	1900	3600	--	--	--	--
MW-6	06-01-95	22.08	7.60	14.48	ND	SW	0.003	06-01-95	23000	5600	<50*	1300	1900	--	--	--	--
MW-6	08-31-95	22.08	7.92	14.16	ND	SSW	0.005	08-31-95	26000	8000	<100*	1900	900	<500*	--	--	--
MW-6	11-27-95	22.08	8.21	13.87	ND	SSW	0.004	11-27-95	6700	1800	<20*	480	230	--	--	--	--
MW-6	02-22-96	22.08	6.21	15.87	ND	NW	0.007	03-14-96	17000	3100	69	810	1500	<300*	--	--	--
MW-6	05-20-96	22.08	7.07	15.01	ND	SW	0.007	05-21-96	16000	3700	<50*	1100	1100	<300*	--	--	--
MW-6	08-26-96	22.08	7.93	14.15	ND	SSW	0.004	08-26-96	23000	5800	<50*	2000	560	<300*	--	--	--
MW-6	11-20-96	22.08	8.02	14.06	ND	SSE	0.004	11-20-96	11000	3300	<50*	480	370	<300*	--	--	--

Historical Groundwater Elevation and Analytical Data

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Date: 04-15-97

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Groundwater Elevation ft-MSL	Floating Product Thickness feet	Groundwater Flow Direction MWN	Hydraulic Gradient ft/ft	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8020 µg/L	Toluene EPA 8020 µg/L	Ethylbenzene EPA 8020 µg/L	Total Xylenes EPA 8020 µg/L	MTBE EPA 8020 µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L
MW-7	06-10-91	22.89	DRY	DRY	ND	DRY	DRY	06-10-91	Not sampled: dry well								
MW-7	07-18-91	22.89	DRY	DRY	ND	DRY	DRY										
MW-7	08-22-91	22.89	DRY	DRY	ND	DRY	DRY										
MW-7	09-18-91	22.89	DRY	DRY	ND	DRY	DRY										
MW-7	10-10-91	22.89	DRY	DRY	ND	DRY	DRY	10-10-91	Not sampled: dry well								
MW-7	11-21-91	22.89	DRY	DRY	ND	DRY	DRY										
MW-7	12-24-91	22.89	DRY	DRY	ND	DRY	DRY										
MW-7	01-19-92	22.89	DRY	DRY	ND	DRY	DRY										
MW-7	02-20-92	22.89	8.74	14.15	ND	NR	NR										
MW-7	03-23-92	22.89	8.20	14.69	ND	NR	NR	03-23-92	270	10	0.5	3	13	--	--	--	--
MW-7	04-21-92	22.89	8.86	14.03	ND	NR	NR										
MW-7	05-15-92	22.89	DRY	DRY	ND	DRY	DRY										
MW-7	06-08-92	22.89	DRY	DRY	ND	DRY	DRY	06-08-92	Not sampled: dry well								
MW-7	07-15-92	22.89	DRY	DRY	ND	DRY	DRY										
MW-7	08-25-92	22.89	DRY	DRY	ND	DRY	DRY										
MW-7	09-15-92	22.89	DRY	DRY	ND	DRY	DRY	09-15-92	Not sampled: dry well								
MW-7	10-28-92	22.89	^^10.38	12.51	ND	NR	NR										
MW-7	11-16-92	22.89	DRY	DRY	ND	DRY	DRY	11-16-92	Not sampled: dry well								
MW-7	12-16-92	22.89	DRY	DRY	ND	DRY	DRY										
MW-7	01-15-93	22.89	8.37	14.52	ND	NR	NR										
MW-7	02-16-93	22.89	7.84	15.05	ND	NR	NR	02-16-93	120	3.6	<0.5	<0.5	1.2	--	--	--	--
MW-7	03-30-93	22.89	8.03	14.86	ND	NR	NR										
MW-7	04-28-93	22.89	8.33	14.56	ND	NR	NR										
MW-7	05-13-93	22.89	8.56	14.33	ND	NR	NR	05-13-93	<50	0.8	<0.5	<0.5	<0.5	--	--	--	--
MW-7	06-17-93	22.89	9.30	13.59	ND	NR	NR										
MW-7	07-28-93	22.89	DRY	DRY	ND	DRY	DRY										
MW-7	08-17-93	22.89	DRY	DRY	ND	DRY	DRY	08-17-93	Not sampled: dry well								
MW-7	11-08-93	22.89	DRY	DRY	ND	DRY	DRY	11-08-93	Not sampled: dry well								
MW-7	02-14-94	22.89	8.80	14.09	ND	NR	NR	02-14-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-7	05-05-94	22.89	9.11	13.78	ND	NR	NR	05-05-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-7	08-04-94	22.89	DRY	DRY	ND	DRY	DRY	08-04-94	Not sampled: dry well								
MW-7	11-20-94	22.89	8.72	14.17	ND	SW	0.002	11-20-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--

Historical Groundwater Elevation and Analytical Data

ARCO Service Station 601
712 Lewelling Boulevard, San Leandro, California

Date: 04-15-97

Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Groundwater Elevation ft-MSL	Floating Product Thickness feet	Groundwater Flow Direction MWN	Hydraulic Gradient ft/ft	Water Sample Field Date	TPHC LUFT Method µg/L	Benzene EPA 8020 µg/L	Toluene EPA 8020 µg/L	Ethylbenzene EPA 8020 µg/L	Total Xylenes EPA 8020 µg/L	MTBE EPA 8020 µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.J µg/L	TPHD LUFT Method µg/L
MW-7	03-17-95	22.89	7.68	15.21	ND	WSW	0.006	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-7	06-01-95	22.89	8.40	14.49	ND	SW	0.003	06-01-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-7	08-31-95	22.89	9.09	13.80	ND	SSW	0.005	08-31-95	<50	<0.5	<0.5	0.6	<0.5	<3	--	--	--
MW-7	11-27-95	22.89	9.15	13.74	ND	SSW	0.004	11-27-95	<50	<0.5	<0.5	0.9	<0.5	--	--	--	--
MW-7	02-22-96	22.89	7.44	15.45	ND	NW	0.007	03-14-96	110	1.4	<0.5	3.8	3	<3	--	--	--
MW-7	05-20-96	22.89	8.47	14.42	ND	SW	0.007	05-21-96	Not sampled: well sampled annually, during the first quarter								
MW-7	08-26-96	22.89	8.81	14.08	ND	SSW	0.004	08-26-96	Not sampled: well sampled annually, during the first quarter								
MW-7	11-20-96	22.89	9.17	13.72	ND	SSE	0.004	11-20-96	Not sampled: well sampled annually, during the first quarter								

Historical Groundwater Elevation and Analytical Data

ARCO Service Station 601
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Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Groundwater Elevation ft-MSL	Floating Product Thickness feet	Groundwater Flow Direction MWN	Hydraulic Gradient ft/ft	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8020 µg/L	Toluene EPA 8020 µg/L	Ethylbenzene EPA 8020 µg/L	Total Xylenes EPA 8020 µg/L	MTBE EPA 8020 µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L
MW-8	06-10-91	20.97	7.80	13.17	ND	NR	NR	06-10-91	5800	73	7.2	150	21	--	--	<5000	--
MW-8	07-18-91	20.97	8.36	12.61	ND	NR	NR										
MW-8	08-22-91	20.97	8.53	12.44	ND	NR	NR										
MW-8	09-18-91	20.97	8.68	12.29	ND	NR	NR										
MW-8	10-10-91	20.97	8.87	12.10	ND	NR	NR	10-10-91	2800	31	6.1	4.5	3.9	--	--	--	--
MW-8	11-21-91	20.97	8.43	12.54	ND	NR	NR										
MW-8	12-24-91	20.97	8.68	12.29	ND	NR	NR										
MW-8	01-19-92	20.97	7.73	13.24	ND	NR	NR										
MW-8	02-20-92	20.97	5.57	15.40	ND	NR	NR										
MW-8	03-23-92	20.97	5.81	15.16	ND	NR	NR	03-23-92	8000	18	<5.0*	320	42	--	--	--	--
MW-8	04-21-92	20.97	7.05	13.92	ND	NR	NR										
MW-8	05-15-92	20.97	7.79	13.18	ND	NR	NR										
MW-8	06-08-92	20.97	8.01	12.96	ND	NR	NR	06-08-92	4000	<10*	<10*	110	<10*	--	--	--	--
MW-8	07-15-92	20.97	8.46	12.51	ND	NR	NR										
MW-8	08-25-92	20.97	8.64	12.33	ND	NR	NR										
MW-8	09-15-92	20.97	8.80	12.17	ND	NR	NR	09-15-92	4200	6.4	<5*	120	<5*	--	--	--	460^
MW-8	10-28-92	20.97	8.80	12.17	ND	NR	NR										
MW-8	11-16-92	20.97	8.19	12.78	ND	NR	NR	11-16-92	2600	4	<2.5*	21	5.2	--	--	1200	1100^
MW-8	12-16-92	20.97	6.66	14.31	ND	NR	NR										
MW-8	01-15-93	20.97	5.18	15.79	ND	NR	NR										
MW-8	02-16-93	20.97	5.84	15.13	ND	NR	NR	02-16-93	8700	<5*	<5*	200	<5*	--	--	150000	5300^
MW-8	03-30-93	20.97	4.98	15.99	ND	NR	NR										
MW-8	04-28-93	20.97	6.17	14.80	ND	NR	NR										
MW-8	05-13-93	20.97	6.93	14.04	ND	NR	NR	05-13-93	2300	<5*	<5*	42	<5*	--	--	2000	2300^
MW-8	06-17-93	20.97	7.36	13.61	ND	NR	NR										
MW-8	07-28-93	20.97	7.80	13.17	ND	NR	NR										
MW-8	08-17-93	20.97	7.87	13.10	ND	NR	NR	08-17-93	1700	1.8	<1.3*	16	1.2	--	--	1200	1000^
MW-8	11-08-93	20.97	8.31	12.66	ND	NR	NR	11-08-93	1200	2.4	<1*	19	2.3	--	--	4200	<1000
MW-8	02-14-94	20.97	7.00	13.97	ND	NR	NR	02-14-94	3600	3	<1*	72	<1*	--	--	2000	3900^
MW-8	05-05-94	20.97	7.46	13.51	ND	NR	NR	05-05-94	2100	<2.5*	<2.5*	8.3	<2.5*	--	--	700	440^
MW-8	08-04-94	20.97	8.17	12.80	ND	SW	0.004	08-04-94	1200	1.5	<1*	6.7	<1*	--	--	700	<50
MW-8	11-20-94	20.97	6.78	14.19	ND	SW	0.002	11-20-94	2300	1.2	1.1	20	2.2	--	--	<500	2100^

Historical Groundwater Elevation and Analytical Data

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MW-8	03-17-95	20.97	6.14	14.83	ND	WSW	0.006	03-17-95	5400	<5*	<5*	35	<5*	--	--	--	--
MW-8	06-01-95	20.97	6.50	14.47	ND	SW	0.003	06-01-95	2600	<2.5*	<2.5*	15	<2.5*	--	--	--	--
MW-8	08-31-95	20.97	7.35	13.62	ND	SSW	0.005	08-31-95	1400	<3*	<3*	5	<3*	520	--	900	--
MW-8	11-27-95	20.97	7.60	13.37	ND	SSW	0.004	11-27-95	620	<0.5	<0.5	<0.5	0.5	--	560	900	510^
MW-8	02-22-96	20.97	5.35	15.62	ND	NW	0.007	03-14-96	5800	<5*	<5*	28	<5*	110	--	1900	6800^
MW-8	05-20-96	20.97	5.92	15.05	ND	SW	0.007	05-21-96	6100	<5*	<5*	26	<5*	240	--	--	--
MW-8	08-26-96	20.97	7.08	13.89	ND	SSW	0.004	08-26-96	970	<1*	<1*	3	<1*	710	--	--	--
MW-8	11-20-96	20.97	7.01	13.96	ND	SSE	0.004	11-20-96	3900	<2.5*	<2.5*	12	<2.5*	930	--	--	--

Historical Groundwater Elevation and Analytical Data

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MW-9	06-11-93	20.89	8.15	12.74	ND	NR	NR	06-11-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-9	07-28-93	20.89	8.49	12.40	ND	NR	NR										
MW-9	08-17-93	20.89	8.53	12.36	ND	NR	NR	08-17-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-9	11-08-93	20.89	8.87	12.02	ND	NR	NR	11-08-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-9	02-14-94	20.89	7.47	13.42	ND	NR	NR	02-14-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-9	05-05-94	20.89	8.04	12.85	ND	NR	NR	05-05-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-9	08-04-94	20.89	8.78	12.11	ND	SW	0.004	08-04-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-9	11-20-94	20.89	6.83	14.06	ND	SW	0.002	11-20-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-9	03-17-95	20.89	6.94	13.95	ND	WSW	0.006	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-9	06-01-95	20.89	8.15	12.74	ND	SW	0.003	06-01-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-9	08-31-95	20.89	8.10	12.79	ND	SSW	0.005	08-31-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
MW-9	11-27-95	20.89	8.38	12.51	ND	SSW	0.004	11-27-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-9	02-22-96	20.89	7.36	13.53	ND	NW	0.007	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
MW-9	05-20-96	20.89	7.81	13.08	ND	SW	0.007	05-21-96	Not sampled; well sampled semi-annually, during the first and third quarters								
MW-9	08-26-96	20.89	8.00	12.89	ND	SSW	0.004	08-26-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
MW-9	11-20-96	20.89	7.06	13.83	ND	SSE	0.004	11-20-96	Not sampled; well sampled semi-annually, during the first and third quarters								

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Well Designation	Water Level Field Date	Top of Casing Elevation ft-MSL	Depth to Water feet	Groundwater Elevation ft-MSL	Floating Product Thickness feet	Groundwater Flow Direction MWN	Hydraulic Gradient ft/ft	Water Sample Field Date	TPHG LUFT Method µg/L	Benzene EPA 8020 µg/L	Toluene EPA 8020 µg/L	Ethylbenzene EPA 8020 µg/L	Total Xylenes EPA 8020 µg/L	MTBE EPA 8020 µg/L	MTBE EPA 8240 µg/L	TRPH EPA 418.1 µg/L	TPHD LUFT Method µg/L
MW-10	06-11-93	21.12	8.14	12.98	ND	NR	NR	06-11-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-10	07-28-93	21.12	8.43	12.69	ND	NR	NR										
MW-10	08-17-93	21.12	8.54	12.58	ND	NR	NR	08-17-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-10	11-08-93	21.12	8.70	12.42	ND	NR	NR	11-08-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-10	02-14-94	21.12	7.13	13.99	ND	NR	NR	02-14-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-10	05-05-94	21.12	8.08	13.04	ND	NR	NR	05-05-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-10	08-04-94	21.12	8.84	12.28	ND	SW	0.004	08-04-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-10	11-20-94	21.12	7.05	14.07	ND	SW	0.002	11-20-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-10	03-17-95	21.12	6.26	14.86	ND	WSW	0.006	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-10	06-01-95	21.12	7.63	13.49	ND	SW	0.003	06-01-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-10	08-31-95	21.12	8.17	12.95	ND	SSW	0.005	08-31-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
MW-10	11-27-95	21.12	8.38	12.74	ND	SSW	0.004	11-27-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-10	02-22-96	21.12	5.41	15.71	ND	NW	0.007	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
MW-10	05-20-96	21.12	6.78	14.34	ND	SW	0.007	05-21-96	Not sampled; well sampled semi-annually, during the first and third quarters								
MW-10	08-26-96	21.12	8.00	13.12	ND	SSW	0.004	08-26-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
MW-10	11-20-96	21.12	7.81	13.31	ND	SSE	0.004	11-20-96	Not sampled; well sampled semi-annually, during the first and third quarters								

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MW-11	11-16-92	22.38	9.02	13.36	ND	NR	NR	11-16-92	7000	21	<10*	18	230	--	--	--	--
MW-11	12-16-92	22.38	8.48	13.90	ND	NR	NR										
MW-11	01-15-93	22.38	7.14	15.24	ND	NR	NR										
MW-11	02-16-93	22.38	7.11	15.27	ND	NR	NR	02-16-93	2200	<10*	<10*	11	<10*	--	--	--	--
MW-11	03-30-93	22.38	7.01	15.37	ND	NR	NR										
MW-11	04-28-93	22.38	7.62	14.76	ND	NR	NR										
MW-11	05-13-93	22.38	8.04	14.34	ND	NR	NR	05-13-93	1600	<2.5*	<2.5*	41	6.8	--	--	--	--
MW-11	06-17-93	22.38	8.44	13.94	ND	NR	NR										
MW-11	07-28-93	22.38	8.80	13.58	ND	NR	NR										
MW-11	08-17-93	22.38	8.78	13.60	ND	NR	NR	08-17-93	830	1.4	<1.0*	25	15	--	--	--	--
MW-11	11-08-93	22.38	9.23	13.15	ND	NR	NR	11-08-93	370	<1.0*	<1.0*	2.5	2.1	--	--	--	--
MW-11	02-14-94	22.38	7.94	14.44	ND	NR	NR	02-14-94	650	<1*	<1*	2	4	--	--	--	--
MW-11	05-05-94	22.38	8.55	13.83	ND	NR	NR	05-05-94	210	<0.5	<0.5	2.5	0.6	--	--	--	--
MW-11	08-04-94	22.38	9.13	13.25	ND	SW	0.004	08-04-94	390	<0.5	<0.7*	1.9	2.2	--	--	--	--
MW-11	11-20-94	22.38	7.73	14.65	ND	SW	0.002	11-20-94	1300	1.3	0.5	1.5	21	--	--	--	--
MW-11	03-17-95	22.38	6.94	15.44	ND	WSW	0.006	03-17-95	100	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-11	06-01-95	22.38	7.90	14.48	ND	SW	0.003	06-01-95	210	<0.5	<0.5	0.9	0.7	--	--	--	--
MW-11	08-31-95	22.38	8.18	14.20	ND	SSW	0.005	08-31-95	680	<0.5	<0.5	4	1.8	<3	--	--	--
MW-11	11-27-95	22.38	8.48	13.90	ND	SSW	0.004	11-27-95	340	<0.5	<0.5	2.2	1.6	--	--	--	--
MW-11	02-22-96	22.38	6.63	15.75	ND	NW	0.007	03-14-96	150	<0.5	<0.5	<0.8*	0.8	<3	--	--	--
MW-11	05-20-96	22.38	7.25	15.13	ND	SW	0.007	05-21-96	Not sampled: well sampled annually, during the first quarter								
MW-11	08-26-96	22.38	8.22	14.16	ND	SSW	0.004	08-26-96	Not sampled: well sampled annually, during the first quarter								
MW-11	11-20-96	22.38	8.37	14.01	ND	SSE	0.004	11-20-96	Not sampled: well sampled annually, during the first quarter								

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		ft-MSL	feet	ft-MSL	feet	MWN			ft/ft								µg/L
MW-12	11-16-92	22.77	9.65	13.12	ND	NR	NR	11-16-92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-12	12-16-92	22.77	8.71	14.06	ND	NR	NR										
MW-12	01-15-93	22.77	7.19	15.58	ND	NR	NR										
MW-12	02-16-93	22.77	7.88	14.89	ND	NR	NR	02-16-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-12	03-30-93	22.77	7.43	15.34	ND	NR	NR										
MW-12	04-28-93	22.77	8.22	14.55	ND	NR	NR										
MW-12	05-13-93	22.77	8.63	14.14	ND	NR	NR	05-13-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-12	06-17-93	22.77	8.98	13.79	ND	NR	NR										
MW-12	07-28-93	22.77	9.32	13.45	ND	NR	NR										
MW-12	08-17-93	22.77	9.30	13.47	ND	NR	NR	08-17-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-12	11-08-93	22.77	9.72	13.05	ND	NR	NR	11-08-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-12	02-14-94	22.77	8.24	14.53	ND	NR	NR	02-14-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-12	05-05-94	22.77	8.97	13.80	ND	NR	NR	05-05-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-12	08-04-94	22.77	9.57	13.20	ND	SW	0.004	08-04-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-12	11-20-94	22.77	8.06	14.71	ND	SW	0.002	11-20-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-12	03-17-95	22.77	7.09	15.68	ND	WSW	0.006	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-12	06-01-95	22.77	8.40	14.37	ND	SW	0.003	06-01-95	Not sampled; well sampled semi-annually, during the first and third quarters								
MW-12	08-31-95	22.77	8.55	14.22	ND	SSW	0.005	08-31-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
MW-12	11-27-95	22.77	8.95	13.82	ND	SSW	0.004	11-27-95	Not sampled; well sampled semi-annually, during the first and third quarters								
MW-12	02-22-96	22.77	6.81	15.96	ND	NW	0.007	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
MW-12	05-20-96	22.77	7.56	15.21	ND	SW	0.007	05-21-96	Not sampled; well sampled annually, during the first quarter								
MW-12	08-26-96	22.77	8.63	14.14	ND	SSW	0.004	08-26-96	Not sampled; well sampled annually, during the first quarter								
MW-12	11-20-96	22.77	8.38	14.39	ND	SSE	0.004	11-20-96	Not sampled; well sampled annually, during the first quarter								

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MW-13	11-16-92	22.45	9.02	13.43	ND	NR	NR	11-16-92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-13	12-16-92	22.45	8.23	14.22	ND	NR	NR										
MW-13	01-15-93	22.45	6.89	15.56	ND	NR	NR										
MW-13	02-16-93	22.45	7.14	15.31	ND	NR	NR	02-16-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-13	03-30-93	22.45	7.01	15.44	ND	NR	NR										
MW-13	04-28-93	22.45	7.57	14.88	ND	NR	NR										
MW-13	05-13-93	22.45	7.95	14.50	ND	NR	NR	05-13-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-13	06-17-93	22.45	8.32	14.13	ND	NR	NR										
MW-13	07-28-93	22.45	8.59	13.86	ND	NR	NR										
MW-13	08-17-93	22.45	8.57	13.88	ND	NR	NR	08-17-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-13	11-08-93	22.45	8.86	13.59	ND	NR	NR	11-08-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-13	02-14-94	22.45	7.78	14.67	ND	NR	NR	02-14-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-13	05-05-94	22.45	8.38	14.07	ND	NR	NR	05-05-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-13	08-04-94	22.45	8.78	13.67	ND	SW	0.004	08-04-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-13	11-20-94	22.45	7.68	14.77	ND	SW	0.002	11-20-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-13	03-17-95	22.45	6.91	15.54	ND	WSW	0.006	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-13	06-01-95	22.45	7.72	14.73	ND	SW	0.003	06-01-95	Not sampled; well sampled annually, during the first quarter								
MW-13	08-31-95	22.45	7.58	14.87	ND	SSW	0.005	08-31-95	Not sampled; well sampled annually, during the first quarter								
MW-13	11-27-95	22.45	7.98	14.47	ND	SSW	0.004	11-27-95	Not sampled; well sampled annually, during the first quarter								
MW-13	02-22-96	22.45	6.71	15.74	ND	NW	0.007	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
MW-13	05-20-96	22.45	6.98	15.47	ND	SW	0.007	05-21-96	Not sampled; well sampled annually, during the first quarter								
MW-13	08-26-96	22.45	7.85	14.60	ND	SSW	0.004	08-26-96	Not sampled; well sampled annually, during the first quarter								
MW-13	11-20-96	22.45	7.76	14.69	ND	SSE	0.004	11-20-96	Not sampled; well sampled annually, during the first quarter								

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MW-14	09-15-92	22.99	10.66	12.33	ND	NR	NR	09-15-92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-14	10-28-92	22.99	10.91	12.08	ND	NR	NR										
MW-14	11-16-92	22.99	10.33	12.66	ND	NR	NR	11-16-92	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-14	12-16-92	22.99	9.20	13.79	ND	NR	NR										
MW-14	01-15-93	22.99	7.06	15.93	ND	NR	NR										
MW-14	02-16-93	22.99	8.18	14.81	ND	NR	NR	02-16-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-14	03-30-93	22.99	7.97	15.02	ND	NR	NR										
MW-14	04-28-93	22.99	8.63	14.36	ND	NR	NR										
MW-14	05-13-93	22.99	9.05	13.94	ND	NR	NR	05-13-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-14	06-17-93	22.99	9.55	13.44	ND	NR	NR										
MW-14	07-28-93	22.99	9.89	13.10	ND	NR	NR										
MW-14	08-17-93	22.99	9.90	13.09	ND	NR	NR	08-17-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-14	11-08-93	22.99	10.25	12.74	ND	NR	NR	11-08-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-14	02-14-94	22.99	8.80	14.19	ND	NR	NR	02-14-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-14	05-05-94	22.99	9.49	13.50	ND	NR	NR	05-05-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-14	08-04-94	22.99	10.11	12.88	ND	SW	0.004	08-04-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-14	11-20-94	22.99	8.66	14.33	ND	SW	0.002	11-20-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-14	03-17-95	22.99	8.17	14.82	ND	WSW	0.006	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
MW-14	06-01-95	22.99	8.57	14.42	ND	SW	0.003	06-01-95	Not sampled: well sampled annually, during the first quarter								
MW-14	08-31-95	22.99	9.05	13.94	ND	SSW	0.005	08-31-95	Not sampled: well sampled annually, during the first quarter								
MW-14	11-27-95	22.99	9.19	13.80	ND	SSW	0.004	11-27-95	Not sampled: well sampled annually, during the first quarter								
MW-14	02-22-96	22.99	6.52	16.47	ND	NW	0.007	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
MW-14	05-20-96	22.99	7.88	15.11	ND	SW	0.007	05-21-96	Not sampled: well sampled annually, during the first quarter								
MW-14	08-26-96	22.99	8.83	14.16	ND	SSW	0.004	08-26-96	Not sampled: well sampled annually, during the first quarter								
MW-14	11-20-96	22.99	8.95	14.04	ND	SSE	0.004	11-20-96	Not sampled: well sampled annually, during the first quarter								

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		ft-MSL	feet	ft-MSL	feet	MWN	ft/ft		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L		
MW-15	04-28-93	19.19	5.51	13.68	ND	NR	NR												
MW-15	05-13-93	19.19	5.91	13.28	ND	NR	NR	05-13-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-15	06-17-93	19.19	6.18	13.01	ND	NR	NR												
MW-15	07-28-93	19.19	6.45	12.74	ND	NR	NR												
MW-15	08-17-93	19.19	6.54	12.65	ND	NR	NR	08-17-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-15	11-08-93	19.19	6.98	12.21	ND	NR	NR	11-08-93	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-15	02-14-94	19.19	5.44	13.75	ND	NR	NR	02-14-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-15	05-05-94	19.19	6.18	13.01	ND	NR	NR	05-05-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-15	08-04-94	19.19	6.84	12.35	ND	SW	0.004	08-04-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-15	11-20-94	19.19	5.31	13.88	ND	SW	0.002	11-20-94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-15	03-17-95	19.19	5.21	13.98	ND	WSW	0.006	03-17-95	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--		
MW-15	06-01-95	19.19	5.84	13.35	ND	SW	0.003	06-01-95	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-15	08-31-95	19.19	6.18	13.01	ND	SSW	0.005	08-31-95	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--		
MW-15	11-27-95	19.19	6.42	12.77	ND	SSW	0.004	11-27-95	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-15	02-22-96	19.19	4.84	14.35	ND	NW	0.007	03-14-96	<50	<0.5	<0.5	<0.5	<0.5	12	--	--	--		
MW-15	05-20-96	19.19	5.31	13.88	ND	SW	0.007	05-21-96	Not sampled: well sampled semi-annually, during the first and third quarters										
MW-15	08-26-96	19.19	6.05	13.14	ND	SSW	0.004	08-26-96	<50	<0.5	<0.5	<0.5	<0.5	8	--	--	--		
MW-15	11-20-96	19.19	5.46	13.73	ND	SSE	0.004	11-20-96	Not sampled: well sampled semi-annually, during the first and third quarters										

Historical Groundwater Elevation and Analytical Data

ARCO Service Station 601
712 Leelling Boulevard, San Leandro, California

Date: 04-15-97

Well Designation	Water Level Field Date	Top of Casing Elevation	Depth to Water	Groundwater Elevation	Floating Product Thickness	Groundwater Flow Direction	Hydraulic Gradient	Water Sample Field Date	TPHG LUFT Method	Benzene EPA 8020	Toluene EPA 8020	Ethylbenzene EPA 8020	Total Xylenes EPA 8020	MTBE EPA 8020	MTBE EPA 8240	TRPH EPA 418.1	TPHD LUFT Method
		ft-MSL	feet	ft-MSL	feet	MWN	ft/ft		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

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

MWN: ground-water flow direction and gradient apply to the entire monitoring well network

ft/ft: foot per foot

TPHG: total petroleum hydrocarbons as gasoline, California DHS LUFT Method

µg/L: micrograms per liter

EPA: United States Environmental Protection Agency

MTBE: Methyl-tert-butyl ether

TRPH: total recoverable petroleum hydrocarbons

TPHD: total petroleum hydrocarbons as diesel, California DHS LUFT Method

NR: not reported; data not available or not measurable

ND: none detected

SW: southwest

WSW: west-southwest

SSW: south-southwest

SSE: south-southeast

NW: northwest

DRY: dry well; groundwater was not detected

- - : not analyzed

^: chromatogram fingerprint is not characteristic of diesel

*: method reporting limit was raised due to: (1) high analyte concentration requiring sample dilution, or (2) matrix interference

**: [corrected elevation (Z)] = Z + (h * 0.73) where: Z = measured elevation, h = floating product thickness, 0.73 = density ratio of oil to water

TABLE 3
APPROXIMATE CUMULATIVE PRODUCT RECOVERED
ARCO Station 601
712 Lewelling Boulevard
San Leandro, California

Year	Floating Product Recovered (gallons)
1991	TOTAL: 3.43
1992	TOTAL: 0.02
1993	TOTAL: 0
1991 + 1992 + 1993	TOTAL: 3.45

* = No product removed as the storage drum for product had been removed from the site.
(0.01) = 0.01 feet of product present

See notes on page 15 of 15

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