

Atlantic Richfield Company

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RECEIVED

10:06 am, Nov 22, 2010

Alameda County
Environmental Health

November 19, 2010

Re: Work Plan for Additional Soil and Groundwater Investigation
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,



Chuck Carmel
Environmental Business Manager

Attachment

**Work Plan for Additional Soil and
Groundwater Investigation**
ARCO Service Station No. 601
712 Lewelling Boulevard
San Leandro, Alameda County, California
ACEH Case #RO0000309

Prepared for:

Mr. Chuck Carmel
Project Manager
Atlantic Richfield Company
P.O. Box 1257
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Prepared by:

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November 19, 2010

Project No. 06-88-605

November 19, 2010

Project No. 06-88-605

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

Attn.: Mr. Chuck Carmel

Re: Work Plan for Additional Soil and Groundwater Investigation, ARCO Service Station #601,
712 Lewelling Blvd., San Leandro, California; ACEH Case #RO0000309

Dear Mr. Carmel:

Broadbent & Associates, Inc. (BAI) is pleased to submit this *Work Plan for Additional Soil and Groundwater Investigation* (Work Plan) on behalf of Atlantic Richfield Company (ARC) – a BP affiliated company, for ARCO Service Station No. 601 located at 712 Lewelling Boulevard in San Leandro, California (Site). This Work Plan presents a description of proposed activities to further define the extent of residual soil and groundwater contamination prior to conducting Site feasibility study pilot testing.

Please do not hesitate to contact us at (707) 455-7290 if you should have questions or require additional information.

Sincerely,
BROADBENT & ASSOCIATES, INC.


Thomas A. Sparrowe, P.G.
Senior Geologist



cc: Mr. Paresh Khatri, Alameda County Environmental Health (Submitted via ACEH ftp site)
Mr. Karl Busche, City of San Leandro (Submitted via GeoTracker)
Electronic copy uploaded to GeoTracker

**WORK PLAN FOR ADDITIONAL SOIL AND
GROUNDWATER INVESTIGATION**

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

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WORK PLAN FOR ADDITIONAL SOIL AND GROUNDWATER INVESTIGATION

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

1.0 INTRODUCTION

Broadbent & Associates, Inc. (BAI) has prepared this Work Plan for Additional Soil and Groundwater Investigation (Work Plan) on behalf of the Atlantic Richfield Company (ARC) – a BP affiliated company, for ARCO Service Station No. 601 located at 712 Lewelling Boulevard in San Leandro, Alameda County, California (Site).

On October 19, 2009 BP submitted a *Feasibility Study Report* to Alameda County Environmental Health (ACEH) where six remediation alternatives were evaluated and it was determined that Dual-Phase Extraction (DPE) and Enhanced Bioremediation (Bioremediation) may appear to be the most cost-effective remedial alternatives. However, prior to initiating the DPE and Enhanced Bioremediation pilot tests, BAI proposes to fill data gaps by characterizing soil and groundwater conditions in areas of the site that have not been assessed. This information is necessary in order to provide a baseline of soil conditions to evaluate the effectiveness of the proposed remediation methods. This Work Plan includes discussions of the Site Background, Proposed Scope of Work, and Proposed Schedule.

2.0 SITE BACKGROUND

The Site is currently an operational ARCO-branded service station located on the southwest corner of Lewelling Boulevard and Washington Avenue, southwest of Interstate 880, in a mixed commercial and residential area of San Leandro, California (Drawing 1). Improvements to the property include the convenience store building with two unused vehicle service bays, two pump islands northeast and northwest of the building with a total of eight dispensers under canopies. Concrete covers ground surfaces around the pump islands and over the UST complex, located in the southwestern portion of the Site. Asphalt covers the rest of the Site. Existing USTs consist of four 10,000-gallon double-wall USTs installed in 1990. There are currently nineteen groundwater monitor wells associated with the Site (Drawing 2). The groundwater flow direction is typically to the southwest. Historical subsurface investigation and remedial activities are briefly summarized below:

1989 Subsurface Investigation - In 1989, Applied GeoSystems, Inc. (AGS) conducted a subsurface investigation around the former USTs prior to their removal. The first generation (circa 1974) USTs included two 6,000-gallon and two 4,000-gallon single-walled steel gasoline USTs that were located in the northern corner of the Site, and one 280- to 550-gallon waste oil UST located at the southeast corner of the Station Building (Drawing 2). Borings B-1 through B-4 were installed around the former gasoline USTs while boring B-5 was installed adjacent to the former waste oil UST. Borings were advanced to groundwater or terminated in the capillary fringe immediately above groundwater. Soil samples from borings B-1 through B-4 contained up to 12,000 milligrams per kilogram (mg/kg) Total Petroleum Hydrocarbons as Gasoline (TPH-G) and up to 60 mg/kg, 450 mg/kg, 110 mg/kg and 660 mg/kg, Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX), respectively. Soil samples from boring B-5, in the

former waste oil UST, area contained up to 2,600 mg/kg TPH-G, up to 4,800 mg/kg Total Oil & Grease (TOG), and up to 10 mg/kg, 90 mg/kg, 21 mg/kg, and 130 mg/kg BTEX, respectively. No halogenated volatile organic compounds (HVOCs) were detected above the laboratory reporting limits. Separate-phase hydrocarbons (SPH) were encountered in each of the five borings (AGS, 11/9/1989).

1990 UST Removals - In January 1990, GeoStrategies, Inc. removed the five former USTs and product lines from the Site. Approximately 588 cubic yards (yd³) of soil was removed with the USTs and product lines and properly disposed. The former excavations were backfilled with pea gravel and a six-inch diameter recovery well RW-1 was installed in the former waste oil UST backfill (GeoStrategies, Inc., 6/29/1990).

1990 Soil Investigation - In June of 1990, AGS installed soil borings B-6, B-7, and B-8 on the Site and were completed as monitoring wells MW-1, MW-2 and MW-3. The borings encountered several thin layers (less than 1½ feet thick) of sandy clay and/or clayey sands between eight and twelve fbg. Soil samples from boring B-6 near the former waste oil UST contained maximum concentrations of 420 mg/kg TPH-G, 280 mg/kg Total Petroleum Hydrocarbons in the Diesel (TPH-D), 190 mg/kg TO, and 6.0 mg/kg, 27 mg/kg, 8.8 mg/kg and 52 mg/kg BTEX, respectively. Concentrations of Naphthalene and 2-methylnaphthalene were also reported at 2.9 mg/kg and 2.6 mg/kg, respectively, and HVOCs were not detected. Boring B-7 soil samples contained 9.3 mg/kg TPH-G, and 0.99 mg/kg, 0.71 mg/kg, 0.50 mg/kg and 1.3 mg/kg BTEX, respectively. Soil samples from boring B-8 in the southwest corner of the Site contained up to 620 mg/kg TPH-G, and up to 11 mg/kg, 30 mg/kg, 16 mg/kg and 82 mg/kg BTEX, respectively. SPH or suspended emulsified product was found within samples from MW-1 and MW-3 and consequently not analyzed at the laboratory (AGS, 12/14/1990).

1991 Monitoring Well Installations - In May of 1991, RESNA Industries, Inc. (RESNA)/AGS drilled six soil borings (B-9 through B-13 plus B-11A) on the Site, converting five into wells MW-4 through MW-8. Concentrations of up to 2,700 mg/kg TPH-G were found in boring B-10 (MW-5) located adjacent to the former USTs. Groundwater samples collected from wells MW-2, MW-5 and MW-8 contained up to 100,000 µg/L TPH-G and 25,000 µg/L benzene. Wells MW-1 and MW-3 contained SPH while MW-4, MW-6 and MW-7 were dry. A soil vapor extraction test performed on wells MW-1 through MW-6 determined that vapor extraction efficiency was limited by the thin vadose zone and low permeability soils. (RESNA, 3/3/1993)

1992 Subsurface Investigation - In August 1992, RESNA conducted a subsurface soil and groundwater investigation at the Site. Five onsite soil borings B-16, B-17 and B-20 through B-22 were drilled; B-16 and B-17 were converted into wells MW-11 and MW-12, respectively; and, two offsite borings B-18 and B-19 were converted into wells MW-13 and MW-14, respectively. RESNA reported finding predominately silty clay strata with thin sand layers (RESNA, 3/3/1993).

1992 Trench Excavation Investigation - In October 1992, RESNA drilled and sampled soil borings B-23 through B-31 to investigate hydrocarbon-impacted soil encountered by Pacific Gas & Electric Company (PG&E) during the replacement of natural gas lines along the Lewelling Boulevard sidewalk, adjacent to the Site. Subsurface soils were impacted by up to TPH-G at 20 mg/kg, and up to 2.7 mg/kg BTEX in borings B-23 through B-28, and B-31. Soil collected in the capillary fringe zone (7 to 10 fbg) in borings B-24, B-27 and B-31 have been impacted with greater than 100 mg/kg TPH-G. Borings B-29 and B-30 delineated the lateral extent of subsurface contamination to the northeast at the intersection of Lewelling Boulevard and Washington Avenue. The vertical extent of contamination was delineated along the gas line alignment to a depth of approximately 15.5 fbg (RESNA, 3/3/1993).

1993 Offsite Subsurface Investigation and Pump Test - In March 1993, RESNA drilled offsite borings B-32A and B-32B, the latter being converted into well MW-15. In May 1993, RESNA drilled offsite borings B-33 and B-34 downgradient of the Site and completed the wells as MW-10 and MW-9, respectively. TPH-G in soil appears to be delineated to less than 1.0 mg/kg offsite to the east, southeast, west and southwest and onsite in the southeastern portion of the Site. Soil appears to be vertically delineated to less than 100 mg/kg at a depth of approximately 15 fbg in a silty clay confining layer beneath thin, discontinuous water-bearing sand layers. At the time, TPH-G impacted groundwater was delineated to the east by MW-12, to the northeast by MW-13, to the southeast by MW-14, to the west by MW-15 and to the southwest by MW-9 and MW-10. RESNA also performed step-drawdown pumping tests on wells MW-8 and MW-12, and performed two 12-hour pump tests on well MW-8 at different pumping rates. Based on their findings from the pump tests, RESNA concluded that pump and treat would not be a viable technology for groundwater remediation at the Site.

1997 Soil Gas Investigation - In 1997, EMCON conducted a soil gas investigation and risk based corrective action (RBCA) analysis. Soil vapor samples collected from seven shallow borings (between 1.0 -1.5 fbg) did not contain BTEX. Benzene was detected at 0.5 milligrams per cubic meter (mg/m³) at 4 fbg behind the station building. The RBCA evaluation was consistent with guidelines then established by the American Society of Testing and Materials (ASTM) standards. EMCON concluded that concentrations of BTEX detected in soil and groundwater at the Site did not exceed concentrations that correspond to acceptable levels of risk. However, EMCON stated potential pathways and receptors for the migration of hydrocarbons in offsite utility trenches could be performed at a future date, if necessary (EMCON, 6/9/1997).

2002 Utility Trench Subsurface Investigation - In May 2002, Delta Environmental Consultants, Inc. (Delta) advanced three hand-auger borings (HB-2 through HB-4) to approximately 10½ fbg adjacent to the Oro Loma sanitary sewer pipeline within Lewelling Boulevard. Hand-auger boring HB-1, upgradient to the intersection of Lewelling Boulevard and Washington Avenue, was not advanced due to potential conflict with an in-ground sensor for the traffic signal. Grab water samples from HB-2, HB-3, and HB-4 contained TPH-G at 28,000 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 160 µg/L (Delta, 7/31/2002).

2003 Dispenser and Product Piping Upgrade - In June 2003, Wilcon Builders excavated and removed the dispensers and product piping. 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). Soil samples designated D-1 through D-8 were collected between 4-5 fbg. 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 4-6 fbg. Samples PL-2 and PL-3 contained very low concentrations of BTEX. No MTBE was detected in the soil samples. Wilcon Builders also removed and replaced the concrete pad covering the USTs for the installation of new plumbing and sumps. During these activities groundwater was encountered. The water entering the pit was extracted from the pit and stored in a 21,000 gallon Baker tank until full. A sample of water from the Baker tank did not contain BTEX, total metals, mercury, phenol or volatile organic compounds (VOCs) above the laboratory reporting limits, but did contain MTBE at 290 µg/L (URS, 10/9/2003).

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

2006 Soil and Groundwater Investigation - In November 2006, Stratus Environmental, Inc. (Stratus), under direction from BAI, advanced one soil boring (B-1) and one Hydropunch boring (HP-1) to a depth of 58 fbg in the southern portion of the Site to characterize soil types and delineate the vertical extent of contamination. Thin stringers of clayey sand were encountered at 24½-26½ fbg, 46½-47 fbg, and 53-54 fbg until encountering a clayey sand layer at 55-58 fbg (the total depth). Otherwise subsurface soil was logged as clay. Samples collected from the sand stringers did not contain BTEX, MTBE, GRO or Oil-Range Organics above the laboratory reporting limits. Low concentrations of a contaminant which eluted in the Diesel Range Organics (DRO, C10-C28) were found; however, the laboratory reported that the chromatogram profiles did not resemble the referenced fuel standard (BAI, 3/28/2007).

1990 to 2010 Groundwater Monitoring -Quarterly groundwater monitoring and sampling at the Site was initiated in June 1990 by RESNA, followed by EMCON and then by URS for a period of time. Quarterly sampling is currently performed and reported by BAI.

Historical groundwater data is provided in Table 1, and historical soil data is presented in Table 2. Historical gradient and flow direction data are provided in Table 3.

3.0 PROPOSED INVESTIGATION ACTIVITIES

The purpose of this proposed on-site investigation is to fill data gaps to characterize soil and groundwater conditions in the interior area of the Site that have not been investigated. BAI proposes advancing four direct-push technology (DPT) borings to evaluate potential residual petroleum hydrocarbon impacts to soil and groundwater. To accommodate this objective, BAI proposes advancing borings (SB-1 through SB-4) to first groundwater where soil samples and a grab-groundwater sample will be collected from each borehole. This information will be necessary to establish a baseline of soil and groundwater conditions prior to conducting Enhanced Bioremediation or DPE pilot testing and will assist in the evaluation of the proposed remediation methods. Drawing 2 depicts the locations of proposed borings to meet investigation goals. The actual locations may vary due to the potential presence of underground utility conflicts.

Prior to initiating field activities, BAI will obtain the necessary drilling permit from Alameda County Public Works Agency (ACPWA), prepare a site health and safety plan (HASP) for the proposed work, clear the Site for subsurface utilities, and provide 72-hour advance notification to ACEH prior to start of field activities. The utility clearance will include notifying Underground Service Alert (USA) of the pending work a minimum of 48 hours prior to initiating the field investigation and securing the services of a private utility locating company to confirm the absence of underground utilities at the boring location.

The Site-specific HASP will be used by personnel implementing the Work Plan and will be available on-site during work. The subcontractor(s) performing field activities will be provided with a copy of the HASP prior to initiating work. A safety tailgate meeting will also be conducted daily to review potential hazards and scope of work.

A BAI field geologist will observe a California-licensed drilling company advance the soil borings using a Geoprobe or similar DPT drilling rig to a total approximate depth of 12 fbg. Soils will be classified according to the Unified Soil Classification System (USCS), and will be examined using visual and manual methods for parameters including odor, staining, color, grain size, and moisture content. Soil samples will be collected at three-foot intervals beginning at three feet bgs until a total depth of approximately 12 feet has been reached. Soil samples will be screened in the field for organic vapors

using a photo-ionization detector (PID). The sample at the 3 and 6 foot intervals will be a disturbed soil sample collected during borehole clearing activities. The soil samples to be collected below approximately 9 fbg could potentially be located within the saturation zone. The proposed borings will be advanced to a sufficient depth to collect grab-groundwater samples at first encountered water (anticipated between 9 and 12 fbg based on the range of historic depth to groundwater measurements from existing monitor wells). Groundwater samples will be collected with disposable factory decontaminated disposable bailers. Following sample collection, the boring will be grouted to the surface using neat cement, and the surface refinished to match the surrounding area.

Soil samples collected above first groundwater and grab-groundwater samples will be submitted under chain-of-custody protocol to Calscience Environmental Laboratories, Inc. (Garden Grove), a California State-certified environmental laboratory. Soil samples will be analyzed for the following: GRO, BTEX, MTBE, Ethyl tert-butyl ether (ETBE), Tert-amyl methyl ether (TAME), Di-isopropyl ether (DIPE), 1,2-Dichloroethane (1,2-DCA), 1,2-Dibromoethane (EDB), Tert-butyl alcohol (TBA) and Ethanol using EPA Method 8260B.

Investigation-derived residuals will be temporarily stored onsite in 55-gallon, DOT approved drums, and pending characterization for proper management. BAI will coordinate the removal and transportation of surplus soils and liquids to appropriate California-regulated disposal facilities.

3.1 Investigation Reporting

Upon completion of field activities described above and compilation of field data, a Characterization Report will be prepared and submitted to the ACEH. The report will document fieldwork and lab test results and will include the following information at a minimum:

- Scope of Work;
- Soil boring drilling and sampling techniques;
- Lithologic boring logs;
- Site map showing boring locations;
- Investigation results;
- Laboratory reports and chain of custody records;
- Significance of any identified contamination; and
- Recommendations for future activities.

4.0 PROPOSED SCHEDULE

The schedule for the work described above shall proceed as follows:

- Soil and Groundwater Investigation– Upon approval of this Work Plan and obtaining the necessary permits;
- Characterization Report – Estimated to be submitted within 30 days of fieldwork completion.

In addition, groundwater monitoring and sampling will continue in accordance with the existing monitoring and sampling program.

5.0 CLOSURE

BAI will do its best to alert the client of matters which, in the opinion of BAI, require immediate attention to protect public health, safety, and the environment. BAI will make every effort to advise the client of matters which should be reported to government regulatory agencies. However, the client is solely responsible for reporting such matters and BAI shall not be held liable in the event that the proper agency is not notified. Our services will be performed in accordance with generally accepted practice at the time work commences. Results and recommendations will be based on review of available documentation and written or verbal correspondence with appropriate regulatory agencies, laboratory results, observations of field personnel, and the points investigated. No warranty is expressed or implied.

6.0 REFERENCES

ACEH, November 14, 2008. *Fuel Leak Case # RO0000309 and GeoTracker Global ID T0600100108, ARCO #0601, 712 Lewelling Boulevard, San Leandro, CA 94579.* Submitted to Mr. Paul Supple for Atlantic Richfield Company, by Mr. Paresh Khatri.

ACEH, April 2, 2009. *Fuel Leak Case # RO0000309 and GeoTracker Global ID T0600100108, ARCO #0601, 712 Lewelling Boulevard, San Leandro, CA 94579.* Submitted to Mr. Paul Supple for Atlantic Richfield Company, by Mr. Paresh Khatri.

ACEH, August 21, 2009. *Fuel Leak Case # RO0000309 and GeoTracker Global ID T0600100108, ARCO #0601, 712 Lewelling Boulevard, San Leandro, CA 94579.* Submitted to Mr. Paul Supple for Atlantic Richfield Company, by Mr. Paresh Khatri.

ACEH, August 13, 2010. *Fuel Leak Case # RO0000309 and GeoTracker Global ID T0600100108, ARCO #0601, 712 Lewelling Boulevard, San Leandro, CA 94579.* Submitted to Mr. Paul Supple for Atlantic Richfield Company, by Mr. Paresh Khatri.

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.*

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Delta Environmental Consultants, Inc., October 7, 2008. *Soil Vapor Investigation Report, Former Shell-Branded Service Station, 15275 Washington Avenue, San Leandro, California.* Letter report submitted to Mr. Jerry Wickham, ACEH.

EMCON, June 9, 1997. *Tier I, Tier II Risk-Based Corrective Action Evaluation for, ARCO Service Station 601, 712 Lewelling Boulevard, San Leandro, California.*

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

H&P Mobile Geochemistry, October 2004. *Vapor Monitoring Wells/Implants, Standard Operating Procedures (For Vapor Intrusion Applications).*

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.*

URS, March 22, 2006. *Sanitary Sewer Lateral Sampling Results, ARCO Service Station #0601, 712
Lewelling Boulevard, San Leandro, California.* Letter report to Mr. George Gigounas of San Francisco.

DRAWINGS

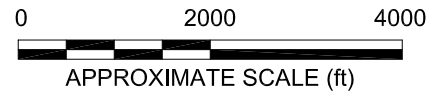
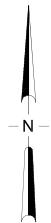
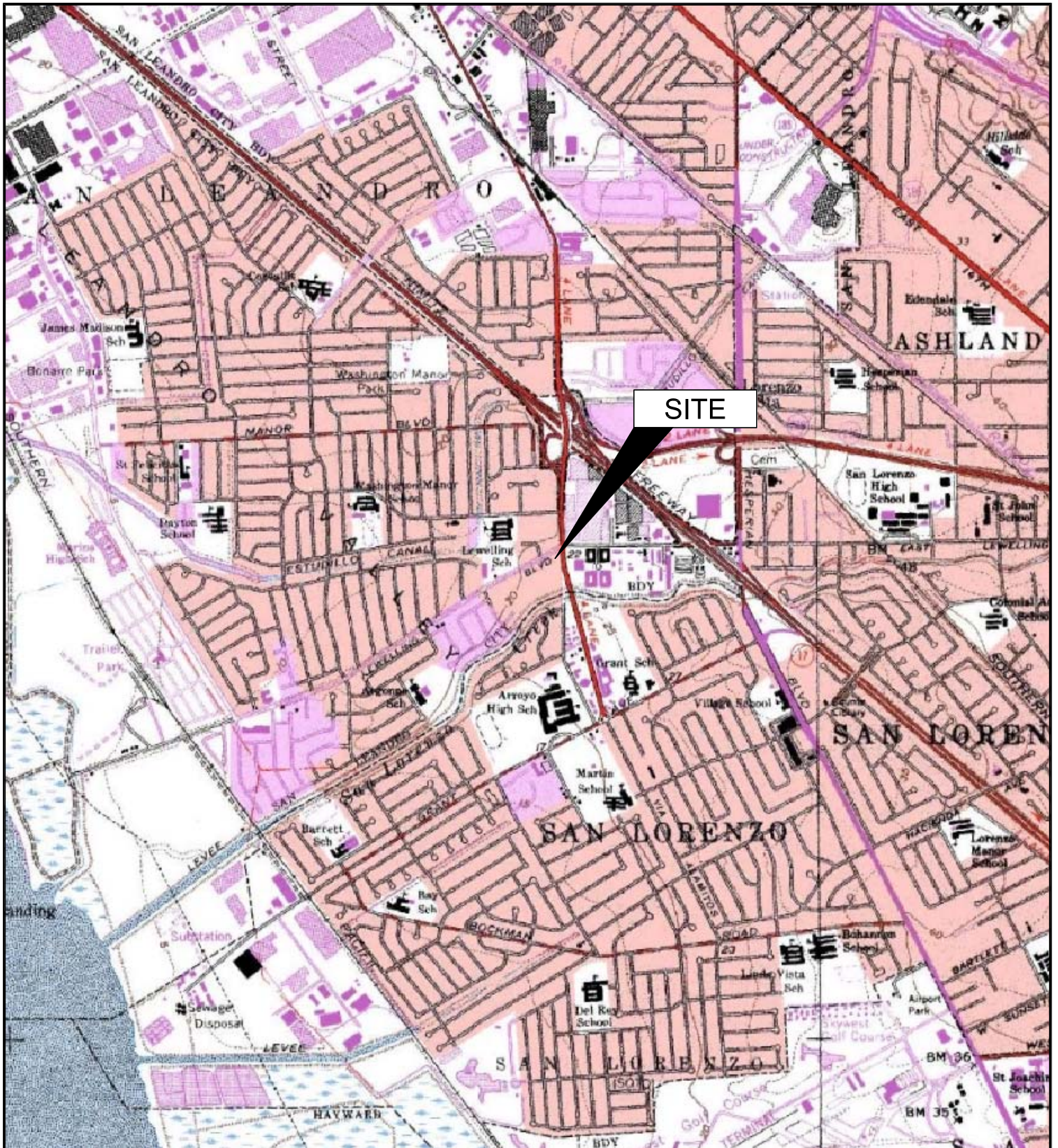
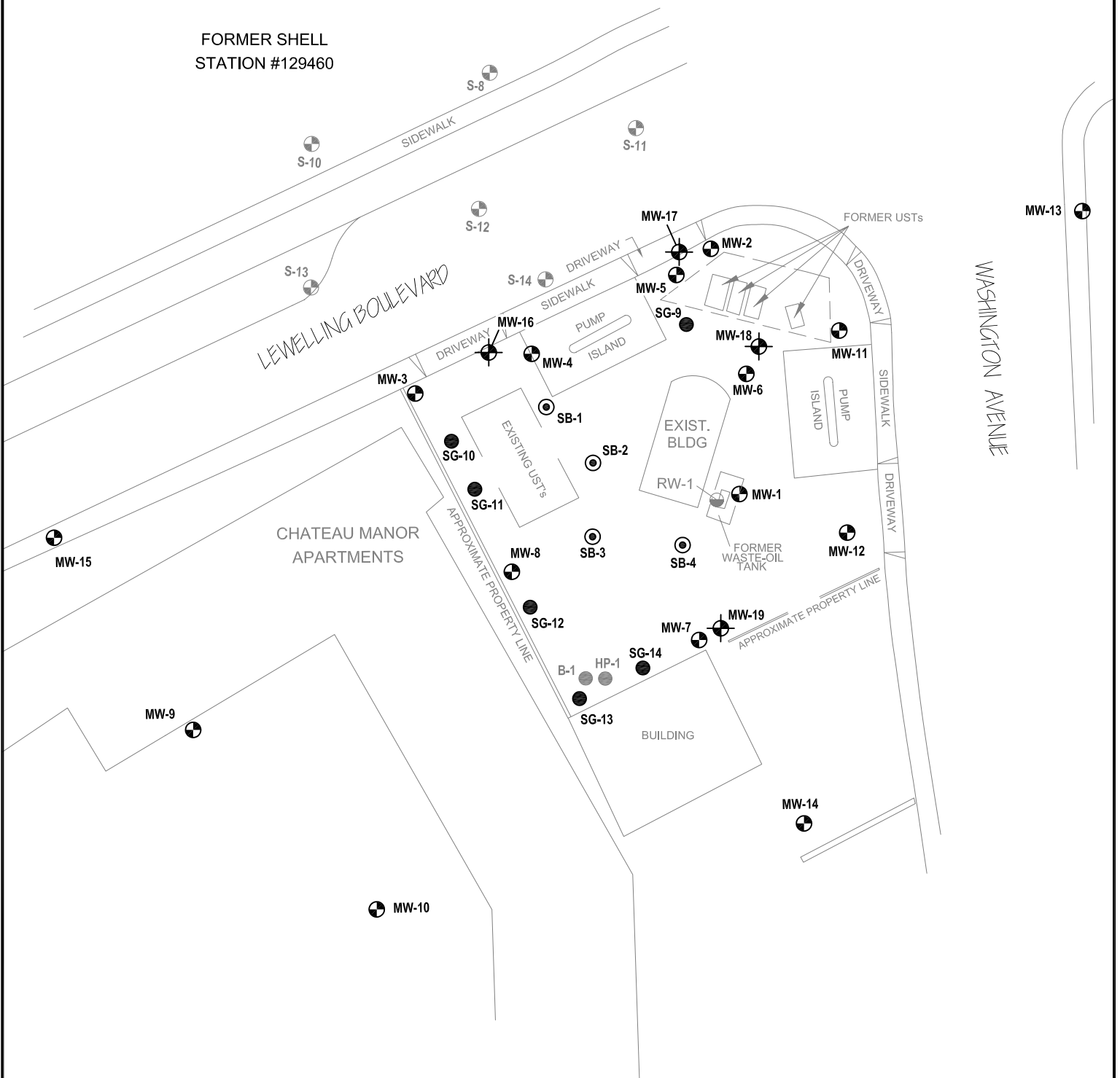


IMAGE SOURCE: USGS

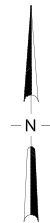
FORMER SHELL
STATION #129460



LEGEND

-  SOIL BORING/MONITORING WELL
-  SOIL-GAS BORING/ TEMPORARY VAPOR IMPLANT
-  GROUND-WATER MONITORING WELL
-  SOIL VAPOR EXTRACTION WELL
-  PROPOSED SOIL BORING

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



TABLES

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-1																
1/9/1991	--	i, l	22.98	7.00	12.00	9.47	13.51	--	--	--	--	--	--	--	--	--
4/16/1991	--	a	22.98	7.00	12.00	6.12	16.86	--	--	--	--	--	--	--	--	--
6/10/1991	--	a	22.26	7.00	12.00	9.00	13.26	--	--	--	--	--	--	--	--	--
10/10/1991	--	i, l	22.26	7.00	12.00	9.73	12.53	--	--	--	--	--	--	--	--	--
3/23/1992	--	a	22.26	7.00	12.00	7.40	14.86	--	--	--	--	--	--	--	--	--
6/8/1992	--	i, l	22.26	7.00	12.00	9.08	13.18	--	--	--	--	--	--	--	--	--
9/15/1992	--	l	22.26	7.00	12.00	9.18	13.08	--	--	--	--	--	--	--	--	--
11/16/1992	--	i, l	22.26	7.00	12.00	9.09	13.17	--	--	--	--	--	--	--	--	--
2/16/1993	--	i, l	22.26	7.00	12.00	7.03	15.23	--	--	--	--	--	--	--	--	--
5/13/1993	--	i, l	22.26	7.00	12.00	8.08	14.18	--	--	--	--	--	--	--	--	--
8/17/1993	--	i, l	22.26	7.00	12.00	8.81	13.45	--	--	--	--	--	--	--	--	--
11/8/1993	--	i, l	22.26	7.00	12.00	9.22	13.04	--	--	--	--	--	--	--	--	--
2/14/1994	--	a	22.26	7.00	12.00	7.72	14.54	--	--	--	--	--	--	--	--	--
5/5/1994	--	a	22.26	7.00	12.00	8.47	13.79	--	--	--	--	--	--	--	--	--
8/4/1994	--	a	22.26	7.00	12.00	8.72	13.54	--	--	--	--	--	--	--	--	--
11/20/1994	--	a	22.26	7.00	12.00	7.81	14.45	--	--	--	--	--	--	--	--	--
3/17/1995	--		22.26	7.00	12.00	6.57	15.69	120,000	5,300	370	1,500	13,000	--	--	--	--
6/1/1995	--		22.26	7.00	12.00	7.87	14.39	250,000	7,100	950	3,500	21,000	--	--	--	--
8/31/1995	--	i, l	22.26	7.00	12.00	8.12	14.14	--	--	--	--	--	--	--	--	--
11/27/1995	--		22.26	7.00	12.00	8.42	13.84	310,000	4,600	770	5,700	21,000	--	--	--	--
2/22/1996	--	j	22.26	7.00	12.00	6.01	16.25	100,000	6,200	320	2,500	12,000	<1,000	--	--	--
5/20/1996	--		22.26	7.00	12.00	7.03	15.23	340,000	6,600	240	4,500	22,000	<1,000	--	--	--
8/26/1996	--		22.26	7.00	12.00	8.16	14.10	210,000	7,900	320	3,400	15,000	<1,000	--	--	--
11/20/1996	--		22.26	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	--		19.19	7.00	12.00	8.42	10.77	83,000	6,200	84	2,500	9,000	<300	--	--	--
8/19/1997	--		19.19	7.00	12.00	8.65	10.54	83,000	4,500	<100	2,200	8,100	<600	--	--	--
11/19/1997	--		19.19	7.00	12.00	8.54	10.65	250,000	4,400	<500	3,800	9,900	<3,000	--	--	--
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	--		19.19	7.00	12.00	6.92	12.27	210,000	2,700	<500	4,200	8,300	<3,000	--	1.5	--
7/27/1998	--		19.19	7.00	12.00	8.14	11.05	73,000	2,100	88	2,600	4,600	<300	--	1.0	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-1 Cont.																
10/14/1998	--		19.19	7.00	12.00	8.58	10.61	47,000	2,900	<500	2,300	3,900	<300	--	1.5	--
1/21/1999	--		19.19	7.00	12.00	7.48	11.71	45,000	1,400	64	2,100	2,400	<300	--	1.0	--
5/6/1999	--		19.19	7.00	12.00	8.00	11.19	41,000	1,900	<20	2,800	3,400	<120	--	0.85	--
8/23/1999	--		19.19	7.00	12.00	8.56	10.63	26,000	1,700	52	1,600	1,500	<75	--	0.72	--
10/28/1999	--		19.19	7.00	12.00	8.92	10.27	38,000	2,500	35	2,400	2,500	<200	--	0.7	--
2/4/2000	--		19.19	7.00	12.00	8.48	10.71	19,000	960	13	1,200	860	<60	--	2.11	--
6/20/2000	--		19.19	7.00	12.00	8.20	10.99	23,000	2,400	50	1,800	680	<200	--	--	--
9/29/2000	--		19.19	7.00	12.00	8.55	10.64	23,600	2,880	<50	2,130	871	<250	--	--	--
12/17/2000	--		19.19	7.00	12.00	8.28	10.91	21,600	1,980	<50	1,610	664	<250	--	--	--
3/28/2001	--		19.19	7.00	12.00	8.13	11.06	19,800	2,310	<100	2,010	517	<500	--	--	--
6/20/2001	--		19.19	7.00	12.00	8.60	10.59	17,000	2,200	23	1,800	320	100	--	--	--
9/22/2001	--		19.19	7.00	12.00	9.03	10.16	20,000	2,900	<200	2,500	270	<1000	--	--	--
12/27/2001	--		19.19	7.00	12.00	7.93	11.26	15,000	2,000	<50	1,700	140	290	--	--	--
3/15/2002	--		19.19	7.00	12.00	7.89	11.30	12,000	1,800	<50	1,400	79	<250	--	--	--
4/18/2002	--		19.19	7.00	12.00	7.05	12.14	16,000	3,000	180	2,600	320	<250	--	1.26	--
7/23/2002	NP	e	19.19	7.00	12.00	8.70	10.49	14,000	3,200	<50	2,100	<50	<250	--	0.9	6.8
10/16/2002	NP	d	19.19	7.00	12.00	9.12	10.07	14,000	2,100	<25	2,000	31	<120	--	0.8	7.1
1/23/2003	NP	g	19.19	7.00	12.00	7.45	11.74	6,000	680	<50	800	<50	<50	--	0.9	6.8
4/7/2003	--		19.19	7.00	12.00	7.68	11.51	6,400	940	6.6	810	11	69	--	1.1	6.9
8/7/2003	--	a, k	19.19	7.00	12.00	8.75	10.44	12,000	1,500	27	1,700	42	160	--	--	6.4
10/23/2003	NP	a	19.19	7.00	12.00	8.96	10.23	14,000	1,700	<25	1,600	<25	220	1470	--	--
01/12/2004	P		19.19	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	a, r	24.78	7.00	12.00	8.87	15.91	12,000	1,600	<25	920	36	84	1780	1.5	6.6
07/01/2004	NP	a	24.78	7.00	12.00	9.31	15.47	9,700	830	<10	580	11	100	886	0.8	6.7
11/04/2004	NP		24.78	7.00	12.00	8.12	16.66	7,800	650	<5.0	300	12	130	1368	1.2	6.7
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		24.78	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	q	24.78	7.00	12.00	7.05	17.73	--	--	--	--	--	--	630	--	6.6
08/02/2005	NP		24.78	7.00	12.00	7.39	17.39	4,700	210	<5.0	210	11	15	1180	--	6.8
10/21/2005	NP		24.78	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		24.78	7.00	12.00	7.10	17.68	5,000	240	5.2	120	18	<5.0	939	0.97	7.2

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-1 Cont.																
04/28/2006	P	a	24.78	7.00	12.00	6.69	18.09	13,000	100	<5.0	270	7.0	<5.0	--	1.81	7.1
8/4/2006	NP		24.78	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		24.78	7.00	12.00	8.71	16.07	12,000	440	5.6	260	11	16	--	--	6.92
1/15/2007	--	l	24.78	7.00	12.00	7.95	16.83	--	--	--	--	--	--	--	1.23	6.90
4/17/2007	P	a	24.78	7.00	12.00	8.20	16.58	6,800	140	<10	280	<10	<10	--	2.14	7.19
7/9/2007	P	a, s	24.78	7.00	12.00	8.73	16.05	8,200	240	<5.0	220	180	81	1020	2.42	7.15
10/1/2007	P	a, s	24.78	7.00	12.00	8.94	15.84	13,000	260	<5.0	260	13	9.3	1,340	2.46	7.19
1/7/2008	P	u	24.78	7.00	12.00	7.43	17.35	8,000	56	<5.0	190	7.3	<5.0	1,000	0.95	7.03
4/1/2008	NP	i, l	24.78	7.00	12.00	7.64	17.16	9,300	70	<20	210	<20	<20	1,220	2.22	7.04
7/23/2008	P		24.78	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	a	24.78	7.00	12.00	9.13	15.65	31,000	190	<20	210	<20	<20	2,132	0.31	6.87
1/21/2009	P	a	24.78	7.00	12.00	8.72	16.06	20,000	99	<20	190	<20	<20	--	1.06	7.01
4/21/2009	P	a, u	24.78	7.00	12.00	7.68	17.10	18,000	63	<20	50	<20	<20	1,617	0.40	6.98
7/21/2009	P	u, v	24.78	7.00	12.00	8.91	15.87	9,700	100	<20	120	<20	<20	--	10.85	7.10
1/12/2010	P	u	24.78	7.00	12.00	8.30	16.48	8,400	49	<10	85	<10	<10	--	0.98	6.48
6/3/2010	--		24.78	7.00	12.00	7.67	17.11	--	--	--	--	--	--	--	--	--
7/22/2010	NP	w	24.78	7.00	12.00	8.43	16.35	15,000	54	<10	90	<10	<10	--	0.49	7.0
MW-2																
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	--		22.06	8.00	12.00	8.61	13.45	6,400	650	290	110	560	--	--	--	--
1/9/1991	--		22.06	8.00	12.00	8.43	13.63	13,000	1,500	970	390	1,500	--	--	--	--
4/16/1991	--		22.06	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	--		21.33	8.00	12.00	8.82	12.51	10,000	1,600	910	280	1,400	--	--	--	--
3/23/1992	--		21.33	8.00	12.00	6.86	14.47	33,000	4,100	5,000	1,100	5,300	--	--	--	--
6/8/1992	--		21.33	8.00	12.00	7.95	13.38	18,000	1,200	980	330	1,800	--	--	--	--
9/15/1992	--		21.33	8.00	12.00	8.71	12.62	13,000	430	500	340	1,800	--	--	--	--
11/16/1992	--		21.33	8.00	12.00	7.93	13.40	13,000	900	940	300	1,400	--	--	--	--
2/16/1993	--		21.33	8.00	12.00	6.02	15.31	20,000	1,800	1,200	530	2,700	--	--	--	--
5/13/1993	--		21.33	8.00	12.00	6.99	14.34	13,000	1,000	470	370	1,900	--	--	--	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-2 Cont.																
8/17/1993	--		21.33	8.00	12.00	7.85	13.48	9,100	770	160	310	1,500	--	--	--	--
11/8/1993	--		21.33	8.00	12.00	8.12	13.21	9,200	380	62	130	630	--	--	--	--
2/14/1994	--		21.33	8.00	12.00	6.88	14.45	8,700	670	370	50	1,400	--	--	--	--
5/5/1994	--		21.33	8.00	12.00	7.51	13.82	5,600	390	140	120	480	--	--	--	--
8/4/1994	--	n	21.33	8.00	12.00	8.00	13.33	2,300	180	<2.5	<2.5	230	--	--	--	--
11/20/1994	--		21.33	8.00	12.00	6.86	14.47	4,900	170	150	120	390	--	--	--	--
3/17/1995	--		21.33	8.00	12.00	6.12	15.21	10,000	460	77	260	550	--	--	--	--
6/1/1995	--		21.33	8.00	12.00	6.56	14.77	13,000	400	78	210	410	--	--	--	--
8/31/1995	--		21.33	8.00	12.00	7.18	14.15	5,000	280	18	120	140	<50	--	--	--
11/27/1995	--		21.33	8.00	12.00	7.39	13.94	3,200	230	12	77	90	--	--	--	--
2/22/1996	--		21.33	8.00	12.00	5.78	15.55	11,000	290	67	190	330	<50	--	--	--
5/20/1996	--		21.33	8.00	12.00	6.27	15.06	--	--	--	--	--	--	--	--	--
8/26/1996	--		21.33	8.00	12.00	7.30	14.03	--	--	--	--	--	--	--	--	--
11/20/1996	--		21.33	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	--		21.12	8.00	12.00	7.44	13.68	--	--	--	--	--	--	--	--	--
8/19/1997	--		21.12	8.00	12.00	7.64	13.48	--	--	--	--	--	--	--	--	--
11/19/1997	--		21.12	8.00	12.00	7.70	13.42	--	--	--	--	--	--	--	--	--
2/19/1998	--		21.12	8.00	12.00	5.22	15.90	2,000	160	50	66	230	25	--	--	--
4/23/1998	--		21.12	8.00	12.00	6.24	14.88	--	--	--	--	--	--	--	--	--
7/27/1998	--		21.12	8.00	12.00	7.02	14.10	--	--	--	--	--	--	--	--	--
10/14/1998	--		21.12	8.00	12.00	7.54	13.58	--	--	--	--	--	--	--	--	--
1/21/1999	--		21.12	8.00	12.00	7.15	13.97	1,700	84	4	31	10	13	--	0.5	--
5/6/1999	--		21.12	8.00	12.00	6.95	14.17	--	--	--	--	--	--	--	--	--
8/23/1999	--		21.12	8.00	12.00	7.49	13.63	--	--	--	--	--	--	--	0.68	--
10/28/1999	--		21.12	8.00	12.00	7.92	13.20	--	--	--	--	--	--	--	--	--
2/4/2000	--		21.12	8.00	12.00	6.61	14.51	--	--	--	--	--	--	--	--	--
6/20/2000	--		21.12	8.00	12.00	7.12	14.00	--	--	--	--	--	--	--	--	--
9/29/2000	--		21.12	8.00	12.00	7.60	13.52	--	--	--	--	--	--	--	--	--
12/17/2000	--		21.12	8.00	12.00	7.42	13.70	--	--	--	--	--	--	--	--	--
3/28/2001	--		21.12	8.00	12.00	6.84	14.28	838	18.1	<5.0	7.63	5.98	39.5	--	--	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-2 Cont.																
6/20/2001	--		21.12	8.00	12.00	7.66	13.46	--	--	--	--	--	--	--	--	--
9/22/2001	--		21.12	8.00	12.00	8.08	13.04	--	--	--	--	--	--	--	--	--
12/27/2001	--		21.12	8.00	12.00	6.48	14.64	--	--	--	--	--	--	--	--	--
3/15/2002	--		21.12	8.00	12.00	6.84	14.28	100	<0.5	<0.5	2.5	<0.5	75	--	--	--
4/18/2002	--		21.12	8.00	12.00	6.19	14.93	--	--	--	--	--	--	--	--	--
7/23/2002	--		21.12	8.00	12.00	7.73	13.39	--	--	--	--	--	--	--	--	--
10/16/2002	--		21.12	8.00	12.00	8.10	13.02	--	--	--	--	--	--	--	--	--
1/23/2003	P	g	21.12	8.00	12.00	6.52	14.60	<5,000	<50	<50	<50	<50	95	--	1.6	7.2
4/7/2003	--		21.12	8.00	12.00	7.22	13.90	--	--	--	--	--	--	--	--	--
8/7/2003	--		21.12	8.00	12.00	7.84	13.28	--	--	--	--	--	--	--	--	--
10/23/2003	P	m	21.12	8.00	12.00	7.95	13.17	<250	<2.5	<2.5	<2.5	4.2	68	--	--	--
01/12/2004	--		21.12	8.00	12.00	6.60	14.52	--	--	--	--	--	--	--	--	--
04/20/2004	--	r	23.87	8.00	12.00	8.32	15.55	--	--	--	--	--	--	--	--	--
07/01/2004	P	o	23.87	8.00	12.00	8.96	14.91	72	<0.50	<0.50	<0.50	<0.50	72	--	2.1	6.9
11/04/2004	--		23.87	8.00	12.00	7.30	16.57	--	--	--	--	--	--	--	--	--
01/10/2005	--		23.87	8.00	12.00	5.87	18.00	--	--	--	--	--	--	--	--	--
04/14/2005	--		23.87	8.00	12.00	5.75	18.12	--	--	--	--	--	--	--	--	--
08/02/2005	P		23.87	8.00	12.00	6.47	17.40	1,300	4.3	0.57	11	0.97	12	--	--	7.0
10/21/2005	--		23.87	8.00	12.00	7.12	16.75	--	--	--	--	--	--	--	--	--
01/04/2006	--		23.87	8.00	12.00	6.75	17.12	--	--	--	--	--	--	--	--	--
04/28/2006	--		23.87	8.00	12.00	5.90	17.97	--	--	--	--	--	--	--	--	--
8/4/2006	P		23.87	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	--		23.87	8.00	12.00	7.72	16.15	--	--	--	--	--	--	--	--	--
1/15/2007	--		23.87	8.00	12.00	7.14	16.73	--	--	--	--	--	--	--	--	--
4/17/2007	--		23.87	8.00	12.00	7.28	16.59	--	--	--	--	--	--	--	--	--
7/9/2007	P		23.87	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	--		23.87	8.00	12.00	7.95	15.92	--	--	--	--	--	--	--	--	--
1/7/2008	--		23.87	8.00	12.00	6.46	17.41	--	--	--	--	--	--	--	--	--
4/1/2008	--		23.87	8.00	12.00	7.10	16.77	--	--	--	--	--	--	--	--	--
7/23/2008	NP		23.87	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	--		23.87	8.00	12.00	8.10	15.77	--	--	--	--	--	--	--	--	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-2 Cont.																
1/21/2009	--		23.87	8.00	12.00	7.70	16.17	--	--	--	--	--	--	--	--	--
4/21/2009	--		23.87	8.00	12.00	7.16	16.71	--	--	--	--	--	--	--	--	--
7/21/2009	NP	v	23.87	8.00	12.00	8.01	15.86	<50	<0.50	<0.50	<0.50	<0.50	0.83	--	11.67	7.47
1/12/2010	--		23.87	8.00	12.00	7.35	16.52	--	--	--	--	--	--	--	--	--
6/3/2010	P		23.87	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	w	23.87	8.00	12.00	7.47	16.40	420	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.03	7.1
MW-3																
7/18/1990	--		20.84	8.00	12.00	7.03	13.81	--	--	--	--	--	--	--	--	--
10/15/1990	--	i, l	20.84	8.00	12.00	8.19	12.65	--	--	--	--	--	--	--	--	--
1/9/1991	--	i, l	20.84	8.00	12.00	7.46	13.38	--	--	--	--	--	--	--	--	--
4/16/1991	--	a	20.84	8.00	12.00	7.95	12.89	--	--	--	--	--	--	--	--	--
6/10/1991	--	a	20.11	8.00	12.00	7.14	12.97	--	--	--	--	--	--	--	--	--
10/10/1991	--	i, l	20.11	8.00	12.00	7.82	12.29	--	--	--	--	--	--	--	--	--
3/23/1992	--	a	20.11	8.00	12.00	5.75	14.36	--	--	--	--	--	--	--	--	--
6/8/1992	--	i, l	20.11	8.00	12.00	7.52	12.59	--	--	--	--	--	--	--	--	--
9/15/1992	--	i, l	20.11	8.00	12.00	8.01	12.10	--	--	--	--	--	--	--	--	--
11/16/1992	--	a	20.11	8.00	12.00	7.11	13.00	--	--	--	--	--	--	--	--	--
2/16/1993	--	i, l	20.11	8.00	12.00	5.93	14.18	--	--	--	--	--	--	--	--	--
5/13/1993	--	i, l	20.11	8.00	12.00	6.37	13.74	--	--	--	--	--	--	--	--	--
8/17/1993	--	i, l	20.11	8.00	12.00	7.00	13.11	--	--	--	--	--	--	--	--	--
11/8/1993	--		20.11	8.00	12.00	7.31	12.80	430,000	4,100	14,000	6,400	37,000	--	--	--	--
2/14/1994	--		20.11	8.00	12.00	5.81	14.30	85,000	4,200	12,000	2,500	16,000	--	--	--	--
5/5/1994	--		20.11	8.00	12.00	6.81	13.30	560,000	4,600	14,000	5,300	40,000	--	--	--	--
8/4/1994	--		20.11	8.00	12.00	7.31	12.80	64,000	4,200	7,600	1,700	12,000	--	--	--	--
11/20/1994	--		20.11	8.00	12.00	5.88	14.23	80,000	4,700	9,700	2,400	15,000	--	--	--	--
3/17/1995	--		20.11	8.00	12.00	5.46	14.65	370,000	4,800	12,000	5,800	34,000	--	--	--	--
6/1/1995	--		20.11	8.00	12.00	6.34	13.77	270,000	6,000	11,000	5,200	28,000	--	--	--	--
8/31/1995	--	i, l	20.11	8.00	12.00	6.60	13.51	--	--	--	--	--	--	--	--	--
11/27/1995	--		20.11	8.00	12.00	6.76	13.35	150,000	5,100	8,800	3,900	21,000	--	--	--	--
2/22/1996	--		20.11	8.00	12.00	5.14	14.97	150,000	4,400	7,600	4,100	22,000	<3,000	--	--	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-3 Cont.																
5/20/1996	--		20.11	8.00	12.00	5.17	14.94	410,000	4,700	8,000	6,300	36,000	<3,000	--	--	--
8/26/1996	--		20.11	8.00	12.00	7.04	13.07	260,000	4,000	6,100	4,200	24,000	<2,000	--	--	--
11/20/1996	--		20.11	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	--		22.99	8.00	12.00	6.98	16.01	130,000	2,100	4,300	3,500	19,000	<700	--	--	--
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	--		22.99	8.00	12.00	7.25	15.74	93,000	1,700	2,400	2,800	16,000	<600	--	--	--
2/19/1998	--		22.99	8.00	12.00	5.24	17.75	80,000	620	1,200	2,500	13,000	<600	--	--	--
4/23/1998	--		22.99	8.00	12.00	6.60	16.39	130,000	1,500	2,400	3,500	18,000	<600	--	3.5	--
7/27/1998	--		22.99	8.00	12.00	7.00	15.99	140,000	920	1,500	2,400	13,000	<600	--	1.0	--
10/14/1998	--		22.99	8.00	12.00	7.04	15.95	300,000	1,200	2,400	5,700	32,000	970	--	1.0	--
1/21/1999	--		22.99	8.00	12.00	6.50	16.49	120,000	860	1,500	2,600	14,000	<600	--	0.5	--
5/6/1999	--		22.99	8.00	12.00	6.90	16.09	49,000	670	1,400	2,500	11,000	170	--	1.03	--
8/23/1999	--		22.99	8.00	12.00	6.53	16.46	51,000	440	930	2,200	9,200	<150	--	0.67	--
10/28/1999	--		22.99	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	--		22.99	8.00	12.00	6.21	16.78	<50	<0.5	<0.5	<0.5	<1	650	--	1.61	--
6/20/2000	--		22.99	8.00	12.00	6.22	16.77	45,000	670	990	2,400	12,000	<500	--	--	--
9/29/2000	--		22.99	8.00	12.00	7.20	15.79	51,000	860	1,120	2,720	12,900	<250	--	--	--
12/17/2000	--		22.99	8.00	12.00	--	--	--	--	--	--	--	--	--	--	--
3/28/2001	--		22.99	8.00	12.00	6.10	16.89	43,500	804	<200	250	11,000	<1,000	--	--	--
6/20/2001	--		22.99	8.00	12.00	6.14	16.85	62,000	1,000	850	2,800	13,000	<2,500	--	--	--
9/22/2001	--		22.99	8.00	12.00	7.24	15.75	53,000	1,200	1,200	3,100	13,000	<1,000	--	--	--
12/27/2001	--		22.99	8.00	12.00	7.00	15.99	44,000	860	840	2,300	10,000	<250	--	--	--
3/15/2002	--		22.99	8.00	12.00	7.02	15.97	43,000	1,000	810	2,300	11,000	<250	--	--	--
4/18/2002	--		22.99	8.00	12.00	--	--	--	--	--	--	--	--	--	--	--
7/23/2002	P	d	22.99	8.00	12.00	7.22	15.77	45,000	750	570	2,100	10,000	<250	--	1	8
10/16/2002	P	d	22.99	8.00	12.00	7.54	15.45	42,000	780	620	2,500	11,000	<250	--	1.4	7.7
1/23/2003	P	g	22.99	8.00	12.00	6.85	16.14	68,000	580	500	3,300	16,000	<100	--	1.3	7
4/7/2003	--		22.99	8.00	12.00	7.05	15.94	48,000	620	450	2,200	11,000	<50	--	1.4	6.9
8/7/2003	--	m	--	8.00	12.00	6.89	--	35,000	360	250	1,700	8,100	<100	--	2.4	8.9
10/23/2003	P	m	22.99	8.00	12.00	7.05	15.94	36,000	340	250	1,700	8,300	<25	--	--	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-3 Cont.																
01/12/2004	NP		22.99	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	r	22.63	8.00	12.00	7.60	15.03	30,000	210	170	1,700	7,300	<50	--	1.6	7.8
07/01/2004	P	a	22.63	8.00	12.00	7.76	14.87	33,000	190	190	1,300	6,300	<50	--	2.3	7.4
11/04/2004	--	p	22.63	8.00	12.00	--	--	--	--	--	--	--	--	--	--	--
11/23/2004	P		22.63	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		22.63	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		22.63	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		22.63	8.00	12.00	5.97	16.66	41,000	260	190	1,800	8,600	<25	--	--	7.0
10/21/2005	P		22.63	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		22.63	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	a	22.63	8.00	12.00	5.35	17.28	42,000	130	110	1,700	6,500	<25	--	1.39	7.0
8/4/2006	P		22.63	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		22.63	8.00	12.00	6.66	15.97	48,000	180	120	1,500	7,100	<5.0	--	--	6.98
1/15/2007	P		22.63	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	a	22.63	8.00	12.00	6.13	16.50	73,000	120	140	2,200	9,900	<25	--	1.13	7.42
7/9/2007	P	a	22.63	8.00	12.00	6.82	15.81	42,000	110	110	1,700	7,100	<25	--	1.38	7.28
10/1/2007	P	a, o, t	22.63	8.00	12.00	6.85	15.78	48,000	100	100	1,700	7,700	<25	--	1.65	7.66
1/7/2008	--	p	22.63	8.00	12.00	--	--	--	--	--	--	--	--	--	--	--
4/1/2008	P	a	22.63	8.00	12.00	8.95	13.68	160,000	<100	<100	1,700	7,400	<100	--	0.96	7.03
7/23/2008	NP		22.63	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	a	22.63	8.00	12.00	7.15	15.48	98,000	<120	<120	2,000	8,000	<120	--	1.06	7.09
1/21/2009	P	a	22.63	8.00	12.00	6.79	15.84	51,000	<100	<100	2,300	9,000	<100	--	0.58	7.08
4/21/2009	P	a	22.63	8.00	12.00	5.80	16.83	720,000	52	<50	790	7,000	<50	--	1.38	7.14
7/21/2009	P	v	22.63	8.00	12.00	6.84	15.79	36,000	29	33	1,300	4,800	<25	--	11.15	7.35
1/12/2010	P		22.63	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		22.63	8.00	12.00	5.64	16.99	26,000	<25	<25	820	2,900	<25	--	1.16	6.8
7/22/2010	P		22.63	8.00	12.00	6.37	16.26	42,000	<25	<25	1,100	3,500	<25	--	0.38	6.9
MW-4																
6/10/1991	--	b	20.75	6.00	9.00	--	--	--	--	--	--	--	--	--	--	--
10/10/1991	--	b	20.75	6.00	9.00	--	--	15,000	5,300	1,500	470	1,300	--	--	--	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-4 Cont.																
3/23/1992	--	b	20.75	6.00	9.00	--	--	24,000	5,600	4,000	580	3,100	--	--	--	--
6/8/1992	--	b	20.75	6.00	9.00	--	--	5,700	2,000	170	92	270	--	--	--	--
9/15/1992	--	b	20.75	6.00	9.00	--	--	--	--	--	--	--	--	--	--	--
11/16/1992	--	b	20.75	6.00	9.00	--	--	--	--	--	--	--	--	--	--	--
2/16/1993	--		20.75	6.00	9.00	7.10	13.65	12,000	920	1,100	130	750	--	--	--	--
5/13/1993	--		20.75	6.00	9.00	7.02	13.73	19,000	2,900	2,800	360	1,900	--	--	--	--
8/17/1993	--		20.75	6.00	9.00	7.85	12.90	8,100	1,600	1,300	170	730	--	--	--	--
11/8/1993	--	b	20.75	6.00	9.00	--	--	2,000	540	110	10	240	--	--	--	--
2/14/1994	--	b	20.75	6.00	9.00	--	--	--	--	--	--	--	--	--	--	--
5/5/1994	--		20.75	6.00	9.00	7.73	13.02	1,900	510	78	31	150	--	--	--	--
8/4/1994	--	n	20.75	6.00	9.00	7.83	12.92	1,300	360	17	<5	190	--	--	--	--
11/20/1994	--		20.75	6.00	9.00	7.73	13.02	<50	2.9	0.5	<0.5	1.4	--	--	--	--
3/17/1995	--		20.75	6.00	9.00	6.65	14.10	16,000	1,800	970	310	2,500	--	--	--	--
6/1/1995	--		20.75	6.00	9.00	7.25	13.50	16,000	2,800	870	380	2,700	--	--	--	--
8/31/1995	--		20.75	6.00	9.00	7.75	13.00	9,000	2,000	270	270	1,400	<100	--	--	--
11/27/1995	--		20.75	6.00	9.00	7.87	12.88	3,800	890	130	130	550	--	--	--	--
2/22/1996	--		20.75	6.00	9.00	7.29	13.46	940	150	82	19	130	<20	--	--	--
5/20/1996	--		20.75	6.00	9.00	7.30	13.45	6,700	1,100	330	120	1,100	<100	--	--	--
8/26/1996	--		20.75	6.00	9.00	7.57	13.18	14,000	2,400	510	350	2,100	<100	--	--	--
11/20/1996	--		20.75	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	--		22.38	6.00	9.00	7.80	14.58	9,000	1,300	240	200	1,600	<60	--	--	--
8/19/1997	--	b	22.38	6.00	9.00	--	--	--	--	--	--	--	--	--	--	--
11/19/1997	--	b, j	22.38	6.00	9.00	--	--	3700	600	93	120	710	<60	--	--	--
2/19/1998	--		22.38	6.00	9.00	6.78	15.60	1,800	93	51	29	420	110	--	--	--
4/23/1998	--		22.38	6.00	9.00	6.47	15.91	6,500	700	110	180	1,300	93	--	0.5	--
7/27/1998	--		22.38	6.00	9.00	7.22	15.16	10,000	1,400	140	290	1,900	<120	--	1.5	--
10/14/1998	--		22.38	6.00	9.00	7.60	14.78	6,500	900	63	200	1,200	63	--	1	--
1/21/1999	--		22.38	6.00	9.00	7.43	14.95	1,700	140	22	56	320	13	--	0.5	--
5/6/1999	--		22.38	6.00	9.00	6.55	15.83	3,300	250	36	73	890	41	--	1.28	--
8/23/1999	--		22.38	6.00	9.00	7.16	15.22	7,400	500	73	230	1,700	57	--	0.89	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-4 Cont.																
10/28/1999	--		22.38	6.00	9.00	8.28	14.10	370	41	5.7	14	52	16	--	0.92	--
2/4/2000	--		22.38	6.00	9.00	8.23	14.15	310	33	7.5	11	65	8	--	2.43	--
6/20/2000	--		22.38	6.00	9.00	6.46	15.92	2,700	210	20	94	520	46	--	--	--
9/29/2000	--	b	22.38	6.00	9.00	--	--	--	--	--	--	--	--	--	--	--
12/17/2000	--	b	22.38	6.00	9.00	--	--	--	--	--	--	--	--	--	--	--
3/28/2001	--	b	22.38	6.00	9.00	7.49	14.89	--	--	--	--	--	--	--	--	--
6/20/2001	--		22.38	6.00	9.00	7.21	15.17	13,000	690	170	330	1,400	110	--	--	--
9/22/2001	--		22.38	6.00	9.00	7.43	14.95	6,700	650	110	410	1,800	100	--	--	--
12/27/2001	--		22.38	6.00	9.00	7.32	15.06	1,200	47	15	46	250	15	--	--	--
3/15/2002	--		22.38	6.00	9.00	7.43	14.95	490	34	7.4	26	110	12	--	--	--
4/18/2002	--		22.38	6.00	9.00	7.00	15.38	<50	0.57	0.83	<0.5	1.1	3.7	--	--	--
7/23/2002	NP	d	22.38	6.00	9.00	7.70	14.68	820	80	12	23	190	41	--	2.2	7.3
10/16/2002	NP	d	22.38	6.00	9.00	7.75	14.63	2,000	220	25	140	570	<25	--	1.8	7.6
1/23/2003	NP	g	22.38	6.00	9.00	7.11	15.27	<250	<2.5	<2.5	<2.5	8.8	5.9	--	1.7	7
4/7/2003	--		22.38	6.00	9.00	7.19	15.19	310	24	2.4	15	62	9.2	--	1.1	7.1
8/7/2003	--	m	22.38	6.00	9.00	7.45	14.93	3,000	280	<25	150	700	<25	--	1.2	6.8
10/23/2003	NP	m	22.38	6.00	9.00	7.59	14.79	1,700	150	7.6	83	320	12	--	--	--
01/12/2004	NP		22.38	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	r	23.32	6.00	9.00	7.38	15.94	1,500	160	<5.0	50	320	12	--	1.4	7.1
07/01/2004	NP		23.32	6.00	9.00	7.78	15.54	1,800	150	5.2	16	260	15	--	1.9	7.0
11/04/2004	NP		23.32	6.00	9.00	7.75	15.57	640	38	1.9	2.1	110	5.7	--	1.9	7.0
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		23.32	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		23.32	6.00	9.00	7.35	15.97	1,100	77	2.8	9.0	190	7.1	--	--	6.8
10/21/2005	NP		23.32	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		23.32	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		23.32	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		23.32	6.00	9.00	7.00	16.32	2,800	240	9.3	14	280	15	--	1.26	7.1
10/23/2006	P		23.32	6.00	9.00	7.33	15.99	2,100	200	7.8	17	150	16	--	--	7.08
1/15/2007	--		23.32	6.00	9.00	7.60	15.72	--	--	--	--	--	--	--	--	--
4/17/2007	NP		23.32	6.00	9.00	7.47	15.85	110	9.0	<1.0	1.0	4.5	3.5	--	3.79	7.25

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-4 Cont.																
7/9/2007	NP		23.32	6.00	9.00	7.55	15.77	1,400	130	5.4	14	96	14	--	3.55	7.40
10/1/2007	NP		23.32	6.00	9.00	7.69	15.63	1,300	120	6.4	12	91	11	--	3.08	7.42
1/7/2008	NP		23.32	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		23.32	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	--	c	23.32	6.00	9.00	7.36	15.96	--	--	--	--	--	--	--	--	--
10/22/2008	--	c	23.32	6.00	9.00	7.41	15.91	--	--	--	--	--	--	--	--	--
1/21/2009	--	c	23.32	6.00	9.00	7.39	15.93	--	--	--	--	--	--	--	--	--
4/21/2009	NP		23.32	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	--		23.32	6.00	9.00	7.18	16.14	--	--	--	--	--	--	--	--	--
1/12/2010	--		23.32	6.00	9.00	7.23	16.09	--	--	--	--	--	--	--	--	--
6/3/2010	P		23.32	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	--		23.32	6.00	9.00	7.34	15.98	--	--	--	--	--	--	--	--	--
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	--	--	--	--
10/10/1991	--	a	20.90	6.00	10.50	8.51	12.39	--	--	--	--	--	--	--	--	--
3/23/1992	--		20.90	6.00	10.50	6.06	14.84	150,000	24,000	31,000	4,400	23,000	--	--	--	--
6/8/1992	--		20.90	6.00	10.50	7.66	13.24	120,000	17,000	13,000	2,400	11,000	--	--	--	--
9/15/1992	--	l	20.90	6.00	10.50	8.40	12.50	--	--	--	--	--	--	--	--	--
11/16/1992	--		20.90	6.00	10.50	7.70	13.20	110,000	16,000	16,000	3,200	18,000	--	--	--	--
2/16/1993	--		20.90	6.00	10.50	5.64	15.26	150,000	12,000	15,000	3,000	17,000	--	--	--	--
5/13/1993	--	l	20.90	6.00	10.50	6.68	14.22	--	--	--	--	--	--	--	--	--
8/17/1993	--		20.90	6.00	10.50	7.49	13.41	87,000	15,000	8,500	1,900	11,000	--	--	--	--
11/8/1993	--		20.90	6.00	10.50	7.93	12.97	87,000	12,000	8,300	2,000	12,000	--	--	--	--
2/14/1994	--		20.90	6.00	10.50	6.49	14.41	46,000	7,300	5,300	940	5,200	--	--	--	--
5/5/1994	--		20.90	6.00	10.50	7.18	13.72	54,000	9,700	4,700	1,000	6,400	--	--	--	--
8/4/1994	--		20.90	6.00	10.50	7.83	13.07	57,000	14,000	3,200	1,200	7,200	--	--	--	--
11/20/1994	--		20.90	6.00	10.50	6.34	14.56	33,000	5,700	1,800	720	4,700	--	--	--	--
3/17/1995	--		20.90	6.00	10.50	5.51	15.39	48,000	6,400	2,000	740	5,100	--	--	--	--
6/1/1995	--		20.90	6.00	10.50	6.55	14.35	76,000	11,000	5,400	1,400	7,700	--	--	--	--
8/31/1995	--		20.90	6.00	10.50	6.80	14.10	53,000	12,000	1,600	1,000	6,000	<500	--	--	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-5 Cont.																
11/27/1995	--		20.90	6.00	10.50	7.13	13.77	43,000	7,900	3,300	950	4,900	--	--	--	--
2/22/1996	--		20.90	6.00	10.50	5.12	15.78	52,000	9,100	3,300	940	5,000	<500	--	--	--
5/20/1996	--		20.90	6.00	10.50	5.87	15.03	55,000	9,300	3,800	1,100	5,400	<500	--	--	--
8/26/1996	--		20.90	6.00	10.50	7.15	13.75	47,000	5,300	2,100	780	3,200	<300	--	--	--
11/20/1996	--		20.90	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	--		22.45	6.00	10.50	7.42	15.03	29,000	6,600	1,700	400	1,500	<600	--	--	--
8/19/1997	--		22.45	6.00	10.50	7.58	14.87	16,000	4,600	790	<50	1,300	<300	--	--	--
11/19/1997	--		22.45	6.00	10.50	7.58	14.87	22,000	5,800	1,300	380	1,300	<300	--	--	--
2/19/1998	--		22.45	6.00	10.50	4.65	17.80	40,000	5,100	3,800	620	2,900	<300	--	--	--
4/23/1998	--		22.45	6.00	10.50	6.25	16.20	45,000	8,000	4,000	970	4,200	<600	--	1.5	--
7/27/1998	--		22.45	6.00	10.50	6.71	15.74	30,000	8,000	2,000	590	1,900	<600	--	1.5	--
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	--		22.45	6.00	10.50	7.03	15.42	34,000	6,200	2,600	630	2,300	<600	--	2.5	--
5/6/1999	--		22.45	6.00	10.50	7.02	15.43	7,900	2,400	200	240	580	12	--	1.07	--
8/23/1999	--		22.45	6.00	10.50	7.04	15.41	25,000	5,800	2,300	570	2,000	67	--	1.04	--
10/28/1999	--		22.45	6.00	10.50	7.90	14.55	20,000	5,900	1,100	450	1,100	<250	--	0.87	--
2/4/2000	--		22.45	6.00	10.50	6.71	15.74	32,000	2,500	3,800	770	4,200	<75	--	2.33	--
6/20/2000	--		22.45	6.00	10.50	6.78	15.67	10,000	3,000	650	260	700	<200	--	--	--
9/29/2000	--	b	22.45	6.00	10.50	--	--	--	--	--	--	--	--	--	--	--
12/17/2000	--	b	22.45	6.00	10.50	--	--	--	--	--	--	--	--	--	--	--
3/28/2001	--		22.45	6.00	10.50	6.48	15.97	23,400	4,160	3,450	728	3,090	<250	--	--	--
6/20/2001	--		22.45	6.00	10.50	7.26	15.19	120,000	1,200	49	190	540	<100	--	--	--
9/22/2001	--	b	22.45	6.00	10.50	--	--	--	--	--	--	--	--	--	--	--
12/27/2001	--		22.45	6.00	10.50	6.56	15.89	16,000	1,500	2,700	730	3,200	<250	--	--	--
3/15/2002	--		22.45	6.00	10.50	6.90	15.55	20,000	2,600	3,300	1,000	4,000	<250	--	--	--
4/18/2002	--		22.45	6.00	10.50	6.17	16.28	17,000	3,200	2,900	790	3,000	<250	--	--	--
7/23/2002	NP	d	22.45	6.00	10.50	7.36	15.09	4,600	1,400	30	160	470	110	--	1.7	7.5
10/16/2002	NP	d	22.45	6.00	10.50	7.66	14.79	5,400	1,300	<20	62	150	<100	--	1.1	7.5
1/23/2003	NP	g	22.45	6.00	10.50	6.28	16.17	<5,000	110	<50	<50	98	<50	--	1.1	7.6
4/7/2003	--		22.45	6.00	10.50	7.21	15.24	1,600	310	18	36	62	32	--	1.5	7.2

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-5 Cont.																
8/7/2003	--	m	22.45	6.00	10.50	7.46	14.99	<50	1.8	<0.50	<0.50	<0.50	3.5	--	12.2	9
10/23/2003	NP	m	22.45	6.00	10.50	7.68	14.77	76	14	<0.50	0.77	0.61	12	--	--	--
01/12/2004	NP		22.45	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	r	23.47	6.00	10.50	8.12	15.35	300	53	13	12	29	12	--	8.9	8.5
07/01/2004	NP		23.47	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		23.47	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		23.47	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		23.47	6.00	10.50	5.67	17.80	1,800	130	5.9	54	350	40	--	2.0	6.8
08/02/2005	NP		23.47	6.00	10.50	5.94	17.53	3,800	210	7.3	250	520	19	--	--	6.9
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		23.47	6.00	10.50	5.55	17.92	5,100	580	14	210	420	30	--	0.62	6.8
04/28/2006	NP		23.47	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		23.47	6.00	10.50	6.51	16.96	3,800	380	7.6	34	140	14	--	0.82	6.9
10/23/2006	P		23.47	6.00	10.50	7.34	16.13	3,300	310	96	70	210	13	--	--	6.99
1/15/2007	P		23.47	6.00	10.50	6.67	16.80	5,600	320	300	220	820	10	--	1.03	7.03
4/17/2007	NP		23.47	6.00	10.50	6.72	16.75	3,400	200	12	160	250	5.9	--	2.25	7.11
7/9/2007	NP		23.47	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		23.47	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		23.47	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		23.47	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		23.47	6.00	10.50	7.16	16.31	2,900	210	<10	52	78	<10	--	1.4	7.03
10/22/2008	NP		23.47	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	a	23.47	6.00	10.50	7.26	16.21	2,300	51	<5.0	9.4	17	<5.0	--	0.19	7.18
4/21/2009	NP		23.47	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	--		23.47	6.00	10.50	7.57	15.90	--	--	--	--	--	--	--	--	--
1/12/2010	--		23.47	6.00	10.50	6.80	16.67	--	--	--	--	--	--	--	--	--
6/3/2010	P		23.47	6.00	10.50	6.38	17.09	6,200	140	18	78	110	<2.5	--	1.77	6.9
7/22/2010	--		23.47	6.00	10.50	7.08	16.39	--	--	--	--	--	--	--	--	--
MW-6																
6/10/1991	--	b	22.08	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-6 Cont.																
10/10/1991	--	b	22.08	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
3/23/1992	--		22.08	5.50	9.00	7.45	14.63	75,000	19,000	10,000	1,600	8,600	--	--	--	--
6/8/1992	--	b	22.08	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
9/15/1992	--	b	22.08	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
11/16/1992	--	b	22.08	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
2/16/1993	--		22.08	5.50	9.00	6.79	15.29	65,000	14,000	3,500	1,300	6,100	--	--	--	--
5/13/1993	--		22.08	5.50	9.00	7.73	14.35	36,000	8,200	870	1,000	5,200	--	--	--	--
8/17/1993	--	b	22.08	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
11/8/1993	--	b	22.08	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
2/14/1994	--		22.08	5.50	9.00	7.78	14.30	47,000	14,000	390	1,000	5,100	--	--	--	--
5/5/1994	--	n	22.08	5.50	9.00	8.24	13.84	45,000	14,000	<200	1,300	4,500	--	--	--	--
8/4/1994	--	b	22.08	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
11/20/1994	--	n	22.08	5.50	9.00	7.41	14.67	30,000	11,000	<100	1,200	2,300	--	--	--	--
3/17/1995	--	n	22.08	5.50	9.00	6.66	15.42	45,000	9,300	<100	1,900	3,600	--	--	--	--
6/1/1995	--		22.08	5.50	9.00	7.60	14.48	23,000	5,600	<50	1,300	1,900	--	--	--	--
8/31/1995	--		22.08	5.50	9.00	7.92	14.16	26,000	8,000	<100	1,900	900	<500	--	--	--
11/27/1995	--		22.08	5.50	9.00	8.21	13.87	6,700	1,800	<20	480	230	--	--	--	--
2/22/1996	--		22.08	5.50	9.00	6.21	15.87	17,000	3,100	69	810	1,500	<300	--	--	--
5/20/1996	--		22.08	5.50	9.00	7.07	15.01	16,000	3,700	<50	1,100	1,100	<300	--	--	--
8/26/1996	--		22.08	5.50	9.00	7.93	14.15	23,000	5,800	<50	2,000	560	<300	--	--	--
11/20/1996	--	j	22.08	5.50	9.00	8.02	14.06	11,000	3,300	<50	480	370	<300	--	--	--
3/24/1997	--		22.77	5.50	9.00	7.95	14.82	9,700	1,900	<20	800	270	<100	--	--	--
5/23/1997	--		22.77	5.50	9.00	8.17	14.60	16,000	4,300	<50	1,400	180	<300	--	--	--
8/19/1997	--	b	22.77	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
11/19/1997	--	b	22.77	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
2/19/1998	--		22.77	5.50	9.00	5.78	16.99	2,600	540	8	90	88	<30	--	--	--
4/23/1998	--		22.77	5.50	9.00	6.83	15.94	7,600	1,300	13	520	190	<60	--	0.5	--
7/27/1998	--		22.77	5.50	9.00	7.80	14.97	15,000	3,600	<25	1,100	230	<150	--	1	--
10/14/1998	--		22.77	5.50	9.00	8.31	14.46	8,700	2,400	<20	220	36	<120	--	2	--
1/21/1999	--		22.77	5.50	9.00	7.90	14.87	4,800	1,100	<25	340	79	<150	--	2	--
5/6/1999	--		22.77	5.50	9.00	7.70	15.07	1,300	240	2.3	85	19	5	--	1.18	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
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	--	b	22.77	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
2/4/2000	--		22.77	5.50	9.00	7.31	15.46	110	<0.5	0.6	1.5	1.9	11	--	1.1	--
6/20/2000	--	b	22.77	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
9/29/2000	--	b	22.77	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
12/17/2000	--	b	22.77	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
3/28/2001	--	b	22.77	5.50	9.00	7.57	15.20	--	--	--	--	--	--	--	--	--
6/20/2001	--	b	22.77	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
9/22/2001	--	b	22.77	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
12/27/2001	--		22.77	5.50	9.00	7.21	15.56	<50	2.6	0.57	1.1	1.6	<2.5	--	--	--
3/15/2002	--		22.77	5.50	9.00	7.51	15.26	2,100	380	8.6	110	17	<25	--	--	--
4/18/2002	--		22.77	5.50	9.00	6.89	15.88	2,200	440	12	96	14	52	--	--	--
7/23/2002	NP		22.77	5.50	9.00	8.50	14.27	--	--	--	--	--	--	--	--	--
10/16/2002	--	b	22.77	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
1/23/2003	--	g, h	22.77	5.50	9.00	--	--	<250	58	<2.5	6.2	3.8	17	--	2.1	--
1/23/2003	NP	g	22.77	5.50	9.00	8.05	14.72	<5,000	<50	<50	<50	<50	<50	--	2.1	6.4
4/7/2003	--		22.77	5.50	9.00	8.11	14.66	330	13	<0.50	2.7	8.6	15	--	2.2	6.9
8/7/2003	--	b	22.77	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
10/23/2003	NP		22.77	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
01/12/2004	NP		22.77	5.50	9.00	7.63	15.14	3,600	560	<25	120	<25	150	--	0.6	7.1
04/20/2004	NP	c, r	24.66	5.50	9.00	8.54	16.12	--	--	--	--	--	--	--	--	--
07/01/2004	--	b	24.66	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
11/04/2004	NP		24.66	5.50	9.00	8.10	16.56	4,900	580	<10	180	30	230	--	2.9	6.9
01/10/2005	NP		24.66	5.50	9.00	7.03	17.63	5,400	540	<25	150	46	240	--	1.29	6.9
04/14/2005	NP		24.66	5.50	9.00	6.85	17.81	3,600	410	5.2	100	25	210	--	2.7	--
08/02/2005	NP		24.66	5.50	9.00	7.28	17.38	4,300	340	<5.0	110	44	150	--	--	6.8
10/21/2005	NP		24.66	5.50	9.00	7.38	17.28	3,400	250	<5.0	80	20	110	--	2.38	6.8
01/04/2006	NP		24.66	5.50	9.00	7.20	17.46	2,800	270	4.0	75	14	130	--	1.07	7.3
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		24.66	5.50	9.00	7.50	17.16	2,200	93	<2.5	15	9.0	110	--	1.23	6.7
10/23/2006	--		24.66	5.50	9.00	8.48	16.18	--	--	--	--	--	--	--	--	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-6 Cont.																
1/15/2007	--		24.66	5.50	9.00	8.05	16.61	--	--	--	--	--	--	--	--	--
4/17/2007	NP		24.66	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		24.66	5.50	9.00	8.34	16.32	1,600	63	1.4	16	9.4	51	--	1.73	7.13
10/1/2007	--		24.66	5.50	9.00	8.60	16.06	--	--	--	--	--	--	--	--	--
1/7/2008	NP		24.66	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		24.66	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	--	b	24.66	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
10/22/2008	--	b	24.66	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
1/21/2009	--	b	24.66	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
4/21/2009	--	c	24.66	5.50	9.00	7.91	16.75	--	--	--	--	--	--	--	--	--
7/21/2009	--	b	24.66	5.50	9.00	--	--	--	--	--	--	--	--	--	--	--
1/12/2010	--		24.66	5.50	9.00	8.11	16.55	--	--	--	--	--	--	--	--	--
6/3/2010	--		24.66	5.50	9.00	7.45	17.21	--	--	--	--	--	--	--	--	--
7/22/2010	--		24.66	5.50	9.00	8.19	16.47	--	--	--	--	--	--	--	--	--
MW-7																
6/10/1991	--	b	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
10/10/1991	--	b	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
3/23/1992	--		22.89	8.00	10.00	8.20	14.69	270	10	0.5	3	13	--	--	--	--
6/8/1992	--	b	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
9/15/1992	--	b	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
11/16/1992	--	b	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
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	--		22.89	8.00	10.00	8.56	14.33	<50	0.8	<0.5	<0.5	<0.5	--	--	--	--
8/17/1993	--	b	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
11/8/1993	--	b	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
2/14/1994	--		22.89	8.00	10.00	8.80	14.09	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
5/5/1994	--		22.89	8.00	10.00	9.11	13.78	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
8/4/1994	--	b	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
11/20/1994	--		22.89	8.00	10.00	8.72	14.17	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
3/17/1995	--		22.89	8.00	10.00	7.68	15.21	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-7 Cont.																
6/1/1995	--		22.89	8.00	10.00	8.40	14.49	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
8/31/1995	--		22.89	8.00	10.00	9.09	13.80	<50	<0.5	<0.5	0.6	<0.5	<3	--	--	--
11/27/1995	--		22.89	8.00	10.00	9.15	13.74	<50	<0.5	<0.5	0.9	<0.5	--	--	--	--
2/22/1996	--		22.89	8.00	10.00	7.44	15.45	110	1.4	<0.5	3.8	3	<3	--	--	--
5/20/1996	--		22.89	8.00	10.00	8.47	14.42	--	--	--	--	--	--	--	--	--
8/26/1996	--		22.89	8.00	10.00	8.81	14.08	--	--	--	--	--	--	--	--	--
11/20/1996	--		22.89	8.00	10.00	9.17	13.72	--	--	--	--	--	--	--	--	--
3/24/1997	--		22.89	8.00	10.00	8.31	14.58	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
5/23/1997	--		22.89	8.00	10.00	9.26	13.63	--	--	--	--	--	--	--	--	--
8/19/1997	--	b	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
11/19/1997	--	b	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
2/19/1998	--		22.89	8.00	10.00	6.13	16.76	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
4/23/1998	--		22.89	8.00	10.00	7.44	15.45	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.5	--
7/27/1998	--		22.89	8.00	10.00	8.75	14.14	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--
10/14/1998	--		22.89	8.00	10.00	9.22	13.67	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--
1/21/1999	--		22.89	8.00	10.00	9.07	13.82	52	<0.5	<0.5	<0.5	0.27	<3	--	3.0	--
5/6/1999	--		22.89	8.00	10.00	8.32	14.57	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.83	--
8/23/1999	--		22.89	8.00	10.00	9.25	13.64	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.42	--
10/28/1999	--	b	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
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	--	b	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
9/29/2000	--	b	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
12/17/2000	--		22.89	8.00	10.00	8.93	13.96	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
3/28/2001	--		22.89	8.00	10.00	8.35	14.54	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
6/20/2001	--	b	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
9/22/2001	--	b	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
12/27/2001	--		22.89	8.00	10.00	8.42	14.47	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
3/15/2002	--		22.89	8.00	10.00	8.54	14.35	<50	1.3	2.6	1.1	5.4	<2.5	--	--	--
4/18/2002	--		22.89	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		22.89	8.00	10.00	9.51	13.38	--	--	--	--	--	--	--	--	--
10/16/2002	--	b	22.89	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-7 Cont.																
1/23/2003	NP	g	22.89	8.00	10.00	8.04	14.85	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	5.4	6.7
4/7/2003	--		22.89	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	--		22.89	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		22.89	8.00	10.00	9.22	13.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--
01/12/2004	NP		22.89	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	r	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
07/01/2004	--	b	25.46	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
11/04/2004	NP		25.46	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		25.46	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	--		25.46	8.00	10.00	7.95	17.51	--	--	--	--	--	--	--	--	--
08/02/2005	NP		25.46	8.00	10.00	8.40	17.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	6.8
10/21/2005	--		25.46	8.00	10.00	8.92	16.54	--	--	--	--	--	--	--	--	--
01/04/2006	--		25.46	8.00	10.00	8.62	16.84	--	--	--	--	--	--	--	--	--
04/28/2006	--		25.46	8.00	10.00	7.78	17.68	--	--	--	--	--	--	--	--	--
8/4/2006	NP		25.46	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	--		25.46	8.00	10.00	9.39	16.07	--	--	--	--	--	--	--	--	--
1/15/2007	--		25.46	8.00	10.00	9.06	16.40	--	--	--	--	--	--	--	--	--
4/17/2007	--		25.46	8.00	10.00	9.12	16.34	--	--	--	--	--	--	--	--	--
7/9/2007	NP	b	25.46	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
10/1/2007	--		25.46	8.00	10.00	9.60	15.86	--	--	--	--	--	--	--	--	--
1/7/2008	--		25.46	8.00	10.00	8.99	16.47	--	--	--	--	--	--	--	--	--
4/1/2008	--		25.46	8.00	10.00	8.35	17.11	--	--	--	--	--	--	--	--	--
7/23/2008	--	b	25.46	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
10/22/2008	--	b	25.46	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
1/21/2009	--		25.46	8.00	10.00	9.35	16.11	--	--	--	--	--	--	--	--	--
4/21/2009	--		25.46	8.00	10.00	8.72	16.74	--	--	--	--	--	--	--	--	--
7/21/2009	--	b	25.46	8.00	10.00	--	--	--	--	--	--	--	--	--	--	--
1/12/2010	--		25.46	8.00	10.00	9.11	16.35	--	--	--	--	--	--	--	--	--
6/3/2010	--		25.46	8.00	10.00	8.34	17.12	--	--	--	--	--	--	--	--	--
7/22/2010	--		25.46	8.00	10.00	9.13	16.33	--	--	--	--	--	--	--	--	--

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Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
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	--		20.97	6.50	10.50	8.87	12.10	2,800	31	6.1	4.5	3.9	--	--	--	--
3/23/1992	--	n	20.97	6.50	10.50	5.81	15.16	8,000	18	<5	320	42	--	--	--	--
6/8/1992	--	n	20.97	6.50	10.50	8.01	12.96	4,000	<10	<10	110	<10	--	--	--	--
9/15/1992	--	n	20.97	6.50	10.50	8.80	12.17	4,200	6.4	<5	120	<5	--	--	--	--
11/16/1992	--	n	20.97	6.50	10.50	8.19	12.78	2,600	4	<2.5	21	5.2	--	--	--	--
2/16/1993	--	n	20.97	6.50	10.50	5.84	15.13	8,700	<5	<5	200	<5	--	--	--	--
5/13/1993	--	n	20.97	6.50	10.50	6.93	14.04	2,300	<5	<5	42	<5	--	--	--	--
8/17/1993	--	n	20.97	6.50	10.50	7.87	13.10	1,700	1.8	<1.3	16	1.2	--	--	--	--
11/8/1993	--	n	20.97	6.50	10.50	8.31	12.66	1,200	2.4	<1	19	2.3	--	--	--	--
2/14/1994	--	n	20.97	6.50	10.50	7.00	13.97	3,600	3	<1	72	<1	--	--	--	--
5/5/1994	--	n	20.97	6.50	10.50	7.46	13.51	2,100	<2.5	<2.5	8.3	<2.5	--	--	--	--
8/4/1994	--	n	20.97	6.50	10.50	8.17	12.80	1,200	1.5	<1	6.7	<1	--	--	--	--
11/20/1994	--		20.97	6.50	10.50	6.78	14.19	2,300	1.2	1.1	20	2.2	--	--	--	--
3/17/1995	--	n	20.97	6.50	10.50	6.14	14.83	5,400	<5	<5	35	<5	--	--	--	--
6/1/1995	--		20.97	6.50	10.50	6.50	14.47	2,600	<2.5	<2.5	15	<2.5	--	--	--	--
8/31/1995	--		20.97	6.50	10.50	7.35	13.62	1,400	<3	<3	5	<3	520	--	--	--
11/27/1995	--		20.97	6.50	10.50	7.60	13.37	620	<0.5	<0.5	<0.5	0.5	560	--	--	--
2/22/1996	--		20.97	6.50	10.50	5.35	15.62	5,800	<5	<5	28	<5	110	--	--	--
5/20/1996	--		20.97	6.50	10.50	5.92	15.05	6,100	<5	<5	26	<5	240	--	--	--
8/26/1996	--		20.97	6.50	10.50	7.08	13.89	970	<1	<1	3	<1	710	--	--	--
11/20/1996	--		20.97	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	--		20.89	6.50	10.50	7.55	13.34	730	<5	<5	<5	<5	630	--	--	--
8/19/1997	--		20.89	6.50	10.50	7.87	13.02	<500	<5	<5	<5	<5	290	--	--	--
11/19/1997	--		20.89	6.50	10.50	7.87	13.02	<200	<2	<2	<2	<2	260	--	--	--
2/19/1998	--		20.89	6.50	10.50	4.46	16.43	2,000	<2	<2	9	<2	140	--	--	--
4/23/1998	--		20.89	6.50	10.50	6.35	14.54	4,500	<5	<5	<5	11	590	--	0.5	--
7/27/1998	--		20.89	6.50	10.50	7.43	13.46	--	--	--	--	--	--	--	--	--
10/14/1998	--		20.89	6.50	10.50	7.79	13.10	--	--	--	--	--	--	--	--	--
1/21/1999	--		20.89	6.50	10.50	6.54	14.35	2,000	<2	<2	3	<2	320	--	2.5	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-8 Cont.																
5/6/1999	--		20.89	6.50	10.50	7.30	13.59	<50	<0.5	<0.5	<0.5	<0.5	160	--	12.76	--
8/23/1999	--		20.89	6.50	10.50	7.45	13.44	<50	<0.5	<0.5	<0.5	<0.5	5	--	7.85	--
10/28/1999	--		20.89	6.50	10.50	8.22	12.67	160	<0.5	<0.5	<0.5	<1	45	--	0.84	--
2/4/2000	--		20.89	6.50	10.50	8.47	12.42	<50	<0.5	<0.5	<0.5	<1	<3	--	1.92	--
6/20/2000	--		20.89	6.50	10.50	7.23	13.66	150	<0.5	0.9	<0.5	<1.0	310	--	--	--
9/29/2000	--		20.89	6.50	10.50	7.91	12.98	149	<0.5	<0.5	<0.5	<0.5	438	--	--	--
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	--		20.89	6.50	10.50	6.88	14.01	840	<5.0	<5.0	<5.0	<5.0	320	--	--	--
6/20/2001	--		20.89	6.50	10.50	7.25	13.64	230	<0.5	<0.5	<0.5	0.65	330	--	--	--
9/22/2001	--		20.89	6.50	10.50	8.14	12.75	<50	<0.5	<0.5	<0.5	<0.5	6.5	--	--	--
12/27/2001	--		20.89	6.50	10.50	6.73	14.16	780	<0.5	<0.5	0.6	0.89	160	--	--	--
3/15/2002	--		20.89	6.50	10.50	6.94	13.95	1,100	<10	<10	<10	<10	830	--	--	--
4/18/2002	--		20.89	6.50	10.50	--	--	--	--	--	--	--	--	--	--	--
7/23/2002	NP		20.89	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		20.89	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	g	20.89	6.50	10.50	6.47	14.42	<50	<0.50	<0.50	<0.50	<0.50	2.6	--	4.0	7.5
4/7/2003	--		20.89	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	--	m	20.89	6.50	10.50	7.93	12.96	<50	<0.50	<0.50	<0.50	<0.50	0.96	--	14.8	8.3
10/23/2003	NP		20.89	6.50	10.50	7.83	13.06	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	--	--
01/12/2004	NP		20.89	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	r	23.55	6.50	10.50	8.21	15.34	55	<0.50	<0.50	<0.50	<0.50	25	--	10.1	8.7
07/01/2004	NP		23.55	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		23.55	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		23.55	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	--		23.55	6.50	10.50	5.74	17.81	--	--	--	--	--	--	--	--	--
08/02/2005	NP		23.55	6.50	10.50	6.60	16.95	<50	<0.50	<0.50	<0.50	<0.50	16	--	--	7.1
10/21/2005	--	Well inaccessible p	23.55	6.50	10.50	--	--	--	--	--	--	--	--	--	--	--
01/04/2006	--		23.55	6.50	10.50	4.97	18.58	--	--	--	--	--	--	--	--	--
04/28/2006	--		23.55	6.50	10.50	5.67	17.88	--	--	--	--	--	--	--	--	--
8/4/2006	NP		23.55	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	--		23.55	6.50	10.50	7.74	15.81	--	--	--	--	--	--	--	--	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-8 Cont.																
1/15/2007	--		23.55	6.50	10.50	7.04	16.51	--	--	--	--	--	--	--	--	--
4/17/2007	--		23.55	6.50	10.50	6.94	16.61	--	--	--	--	--	--	--	--	--
7/9/2007	NP		23.55	6.50	10.50	7.71	15.84	<50	<0.50	<0.50	<0.50	<0.50	17	--	1.90	7.25
10/1/2007	--		23.55	6.50	10.50	8.00	15.55	--	--	--	--	--	--	--	--	--
1/7/2008	--		23.55	6.50	10.50	5.79	17.76	--	--	--	--	--	--	--	--	--
4/1/2008	--		23.55	6.50	10.50	6.89	16.66	--	--	--	--	--	--	--	--	--
7/23/2008	NP		23.55	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	--		23.55	6.50	10.50	8.19	15.36	--	--	--	--	--	--	--	--	--
1/21/2009	--		23.55	6.50	10.50	7.75	15.80	--	--	--	--	--	--	--	--	--
4/21/2009	--		23.55	6.50	10.50	6.66	16.89	--	--	--	--	--	--	--	--	--
7/21/2009	P		23.55	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	--		23.55	6.50	10.50	6.89	16.66	--	--	--	--	--	--	--	--	--
6/3/2010	--		23.55	6.50	10.50	6.45	17.10	--	--	--	--	--	--	--	--	--
7/22/2010	NP		23.55	6.50	10.50	7.21	16.34	<50	<0.50	<0.50	<0.50	<0.50	4.3	--	1.05	7.39
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	--		20.89	6.00	19.50	8.53	12.36	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
11/8/1993	--		20.89	6.00	19.50	8.87	12.02	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
2/14/1994	--		20.89	6.00	19.50	7.47	13.42	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
5/5/1994	--		20.89	6.00	19.50	8.04	12.85	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
8/4/1994	--		20.89	6.00	19.50	8.78	12.11	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
11/20/1994	--		20.89	6.00	19.50	6.83	14.06	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
3/17/1995	--		20.89	6.00	19.50	6.94	13.95	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
6/1/1995	--		20.89	6.00	19.50	8.15	12.74	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
8/31/1995	--		20.89	6.00	19.50	8.10	12.79	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--
11/27/1995	--		20.89	6.00	19.50	8.38	12.51	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
2/22/1996	--		20.89	6.00	19.50	7.36	13.53	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--
5/20/1996	--		20.89	6.00	19.50	7.81	13.08	--	--	--	--	--	--	--	--	--
8/26/1996	--		20.89	6.00	19.50	8.00	12.89	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--
11/20/1996	--		20.89	6.00	19.50	7.06	13.83	--	--	--	--	--	--	--	--	--

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Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-9 Cont.																
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	--		22.26	6.00	19.50	8.28	13.98	--	--	--	--	--	--	--	--	--
8/19/1997	--		22.26	6.00	19.50	8.32	13.94	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--
11/19/1997	--		22.26	6.00	19.50	8.32	13.94	--	--	--	--	--	--	--	--	--
2/19/1998	--		22.26	6.00	19.50	7.11	15.15	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--
4/23/1998	--		22.26	6.00	19.50	8.18	14.08	--	--	--	--	--	--	--	--	--
7/27/1998	--		22.26	6.00	19.50	7.97	14.29	<50	<0.50	<0.50	<0.50	<0.50	<3	--	3.6	--
10/14/1998	--		22.26	6.00	19.50	8.29	13.97	<50	<0.50	<0.50	<0.50	<0.50	<3	--	2.5	--
1/21/1999	--		22.26	6.00	19.50	7.63	14.63	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.5	--
5/6/1999	--		22.26	6.00	19.50	7.27	14.99	--	--	--	--	--	--	--	--	--
8/23/1999	--		22.26	6.00	19.50	8.24	14.02	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.93	--
10/28/1999	--		22.26	6.00	19.50	8.63	13.63	--	--	--	--	--	--	--	--	--
2/4/2000	--		22.26	6.00	19.50	8.01	14.25	<50	<0.50	1.6	<0.50	<1	<3	--	1.47	--
6/20/2000	--		22.26	6.00	19.50	8.01	14.25	--	--	--	--	--	--	--	--	--
9/29/2000	--		22.26	6.00	19.50	8.44	13.82	<50	<0.5	<0.5	<0.5	<0.5	3.44	--	--	--
12/17/2000	--		22.26	6.00	19.50	7.84	14.42	--	--	--	--	--	--	--	--	--
3/28/2001	--		22.26	6.00	19.50	7.58	14.68	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
6/20/2001	--		22.26	6.00	19.50	7.75	14.51	--	--	--	--	--	--	--	--	--
9/22/2001	--		22.26	6.00	19.50	8.69	13.57	<50	<0.5	<0.5	<0.5	<0.5	7.8	--	--	--
12/27/2001	--		22.26	6.00	19.50	7.15	15.11	--	--	--	--	--	--	--	--	--
3/15/2002	--		22.26	6.00	19.50	7.23	15.03	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
4/18/2002	--		22.26	6.00	19.50	6.79	15.47	--	--	--	--	--	--	--	--	--
7/23/2002	P		22.26	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	--		22.26	6.00	19.50	8.64	13.62	--	--	--	--	--	--	--	--	--
1/23/2003	P	g	22.26	6.00	19.50	7.35	14.91	<50	<0.50	<0.50	<0.50	<0.50	2.2	--	3.0	7.2
4/7/2003	--		22.26	6.00	19.50	7.81	14.45	--	--	--	--	--	--	--	--	--
8/7/2003	--		22.26	6.00	19.50	8.31	13.95	--	--	--	--	--	--	--	--	--
10/23/2003	--		22.26	6.00	19.50	8.48	13.78	--	--	--	--	--	--	--	--	--
01/12/2004	--		22.26	6.00	19.50	7.46	14.80	--	--	--	--	--	--	--	--	--
04/20/2004	--	r	23.64	6.00	19.50	8.65	14.99	--	--	--	--	--	--	--	--	--
07/01/2004	P		23.64	6.00	19.50	9.03	14.61	<50	<0.50	<0.50	<0.50	<0.50	3.2	--	1.3	6.9

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Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-9 Cont.																
11/04/2004	--		23.64	6.00	19.50	7.60	16.04	--	--	--	--	--	--	--	--	--
01/10/2005	--		23.64	6.00	19.50	6.24	17.40	--	--	--	--	--	--	--	--	--
04/14/2005	--		23.64	6.00	19.50	6.90	16.74	--	--	--	--	--	--	--	--	--
08/02/2005	NP		23.64	6.00	19.50	7.60	16.04	<50	<0.50	<0.50	<0.50	<0.50	3.8	--	--	7.0
10/21/2005	--		23.64	6.00	19.50	8.09	15.55	--	--	--	--	--	--	--	--	--
01/04/2006	--		23.64	6.00	19.50	6.15	17.49	--	--	--	--	--	--	--	--	--
04/28/2006	--		23.64	6.00	19.50	6.95	16.69	--	--	--	--	--	--	--	--	--
8/4/2006	NP		23.64	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	--		23.64	6.00	19.50	8.30	15.34	--	--	--	--	--	--	--	--	--
1/15/2007	--		23.64	6.00	19.50	8.82	14.82	--	--	--	--	--	--	--	--	--
4/17/2007	--		23.64	6.00	19.50	7.89	15.75	--	--	--	--	--	--	--	--	--
7/9/2007	NP		23.64	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	--		23.64	6.00	19.50	8.50	15.14	--	--	--	--	--	--	--	--	--
1/7/2008	--		23.64	6.00	19.50	8.38	15.26	--	--	--	--	--	--	--	--	--
4/1/2008	--		23.64	6.00	19.50	7.92	15.72	--	--	--	--	--	--	--	--	--
7/23/2008	NP		23.64	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	--		23.64	6.00	19.50	8.71	14.93	--	--	--	--	--	--	--	--	--
1/21/2009	--		23.64	6.00	19.50	8.30	15.34	--	--	--	--	--	--	--	--	--
4/21/2009	--		23.64	6.00	19.50	7.84	15.80	--	--	--	--	--	--	--	--	--
7/21/2009	NP		23.64	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	--		23.64	6.00	19.50	7.61	16.03	--	--	--	--	--	--	--	--	--
6/3/2010	--		23.64	6.00	19.50	7.62	16.02	--	--	--	--	--	--	--	--	--
7/22/2010	NP	w	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
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	--		21.12	6.00	16.50	8.54	12.58	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
11/8/1993	--		21.12	6.00	16.50	8.70	12.42	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
2/14/1994	--		21.12	6.00	16.50	7.13	13.99	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
5/5/1994	--		21.12	6.00	16.50	8.08	13.04	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
8/4/1994	--		21.12	6.00	16.50	8.84	12.28	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-10 Cont.																
11/20/1994	--		21.12	6.00	16.50	7.05	14.07	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
3/17/1995	--		21.12	6.00	16.50	6.26	14.86	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
6/1/1995	--		21.12	6.00	16.50	7.63	13.49	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
8/31/1995	--		21.12	6.00	16.50	8.17	12.95	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--
11/27/1995	--		21.12	6.00	16.50	8.38	12.74	<50	<0.50	<0.50	<0.50	<0.50	--	--	--	--
2/22/1996	--		21.12	6.00	16.50	5.41	15.71	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--
5/20/1996	--		21.12	6.00	16.50	6.78	14.34	--	--	--	--	--	--	--	--	--
8/26/1996	--		21.12	6.00	16.50	8.00	13.12	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--
11/20/1996	--		21.12	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	--		21.33	6.00	16.50	8.33	13.00	--	--	--	--	--	--	--	--	--
8/19/1997	--		21.33	6.00	16.50	8.39	12.94	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--
11/19/1997	--		21.33	6.00	16.50	8.39	12.94	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--
2/19/1998	--		21.33	6.00	16.50	4.65	16.68	<50	<0.50	<0.50	<0.50	<0.50	<3	--	--	--
4/23/1998	--		21.33	6.00	16.50	6.28	15.05	<50	<0.50	<0.50	<0.50	<0.50	<3	--	0.5	--
7/27/1998	--		21.33	6.00	16.50	7.97	13.36	<50	<0.50	<0.50	<0.50	<0.50	<3	--	3.3	--
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	--		21.33	6.00	16.50	6.65	14.68	<50	<0.50	<0.50	<0.50	<0.50	<3	--	0.5	--
5/6/1999	--		21.33	6.00	16.50	7.74	13.59	<50	<0.50	<0.50	<0.50	<0.50	<3	--	0.76	--
8/23/1999	--		21.33	6.00	16.50	8.37	12.96	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.21	--
10/28/1999	--		21.33	6.00	16.50	8.73	12.60	<50	<0.50	<0.50	<0.50	<0.50	<3	--	1.12	--
2/4/2000	--		21.33	6.00	16.50	8.78	12.55	<50	<0.50	<0.50	<0.50	<0.50	<3	--	2.84	--
6/20/2000	--		21.33	6.00	16.50	7.99	13.34	<0.5	<0.5	<0.5	<0.5	<0.5	<3.0	--	--	--
9/29/2000	--		21.33	6.00	16.50	8.40	12.93	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
12/17/2000	--		21.33	6.00	16.50	7.91	13.42	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
3/28/2001	--		21.33	6.00	16.50	7.47	13.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
6/20/2001	--		21.33	6.00	16.50	8.11	13.22	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
9/22/2001	--		21.33	6.00	16.50	8.77	12.56	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
12/27/2001	--		21.33	6.00	16.50	6.94	14.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
3/15/2002	--		21.33	6.00	16.50	7.48	13.85	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
4/18/2002	--		21.33	6.00	16.50	6.77	14.56	<50	<0.5	<0.5	<0.5	<0.5	3.8	--	1.22	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-10 Cont.																
7/23/2002	NP		21.33	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		21.33	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	g	21.33	6.00	16.50	7.12	14.21	<50	<0.50	<0.50	<0.50	<0.50	1.4	--	1.3	7.4
4/7/2003	--		21.33	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	--		21.33	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	--		21.33	6.00	16.50	8.71	12.62	--	--	--	--	--	--	--	--	--
01/12/2004	NP		21.33	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	--	r	23.42	6.00	16.50	8.15	15.27	--	--	--	--	--	--	--	--	--
07/01/2004	NP		23.42	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	--		23.42	6.00	16.50	7.68	15.74	--	--	--	--	--	--	--	--	--
01/10/2005	NP		23.42	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	--		23.42	6.00	16.50	6.68	16.74	--	--	--	--	--	--	--	--	--
08/02/2005	NP		23.42	6.00	16.50	7.54	15.88	<50	<0.50	<0.50	<0.50	<0.50	1.7	--	--	7.1
10/21/2005	--		23.42	6.00	16.50	8.12	15.30	--	--	--	--	--	--	--	--	--
01/04/2006	NP		23.42	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	--		23.42	6.00	16.50	6.65	16.77	--	--	--	--	--	--	--	--	--
8/4/2006	NP		23.42	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	--		23.42	6.00	16.50	8.23	15.19	--	--	--	--	--	--	--	--	--
1/15/2007	P		23.42	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	--		23.42	6.00	16.50	7.74	15.68	--	--	--	--	--	--	--	--	--
7/9/2007	NP		23.42	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	--		23.42	6.00	16.50	8.74	14.68	--	--	--	--	--	--	--	--	--
1/7/2008	NP		23.42	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	--		23.42	6.00	16.50	8.97	14.45	--	--	--	--	--	--	--	--	--
7/23/2008	NP		23.42	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	--		23.42	6.00	16.50	9.02	14.40	--	--	--	--	--	--	--	--	--
1/21/2009	P		23.42	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	--		23.42	6.00	16.50	8.15	15.27	--	--	--	--	--	--	--	--	--
7/21/2009	NP		23.42	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		23.42	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	--		23.42	6.00	16.50	7.53	15.89	--	--	--	--	--	--	--	--	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-10 Cont.																
7/22/2010	NP		23.42	6.00	16.50	8.24	15.18	<50	<0.50	<0.50	<0.50	<0.50	1.6	--	--	--
MW-11																
11/16/1992	--	n	22.38	7.00	12.00	9.02	13.36	7,000	21	<10	18	230	--	--	--	--
2/16/1993	--	n	22.38	7.00	12.00	7.11	15.27	2,200	<10	<10	11	<10	--	--	--	--
5/13/1993	--	n	22.38	7.00	12.00	8.04	14.34	1,600	<2.5	<2.5	41	6.8	--	--	--	--
8/17/1993	--	n	22.38	7.00	12.00	8.78	13.60	830	1.4	<1.0	25	15	--	--	--	--
11/8/1993	--	n	22.38	7.00	12.00	9.23	13.15	370	<1.0	<1.0	2.5	2.1	--	--	--	--
2/14/1994	--	n	22.38	7.00	12.00	7.94	14.44	650	<1	<1.0	2	4	--	--	--	--
5/5/1994	--		22.38	7.00	12.00	8.55	13.83	210	<0.5	<0.5	2.5	0.6	--	--	--	--
8/4/1994	--	n	22.38	7.00	12.00	9.13	13.25	390	<0.5	<0.7	1.9	2.2	--	--	--	--
11/20/1994	--		22.38	7.00	12.00	7.73	14.65	1,300	1.3	0.5	1.5	21	--	--	--	--
3/17/1995	--		22.38	7.00	12.00	6.94	15.44	100	<0.5	<0.5	<0.5	<0.5	--	--	--	--
6/1/1995	--		22.38	7.00	12.00	7.90	14.48	210	<0.5	<0.5	0.9	0.7	--	--	--	--
8/31/1995	--		22.38	7.00	12.00	8.18	14.20	680	<0.5	<0.5	4	1.8	<3	--	--	--
11/27/1995	--		22.38	7.00	12.00	8.48	13.90	340	<0.5	<0.5	2.2	1.6	--	--	--	--
2/22/1996	--		22.38	7.00	12.00	6.63	15.75	150	<0.5	<0.5	<0.8	<0.8	<3	--	--	--
5/20/1996	--		22.38	7.00	12.00	7.25	15.13	--	--	--	--	--	--	--	--	--
8/26/1996	--		22.38	7.00	12.00	8.22	14.16	--	--	--	--	--	--	--	--	--
11/20/1996	--		22.38	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	--		20.97	7.00	12.00	8.48	12.49	--	--	--	--	--	--	--	--	--
8/19/1997	--		20.97	7.00	12.00	8.67	12.30	--	--	--	--	--	--	--	--	--
11/19/1997	--		20.97	7.00	12.00	8.67	12.30	--	--	--	--	--	--	--	--	--
2/19/1998	--		20.97	7.00	12.00	6.25	14.72	<50	<0.5	1.6	<0.5	1.8	7	--	--	--
4/23/1998	--		20.97	7.00	12.00	7.23	13.74	--	--	--	--	--	--	--	--	--
7/27/1998	--		20.97	7.00	12.00	8.05	12.92	--	--	--	--	--	--	--	--	--
10/14/1998	--		20.97	7.00	12.00	8.58	12.39	--	--	--	--	--	--	--	--	--
1/21/1999	--		20.97	7.00	12.00	8.25	12.72	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.5	--
5/6/1999	--		20.97	7.00	12.00	7.95	13.02	--	--	--	--	--	--	--	--	--
8/23/1999	--		20.97	7.00	12.00	8.51	12.46	--	--	--	--	--	--	--	0.86	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-11 Cont.																
10/28/1999	--		20.97	7.00	12.00	8.95	12.02	--	--	--	--	--	--	--	--	--
2/4/2000	--		20.97	7.00	12.00	7.88	13.09	<50	<0.5	<0.5	<0.5	<1	<3	--	3.29	--
6/20/2000	--		20.97	7.00	12.00	8.18	12.79	--	--	--	--	--	--	--	--	--
9/29/2000	--		20.97	7.00	12.00	8.60	12.37	--	--	--	--	--	--	--	--	--
12/17/2000	--		20.97	7.00	12.00	8.48	12.49	--	--	--	--	--	--	--	--	--
3/28/2001	--		20.97	7.00	12.00	7.88	13.09	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
6/20/2001	--		20.97	7.00	12.00	8.48	12.49	--	--	--	--	--	--	--	--	--
9/22/2001	--		20.97	7.00	12.00	9.11	11.86	--	--	--	--	--	--	--	--	--
12/27/2001	--		20.97	7.00	12.00	7.50	13.47	--	--	--	--	--	--	--	--	--
3/15/2002	--		20.97	7.00	12.00	7.87	13.10	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
4/18/2002	--		20.97	7.00	12.00	7.22	13.75	--	--	--	--	--	--	--	--	--
7/23/2002	--		20.97	7.00	12.00	8.76	12.21	--	--	--	--	--	--	--	--	--
10/16/2002	--		20.97	7.00	12.00	9.15	11.82	--	--	--	--	--	--	--	--	--
1/23/2003	P	g	20.97	7.00	12.00	7.61	13.36	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.4	7.4
4/7/2003	--		20.97	7.00	12.00	8.25	12.72	--	--	--	--	--	--	--	--	--
8/7/2003	--		20.97	7.00	12.00	8.84	12.13	--	--	--	--	--	--	--	--	--
10/23/2003	--		20.97	7.00	12.00	9.09	11.88	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--
01/12/2004	--		20.97	7.00	12.00	7.70	13.27	--	--	--	--	--	--	--	--	--
04/20/2004	--	r	24.97	7.00	12.00	9.18	15.79	--	--	--	--	--	--	--	--	--
07/01/2004	P	o	24.97	7.00	12.00	9.90	15.07	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.8	7.01
11/04/2004	--		24.97	7.00	12.00	8.21	16.76	--	--	--	--	--	--	--	--	--
01/10/2005	--		24.97	7.00	12.00	6.94	18.03	--	--	--	--	--	--	--	--	--
04/14/2005	--		24.97	7.00	12.00	6.77	18.20	--	--	--	--	--	--	--	--	--
08/02/2005	--		24.97	7.00	12.00	7.57	17.40	--	--	--	--	--	--	--	--	--
10/21/2005	--		24.97	7.00	12.00	8.08	16.89	--	--	--	--	--	--	--	--	--
01/04/2006	--		24.97	7.00	12.00	7.20	17.77	--	--	--	--	--	--	--	--	--
04/28/2006	--		24.97	7.00	12.00	6.90	18.07	--	--	--	--	--	--	--	--	--
8/4/2006	--		24.97	7.00	12.00	8.32	16.65	--	--	--	--	--	--	--	--	--
10/23/2006	--		24.97	7.00	12.00	8.75	16.22	--	--	--	--	--	--	--	--	--
1/15/2007	--		24.97	7.00	12.00	8.19	16.78	--	--	--	--	--	--	--	--	--
4/17/2007	--		24.97	7.00	12.00	8.32	16.65	--	--	--	--	--	--	--	--	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-11 Cont.																
7/9/2007	--		24.97	7.00	12.00	8.73	16.24	--	--	--	--	--	--	--	--	--
10/1/2007	--		24.97	7.00	12.00	8.65	16.32	--	--	--	--	--	--	--	--	--
1/7/2008	--		24.97	7.00	12.00	7.52	17.45	--	--	--	--	--	--	--	--	--
4/1/2008	--		24.97	7.00	12.00	8.18	16.79	--	--	--	--	--	--	--	--	--
7/23/2008	--		24.97	7.00	12.00	9.27	15.70	--	--	--	--	--	--	--	--	--
10/22/2008	--		24.97	7.00	12.00	9.11	15.86	--	--	--	--	--	--	--	--	--
1/21/2009	--		24.97	7.00	12.00	8.72	16.25	--	--	--	--	--	--	--	--	--
4/21/2009	--		24.97	7.00	12.00	8.22	16.75	--	--	--	--	--	--	--	--	--
7/21/2009	--		24.97	7.00	12.00	8.98	15.99	--	--	--	--	--	--	--	--	--
1/12/2010	--		24.97	7.00	12.00	8.39	16.58	--	--	--	--	--	--	--	--	--
6/3/2010	--		24.97	7.00	12.00	7.77	17.20	--	--	--	--	--	--	--	--	--
7/22/2010	--		24.97	7.00	12.00	8.41	16.56	--	--	--	--	--	--	--	--	--
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	--		22.77	7.50	12.50	7.88	14.89	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
5/13/1993	--		22.77	7.50	12.50	8.63	14.14	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
8/17/1993	--		22.77	7.50	12.50	9.30	13.47	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
11/8/1993	--		22.77	7.50	12.50	9.72	13.05	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
2/14/1994	--		22.77	7.50	12.50	8.24	14.53	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
5/5/1994	--		22.77	7.50	12.50	8.97	13.80	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
8/4/1994	--		22.77	7.50	12.50	9.57	13.20	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
11/20/1994	--		22.77	7.50	12.50	8.06	14.71	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
3/17/1995	--		22.77	7.50	12.50	7.09	15.68	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
6/1/1995	--		22.77	7.50	12.50	8.40	14.37	--	--	--	--	--	--	--	--	--
8/31/1995	--		22.77	7.50	12.50	8.55	14.22	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
11/27/1995	--		22.77	7.50	12.50	8.95	13.82	--	--	--	--	--	--	--	--	--
2/22/1996	--		22.77	7.50	12.50	6.81	15.96	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
5/20/1996	--		22.77	7.50	12.50	7.56	15.21	--	--	--	--	--	--	--	--	--
8/26/1996	--		22.77	7.50	12.50	8.63	14.14	--	--	--	--	--	--	--	--	--
11/20/1996	--		22.77	7.50	12.50	8.38	14.39	--	--	--	--	--	--	--	--	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-12 Cont.																
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	--		20.11	7.50	12.50	8.92	11.19	--	--	--	--	--	--	--	--	--
8/19/1997	--		20.11	7.50	12.50	9.20	10.91	--	--	--	--	--	--	--	--	--
11/19/1997	--		20.11	7.50	12.50	9.20	10.91	--	--	--	--	--	--	--	--	--
2/19/1998	--		20.11	7.50	12.50	6.28	13.83	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
4/23/1998	--		20.11	7.50	12.50	7.52	12.59	--	--	--	--	--	--	--	--	--
7/27/1998	--		20.11	7.50	12.50	8.52	11.59	--	--	--	--	--	--	--	--	--
10/14/1998	--		20.11	7.50	12.50	9.06	11.05	--	--	--	--	--	--	--	--	--
1/21/1999	--		20.11	7.50	12.50	8.20	11.91	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--
5/6/1999	--		20.11	7.50	12.50	8.47	11.64	--	--	--	--	--	--	--	--	--
8/23/1999	--		20.11	7.50	12.50	9.04	11.07	--	--	--	--	--	--	--	0.85	--
10/28/1999	--		20.11	7.50	12.50	9.40	10.71	--	--	--	--	--	--	--	--	--
2/4/2000	--		20.11	7.50	12.50	8.38	11.73	<50	<0.5	<0.5	<0.5	<1	<3	--	3.34	--
6/20/2000	--		20.11	7.50	12.50	8.55	11.56	--	--	--	--	--	--	--	--	--
9/29/2000	--		20.11	7.50	12.50	8.98	11.13	--	--	--	--	--	--	--	--	--
12/17/2000	--		20.11	7.50	12.50	8.76	11.35	--	--	--	--	--	--	--	--	--
3/28/2001	--		20.11	7.50	12.50	8.31	11.80	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
6/20/2001	--		20.11	7.50	12.50	9.10	11.01	--	--	--	--	--	--	--	--	--
9/22/2001	--		20.11	7.50	12.50	9.48	10.63	--	--	--	--	--	--	--	--	--
12/27/2001	--		20.11	7.50	12.50	7.78	12.33	--	--	--	--	--	--	--	--	--
3/15/2002	--		20.11	7.50	12.50	8.22	11.89	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
4/18/2002	--		20.11	7.50	12.50	7.65	12.46	--	--	--	--	--	--	--	--	--
7/23/2002	--		20.11	7.50	12.50	9.18	10.93	--	--	--	--	--	--	--	--	--
10/16/2002	--		20.11	7.50	12.50	9.51	10.60	--	--	--	--	--	--	--	--	--
1/23/2003	--		20.11	7.50	12.50	7.86	12.25	--	--	--	--	--	--	--	--	--
4/7/2003	--		20.11	7.50	12.50	8.58	11.53	--	--	--	--	--	--	--	--	--
8/7/2003	--		20.11	7.50	12.50	9.23	10.88	--	--	--	--	--	--	--	--	--
10/23/2003	P		20.11	7.50	12.50	9.44	10.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--
01/12/2004	--		20.11	7.50	12.50	8.08	12.03	--	--	--	--	--	--	--	--	--
04/20/2004	--	r	25.32	7.50	12.50	9.28	16.04	--	--	--	--	--	--	--	--	--
07/01/2004	P		25.32	7.50	12.50	9.65	15.67	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.8	7.0

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Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-12 Cont.																
11/04/2004	--		25.32	7.50	12.50	8.53	16.79	--	--	--	--	--	--	--	--	--
01/10/2005	--		25.32	7.50	12.50	7.04	18.28	--	--	--	--	--	--	--	--	--
04/14/2005	--		25.32	7.50	12.50	6.95	18.37	--	--	--	--	--	--	--	--	--
08/02/2005	--		25.32	7.50	12.50	8.05	17.27	--	--	--	--	--	--	--	--	--
10/21/2005	--		25.32	7.50	12.50	8.70	16.62	--	--	--	--	--	--	--	--	--
01/04/2006	--		25.32	7.50	12.50	10.00	15.32	--	--	--	--	--	--	--	--	--
04/28/2006	--		25.32	7.50	12.50	7.19	18.13	--	--	--	--	--	--	--	--	--
8/4/2006	--		25.32	7.50	12.50	8.80	16.52	--	--	--	--	--	--	--	--	--
10/23/2006	--		25.32	7.50	12.50	9.17	16.15	--	--	--	--	--	--	--	--	--
1/15/2007	--		25.32	7.50	12.50	8.57	16.75	--	--	--	--	--	--	--	--	--
4/17/2007	--		25.32	7.50	12.50	8.68	16.64	--	--	--	--	--	--	--	--	--
7/9/2007	--		25.32	7.50	12.50	9.18	16.14	--	--	--	--	--	--	--	--	--
10/1/2007	--		25.32	7.50	12.50	9.45	15.87	--	--	--	--	--	--	--	--	--
1/7/2008	--		25.32	7.50	12.50	7.58	17.74	--	--	--	--	--	--	--	--	--
4/1/2008	--		25.32	7.50	12.50	8.57	16.75	--	--	--	--	--	--	--	--	--
7/23/2008	--		25.32	7.50	12.50	9.34	15.98	--	--	--	--	--	--	--	--	--
10/22/2008	--		25.32	7.50	12.50	9.64	15.68	--	--	--	--	--	--	--	--	--
1/21/2009	--		25.32	7.50	12.50	9.25	16.07	--	--	--	--	--	--	--	--	--
4/21/2009	--		25.32	7.50	12.50	8.66	16.66	--	--	--	--	--	--	--	--	--
7/21/2009	--		25.32	7.50	12.50	9.42	15.90	--	--	--	--	--	--	--	--	--
1/12/2010	--		25.32	7.50	12.50	8.86	16.46	--	--	--	--	--	--	--	--	--
6/3/2010	--		25.32	7.50	12.50	8.20	17.12	--	--	--	--	--	--	--	--	--
7/22/2010	--		25.32	7.50	12.50	8.90	16.42	--	--	--	--	--	--	--	--	--
MW-13																
11/16/1992	--		22.45	--	13.00	9.02	13.43	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
2/16/1993	--		22.45	--	13.00	7.14	15.31	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
5/13/1993	--		22.45	--	13.00	7.95	14.50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
8/17/1993	--		22.45	--	13.00	8.57	13.88	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
11/8/1993	--		22.45	--	13.00	8.86	13.59	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
2/14/1994	--		22.45	--	13.00	7.78	14.67	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--

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Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-13 Cont.																
5/5/1994	--		22.45	--	13.00	8.38	14.07	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
8/4/1994	--		22.45	--	13.00	8.78	13.67	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
11/20/1994	--		22.45	--	13.00	7.68	14.77	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
3/17/1995	--		22.45	--	13.00	6.91	15.54	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
6/1/1995	--		22.45	--	13.00	7.72	14.73	--	--	--	--	--	--	--	--	--
8/31/1995	--		22.45	--	13.00	7.58	14.87	--	--	--	--	--	--	--	--	--
11/27/1995	--		22.45	--	13.00	7.98	14.47	--	--	--	--	--	--	--	--	--
2/22/1996	--		22.45	--	13.00	6.71	15.74	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
5/20/1996	--		22.45	--	13.00	6.98	15.47	--	--	--	--	--	--	--	--	--
8/26/1996	--		22.45	--	13.00	7.85	14.60	--	--	--	--	--	--	--	--	--
11/20/1996	--		22.45	--	13.00	7.76	14.69	--	--	--	--	--	--	--	--	--
3/24/1997	--		20.75	--	13.00	7.85	12.90	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
5/23/1997	--		20.75	--	13.00	8.16	12.59	--	--	--	--	--	--	--	--	--
8/19/1997	--		20.75	--	13.00	8.40	12.35	--	--	--	--	--	--	--	--	--
11/19/1997	--		20.75	--	13.00	8.40	12.35	--	--	--	--	--	--	--	--	--
2/19/1998	--		20.75	--	13.00	6.44	14.31	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
4/23/1998	--		20.75	--	13.00	6.80	13.95	--	--	--	--	--	--	--	--	--
7/27/1998	--		20.75	--	13.00	7.52	13.23	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--
10/14/1998	--		20.75	--	13.00	8.15	12.60	<50	<0.5	<0.5	<0.5	<0.5	<3	--	2.0	--
1/21/1999	--		20.75	--	13.00	7.85	12.90	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--
5/6/1999	--		20.75	--	13.00	7.82	12.93	--	--	--	--	--	--	--	--	--
8/23/1999	--		20.75	--	13.00	8.29	12.46	--	--	--	--	--	--	--	0.94	--
10/28/1999	--		20.75	--	13.00	8.55	12.20	--	--	--	--	--	--	--	--	--
2/4/2000	--		20.75	--	13.00	8.11	12.64	<50	<0.5	0.6	<0.5	<1	<3	--	1.27	--
6/20/2000	--		20.75	--	13.00	7.56	13.19	--	--	--	--	--	--	--	--	--
9/29/2000	--		20.75	--	13.00	8.27	12.48	--	--	--	--	--	--	--	--	--
12/17/2000	--		20.75	--	13.00	8.09	12.66	--	--	--	--	--	--	--	--	--
3/28/2001	--		20.75	--	13.00	7.69	13.06	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
6/20/2001	--		20.75	--	13.00	8.46	12.29	--	--	--	--	--	--	--	--	--
9/22/2001	--		20.75	--	13.00	8.57	12.18	--	--	--	--	--	--	--	--	--
12/27/2001	--		20.75	--	13.00	7.14	13.61	--	--	--	--	--	--	--	--	--

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Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-13 Cont.																
3/15/2002	--		20.75	--	13.00	7.62	13.13	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
4/18/2002	--		20.75	--	13.00	6.91	13.84	--	--	--	--	--	--	--	--	--
7/23/2002	--		20.75	--	13.00	8.50	12.25	--	--	--	--	--	--	--	--	--
10/16/2002	--		20.75	--	13.00	8.74	12.01	--	--	--	--	--	--	--	--	--
1/23/2003	P	g	20.75	--	13.00	7.35	13.40	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	3.4	7.0
4/7/2003	--		20.75	--	13.00	7.99	12.76	--	--	--	--	--	--	--	--	--
8/7/2003	--		20.75	--	13.00	8.60	12.15	--	--	--	--	--	--	--	--	--
10/23/2003	P		20.75	--	13.00	8.55	12.20	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--
01/12/2004	--		20.75	--	13.00	7.56	13.19	--	--	--	--	--	--	--	--	--
04/20/2004	--	r	25.01	--	13.00	4.57	20.44	--	--	--	--	--	--	--	--	--
07/01/2004	P		25.01	--	13.00	8.71	16.30	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	2.4	6.9
11/04/2004	--		25.01	--	13.00	7.79	17.22	--	--	--	--	--	--	--	--	--
01/10/2005	--		25.01	--	13.00	6.80	18.21	--	--	--	--	--	--	--	--	--
04/14/2005	--		25.01	--	13.00	6.88	18.13	--	--	--	--	--	--	--	--	--
08/02/2005	--		25.01	--	13.00	7.15	17.86	--	--	--	--	--	--	--	--	--
10/21/2005	--		25.01	--	13.00	7.96	17.05	--	--	--	--	--	--	--	--	--
01/04/2006	--		25.01	--	13.00	7.64	17.37	--	--	--	--	--	--	--	--	--
04/28/2006	--		25.01	--	13.00	6.97	18.04	--	--	--	--	--	--	--	--	--
8/4/2006	--		25.01	--	13.00	8.18	16.83	--	--	--	--	--	--	--	--	--
10/23/2006	--		25.01	--	13.00	8.51	16.50	--	--	--	--	--	--	--	--	--
1/15/2007	--		25.01	--	13.00	7.91	17.10	--	--	--	--	--	--	--	--	--
4/17/2007	--		25.01	--	13.00	8.04	16.97	--	--	--	--	--	--	--	--	--
7/9/2007	--		25.01	--	13.00	8.50	16.51	--	--	--	--	--	--	--	--	--
10/1/2007	--		25.01	--	13.00	8.72	16.29	--	--	--	--	--	--	--	--	--
1/7/2008	--		25.01	--	13.00	8.27	16.74	--	--	--	--	--	--	--	--	--
4/1/2008	--		25.01	--	13.00	7.88	17.13	--	--	--	--	--	--	--	--	--
7/23/2008	--		25.01	--	13.00	6.40	18.61	--	--	--	--	--	--	--	--	--
10/22/2008	--		25.01	--	13.00	8.86	16.15	--	--	--	--	--	--	--	--	--
1/21/2009	--		25.01	--	13.00	8.54	16.47	--	--	--	--	--	--	--	--	--
4/21/2009	--		25.01	--	13.00	7.96	17.05	--	--	--	--	--	--	--	--	--
7/21/2009	--		25.01	--	13.00	8.77	16.24	--	--	--	--	--	--	--	--	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-13 Cont.																
1/12/2010	--		25.01	--	13.00	8.21	16.80	--	--	--	--	--	--	--	--	--
6/3/2010	--		25.01	--	13.00	7.51	17.50	--	--	--	--	--	--	--	--	--
7/22/2010	--		25.01	--	13.00	8.18	16.83	--	--	--	--	--	--	--	--	--
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	--		22.99	7.50	13.50	10.33	12.66	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
2/16/1993	--		22.99	7.50	13.50	8.18	14.81	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
5/13/1993	--		22.99	7.50	13.50	9.05	13.94	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
8/17/1993	--		22.99	7.50	13.50	22.99	0.00	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
11/8/1993	--		22.99	7.50	13.50	10.25	12.74	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
2/14/1994	--		22.99	7.50	13.50	8.80	14.19	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
5/5/1994	--		22.99	7.50	13.50	9.49	13.50	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
8/4/1994	--		22.99	7.50	13.50	10.11	12.88	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
11/20/1994	--		22.99	7.50	13.50	8.66	14.33	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
3/17/1995	--		22.99	7.50	13.50	8.17	14.82	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
6/1/1995	--		22.99	7.50	13.50	8.57	14.42	--	--	--	--	--	--	--	--	--
8/31/1995	--		22.99	7.50	13.50	9.05	13.94	--	--	--	--	--	--	--	--	--
11/27/1995	--		22.99	7.50	13.50	9.19	13.80	--	--	--	--	--	--	--	--	--
2/22/1996	--		22.99	7.50	13.50	6.52	16.47	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
5/20/1996	--		22.99	7.50	13.50	7.88	15.11	--	--	--	--	--	--	--	--	--
8/26/1996	--		22.99	7.50	13.50	8.83	14.16	--	--	--	--	--	--	--	--	--
11/20/1996	--		22.99	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	--		20.90	7.50	13.50	9.61	11.29	--	--	--	--	--	--	--	--	--
8/19/1997	--		20.90	7.50	13.50	9.80	11.10	--	--	--	--	--	--	--	--	--
11/19/1997	--		20.90	7.50	13.50	9.80	11.10	<50	1.7	<0.5	0.6	3	<3	--	--	--
2/19/1998	--		20.90	7.50	13.50	6.27	14.63	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
4/23/1998	--		20.90	7.50	13.50	7.75	13.15	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.5	--
7/27/1998	--		20.90	7.50	13.50	9.24	11.66	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.0	--
10/14/1998	--		20.90	7.50	13.50	9.73	11.17	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.0	--

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Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-14 Cont.																
1/21/1999	--		20.90	7.50	13.50	8.90	12.00	<50	<0.5	<0.5	<0.5	<0.5	<3	--	1.5	--
5/6/1999	--		20.90	7.50	13.50	8.98	11.92	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.73	--
8/23/1999	--		20.90	7.50	13.50	9.68	11.22	<50	<0.5	<0.5	<0.5	<0.5	<3	--	0.91	--
10/28/1999	--		20.90	7.50	13.50	10.00	10.90	<50	<0.5	<0.5	<0.5	<1	<10	--	1.06	--
2/4/2000	--		20.90	7.50	13.50	8.19	12.71	<50	<0.5	0.5	<0.5	<1	<3	--	1.21	--
6/20/2000	--		20.90	7.50	13.50	9.16	11.74	<50	<0.5	<0.5	<0.5	<1.0	<10	--	--	--
9/29/2000	--		20.90	7.50	13.50	9.48	11.42	<50	<0.5	<0.5	<0.5	<0.5	<2.50	--	--	--
12/17/2000	--		20.90	7.50	13.50	9.24	11.66	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
3/28/2001	--		20.90	7.50	13.50	8.91	11.99	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
6/20/2001	--		20.90	7.50	13.50	9.70	11.20	<50	<0.5	<0.5	<0.5	<0.5	3.1	--	--	--
9/22/2001	--		20.90	7.50	13.50	10.04	10.86	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
12/27/2001	--		20.90	7.50	13.50	8.33	12.57	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
3/15/2002	--		20.90	7.50	13.50	8.75	12.15	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
4/18/2002	--		20.90	7.50	13.50	8.21	12.69	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
7/23/2002	NP		20.90	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		20.90	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	g	20.90	7.50	13.50	8.41	12.49	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.3	7.1
4/7/2003	--		20.90	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	--		20.90	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		20.90	7.50	13.50	10.04	10.86	--	--	--	--	--	--	--	--	--
01/12/2004	P		20.90	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	--	r	25.55	7.50	13.50	9.62	15.93	--	--	--	--	--	--	--	--	--
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	--		25.55	7.50	13.50	9.13	16.42	--	--	--	--	--	--	--	--	--
01/10/2005	NP		25.55	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	--		25.55	7.50	13.50	7.70	17.85	--	--	--	--	--	--	--	--	--
08/02/2005	NP		25.55	7.50	13.50	8.73	16.82	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	6.9
10/21/2005	--		25.55	7.50	13.50	9.47	16.08	--	--	--	--	--	--	--	--	--
01/04/2006	--		25.55	7.50	13.50	6.92	18.63	--	--	--	--	--	--	--	--	--
04/28/2006	--		25.55	7.50	13.50	7.71	17.84	--	--	--	--	--	--	--	--	--
8/4/2006	NP		25.55	7.50	13.50	9.32	16.23	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	0.95	6.8

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								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-14 Cont.																
10/23/2006	--		25.55	7.50	13.50	9.66	15.89	--	--	--	--	--	--	--	--	--
1/15/2007	--		25.55	7.50	13.50	9.05	16.50	--	--	--	--	--	--	--	--	--
4/17/2007	--		25.55	7.50	13.50	9.16	16.39	--	--	--	--	--	--	--	--	--
7/9/2007	NP		25.55	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	--		25.55	7.50	13.50	9.95	15.60	--	--	--	--	--	--	--	--	--
1/7/2008	--		25.55	7.50	13.50	8.74	16.81	--	--	--	--	--	--	--	--	--
4/1/2008	--		25.55	7.50	13.50	9.13	16.42	--	--	--	--	--	--	--	--	--
7/23/2008	NP		25.55	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	--		25.55	7.50	13.50	10.20	15.35	--	--	--	--	--	--	--	--	--
1/21/2009	--		25.55	7.50	13.50	9.81	15.74	--	--	--	--	--	--	--	--	--
4/21/2009	--		25.55	7.50	13.50	9.22	16.33	--	--	--	--	--	--	--	--	--
7/21/2009	NP		25.55	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	--		25.55	7.50	13.50	9.31	16.24	--	--	--	--	--	--	--	--	--
6/3/2010	--		25.55	7.50	13.50	8.71	16.84	--	--	--	--	--	--	--	--	--
7/22/2010	NP		25.55	7.50	13.50	9.45	16.10	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	--
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	--		19.19	5.50	10.50	6.54	12.65	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
11/8/1993	--		19.19	5.50	10.50	6.98	12.21	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
2/14/1994	--		19.19	5.50	10.50	5.44	13.75	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
5/5/1994	--		19.19	5.50	10.50	6.18	13.01	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
8/4/1994	--		19.19	5.50	10.50	6.84	12.35	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
11/20/1994	--		19.19	5.50	10.50	5.31	13.88	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
3/17/1995	--		19.19	5.50	10.50	5.21	13.98	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--
6/1/1995	--		19.19	5.50	10.50	5.84	13.35	--	--	--	--	--	--	--	--	--
8/31/1995	--		19.19	5.50	10.50	6.18	13.01	<50	<0.5	<0.5	<0.5	<0.5	<3	--	--	--
11/27/1995	--		19.19	5.50	10.50	6.42	12.77	--	--	--	--	--	--	--	--	--
2/22/1996	--		19.19	5.50	10.50	4.84	14.35	<50	<0.5	<0.5	<0.5	<0.5	12	--	--	--
5/20/1996	--		19.19	5.50	10.50	5.31	13.88	--	--	--	--	--	--	--	--	--
8/26/1996	--		19.19	5.50	10.50	6.05	13.14	<50	<0.5	<0.5	<0.5	<0.5	8	--	--	--

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Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-15 Cont.																
11/20/1996	--		19.19	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	--		22.08	5.50	10.50	6.25	15.83	--	--	--	--	--	--	--	--	--
8/19/1997	--	j	22.08	5.50	10.50	6.34	15.74	99	<0.5	<0.5	<0.5	0.7	6	--	--	--
11/19/1997	--		22.08	5.50	10.50	6.34	15.74	--	--	--	--	--	--	--	--	--
2/19/1998	--		22.08	5.50	10.50	4.66	17.42	<50	<0.5	<0.5	<0.5	<0.5	48	--	--	--
4/23/1998	--		22.08	5.50	10.50	5.18	16.90	--	--	--	--	--	--	--	--	--
7/27/1998	--		22.08	5.50	10.50	6.02	16.06	<50	<0.5	<0.5	<0.5	<0.5	50	--	1.0	--
10/14/1998	--		22.08	5.50	10.50	6.26	15.82	<50	<0.5	<0.5	<0.5	<0.5	27	--	1.5	--
1/21/1999	--		22.08	5.50	10.50	5.33	16.75	<50	<0.5	<0.5	<0.5	<0.5	6	--	1.0	--
5/6/1999	--		22.08	5.50	10.50	5.82	16.26	--	--	--	--	--	--	--	--	--
8/23/1999	--		22.08	5.50	10.50	6.24	15.84	<50	<0.5	<0.5	<0.5	<0.5	21	--	1.14	--
10/28/1999	--		22.08	5.50	10.50	6.60	15.48	--	--	--	--	--	--	--	--	--
2/4/2000	--		22.08	5.50	10.50	7.02	15.06	<50	<0.5	<0.5	<0.5	<1	<3	--	1.09	--
6/20/2000	--		22.08	5.50	10.50	5.98	16.10	--	--	--	--	--	--	--	--	--
9/29/2000	--		22.08	5.50	10.50	6.50	15.58	<50	<0.5	<0.5	<0.5	<0.5	<2.50	--	--	--
12/17/2000	--		22.08	5.50	10.50	5.89	16.19	--	--	--	--	--	--	--	--	--
3/28/2001	--		22.08	5.50	10.50	5.78	16.30	<50	<0.5	<0.5	<0.5	<0.5	11.1	--	--	--
6/20/2001	--		22.08	5.50	10.50	5.72	16.36	--	--	--	--	--	--	--	--	--
9/22/2001	--		22.08	5.50	10.50	6.79	15.29	<50	<0.5	<0.5	<0.5	<0.5	13	--	--	--
12/27/2001	--		22.08	5.50	10.50	5.49	16.59	--	--	--	--	--	--	--	--	--
3/15/2002	--		22.08	5.50	10.50	5.68	16.40	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--
4/18/2002	--		22.08	5.50	10.50	4.85	17.23	--	--	--	--	--	--	--	--	--
7/23/2002	P		22.08	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	--		22.08	5.50	10.50	6.69	15.39	--	--	--	--	--	--	--	--	--
1/23/2003	P	g	22.08	5.50	10.50	5.70	16.38	<50	<0.50	<0.50	<0.50	<0.50	1.9	--	2.6	7.5
4/7/2003	--		22.08	5.50	10.50	5.94	16.14	--	--	--	--	--	--	--	--	--
8/7/2003	--		22.08	5.50	10.50	6.32	15.76	--	--	--	--	--	--	--	--	--
10/23/2003	--		22.08	5.50	10.50	6.56	15.52	--	--	--	--	--	--	--	--	--
01/12/2004	--		22.08	5.50	10.50	5.71	16.37	--	--	--	--	--	--	--	--	--
04/20/2004	--	r	21.72	5.50	10.50	7.10	14.62	--	--	--	--	--	--	--	--	--

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-15 Cont.																
07/01/2004	P		21.72	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	--		21.72	5.50	10.50	5.90	15.82	--	--	--	--	--	--	--	--	--
01/10/2005	--		21.72	5.50	10.50	5.30	16.42	--	--	--	--	--	--	--	--	--
04/14/2005	--		21.72	5.50	10.50	5.40	16.32	--	--	--	--	--	--	--	--	--
08/02/2005	P		21.72	5.50	10.50	5.33	16.39	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--	6.5
10/21/2005	--		21.72	5.50	10.50	5.92	15.80	--	--	--	--	--	--	--	--	--
01/04/2006	--		21.72	5.50	10.50	5.19	16.53	--	--	--	--	--	--	--	--	--
04/28/2006	--		21.72	5.50	10.50	5.45	16.27	--	--	--	--	--	--	--	--	--
8/4/2006	P		21.72	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	--		21.72	5.50	10.50	6.36	15.36	--	--	--	--	--	--	--	--	--
1/15/2007	--		21.72	5.50	10.50	6.00	15.72	--	--	--	--	--	--	--	--	--
4/17/2007	--		21.72	5.50	10.50	5.98	15.74	--	--	--	--	--	--	--	--	--
7/9/2007	NP		21.72	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	--		21.72	5.50	10.50	6.53	15.19	--	--	--	--	--	--	--	--	--
1/7/2008	--		21.72	5.50	10.50	6.12	15.60	--	--	--	--	--	--	--	--	--
4/1/2008	--		21.72	5.50	10.50	5.92	15.80	--	--	--	--	--	--	--	--	--
7/23/2008	NP		21.72	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	--		21.72	5.50	10.50	6.69	15.03	--	--	--	--	--	--	--	--	--
1/21/2009	--		21.72	5.50	10.50	6.22	15.50	--	--	--	--	--	--	--	--	--
4/21/2009	--		21.72	5.50	10.50	5.79	15.93	--	--	--	--	--	--	--	--	--
7/21/2009	NP		21.72	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	--		21.72	5.50	10.50	5.93	15.79	--	--	--	--	--	--	--	--	--
6/3/2010	--		21.72	5.50	10.50	5.79	15.93	--	--	--	--	--	--	--	--	--
7/22/2010	P		21.72	5.50	10.50	6.25	15.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	1.11	7.30
MW-16																
7/21/2009	P		22.89	--	--	12.90	9.99	1,500	2.3	13	36	300	0.68	--	14.83	7.71
1/12/2010	P		22.89	--	--	6.67	16.22	1,700	6.8	4.3	71	48	<0.50	--	1.24	6.8
6/3/2010	P		22.89	--	--	6.13	16.76	4,100	28	9.2	420	170	<1.0	--	--	7.10
7/22/2010	NP		22.89	--	--	6.83	16.06	6,400	34	13	570	210	<1.0	--	0.68	6.95

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

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

Well and Sample Date	P/NP	Comments	TOC (feet)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	DTW (feet bgs)	Water Level Elevation (feet)	Concentrations in (µg/L)							DO (mg/L)	pH
								GRO/TPHg	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MtBE	Semi-VOCs		
MW-17																
7/21/2009	P		23.42	--	--	7.58	15.84	3,700	61	160	150	1,300	2.8	--	11.48	7.57
1/12/2010	P		23.42	--	--	6.98	16.44	11,000	110	72	1,100	1,600	<10	--	1.02	6.80
6/3/2010	P		23.42	--	--	6.37	17.05	19,000	140	45	1,200	2,600	<25	--	1.26	6.99
7/22/2010	NP		23.42	--	--	7.05	16.37	21,000	160	63	1,300	2,800	<25	--	0.50	7.00
MW-18																
7/21/2009	P		24.48	--	--	8.73	15.75	290	1.1	<0.50	8.0	1.4	4.8	--	14.25	7.69
1/12/2010	P		24.48	--	--	7.95	16.53	1,000	2.4	<1.0	57	<1.0	5.8	--	1.79	6.8
6/3/2010	--		24.48	--	--	7.33	17.15	--	--	--	--	--	--	--	--	--
7/22/2010	NP	w	24.48	--	--	8.02	16.46	760	3.5	<0.50	27	<0.50	5.1	--	0.71	7.09
MW-19																
7/21/2009	P		25.10	--	--	9.34	15.76	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	13.65	8.03
1/12/2010	--		25.10	--	--	6.75	18.35	--	--	--	--	--	--	--	--	--
6/3/2010	--		25.10	--	--	8.14	16.96	--	--	--	--	--	--	--	--	--

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.

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.

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

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-1									
1/23/2003	<4,000	<2,000	<50	<50	<50	<50	<50	<50	
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	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-2									
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	
MW-3									
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	
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	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-3 Cont.									
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	
MW-4									
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	
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

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-4 Cont.									
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									
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	
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	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-5 Cont.									
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-6									
1/23/2003	<200	<100	17	<2.5	<2.5	<2.5	<2.5	<2.5	a
1/23/2003	<4,000	<2,000	<50	<50	<50	<50	<50	<50	
4/7/2003	<100	<20	15	<0.5	<0.5	2.1	<0.5	<0.50	
01/12/2004	<5,000	<1,000	150	<50	<50	<50	<25	<25	
11/04/2004	<2,000	<400	230	<10	<10	58	<10	<10	
01/10/2005	<5,000	<1,000	240	<25	<25	65	<25	<25	
04/14/2005	<1,000	<200	210	<5.0	<5.0	56	<5.0	<5.0	
08/02/2005	<1,000	<200	150	<5.0	<5.0	44	<5.0	<5.0	
10/21/2005	<1,000	<200	110	<5.0	<5.0	47	<5.0	<5.0	
01/04/2006	<500	<100	130	<2.5	<2.5	42	<2.5	<2.5	b
04/28/2006	<1,500	<100	170	<2.5	<2.5	59	<2.5	<2.5	
8/4/2006	<1,500	<100	110	<2.5	<2.5	39	<2.5	<2.5	
10/23/2006	--	--	--	--	--	--	--	--	g
1/15/2007	--	--	--	--	--	--	--	--	g
4/17/2007	<600	<40	24	<1.0	<1.0	8.2	<1.0	<1.0	
7/9/2007	<300	<20	51	<0.50	<0.50	21	<0.50	<0.50	
1/7/2008	<300	<20	37	<0.50	<0.50	17	<0.50	<0.50	
4/1/2008	<300	<10	1.4	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2008	--	--	--	--	--	--	--	--	g
10/22/2008	--	--	--	--	--	--	--	--	g

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-7									
1/23/2003	<40	<20	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	
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	
10/23/2003	--	<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	
04/20/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
11/04/2004	<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	
7/23/2008	--	--	--	--	--	--	--	--	g
MW-8									
1/23/2003	<40	<20	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	
4/7/2003	<100	<20	19	<0.50	<0.50	<0.50	<0.50	<0.50	
8/7/2003	<100	<20	0.96	<0.50	<0.50	<0.50	<0.50	<0.50	
10/23/2003	--	<20	2.2	<0.50	<0.50	<0.50	<0.50	<0.50	
01/12/2004	<100	<20	13	<1.0	<1.0	<1.0	<0.50	<0.50	
04/20/2004	<100	<20	25	<0.50	<0.50	<0.50	<0.50	<0.50	
07/01/2004	<100	<20	2.1	<0.50	<0.50	<0.50	<0.50	<0.50	
11/04/2004	<100	<20	13	<0.50	<0.50	<0.50	<0.50	<0.50	
01/10/2005	<100	<20	10	<0.50	<0.50	<0.50	<0.50	<0.50	
08/02/2005	<100	<20	16	<0.50	<0.50	<0.50	<0.50	<0.50	
10/21/2005	--	--	--	--	--	--	--	--	Well inaccessible
8/4/2006	<300	<20	16	<0.50	<0.50	<0.50	<0.50	<0.50	
7/9/2007	<300	<20	17	<0.50	<0.50	<0.50	<0.50	<0.50	
7/23/2008	<300	<10	8.6	<0.50	<0.50	<0.50	<0.50	<0.50	
7/21/2009	<300	<10	3.3	<0.50	<0.50	<0.50	<0.50	<0.50	
7/22/2010	<300	<10	4.3	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-9									
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	
MW-10									
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	
MW-11									
1/23/2003	<40	<20	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-11 Cont.									
10/23/2003	--	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
07/01/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-12									
10/23/2003	--	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
07/01/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-13									
1/23/2003	<40	<20	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	
10/23/2003	--	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
07/01/2004	<100	<20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	
MW-14									
1/23/2003	<40	<20	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	
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	
MW-15									
1/23/2003	<40	<20	<20	<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	

Table 2. Summary of Fuel Additives Analytical Data
ARCO Service Station #0601, 712 Lewelling Blvd., San Leandro, CA

Well and Sample Date	Concentrations in (µg/L)								Comments
	Ethanol	TBA	MTBE	DIPE	ETBE	TAME	1,2-DCA	EDB	
MW-15 Cont.									
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	
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	
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	
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	
MW-19									
7/21/2009	<300	<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

DIPE = Di-isopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

µg/L = Micrograms per Liter

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.

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

APPENDIX A

RECENT REGULATORY CORRESPONDENCE

From: [Khatri, Paresh, Env. Health](#)
To: ["Tom Sparrowe"](#)
Cc: ["Carmel, Charles "](#); ["Matt Herrick"](#)
Subject: RE: ARCO Station #601, 712 Lewelling Blvd., San Leandro, CA - ACEH RO #309
Date: Thursday, November 04, 2010 9:22:39 AM

Hello Tom,

ACEH is not opposed to adequately characterizing the site prior to initiating corrective action.

Sincerely,

Paresh C. Khatri
Hazardous Materials Specialist
Alameda County Environmental Health
Local Oversight Program
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Phone: (510) 777-2478
Fax: (510) 337-9335

E-mail: Paresh.Khatri@acgov.org

<http://www.acgov.org/aceh/lop/lop.htm>

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From: Tom Sparrowe [<mailto:tsparrowe@broadbentinc.com>]
Sent: Thursday, October 21, 2010 4:35 PM
To: Khatri, Paresh, Env. Health
Cc: 'Carmel, Charles '; 'Matt Herrick'
Subject: ARCO Station #601, 712 Lewelling Blvd., San Leandro, CA - ACEH RO #309

Dear Mr. Khatri:

On October 19, 2009 Broadbent & Associates, Inc. (BAI), on behalf of Atlantic Richfield Corporation (ARC), submitted a *Feasibility Study Report* to Alameda County Environmental Health (ACEH) where six remediation alternatives were evaluated for the above referenced subject Site. The FSR determined that Dual-Phase Extraction (DPE) and Enhanced Bioremediation (Bioremediation) appear to be the most cost-effective remedial alternatives. As a follow up to the FSR, on May 12, 2010 BAI submitted a *Work Plan to Perform Dual-Phase Extraction Pilot Testing Activities*. ACEH approved the work plan in a August 12, 2010 *Feasibility Study Pilot Test* letter and requested that the proposed work be conducted and a *Feasibility Study Report* with the pilot test results be prepared and be submitted to ACEH by November 10, 2010.

However, prior to initiating the DPE and Enhanced Bioremediation pilot tests, BAI has determined

that data gaps exist where the soil and groundwater conditions in areas of the Site that have not been adequately characterized. This information will be necessary in order to provide a baseline of soil and groundwater condition and evaluate the effectiveness of the proposed remediation methods. Therefore, BAI recommends that an additional soil and groundwater investigation be conducted prior to conducting pilot testing at the Site.

Therefore, BAI recommends that a work plan be prepared to conduct a soil and groundwater investigation and submit the work plan to ACEH by November 19, 2010. A written response to our request is appreciated.

Best regards,

Tom Sparrowe, PG

Senior Geologist

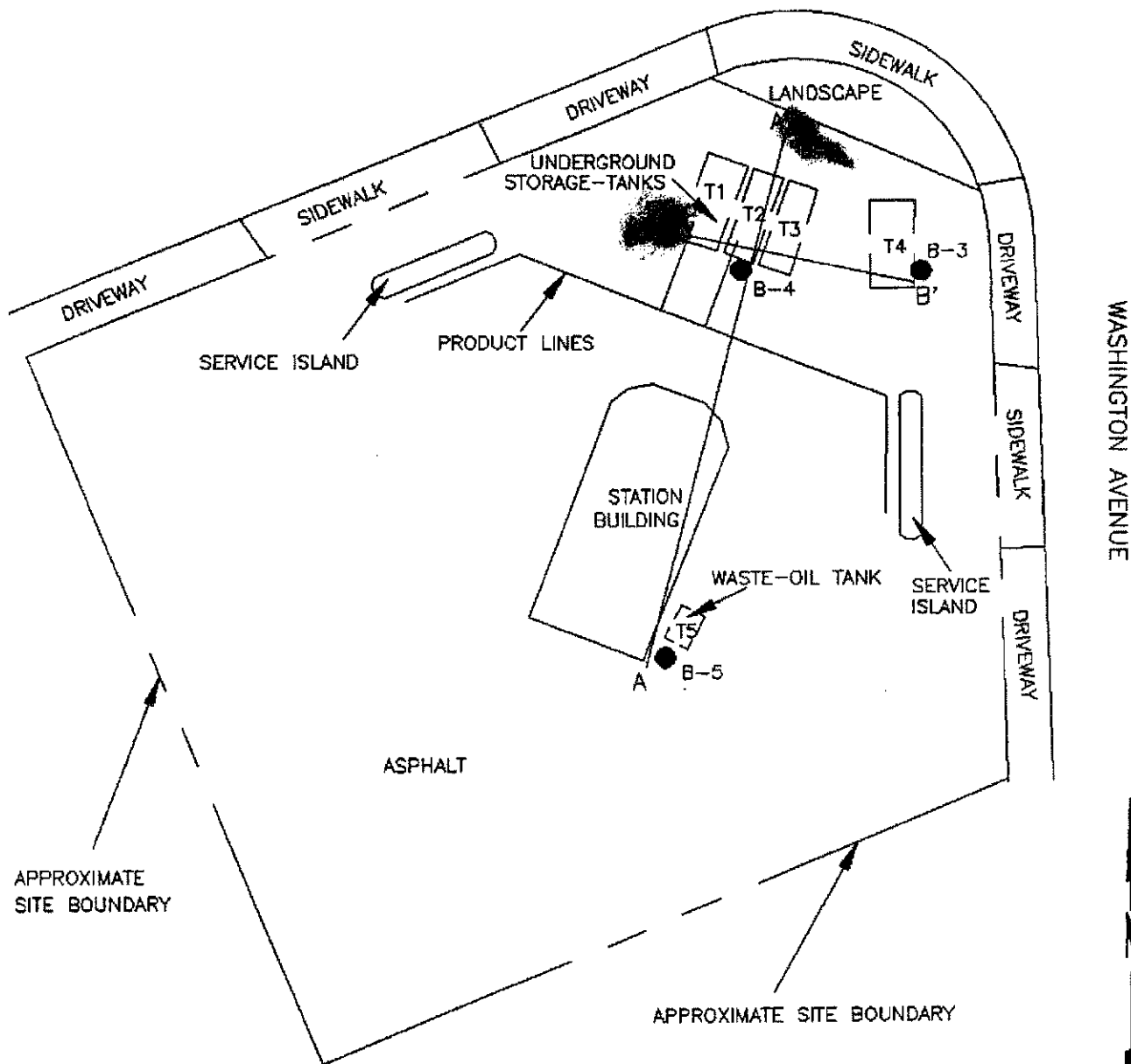
Broadbent & Associates, Inc.



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office 707.455.7290 • mobile 707.494.4883 • fax 707.455.7295
tsparrowe@broadbentinc.com

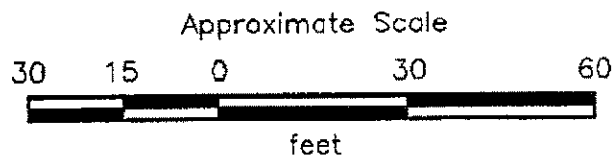
APPENDIX B

HISTORICAL SOIL AND GROUNDWATER 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.

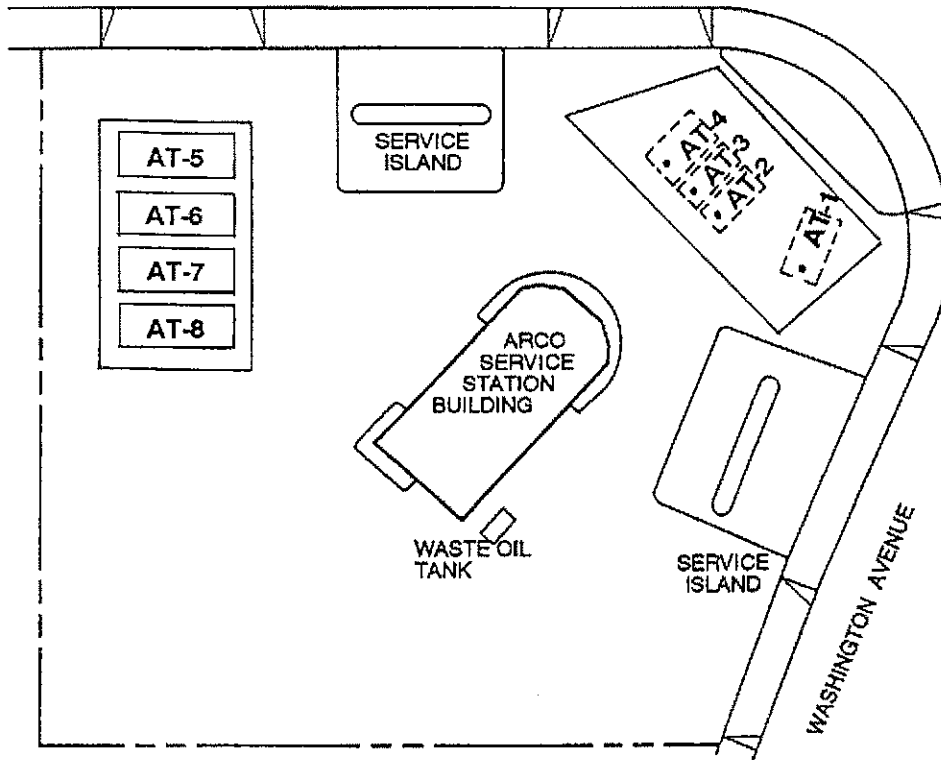
ALL DATA SHOWN AS <X ARE REPORTED AS ND (NONE DETECTED)

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

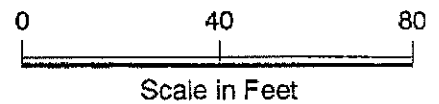
Note: Soil volumes are estimates based on the weight and volume capacities of the trailers used for hauling the soils.

LEWELLING BOULEVARD



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

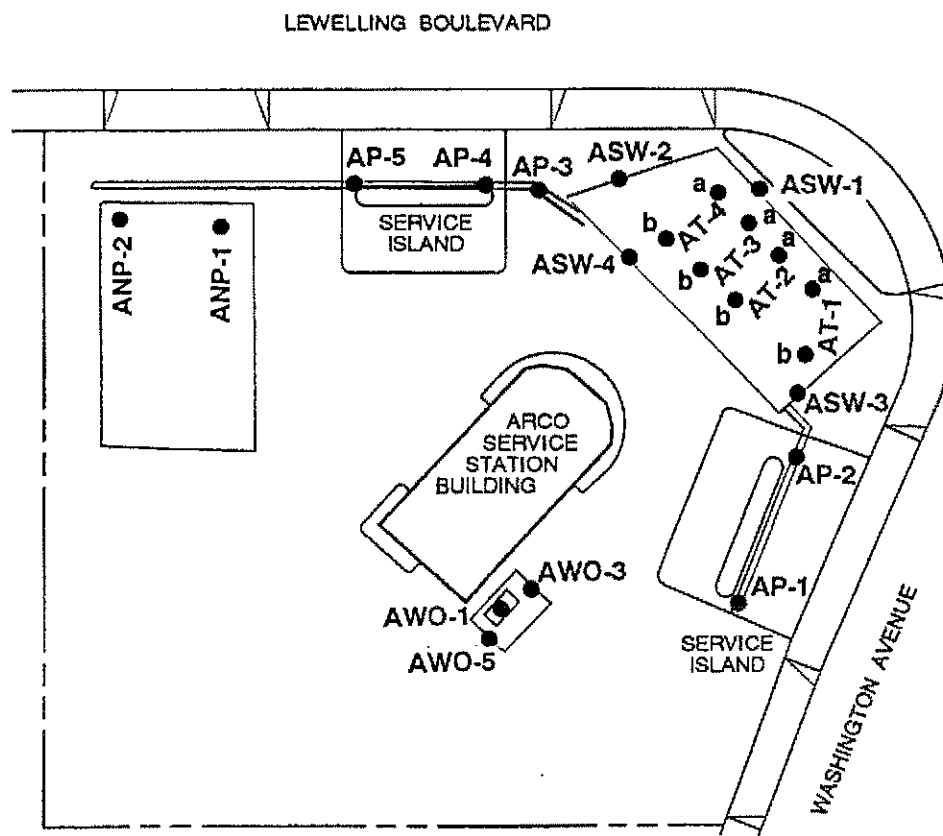
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7918

REVIEWED BY RG/CEG
Clup 08/12/92

DATE
3/90

REVISED DATE

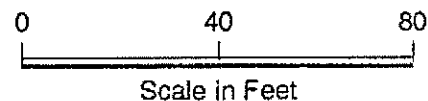
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EXPLANATION

- 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

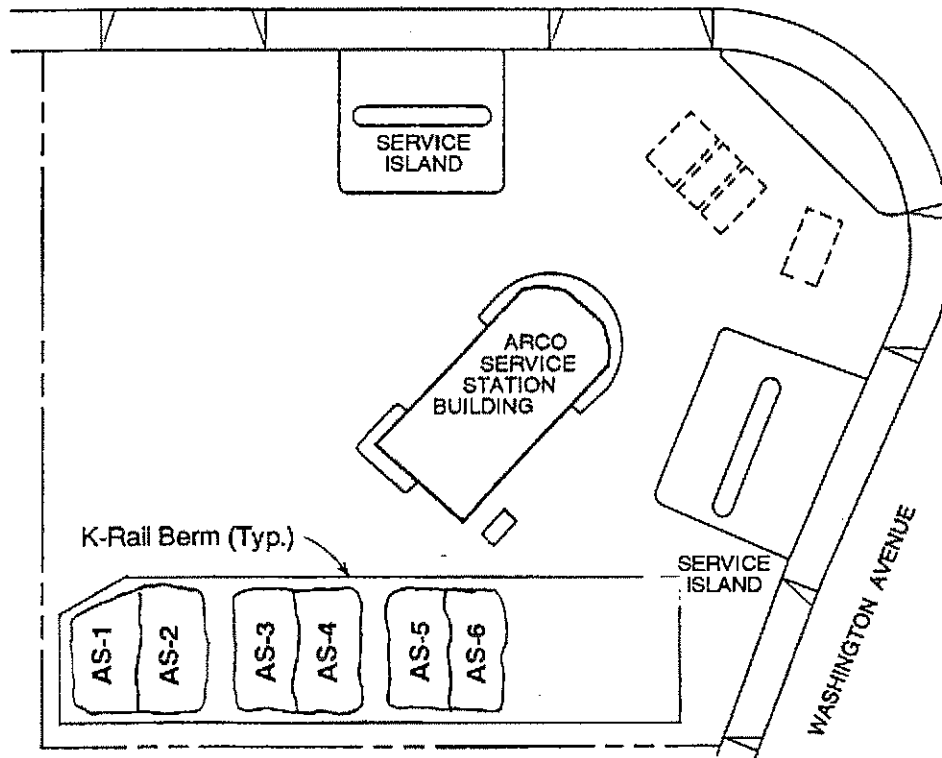
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DATE
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REVISED DATE

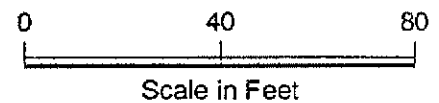
REVISED DATE

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

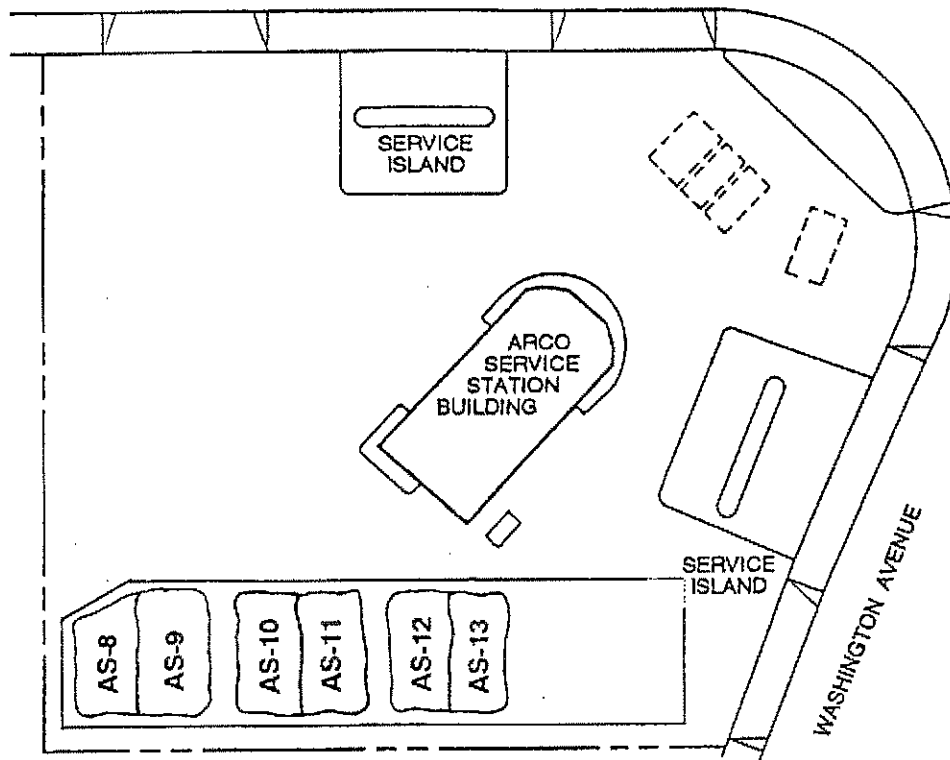
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UMP CEG 12/92

DATE
3/90

REVISED DATE

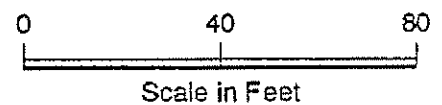
REVISED DATE

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

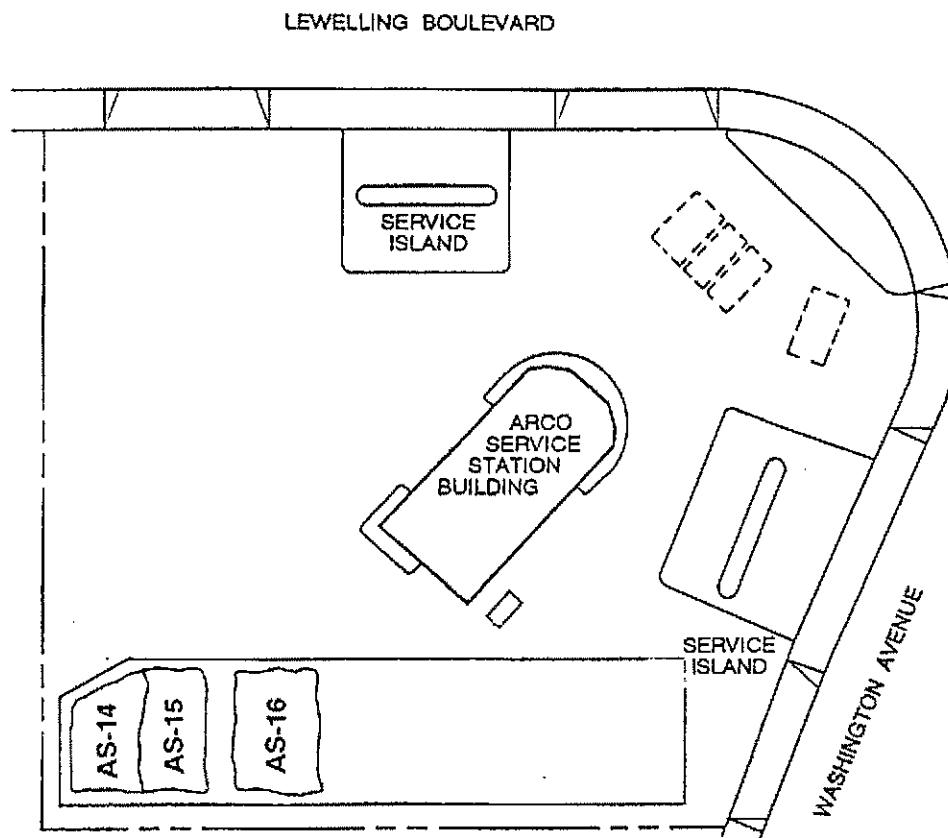
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Chap 1262

DATE
3/90

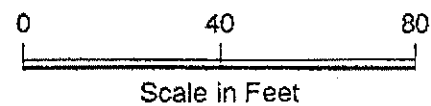
REVISED DATE

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

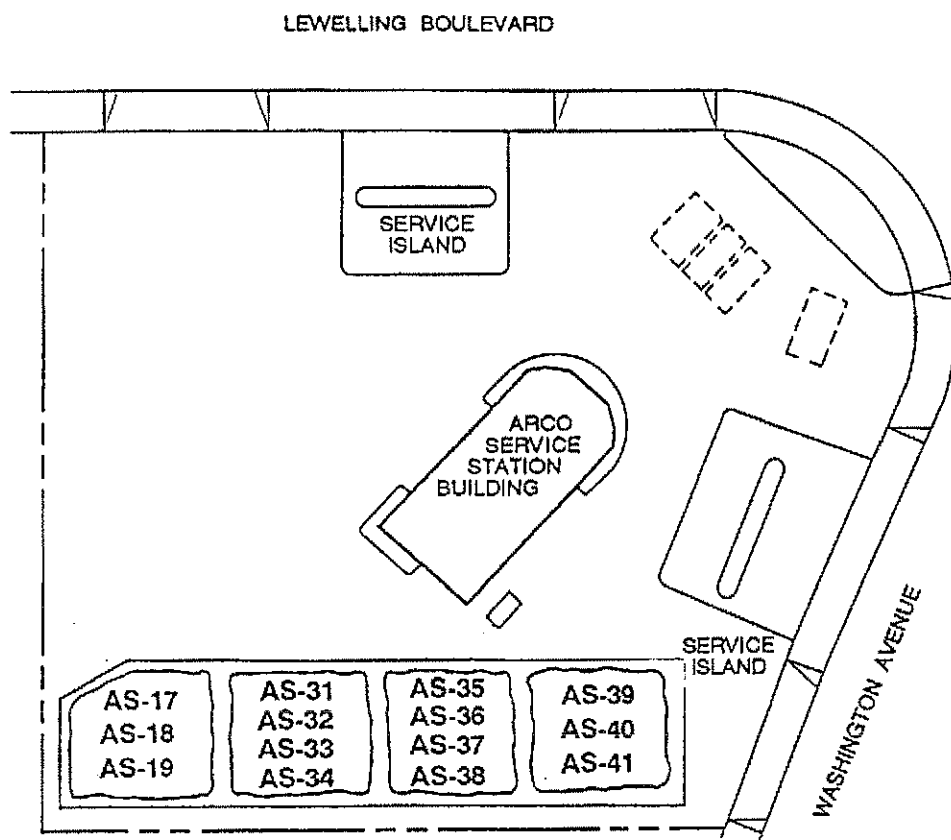
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CMP CGL 1262

DATE
3/90

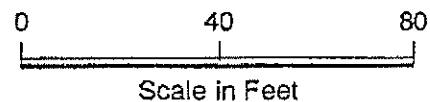
REVISED DATE

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

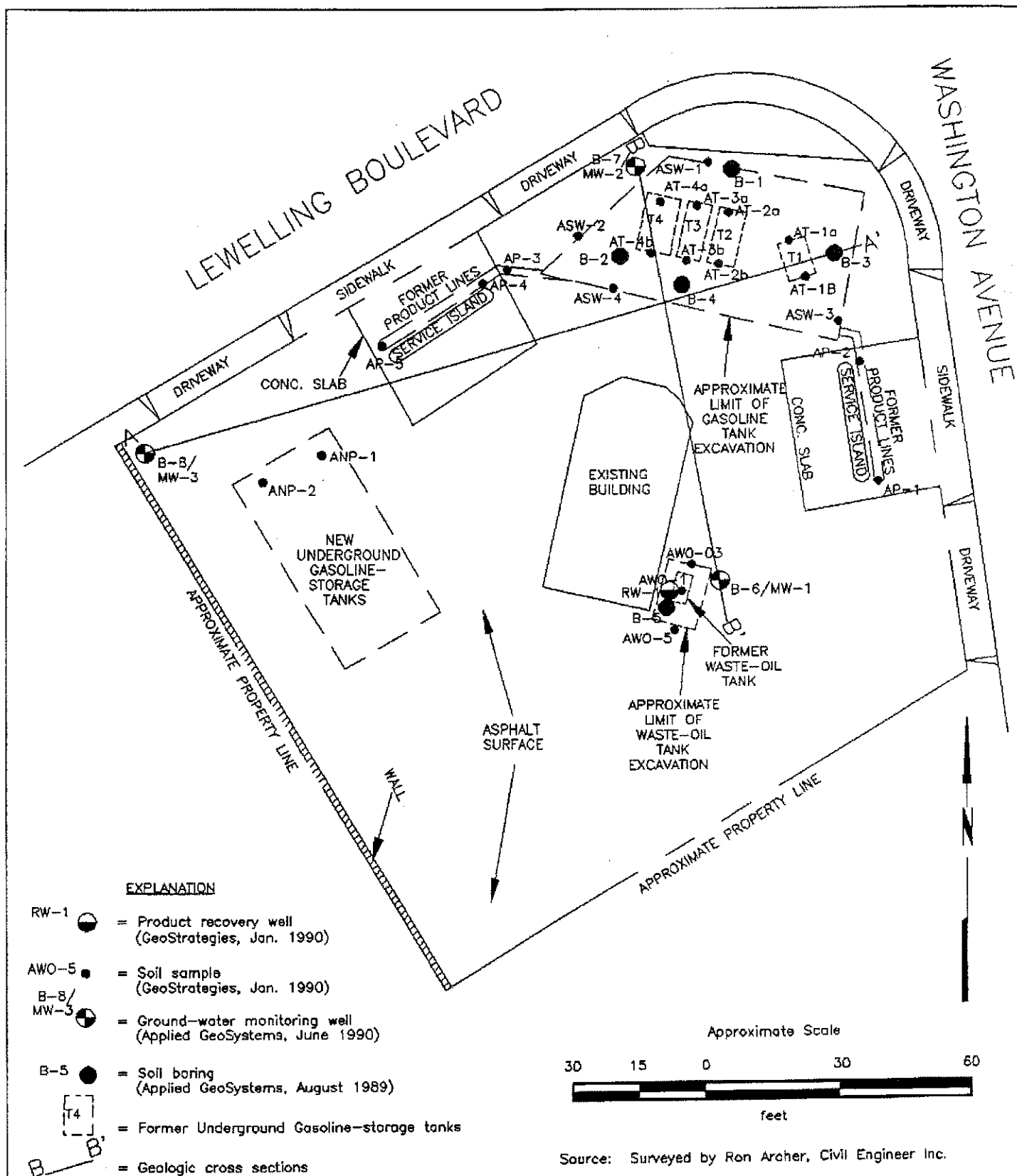
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REVIEWED BY RG/CEG
CMA CEG 1202

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	200	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	200	<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 (0.082)	0.076 (0.076)	<0.0050 (0.0050)	0.079 (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:

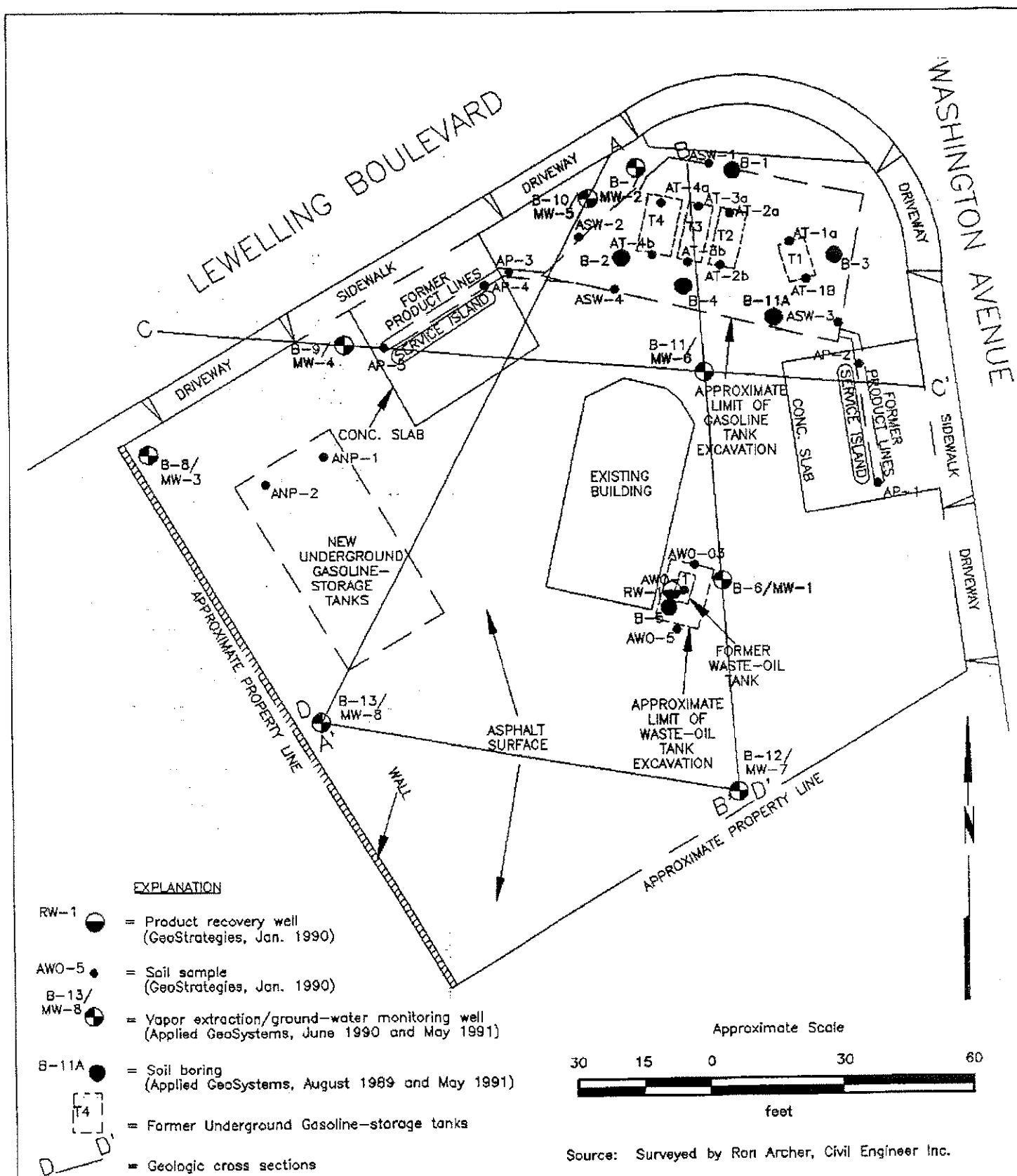
AP-5 = Product line soil sample

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

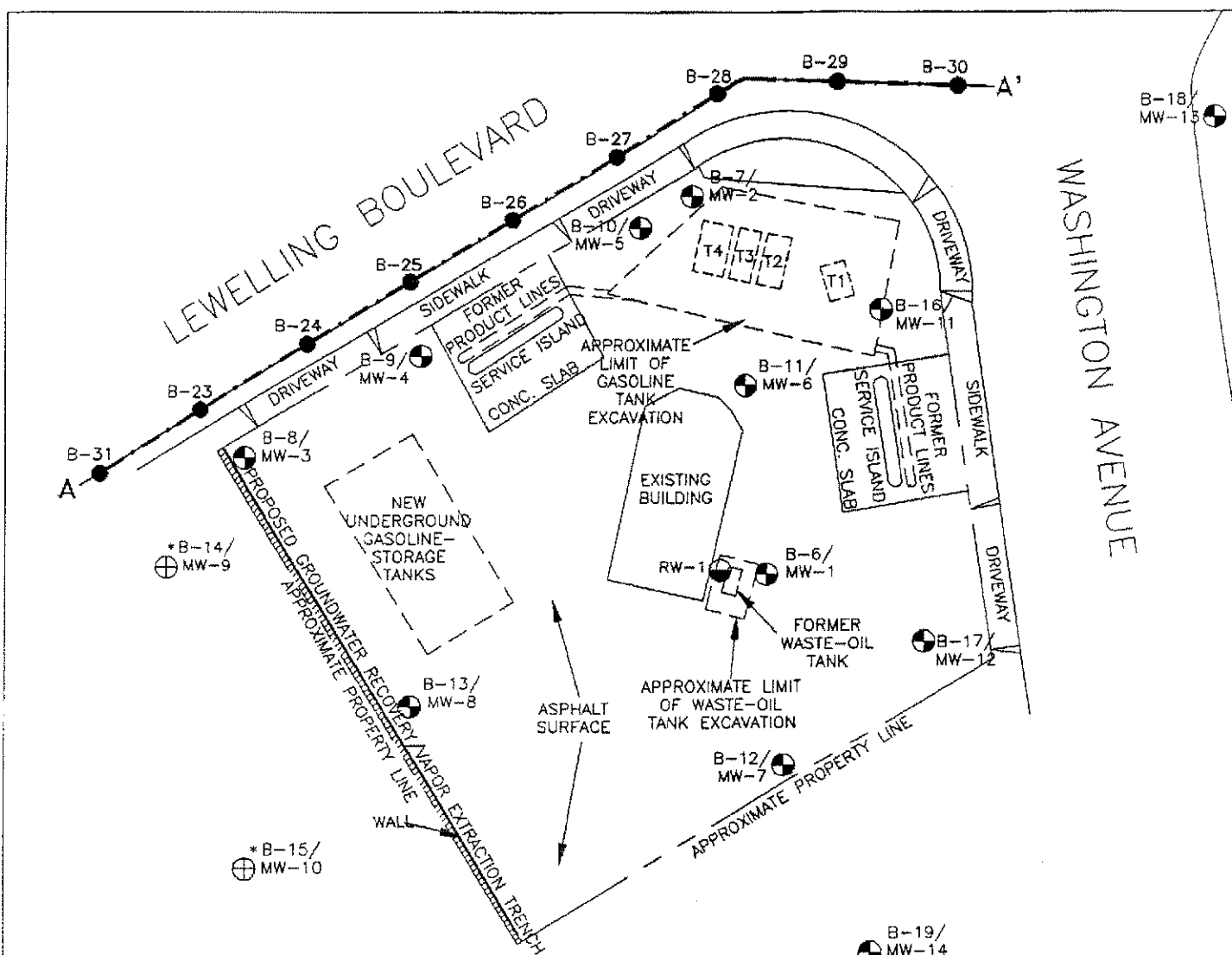
T: Toluene

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)

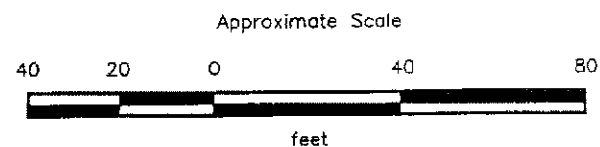
*B-15/
MW-10 ⊕ = Proposed boring/groundwater monitoring well
(Not yet installed due to difficulty obtaining access)

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



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)

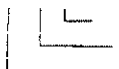
< = Below indicated laboratory reporting limits.

NA = Not applicable

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

Sample Identification:

S-10-B12

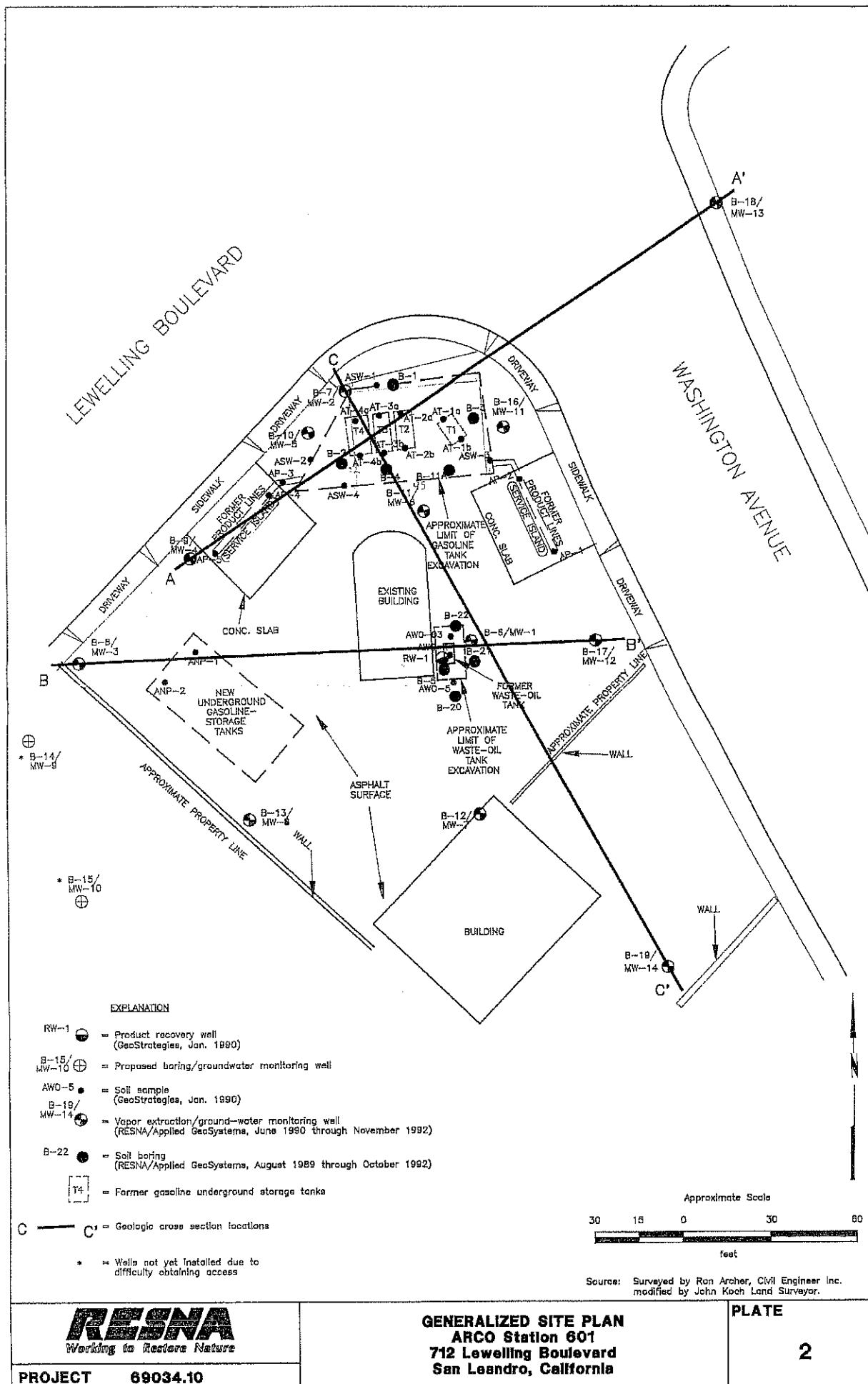


Boring number
Sample depth in feet below ground surface
Soil sample

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
69034.10

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	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	BNA _s	VOC _s	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.

BNA_s: 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)

VOC_s: 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



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

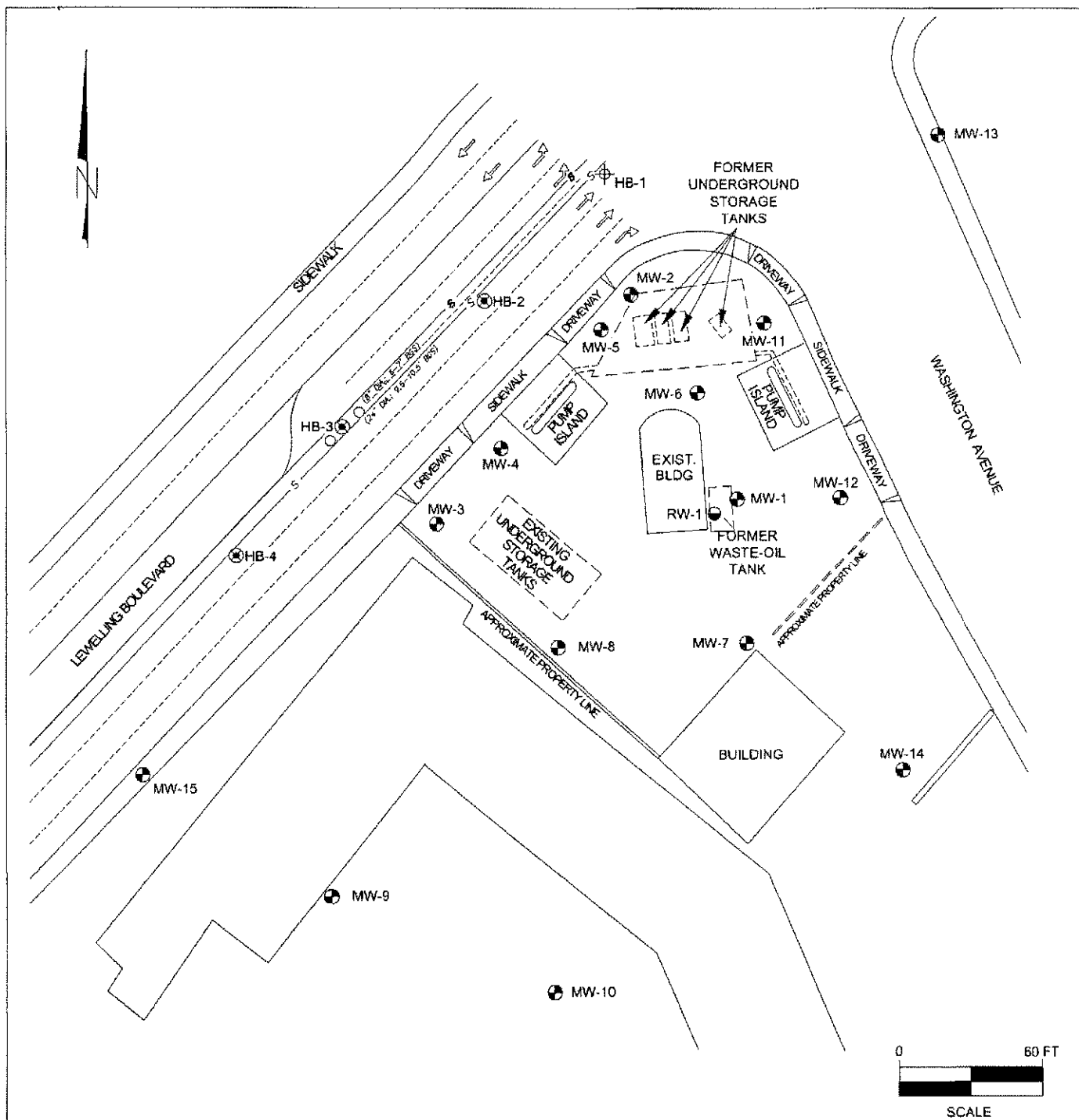
Sample	Depth (feet BGS)	Benzene (mg/m ³)	Toluene (mg/m ³)	Ethylbenzene (mg/m ³)	Total Xylenes (mg/m ³)
S-B*	ambient air	<0.5	<0.5	<0.5	<1
S-1	1 - 1.5	<0.5	<0.5	<0.5	<1
S-2	1 - 1.5	<0.5	<0.5	<0.5	<1
S-4A	1 - 1.5	<0.5	<0.5	<0.5	<1
S-4B	4	<0.5	<0.5	<0.5	<1
S-5	1 - 1.5	<0.5	<0.5	<0.5	<1
S-6	1 - 1.5	<0.5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

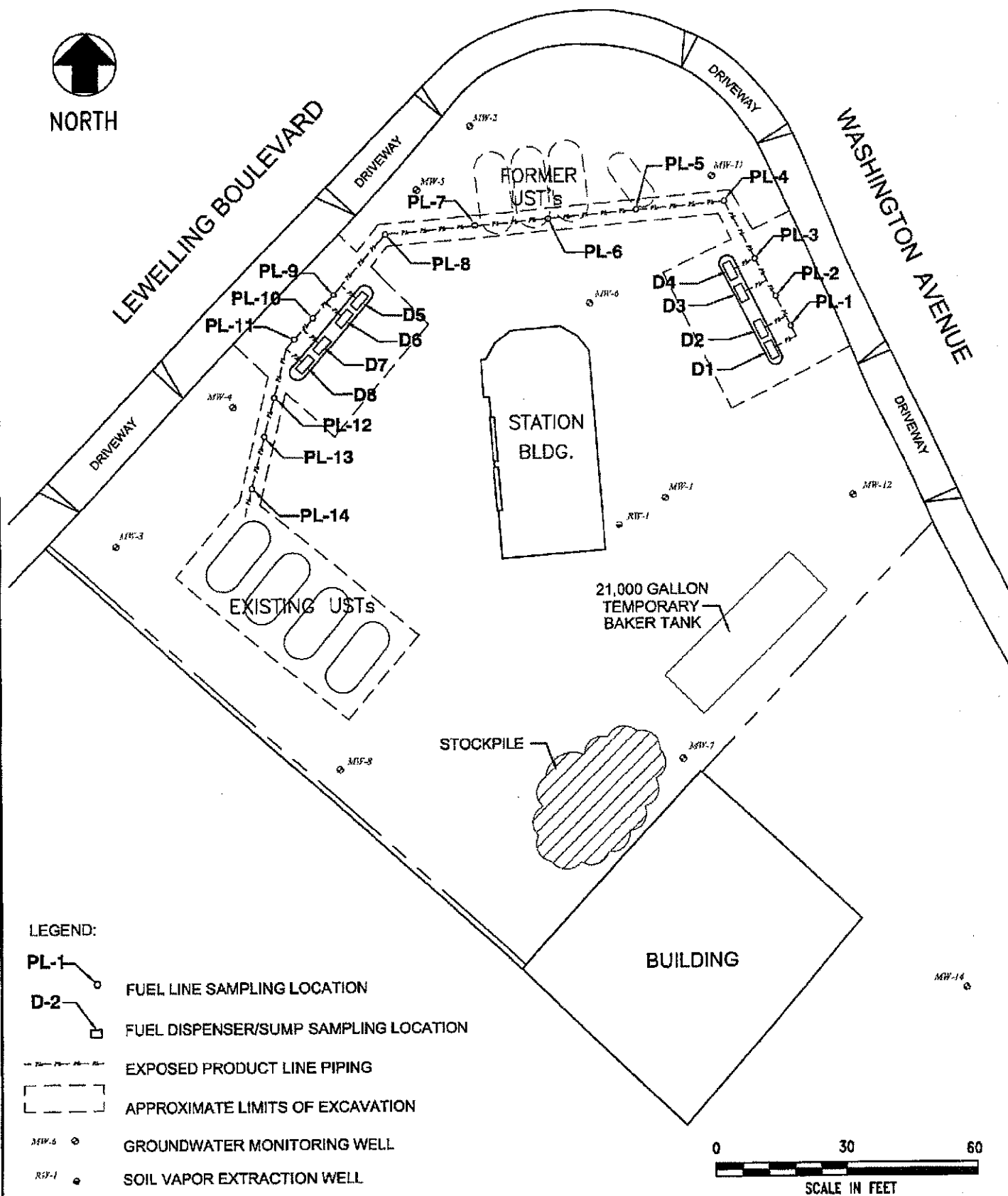
TPH = Total petroleum hydrocarbons

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

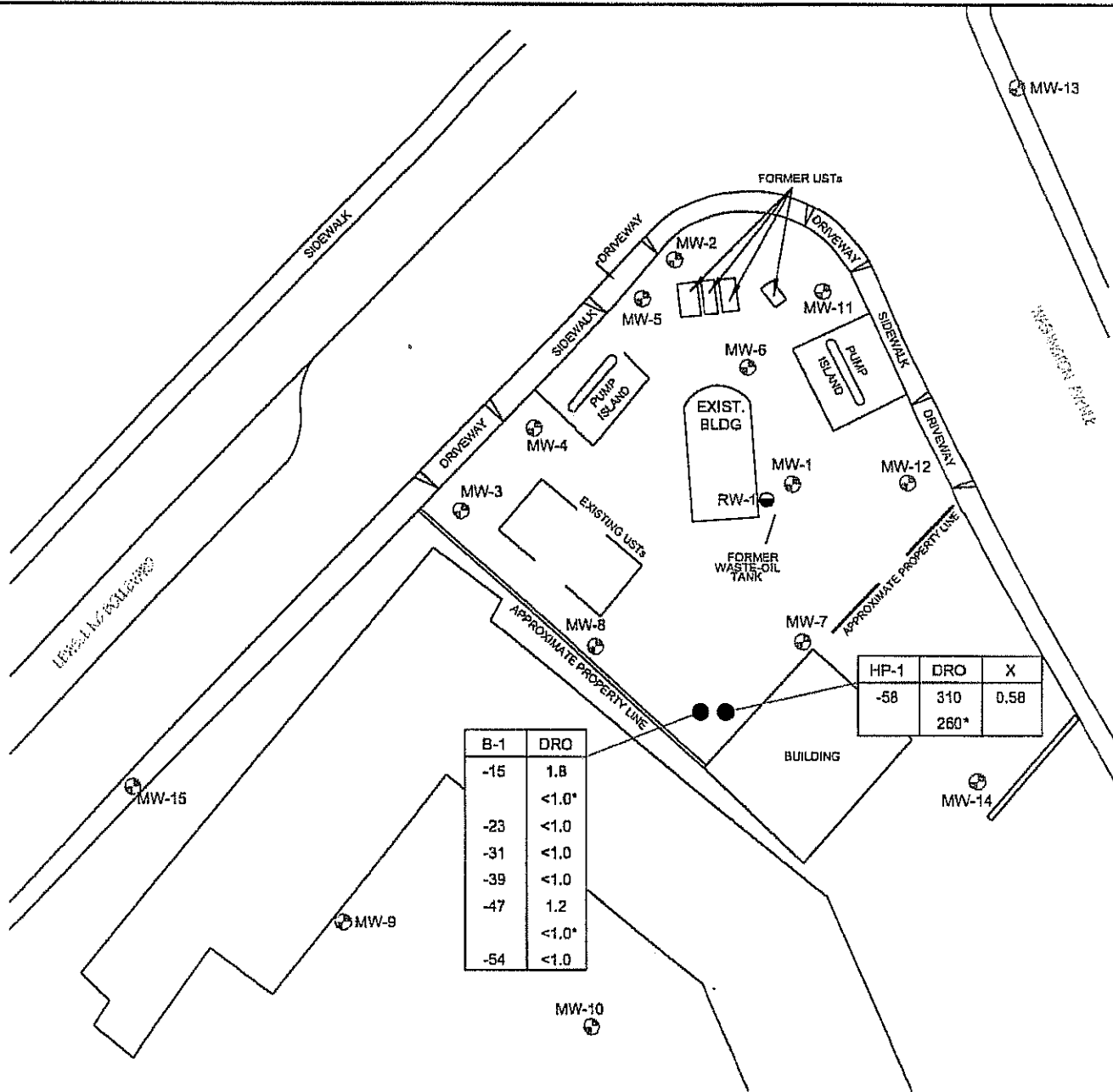
BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA Method 8260B.

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

pH = pH by EPA Method 150.1

ppm = Parts per million.

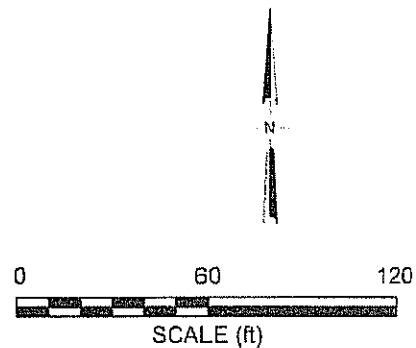
ND < = Less than stated laboratory detection limit.



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

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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										

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-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								

Historical Groundwater Elevation and Analytical Data

ARCO Service Station 601
712 Lowelling 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-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										

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	TPPH 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*	--	--	--

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-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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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	Floting 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	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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ARCO Service Station 601
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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	TPPH EPA 418.1 µg/L	TPHD LUFT Method µg/L
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	--	--	--	--

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ARCO Service Station 601
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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*	--	--	--

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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	--	--	--	--

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712 Lewelling Boulevard, San Leandro, California

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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*	--	--	--

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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
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-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^

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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	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	--	--	--

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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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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
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								

Historical Groundwater Elevation and Analytical Data

ARCO Service Station 601
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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-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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Date: 04-15-97

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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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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								

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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

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