

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

ALEX BRISCOE, Director



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

December 19, 2014

BP Oil
Attn: Charles Carmel
6 Centerpointe Dr., # 750
La Palma, CA 90623
(Sent via E-mail to: charles.carmel@bp.com)

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

Subject: Case Closure for Fuel Leak Case No. RO0000190 and GeoTracker Global ID T0600100084,
ARCO #2162, 15135 Hesperian Blvd., San Leandro, CA 94578

Dear Mr. Carmel:

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

Due to residual contamination, the site was closed with Site Management Requirements that limit future land use to the current commercial land use as an active fueling station. Site Management Requirements are further described in Additional Information of the attached Case Closure Summary.

If you have any questions, please call Keith Nowell at (510) 567-6764. Thank you.

Sincerely,

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

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

Case Closure Transmittal
RO0000190
December 19, 2014, Page 2

Cc w/enc.:

John Camp, City of San Leandro Environmental Services, 835 East 14th Street, San Leandro, CA 94577 (Sent via E-mail to: jcamp@sanleandro.org)

Debbie Pollart, City of San Leandro Public Works, 14200 Chapman Road, San Leandro, CA 94578 (Sent via E-mail to: dpollart@sanleandro.org)

Kristene Tidwell, PG, Broadbent & Associates, Inc., 875 Cotting Ln., Suite G, Vacaville, CA 95688 (Sent via E-mail to: Ktidwell@broadbentinc.com)

Case Worker (sent via electronic mail to keith.nowell@acgov.org)
e-File, GeoTracker

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

ALEX BRISCOE, Agency Director



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

REMEDIAL ACTION COMPLETION CERTIFICATION

December 19, 2014

BP Oil
Attn: Charles Carmel
6 Centerpointe Dr., # 750
La Palma, CA 90623
(Sent via E-mail to: charles.carmel@bp.com)

Atlantic Richfield Company
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PO Box 1257
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Subject: Case Closure for Fuel Leak Case No. RO0000190 and GeoTracker Global ID T0600100084, ARCO #2162, 15135 Hesperian Blvd., San Leandro, CA 94578

Dear Mr. Carmel:

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

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

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

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

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

Sincerely,

Ariu Levi
Director

UST Case Closure Summary Form

Agency Information

Date: December 15, 2014

| | |
|--|---------------------------------------|
| Agency Name: Alameda County Environmental Health | Address: 1131 Harbor Bay Parkway |
| City/State/Zip: Alameda, CA 94502-6577 | Phone: (510) 567-6764 |
| Staff Person: Keith Nowell | Title: Hazardous Materials Specialist |

Case Information

| | | |
|--|---|-------------------------|
| Facility Name: ARCO #2162 | | |
| Facility Address: 15135 Hesperian Blvd., San Leandro, CA 94578 | | |
| RB LUSTIS Case No: RB # 01-0091 | Local Case No.: STID 1259 | LOP Case No.: RO0000190 |
| URF Filing Date: December 17, 1991 | GeoTracker Global ID: T0600100084 | |
| APN: 77D-1487-20-5 | Current Land Use: Active Fueling Station | |
| Responsible Party(s): | Address: | Phone: |
| BP Oil Attn: Charles Carmel | 6 Centerpointe Dr. #750 La Palma, CA 90623 | 714 / 228 - 6411 |
| Atlantic Richfield Company c/o: Charles Carmel | PO Box 1257 San Ramon, CA 94583 | 925 / 275 - 3803 |

Tank Information

| Tank No. | Size (gal) | Contents | Closed in-Place/ Removed/Active | Date |
|----------|-------------------|-----------|------------------------------------|------------------|
| T1 | 6,000 steel | Gasoline | Removed | December 5, 1991 |
| T2 | 8,000 steel | Gasoline | Removed | December 5, 1991 |
| T3 | 8,000 steel | Gasoline | Removed | December 5, 1991 |
| T4 | 12,000 fiberglass | Gasoline | Removed | December 5, 1991 |
| T5 | 560 | Waste oil | Removed | December 5, 1991 |
| Piping | ---- | ---- | ---- | December 4, 1991 |

Conceptual Site Model (Attachment 1, 2 pages)
Closure Criteria Met (Attachment 2, 2 pages)
LTCP Groundwater Specific Criteria (Attachment 3, 2 pages)
LTCP Vapor Specific Criteria (Attachment 4, 2 pages)

UST Case Closure Summary Form

LTCP Direct Contact and Outdoor Air Exposure Criteria (Attachment 5, 2 pages)

Site Maps (Attachment 6, 21 pages)

Analytical Data (Attachment 7, 45 pages)

Additional Information:

Site Management Requirements:

1) VAPOR ISSUE and DIRECT CONTACT ISSUE - SITE DOES NOT MEET COMMERCIAL AND RESIDENTIAL SCENARIOS

This fuel leak case has been evaluated for closure consistent with the State Water Resource Control Board Low-Threat Underground Storage Tank Closure Policy (LTCP). The maximum concentration of benzene and ethylbenzene documented at the site are reported to be 17 and 41 milligrams per kilogram (mg/kg), respectively. These concentrations are above the LTCP Table 1 values for Residential, Commercial/Industrial Volatilization to Outdoor Air scenarios, and for the LTCP Utility Worker Direct Contact/volatilization to Outdoor Air scenario.

However, Alameda County Environmental Health (ACEH) has evaluated case information and, as a result of controlling exposure through the use of institutional and/or engineering controls, has determined that the concentrations of petroleum constituents in soil will not have a significant risk of adversely affecting human health. Specifically, except for limited areas around the perimeter of the Site, the Site is entirely paved and exposure to Site soils is prevented, except in controlled conditions. Additionally, exposure to contaminated soil and soil vapors is limited by low permeability pavements. As a commercial fueling facility, maintenance or construction workers employed at the facility are required by California regulations to be trained in health and safety concerns associated with volatile motor fuels, and thus are expected to be prepared for potential exposures in their standard work routines. Potential exposures to the general public are expected to be transitory and could occur only while temporarily present for the purpose of fueling their vehicles or obtaining related automotive services. Additionally, under the current land use as an active fueling station, the Site is not required to meet media-specific criteria for Vapor Intrusion to Indoor Air. Therefore, case closure is granted for the current commercial land use as an active fueling station.

If a change in land use to any residential, commercial other than as a commercial fueling station, or conservative land use, or if any redevelopment occurs, ACEH must be notified as required by Government Code Section 65850.2.2. Due to the potential for vapor intrusion to indoor air for future buildings, ACEH will re-evaluate the case upon receipt of approved development/construction plans.

Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.

UST Case Closure Summary Form

RWQCB Notification

Notification Date: August 28, 2014

RWQCB Staff Name: Cherie McCaulou

Title: Engineering Geologist

Local Agency Representative

| | |
|-------------------------------------|---------------------------------------|
| Prepared by: Keith Nowell, PG, CHG. | Title: Hazardous Materials Specialist |
| Signature: <i>Keith Nowell</i> | Date: <i>12/19/2014</i> |
| Approved by: Dilan Roe, PE | Title: LOP and SCP Program Manager |
| Signature: <i>Dilan Roe</i> | Date: <i>12/19/2014</i> |

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

ATTACHMENT 1

CSM Report [GEOTRACKER HOME](#) | [MANAGE PROJECTS](#) | [REPORTS](#) | [SEARCH](#) | [LOGOUT](#)**ARCO #2162 (T0600100084) - [MAP THIS SITE](#)**

OPEN - ELIGIBLE FOR CLOSURE

15135 HESPERIAN
SAN LEANDRO, CA 94578
ALAMEDA COUNTY[ACTIVITIES REPORT](#)[PUBLIC WEBPAGE](#)[VIEW PRINTABLE CASE SUMMARY FOR THIS SITE](#)**CLEANUP OVERSIGHT AGENCIES**ALAMEDA COUNTY LOP (**LEAD**) - CASE #: RO0000190**CASEWORKER:** [KEITH NOWELL](#) - **SUPERVISOR:** DILAN ROE

SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-0091

CASEWORKER: [Cherie McCaulou](#) - **SUPERVISOR:** Cheryl L. Prowell**CUF Claim #:** 9568 **CUF Priority Assigned:** D **CUF Amount Paid:** \$0**CR Site ID #:** NOT SPECIFIEDTHIS PROJECT WAS LAST MODIFIED BY [KEITH NOWELL](#) ON 12/19/2014 8:43:55 AM - [HISTORY](#)THIS SITE HAS SUBMITTALS. CLICK [HERE](#) TO OPEN A NEW WINDOW WITH THE SUBMITTAL APPROVAL PAGE FOR THIS SITE.**CSM REPORT - [VIEW PUBLIC NOTICING VERSION OF THIS REPORT](#)****UST CLEANUP FUND CLAIM INFORMATION (DATA PULLED FROM SCUFII)**

| CLAIM NO | PRIORITY | CLAIMANT | SITE ADDRESS | AMT REIMB TO DATE | AGE OF LOC | IMPACTED WELLS? | FIVE YEAR REVIEW INFORMATION | | | | | |
|----------|----------|---|--|-------------------|------------|-----------------|------------------------------|----------------|---------------------|-------------------|------------------|--|
| | | | | | | | REVIEW NUM | REVIEWER | FUND RECOMMENDATION | TO OVERSIGHT DATE | TO CLAIMANT DATE | |
| 9568 | D | BP PRODUCTS NORTH HESPERIAN AMERICA, INC., ASSIGNEE 6 LEANDRO, CENTERPOINTE DR, LA PALMA CA 90623 | 15135 HESPERIAN BLVD SAN LEANDRO, CA 94578 | | | | 1 | Kirk T. Larson | | | | |

PROJECT INFORMATION (DATA PULLED FROM GEOTRACKER) - [MAP THIS SITE](#)

| SITE NAME / ADDRESS | STATUS | STATUS DATE | RELEASE REPORT DATE | AGE OF CASE | CLEANUP OVERSIGHT AGENCIES |
|---|-----------------------------|-------------|---------------------|-------------|---|
| ARCO #2162 (Global ID: T0600100084) 15135 HESPERIAN SAN LEANDRO, CA 94578 | Open - Eligible for Closure | 8/11/2014 | 9/3/1991 | 23 | ALAMEDA COUNTY LOP (LEAD) - CASE #: RO0000190 CASEWORKER: KEITH NOWELL - SUPERVISOR: DILAN ROE SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-0091 CASEWORKER: Cherie McCaulou - SUPERVISOR: Cheryl L. Prowell |

STAFF NOTES (INTERNAL)

RSR/CSM initiated 07/14/14 MLC

Direct contact issues can be managed with a site management plan.

SITE HISTORY

1991, after a UST leak was reported, existing USTs, product lines and dispensers were removed and replaced with four, double-wall fiberglass, 10,000 gallon tanks. Approximately 100 cubic yards of contaminated soil and 50,000 gallons of groundwater was removed from the site. However, elevated concentrations of hydrocarbons were detected in compliance samples. A limited soil vapor performance test was reportedly completed in late 1991 to determine if Soil Vapor Extraction (SVE) was feasible at the site, however results of the test using vapor wells VW-1 and VW-2 indicated it was not an appropriate technology for the site. In January 2003, approximately 140 cubic yards of petroleum hydrocarbon contaminated soil was removed from the site during upgrades to product lines and dispensers. Free product was detected in MW-4. In 2007, five borings were installed at the site. Groundwater monitoring at the site began in 1992 when four monitoring wells were installed (MW-1 through MW-4). In April 2009, two additional wells (MW-5 and MW-6) were installed. In December 2013, three off-site borings were advanced to delineate the down gradient edge of the contaminant plume. TPHg was detected in one grab-groundwater sample (SB-1) at a concentration of 59 ug/L. MTBE was reported in 2 grab-groundwater sample at 6.0 & 15 ug/L. Based on these reported concentrations, a plume map was constructed showing the leading edge of the plume, based on WQOs. The plume was determined to terminate beneath the adjacent commercial property. Due to the lack of volatiles in GW, and the distance to identified receptors the case is considered to meet the LTCP. Due to the presence of a domestic well approximately 330 feet down gradient of the fueling station, the well was considered a potential receptor though beyond the identified plume boundary. The well was tested and determined to contain TPHg, BTEX and MTBE at concentrations below the laboratory reporting limits.

RESPONSIBLE PARTIES

| NAME | ORGANIZATION | ADDRESS | CITY | EMAIL |
|----------------|-----------------------------|-------------------------|-----------|--|
| CHARLES CARMEL | BP WEST COAST PRODUCTS, LLC | 6 CENTERPOINTE DR. #750 | LA PALMA | chuck.carmel@bp.com |
| PAUL SUPPLE | BP WEST COAST PRODUCTS, LLC | PO BOX 1257 | SAN RAMON | |

CLEANUP ACTION INFO

| ACTION TYPE | BEGIN DATE | END DATE | PHASE | CONTAMINANT MASS REMOVED | DESCRIPTION |
|-------------|------------|----------|-------|--------------------------|--|
| EXCAVATION | 12/9/1991 | 4/1/1992 | | | 900 cu yds soil excavated and transported BFI Vasco Road Landfill, Livermore, CA. 49,500 gallons of excavation pit water removed and transported to H&H Ship Service Company, San Francisco, CA. |
| EXCAVATION | 12/9/1991 | 4/1/1992 | Soil | | |

RISK INFORMATION[VIEW LTCP CHECKLIST](#)[VIEW PATH TO CLOSURE PLAN](#)[VIEW CASE REVIEWS](#)

| CONTAMINANTS OF CONCERN | CURRENT LAND USE | BENEFICIAL USE | DISCHARGE SOURCE | DATE REPORTED | STOP METHOD | NEARBY / IMPACTED WELLS | |
|---------------------------|---------------------------------|--------------------------------------|---|--------------------------------------|-------------------------------------|------------------------------|---|
| Gasoline | | GW - Municipal and Domestic Supply | | 9/3/1991 | Close and Replace Tank | 0 | |
| FREE PRODUCT NO | OTHER CONSTITUENTS NO | NAME OF WATER SYSTEM EBMUD | LAST REGULATORY ACTIVITY 12/16/2014 | LAST ESI UPLOAD 11/21/2014 | LAST EDF UPLOAD 7/28/2014 | EXPECTED CLOSURE DATE | MOST RECENT CLOSURE REQUEST 6/16/2014 |

CDPH WELLS WITHIN 1500 FEET OF THIS SITE

NONE

CALCULATED FIELDS (BASED ON LATITUDE / LONGITUDE)

| APN | GW BASIN NAME | WATERSHED NAME |
|---------------|---|-------------------------------------|
| 077D148702005 | Santa Clara Valley - East Bay Plain (2-9.04) | South Bay - East Bay Cities (20420) |
| COUNTY | PUBLIC WATER SYSTEM(S) | |
| Alameda | • EAST BAY MUD - 375 ELEVENTH STREET, OAKLAND, CA 94607 | |

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN GROUNDWATER - [HIDE](#)

[VIEW ESI SUBMITTALS](#)

| FIELD PT NAME | DATE | TPHg | BENZENE | TOLUENE | ETHYL-BENZENE | XYLENES | MTBE | TBA |
|---------------|------------|-----------------------|--------------------------|---------------------------|---------------------------|--------------------------|---------------------------|-----|
| CB1-W | 7/17/2007 | OTHER | ND | ND | ND | ND | ND | ND |
| CB2-W | 7/17/2007 | OTHER | 12 UG/L | ND | 110 UG/L | 140 UG/L | ND | ND |
| CB3-W | 7/17/2007 | OTHER | ND | ND | 0.92 UG/L | ND | 0.82 UG/L | ND |
| CB4-W | 7/17/2007 | OTHER | 1 UG/L | ND | ND | ND | 20 UG/L | ND |
| CB5-W | 7/17/2007 | OTHER | 2.1 UG/L | ND | ND | ND | 70 UG/L | ND |
| MW-1 | 5/27/2014 | OTHER | ND | ND | ND | ND | ND | ND |
| MW-2 | 5/27/2014 | OTHER | ND | ND | ND | ND | ND | ND |
| MW-3 | 5/27/2014 | OTHER | ND | ND | ND | ND | ND | ND |
| MW-4 | 5/27/2014 | OTHER | ND | ND | ND | ND | ND | ND |
| MW-5 | 5/27/2014 | OTHER | ND | ND | ND | ND | ND | ND |
| MW-6 | 5/27/2014 | OTHER | 1.6 UG/L | 0.64 UG/L | 3 UG/L | ND | 82 UG/L | ND |
| SB-1 | 12/23/2013 | OTHER | ND | ND | ND | ND | 15 UG/L | ND |
| SB-2 | 12/23/2013 | OTHER | ND | ND | ND | ND | 6 UG/L | ND |
| SB-3 | 12/23/2013 | OTHER | ND | ND | ND | ND | ND | ND |
| TB | 3/14/2002 | OTHER | ND | ND | ND | ND | ND | ND |

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN SOIL - [HIDE](#)

[VIEW ESI SUBMITTALS](#)

| FIELD PT NAME | DATE | TPHg | BENZENE | TOLUENE | ETHYL-BENZENE | XYLENES | MTBE | TBA |
|---------------|------------|------|---------|---------|---------------|------------------------------|------------------------------|-----|
| CB1- 11.5 | 7/17/2007 | | ND | ND | ND | ND | ND | ND |
| CB1- 15.5 | 7/17/2007 | | ND | ND | ND | ND | ND | ND |
| CB1- 7.5- | 7/17/2007 | | ND | ND | ND | ND | ND | ND |
| CB2 11.5- | 7/17/2007 | | ND | ND | ND | 0.0071 MG/KG | ND | ND |
| CB2 15.5- | 7/17/2007 | | ND | ND | ND | ND | ND | ND |
| CB3 11.5- | 7/17/2007 | | ND | ND | ND | ND | ND | ND |
| CB3 15.5- | 7/17/2007 | | ND | ND | ND | ND | ND | ND |
| CB3 7.5-8 | 7/17/2007 | | ND | ND | ND | ND | 0.0063 MG/KG | ND |
| CB4 11.5- | 7/17/2007 | | ND | ND | ND | ND | ND | ND |
| CB4 15.5- | 7/17/2007 | | ND | ND | ND | ND | ND | ND |
| CB4 7.5-8 | 7/17/2007 | | ND | ND | ND | ND | ND | ND |
| CB5 11.5- | 7/17/2007 | | ND | ND | ND | ND | ND | ND |
| CB5 15.5- | 7/17/2007 | | ND | ND | ND | ND | ND | ND |
| CB5 7.5-8 | 7/17/2007 | | ND | ND | ND | ND | ND | ND |
| SB-1 @ 14 | 12/23/2013 | | ND | ND | ND | ND | ND | ND |
| SB-2 @ 14 | 12/23/2013 | | ND | ND | ND | ND | ND | ND |
| SB-3 @ 14 | 12/23/2013 | | ND | ND | ND | ND | ND | ND |

MOST RECENT GEO_WELL DATA - [HIDE](#)

[VIEW ESI SUBMITTALS](#)

| FIELD PT NAME | DATE | DEPTH TO WATER (FT) | SHEEN | DEPTH TO FREE PRODUCT (FT) |
|---------------|-----------|---------------------|-------|----------------------------|
| MW-1 | 5/27/2014 | 9.03 | N | |
| MW-2 | 5/27/2014 | 8.19 | N | |
| MW-3 | 5/27/2014 | 8.43 | N | |
| MW-4 | 5/27/2014 | 9.63 | N | |
| MW-5 | 5/27/2014 | 9.34 | N | |
| MW-6 | 5/27/2014 | 9.08 | N | |
| TB | 4/18/2002 | | U | 0 |

LOGGED IN AS KNOWELL

[CONTACT GEOTRACKER HELP](#)

ATTACHMENT 2

LTCP Checklist

[GEOTRACKER HOME](#) | [MANAGE PROJECTS](#) | [REPORTS](#) | [SEARCH](#) | [LOG](#)

ARCO #2162 (T0600100084) - [MAP THIS SITE](#)

OPEN - ELIGIBLE FOR CLOSURE

15135 HESPERIAN
SAN LEANDRO, CA 94578
ALAMEDA COUNTY

[ACTIVITIES REPORT](#)
[PUBLIC WEBPAGE](#)

[VIEW PRINTABLE CASE SUMMARY FOR THIS SITE](#)

CLEANUP OVERSIGHT AGENCIES

ALAMEDA COUNTY LOP (LEAD) - CASE #: R00000190
CASEWORKER: [KEITH NOWELL](#) - SUPERVISOR: DILAN ROE
SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-0091
CASEWORKER: [Cherie McCaulou](#) - SUPERVISOR: Cheryl L. Prowell

CUF Claim #: 9568 CUF Priority Assigned: D CUF Amount Paid: \$0

CR Site ID #: NOT SPECIFIED

THIS PROJECT WAS LAST MODIFIED BY [KEITH NOWELL](#) ON 12/19/2014 8:47:45 AM - [HISTORY](#)

THIS SITE HAS SUBMITTALS. CLICK [HERE](#) TO OPEN A NEW WINDOW WITH THE SUBMITTAL APPROVAL PAGE FOR THIS SITE.

CLOSURE POLICY

THIS VERSION IS FINAL AS OF 12/19/2014

CHECKLIST INITIATED ON 8/11/2013

[CLOSURE POLICY HISTORY](#)

General Criteria - The site satisfies the policy general criteria - [CLEAR SECTION ANSWERS](#)

a. Is the unauthorized release located within the service area of a public water system?

Name of Water System :

EBMUD

YES NO

b. The unauthorized release consists only of petroleum ([info](#)).

YES NO

c. The unauthorized ("primary") release from the UST system has been stopped.

YES NO

d. Free product has been removed to the maximum extent practicable ([info](#)).

FP Not Encountered YES NO

e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed ([info](#)).

YES NO

f. Secondary source has been removed to the extent practicable ([info](#)).

YES NO

g. Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15.

Not Required YES NO

h. Does a nuisance exist, as defined by [Water Code section 13050](#).

YES NO

1. Media-Specific Criteria: Groundwater - The contaminant plume that exceeds water quality objectives is stable or decreasing in areal extent, and meets all of the additional characteristics of one of the five classes of sites listed below. - [CLEAR SECTION ANSWERS](#)

EXEMPTION - Soil Only Case (Release has not Affected Groundwater - [Info](#))

YES NO

Does the site meet any of the Groundwater specific criteria scenarios?

YES NO

ADDITIONAL QUESTIONS - Please indicate only those conditions that do not meet the policy criteria:

Plume Length (That Exceeds Water Quality Objectives) :

≥ 100 Feet and < 250 Feet ≥ 250 Feet and < 1,000 Feet ≥ 1,000 Feet Unknown

Plume is Stable or Decreasing in **AREAL** Extent :

No Unknown

Free Product in Groundwater :

Yes No Unknown

Free Product Has Been Removed to the Maximum Extent Practicable :

No Unknown

For sites with free product, the Plume Has Been Stable or Decreasing for 5-Years ([info](#)) :

No Unknown

For sites with free product, owner Willing to Accept a Land Use Restriction (if required) :

No Unknown

Free Product Extends Offsite :

Yes Unknown

Benzene Concentration :

≥ 1,000 µg/l and < 3,000 µg/l ≥ 3,000 µg/l Unknown

MTBE Concentration :

≥ 1,000 µg/l Unknown

Nearest Supply Well (From Plume Boundary) :

≤ 250 Feet > 250 Feet and ≤ 1,000 Feet Unknown

Nearest Surface Water Body (From Plume Boundary) :

≤ 250 Feet > 250 Feet and ≤ 1,000 Feet Unknown

2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - The site is considered low-threat for the vapor-intrusion-to-air pathway if site-specific conditions satisfy items 2a, 2b, or 2c - [CLEAR SECTION ANSWERS](#)

EXEMPTION - Active Commercial Petroleum Fueling Facility

YES NO

3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure - The site is considered low-threat for direct contact and outdoor air exposure if it meets 1, 2, or 3 below. - [CLEAR SECTION ANSWERS](#)

EXEMPTION - The upper 10 feet of soil is free of petroleum contamination

YES NO

Does the site meet any of the Direct Contact and Outdoor Air Exposure criteria scenarios?

YES NO

ADDITIONAL QUESTIONS - Please indicate only those conditions that do not meet the policy criteria:

Exposure Type :

Residential Commercial Utility Worker

Petroleum Constituents in Soil :

≤ 5 Feet bgs >5 Feet bgs and ≤10 Feet bgs Unknown

Soil Concentrations of Benzene :

> 1.9 mg/kg and ≤ 2.8 mg/kg > 2.8 mg/kg and ≤ 8.2 mg/kg > 8.2 mg/kg and ≤ 12 mg/kg > 12 mg/kg and ≤ 14 mg/kg > 14 mg/kg Unknown

Soil Concentrations of EthylBenzene :

> 21 mg/kg and ≤ 32 mg/kg > 32 mg/kg and ≤ 89 mg/kg > 89 mg/kg and ≤ 134 mg/kg > 134 mg/kg and ≤ 314 mg/kg > 314 mg/kg Unknown

Soil Concentrations of Naphthalene :

> 9.7 mg/kg and ≤ 45 mg/kg > 45 mg/kg and ≤ 219 mg/kg > 219 mg/kg Unknown

Soil Concentrations of PAH :

> 0.063 mg/kg and ≤ 0.68 mg/kg > 0.68 mg/kg and ≤ 4.5 mg/kg > 4.5 mg/kg Unknown

Area of Impacted Soil :

Area of Impacted Soil > 82 by 82 Feet Unknown

Additional Information

Should this case be closed in spite of NOT meeting policy criteria?

Explain:

Case does not meet Media-Specific Criteria: Groundwater as plume length approx. 195 feet & nearest irrigation well is approx. 200 feet from plume boundary. ACEH requested the well be sampled prior to making a determination the site is closable. The laboratory analysis report did not identify TPHg, BTEX, and MTBE at concentrations above the laboratory reporting limits.

Case does not meet Direct Contact and Outdoor Air Exposure criteria scenarios as benzene & ethyl benzene concentrations exceed Table 1 values. As the gas station surface is predominantly covered with low-permeability asphalt and concrete with minor landscaped areas on the site boundary, exposure to residual impacted soil is limited to construction/utility workers as the exposure pathway for the general public is considered incomplete.

Naphthalene and related PAHs were not analyzed in soil during excavation of the waste oil UST. However, indirect and multiple lines of evidence indicate a low likelihood of a significant waste oil UST release of PAHs as the wear metals (cadmium, chromium, lead, nickel, and zinc) concentrations do not exceed background soil concentrations, suggesting a minor release from the WO UST, if one occurred. Additionally, concentrations of chlorinated solvents were not detected above laboratory RLs for soil sample WO-1. Naphthalene was analyzed in soil and grab-groundwater during the December 2013 off-site investigation at borings SB-1, SB-2, and SB-3. Naphthalene was not detected above the laboratory reporting limits in either soil or groundwater. As naphthalene is the lowest molecular weight PAH, this data indicates a low likelihood that PAHs potentially released from the waste oil UST may have migrated off-site.

YES NO

Has this LTCP Checklist been updated for FY 14/15?

YES NO

[SPELL CHECK](#)

Save Form as Partially Completed

Save Form as Complete

LOGGED IN AS KNOWELL

[CONTACT GEOTRACKER.HELP](#)

**ATTACHMENT 3
LTCP GROUNDWATER SPECIFIC CRITERIA**

LTCP Groundwater Specific Scenario under which case was closed:

This case should be closed in spite of not meeting the groundwater specific media criteria.

| Site Data | | LTCP Scenario 1 Criteria | LTCP Scenario 2 Criteria | LTCP Scenario 3 Criteria | LTCP Scenario 4 Criteria |
|--|--|--------------------------|--------------------------|---|--------------------------|
| Plume Length | <250 feet (plume length approximately 195 feet from boring B4 to 5 µg/L isoconcentration contour) | <100 feet | <250 feet | <250 feet | <1,000 feet |
| Free Product | No free product. | No free product | No free product | Removed to maximum extent practicable | No free product |
| Plume Stable or Decreasing | Decreasing | Stable or decreasing | Stable or decreasing | Stable or decreasing for minimum of 5 Years | Stable or decreasing |
| Distance to Nearest Water Supply Well | <250 feet (approx. 200 feet to the Nabor Street private well) | >250 feet | >1,000 feet | >1,000 feet | >1,000 feet |
| Distance to Nearest Surface Water and Direction | >250 feet (880 feet southeast and cross-gradient to concrete-lined Estudillo Canal) | >250 feet | >1,000 feet | >1,000 feet | >1,000 feet |
| Property Owner Willing to Accept a Land Use Restriction? | Not applicable | Not applicable | Not applicable | Yes | Not applicable |

GROUNDWATER CONCENTRATIONS

| Constituent | Historic Site Maximum (µg/L) | Current Site Maximum (µg/L) | LTCP Scenario 1 Criteria (µg/L) | LTCP Scenario 2 Criteria (µg/L) | LTCP Scenario 3 Criteria (µg/L) | LTCP Scenario 4 Criteria (µg/L) |
|-------------|------------------------------|------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Benzene | 86 (MW-3 on 4/14/1993) | 1.6 (MW-6 on 5/27/2014) | No criteria | <3,000 | No criteria | <1,000 |
| MTBE | 1,900 (MW-3 on 6/10/1997) | 82 (MW-6 on 5/27/2014) | No criteria | <1,000 | No criteria | <1,000 |
| TPH-g | 7,800 (MW-2 on 1/14/1993) | 2,000 (MW-6 on 5/27/2014) | | | | |

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

Yes

Attachment 3 Comments:

Light Non-Aqueous Phase Liquid (LNAPL) was observed during the 1991 Phase 1 in soil bores B3 and B4 and LNAPL was reported entering well MW-4 on April 14, 1993 during well purging. Additionally, monitoring well screens for five of the six groundwater monitoring wells have been historically submerged from between 10%- to 88% of the time. However, LNAPL is not considered a current risk driver at the Site as LNAPL has not been observed at the Site since 1993, and groundwater concentrations do not exceed effective solubility for benzene, toluene, ethylbenzene, or xylenes (BTEX) compounds.

The dissolved-phase plume length of <200 feet is based on the distance from B4 (in-situ tank pit sidewall soil sample exhibiting elevated TPHg/BTEX concentrations) to the plume 5 microgram per liter ($\mu\text{g/L}$) isoconcentration contour. The 5 $\mu\text{g/L}$ methyl-butyl-tertiary-ether (MTBE) isoconcentration contour represents the potential down-gradient location where the MTBE plume is expected to achieve water quality objectives (WQOs).

Water Supply Wells in Vicinity:

GeoTracker Groundwater Ambient Monitoring & Assessment search yielded zero (0) water supply wells for California Dept. of Public Health, Dept. of Pesticide Regulation, or Dept. of Water Resources purposes within a 2,000 foot radius of the Site.

An ACPWA well records search identified the closest wells to the Site are located approximately 320 feet south-southwest down-gradient on Nabor Street and 800 feet south-southeast cross-gradient. The Nabor Street well is considered a potential sensitive receptor based on its down-gradient position from the site. However, water from the well was tested and determined to contain TPHg, BTEX, and MTBE at concentrations below the laboratory reporting limit. Therefore, this case should be closed in spite of not meeting the groundwater-specific criteria.

**ATTACHMENT 4
LTCP VAPOR SPECIFIC CRITERIA**

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

| Active Fueling Station | Active as of 1987 and currently active | | | | | | |
|--|--|--------------------------|--------------------------|---------------------------|---------------------------|---------------------------|--------------------------|
| Site Data | | LTCP Scenario 1 Criteria | LTCP Scenario 2 Criteria | LTCP Scenario 3A Criteria | LTCP Scenario 3B Criteria | LTCP Scenario 3C Criteria | LTCP Scenario 4 Criteria |
| Unweathered LNAPL | No LNAPL | LNAPL in groundwater | LNAPL in soil | No LNAPL | No LNAPL | No LNAPL | No criteria |
| Thickness of Bioattenuation Zone Beneath Foundation | ≥5 feet (shallowest DTW approx. 6.27 feet btoc at MW-2) | ≥30 feet | ≥30 feet | ≥5 feet | ≥10 feet | ≥5 feet | ≥5 feet |
| Total TPH in Soil in Bioattenuation Zone | >100 mg/kg (2,400 mg/kg at B4 at 7.5 feet) | <100 mg/kg | <100 mg/kg | <100 mg/kg | <100 mg/kg | <100 mg/kg | <100 mg/kg |
| Maximum Current Benzene Concentration in Groundwater | <100 µg/L (1.6 ug/L at MW-6 on 5/27/2014) (historical maximum of 86 ug/L at MW-3 on 4/14/1993) | No criteria | No criteria | <100 µg/L | ≥100 and <1,000 µg/L | <1,000 µg/L | No criteria |
| Oxygen Data within Bioattenuation Zone | ---- * | No criteria | No criteria | No oxygen data or <4% | No oxygen data or <4% | ≥4% at lower end of zone | ≥4% at lower end of zone |
| Depth of soil vapor measurement beneath foundation | ---- * | No criteria | No criteria | No criteria | No criteria | No criteria | ≥5 feet |

SCENARIO 4 DIRECT MEASUREMENT OF SOIL VAPOR CONCENTRATIONS

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

| | |
|--|-----|
| If the site does not meet scenarios 1 through 4, does a site-specific risk assessment for the vapor intrusion pathway demonstrate that human health is protected? | No |
| If the site does not meet scenarios 1 through 4, has a determination been made that petroleum vapors from soil or groundwater will have no significant risk of adversely affecting human health? | Yes |

Attachment 4 Comments:

* The extent of environmental impact in soil vapor has not been investigated at the Site as the Site is exempt from the LTCP vapor specific criteria as it is an active fueling station. Based on the current lack of volatile petroleum hydrocarbon compounds in soil and groundwater samples, an off-site soil vapor assessment is not warranted due to the release(s) at the Site. Note that soil bores SB-1 to SB-3, advanced December 2013, show soil concentrations of total petroleum hydrocarbons as gasoline (TPH-g), BTEX, and naphthalene are below laboratory RLs at 14 feet bgs. Additionally, grab groundwater collected from 10 feet bgs at SB-1 to SB-3 show concentrations of BTEX and naphthalene do not exceed laboratory RLs, and TPH-g does not exceed 100 µg/L.

The nearest residential area is located 135 feet west and cross-gradient of the site; the nearest down-gradient residential area is 250 feet south-west and down-gradient. Therefore, due to their relative hydrogeologic location (and lack of BTEX and oxygenates), the western and south-west residences are not likely at risk due to their distance from the defined plume edge and lack of down-gradient dissolved-phase BTEX and naphthalene at SB-1 to SB-3.

DTW = depth to water.

btoc = below top-of-well case.

**ATTACHMENT 5
LTCP DIRECT CONTACT AND OUTDOOR AIR EXPOSURE CRITERIA**

**LTCP Direct Contact and Outdoor Air Exposure Specific Scenario under which case was closed:
This case should be closed in spite of not meeting the direct contact and outdoor air exposure criteria.**

| | | | | | | |
|--|--------------|-------------------------|--|-------------------------|--|--------------------------|
| Are maximum concentrations less than those in Table 1 below? | | No | | | | |
| Constituent | | Residential | | Commercial/Industrial | | Utility Worker |
| | | 0 to 5 feet bgs (mg/kg) | Volatilization to outdoor air (5 to 10 feet bgs) mg/kg | 0 to 5 feet bgs (mg/kg) | Volatilization to outdoor air (5 to 10 feet bgs) mg/kg | 0 to 10 feet bgs (mg/kg) |
| Site Maximum | Benzene | 1.0 (L-6 at 2.5) | 17 (B4-7.5) | 1.0 (L-6 at 2.5) | 17 (B4-7.5) | 17 (B4-7.5) |
| LTCP Criteria | Benzene | ≤1.9 | ≤2.8 | ≤8.2 | ≤12 | ≤14 |
| Site Maximum | Ethylbenzene | 1.2 (L5-3.5) | 41 (B4-7.5) | 1.2 (L5-3.5) | 41 (B4-7.5) | 41 (B4-7.5) |
| LTCP Criteria | Ethylbenzene | ≤21 | ≤32 | ≤89 | ≤134 | ≤314 |
| Site Maximum | Naphthalene | ---- | ---- | ---- | ---- | ---- |
| LTCP Criteria | Naphthalene | ≤9.7 | ≤9.7 | ≤45 | ≤45 | ≤219 |
| Site Maximum | PAHs | ---- | ---- | ---- | ---- | ---- |
| LTCP Criteria | PAHs | ≤0.063 | NA | ≤0.68 | NA | ≤4.5 |

| | |
|--|----|
| If maximum concentrations are greater than those in Table 1, are they less than levels from a <u>site-specific risk assessment</u> ? | No |
|--|----|

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

Attachment 5 Comments:

The Site is an active commercial gasoline station. As concentrations of benzene and ethylbenzene exceed the LTCP Direct Contact and Outdoor Air Exposure criteria, land use is restricted to commercial purpose as an active gasoline station; further evaluation is warranted if land use changes to more conservative purpose (e.g. residential).

The gas station surface is predominantly covered with low-permeability asphalt and concrete with minor landscaped areas on the site boundary; therefore, exposure to residual impacted soil is limited to construction/utility workers as the exposure pathway for the general public is considered incomplete.

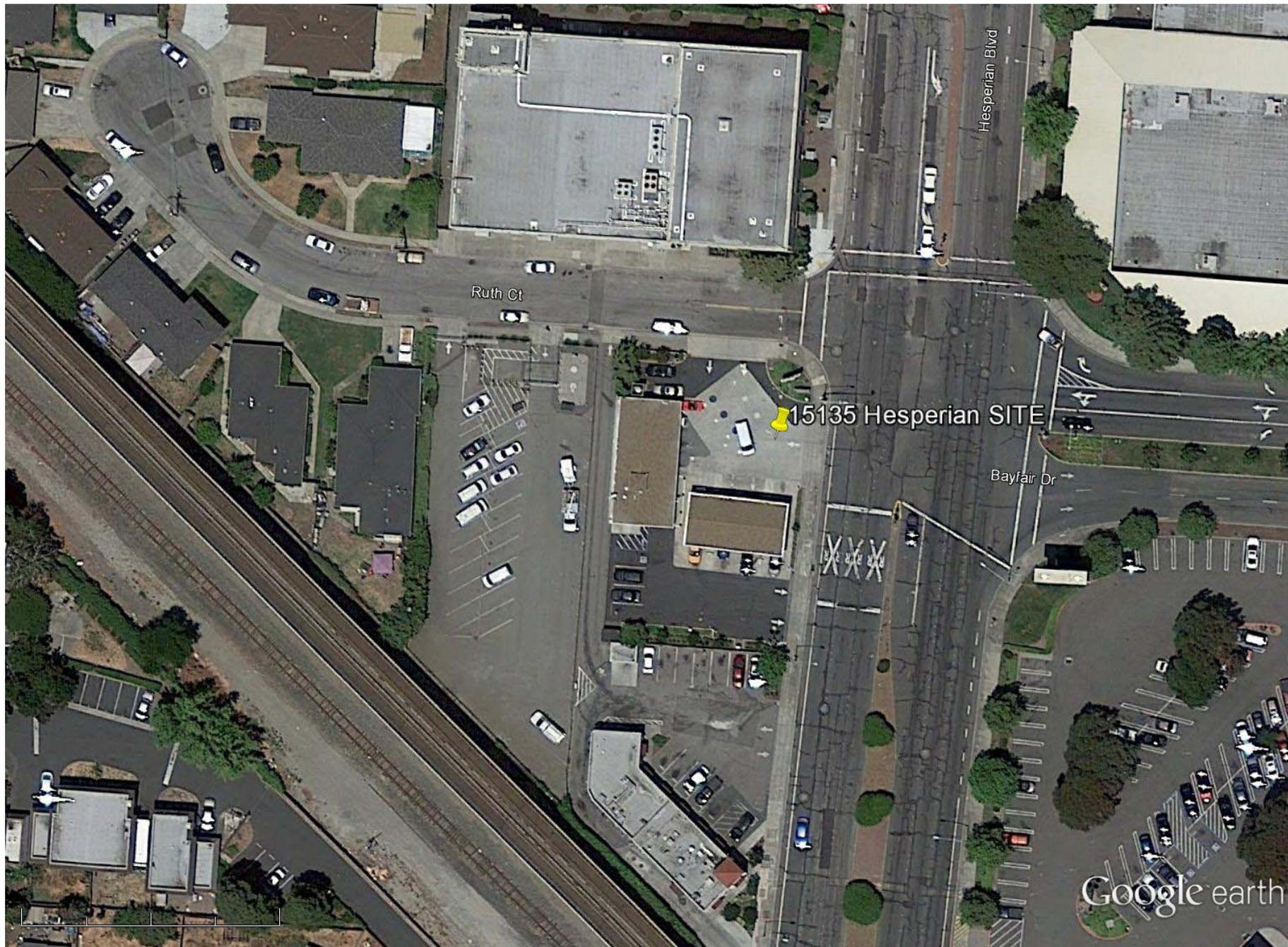
Extent of soil impacts at boring B4 (highest historical concentrations in soil on-site lie adjacent to the excavated former UST pit) are laterally defined by boring CB-1 to the east (TPH-g, BTEX, and oxygenates concentrations below RLs), and boring SW-3 to the south and boring SW-4 to the north (benzene and ethylbenzene concentrations are below Table 1). As ACEH is unable to determine if bore B4 was over-excavated as it is located near the eastern lateral extent of the replacement UST over-excavation, boring B4 was utilized as the highest concentration point.

Naphthalene and related PAHs were not analyzed in soil during excavation of the waste oil UST. However, indirect and multiple lines of evidence indicate a low likelihood of a significant waste oil UST release of PAHs as the wear metals (cadmium, chromium, lead, nickel, and zinc) concentrations do not exceed background soil concentrations ("Background Concentrations of Trace and Major Elements in California Soils" Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, March 1996; and "Analysis of Background Distributions of Metals in the Soil at Lawrence Berkeley National Laboratory, June 2002). Additionally, concentrations of chlorinated solvents were not detected above laboratory RLs for soil sample WO-1.

Attachment 5 Comments continued:

Naphthalene was analyzed in soil and grab-groundwater during the December 2013 off-site investigation at borings SB-1, SB-2, and SB-3. Naphthalene was not detected above the laboratory reporting limits in either soil or groundwater. As naphthalene is the lowest molecular weight PAH, this data indicates a low likelihood that PAHs potentially released from the waste oil UST may have migrated off-site.

ATTACHMENT 6



Google earth

feet
meters



Image Date 6/2014





Google earth

© 2014 Google

Google earth

feet
meters



Image Date 4/2011





Google earth

feet
meters



Image Date 1/2014

Google earth



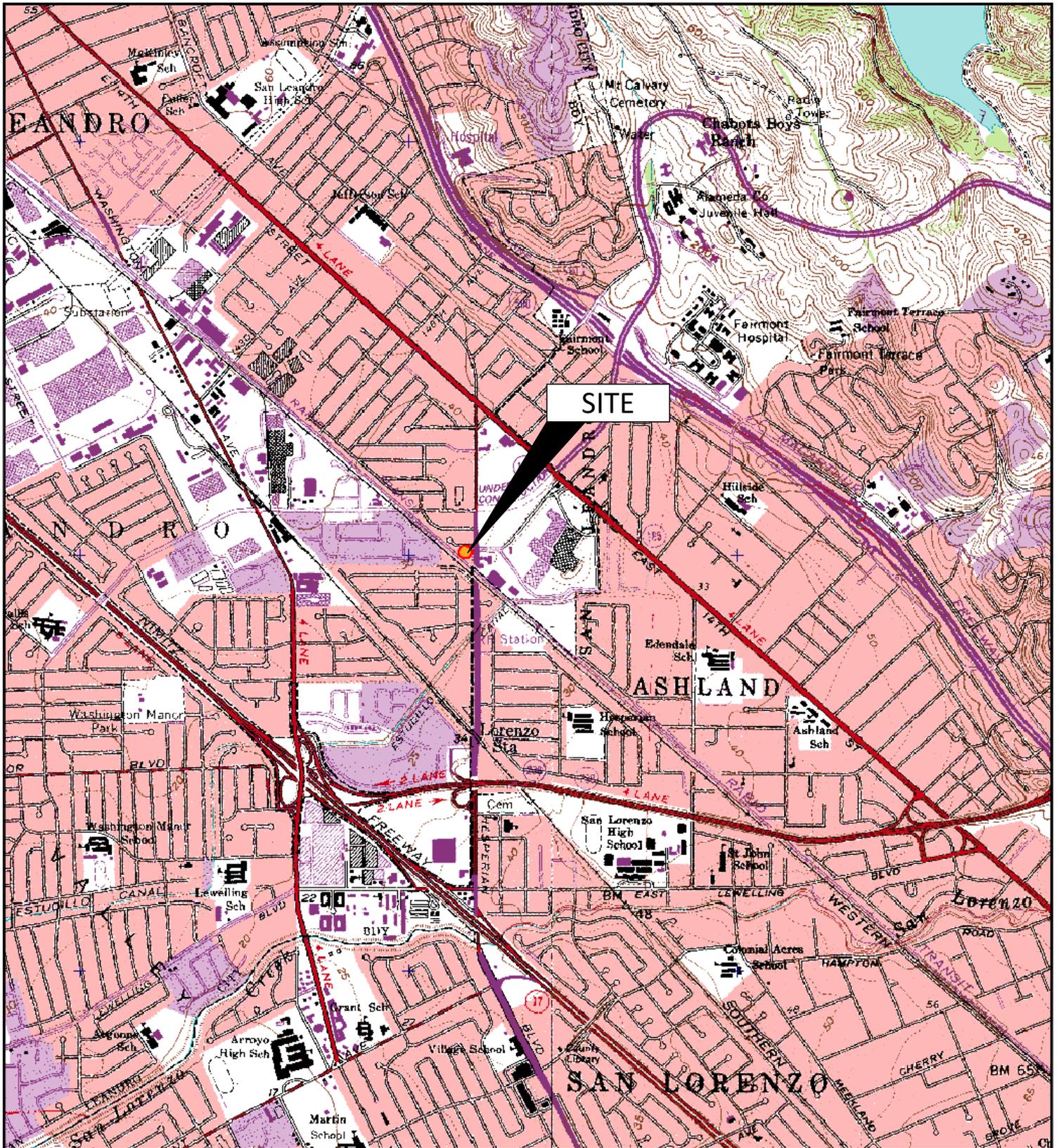


IMAGE SOURCE: USGS



2000 Kirman Ave.
Reno, Nevada 89502

Project No.: 06-88-620 Date: 7/2/2013

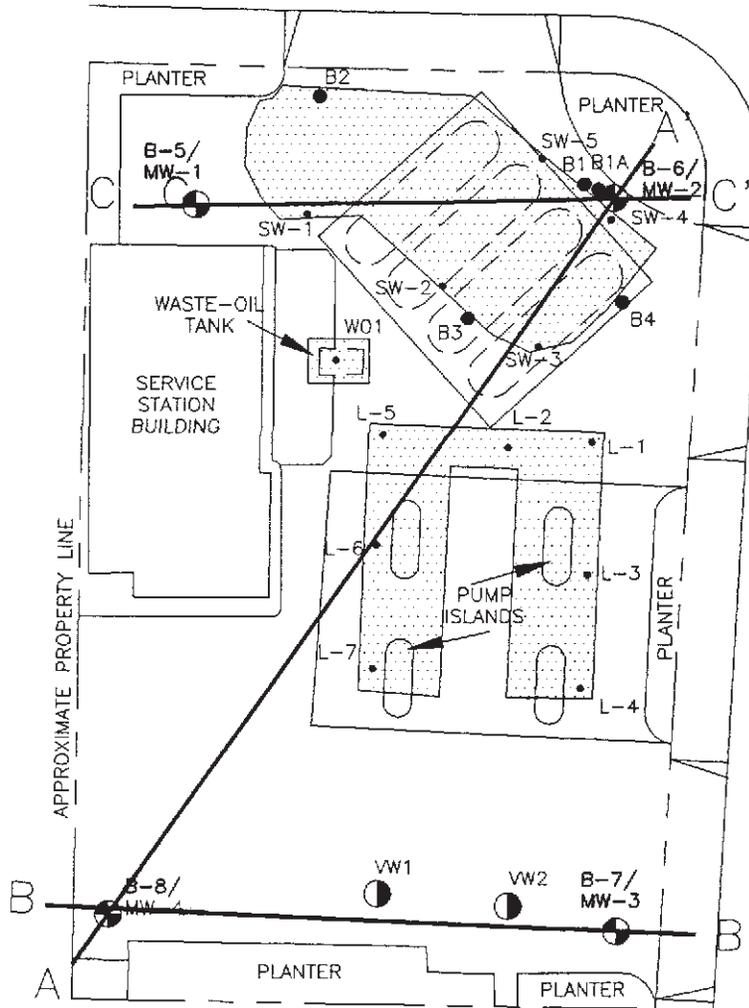
Station #2162
15135 Hesperian Boulevard
San Leandro, California

Site Location Map

Drawing

1

RUTH COURT



EXPLANATION

B-8/
MW-4 ● = Monitoring well RESNA September 1992

VW2 ● = Vapor extraction well
(Roux Associates, Inc., 1991)

B4 ● = Soil boring
(Roux Associates, Inc., 1991)

L-7 ● = Product line sample

SW-5 ● = Sidewall soil sample

 = Former underground storage tank
and product line excavations

 = Existing underground storage tank

Approximate Scale



Source: Modified from site plan provided by Roux Associates.
and survey data from John Koch, licensed
land surveyor (9/16/92)

RESNA
Working to Restore Nature

GENERALIZED SITE PLAN
ARCO Station 2162
15135 Hesperian Boulevard
San Leandro, California

PLATE

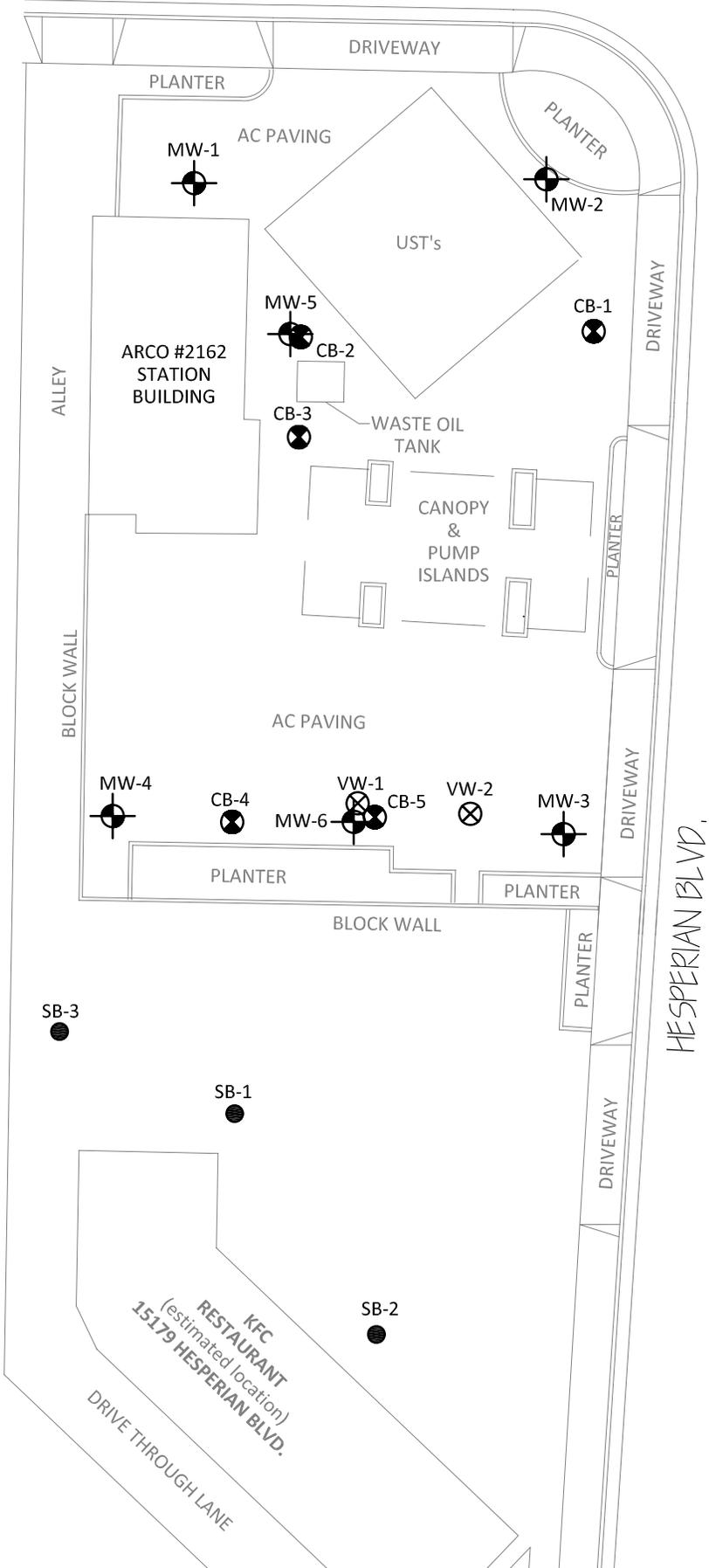
2

PROJECT 62019.02

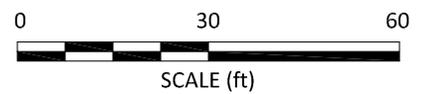
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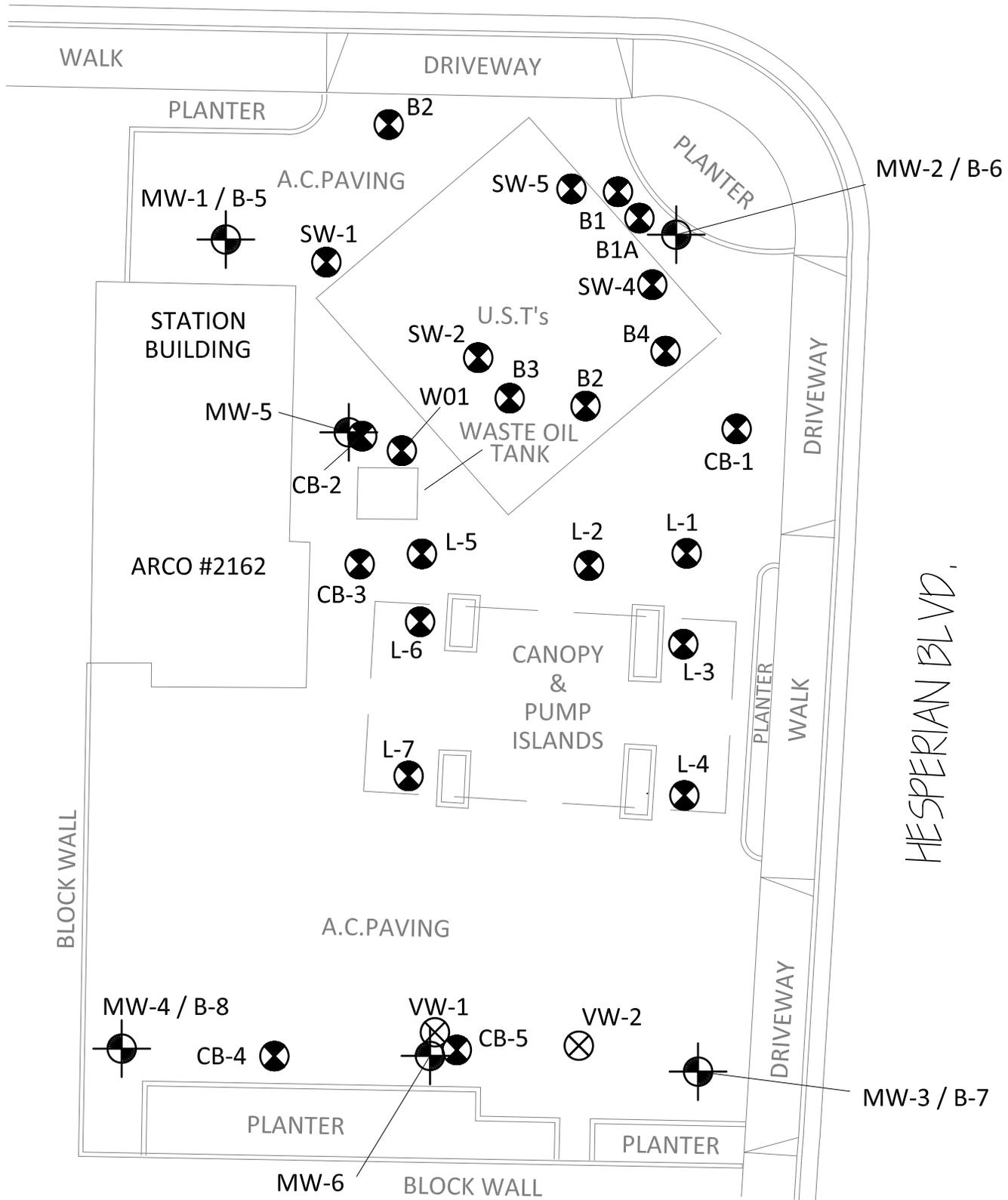
LEGEND

-  Groundwater Monitoring Well Location
-  Vapor Extraction Well Location
-  Soil Boring Location
-  Soil Boring Location (December 2013)



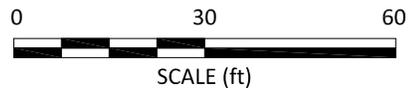
HESPERIAN BLVD.





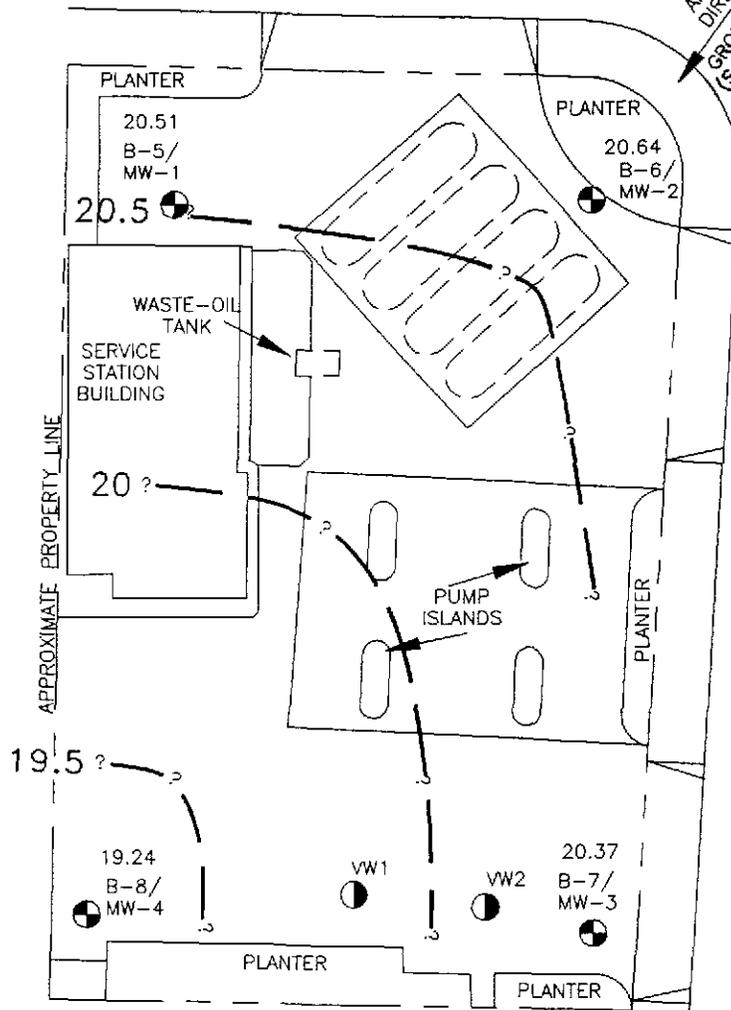
LEGEND

-  Groundwater Monitoring Well Location
-  Vapor Extraction Well Location
-  Soil Boring Location



RUTH COURT

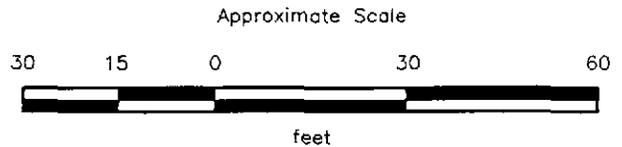
APPROXIMATE
DIRECTION OF
GROUNDWATER FLOW
(September 30, 1992)



HESPERIAN BOULEVARD

EXPLANATION

- B-8/MW-4 = Monitoring well RESNA September 1992
- VW2 = Vapor extraction well (Roux Associates, Inc., 1991)
- = Existing underground storage tank
- 20.5 — = Line of equal elevation of groundwater in feet above mean sea level (MSL)
- 20.64 = Elevation of groundwater in feet above MSL September 30, 1992



Source: Modified from site plan provided by Roux Associates and survey data from John Koch, licensed land surveyor (9/16/92)



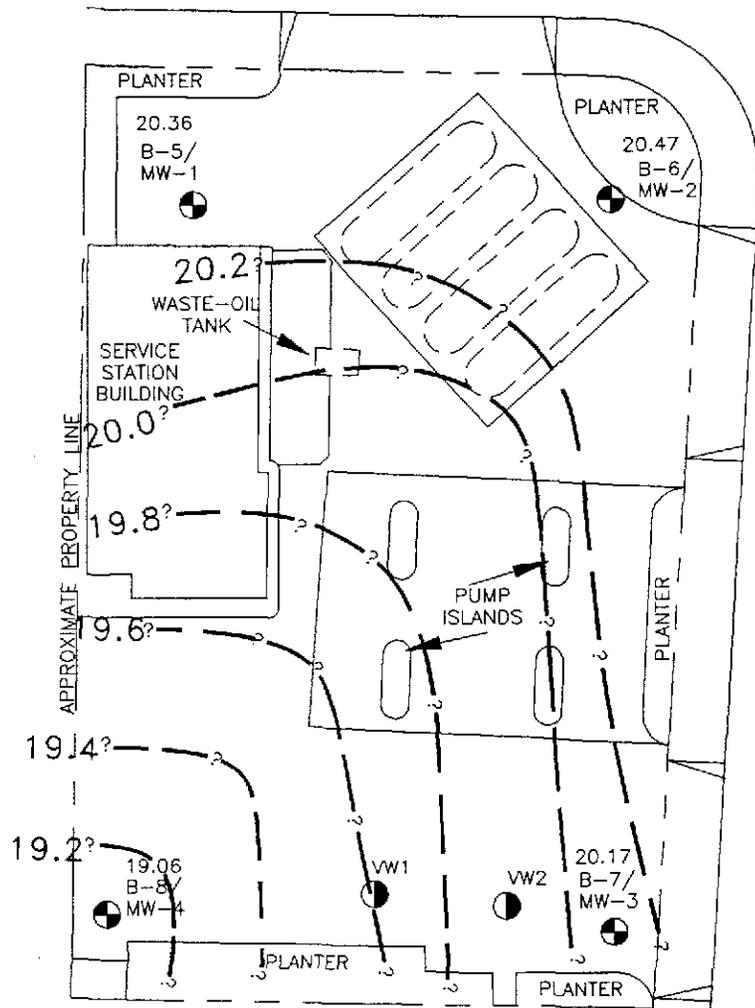
GROUNDWATER GRADIENT MAP
ARCO Station 2162
15135 Hesperian Boulevard
San Leandro, California

PLATE
10

PROJECT 62019.02

RUTH COURT

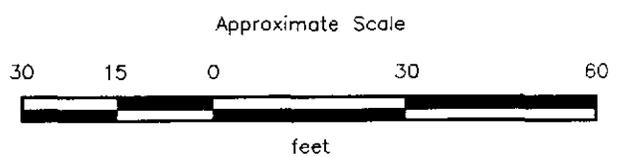
APPROXIMATE
DIRECTION OF
GROUNDWATER FLOW
(October 16, 1992)



HESPERIAN BOULEVARD

EXPLANATION

- B-8/
MW-4 = Monitoring well RESNA September 1992
- VW2 = Vapor extraction well
(Roux Associates, Inc., 1991)
- = Existing underground storage tank
- 20.2 — = Line of equal elevation of groundwater
in feet above mean sea level (MSL)
- 20.47 = Elevation of groundwater in feet above MSL
October 16, 1992



Source: Modified from site plan provided by Roux Associates,
and survey data from John Koch, licensed
land surveyor (9/16/92)

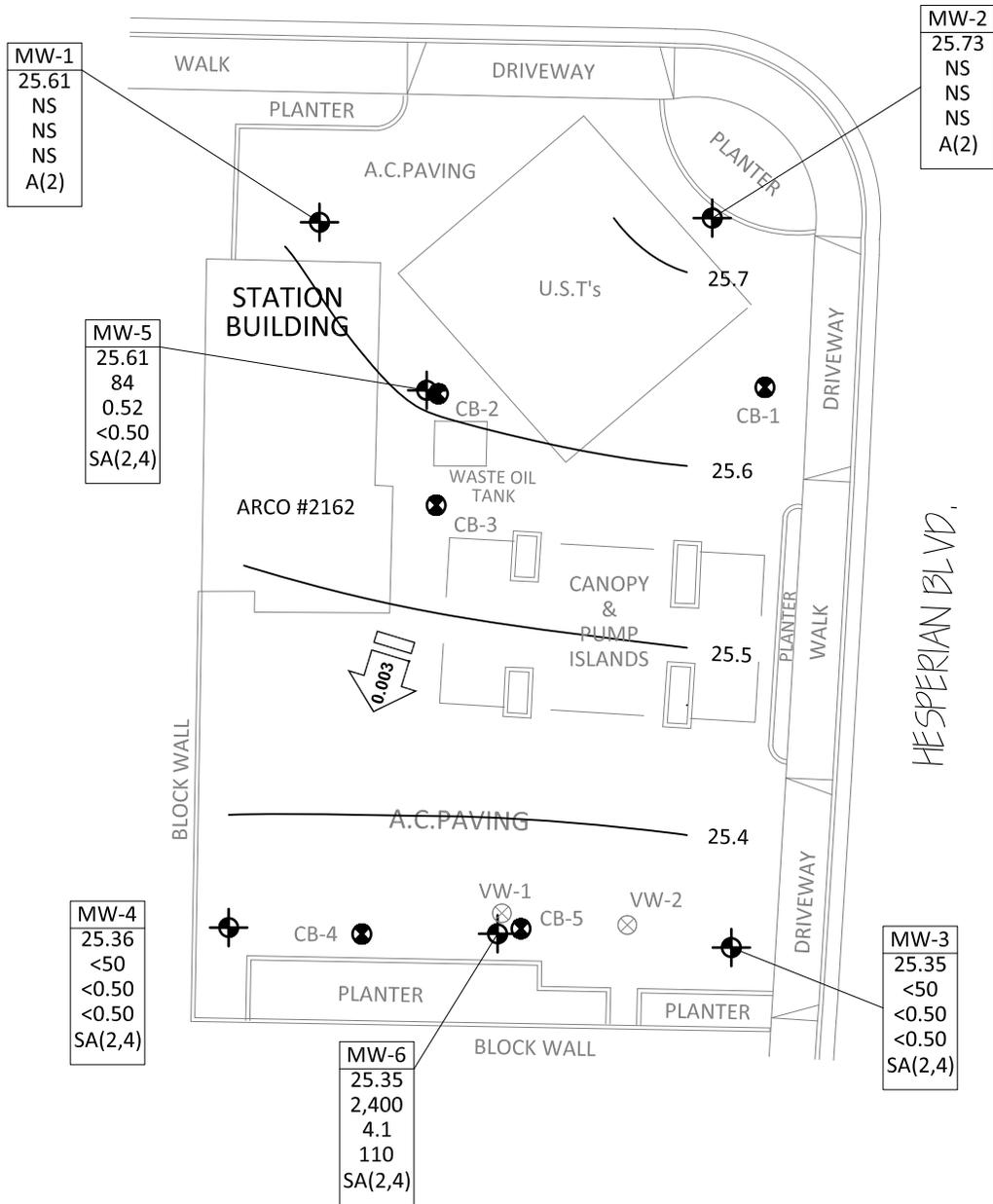


GROUNDWATER GRADIENT MAP
ARCO Station 2162
15135 Hesperian Boulevard
San Leandro, California

PLATE
11

PROJECT 62019.02

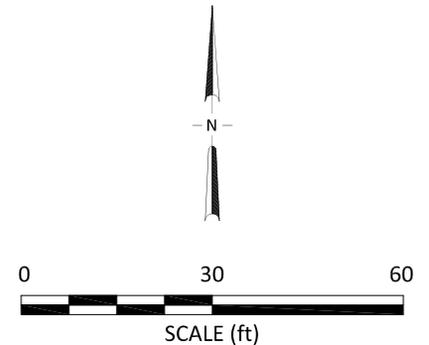
RUTH COURT

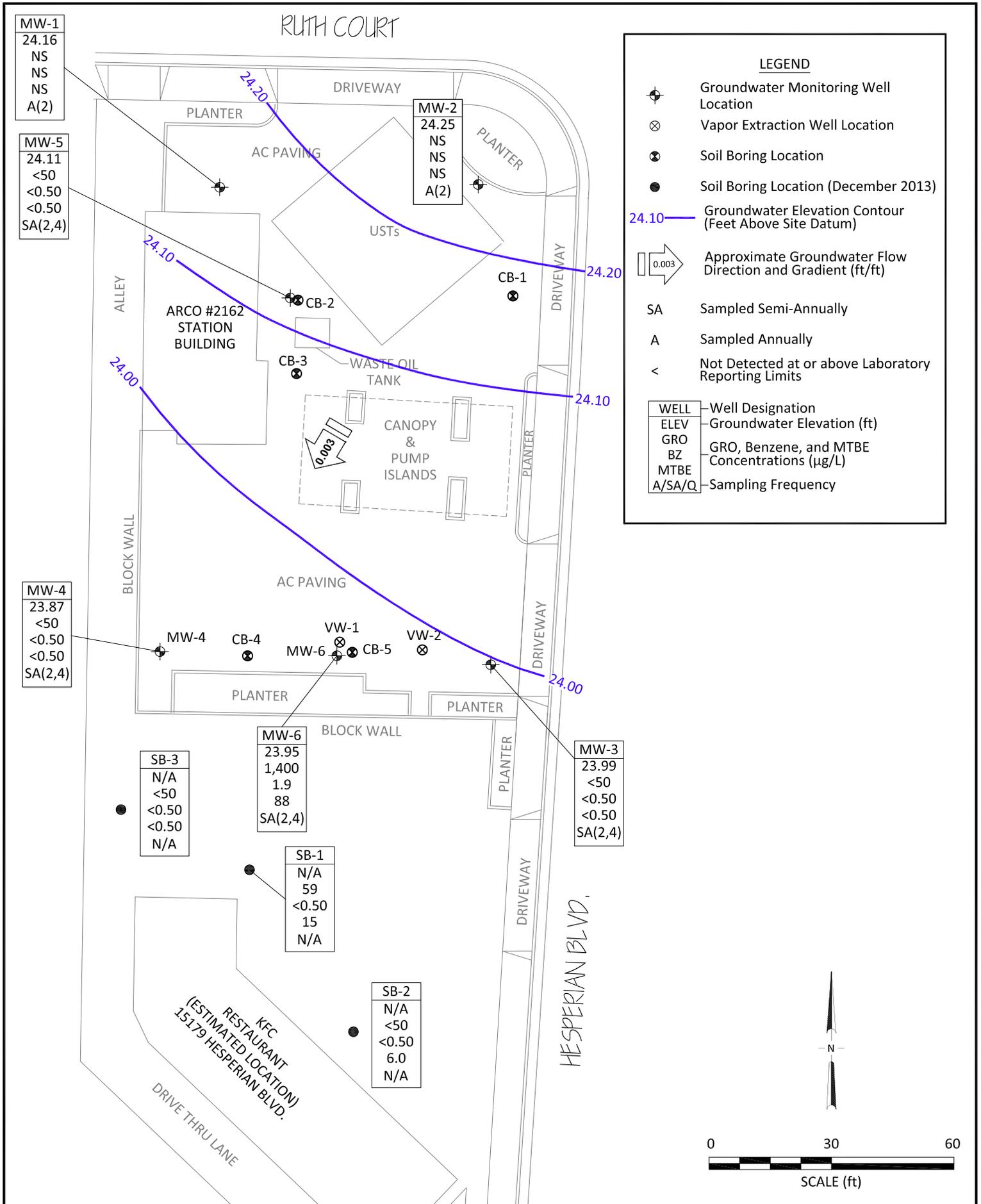


LEGEND

- Groundwater Monitoring Well Location
- Vapor Extraction Well Location
- Soil Boring Location
- 25.1 — Groundwater Elevation Contour (Feet Above Site Datum)
- Approximate Groundwater Flow Direction and Gradient (ft/ft)
- SA Sampled Semi-Annually
- * Data Not Used for Contouring
- < Not Detected at or above Laboratory Reporting Limits

| WELL | Well Designation |
|--------|--|
| ELEV | Groundwater Elevation (ft) |
| GRO | GRO, Benzene, and MTBE Concentrations (µg/L) |
| BZ | |
| MTBE | |
| A/SA/Q | Sampling Frequency |





MW-1
24.16
NS
NS
NS
A(2)

MW-5
24.11
<50
<0.50
<0.50
SA(2,4)

MW-4
23.87
<50
<0.50
<0.50
SA(2,4)

SB-3
N/A
<50
<0.50
<0.50
N/A

MW-6
23.95
1,400
1.9
88
SA(2,4)

SB-1
N/A
59
<0.50
15
N/A

SB-2
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<0.50
6.0
N/A

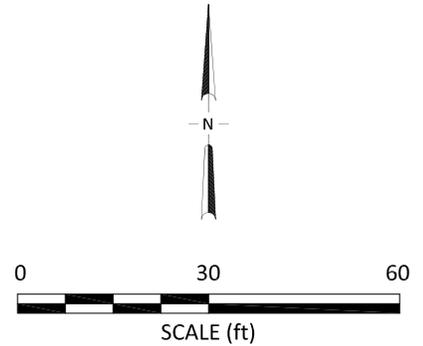
MW-2
24.25
NS
NS
NS
A(2)

MW-3
23.99
<50
<0.50
<0.50
SA(2,4)

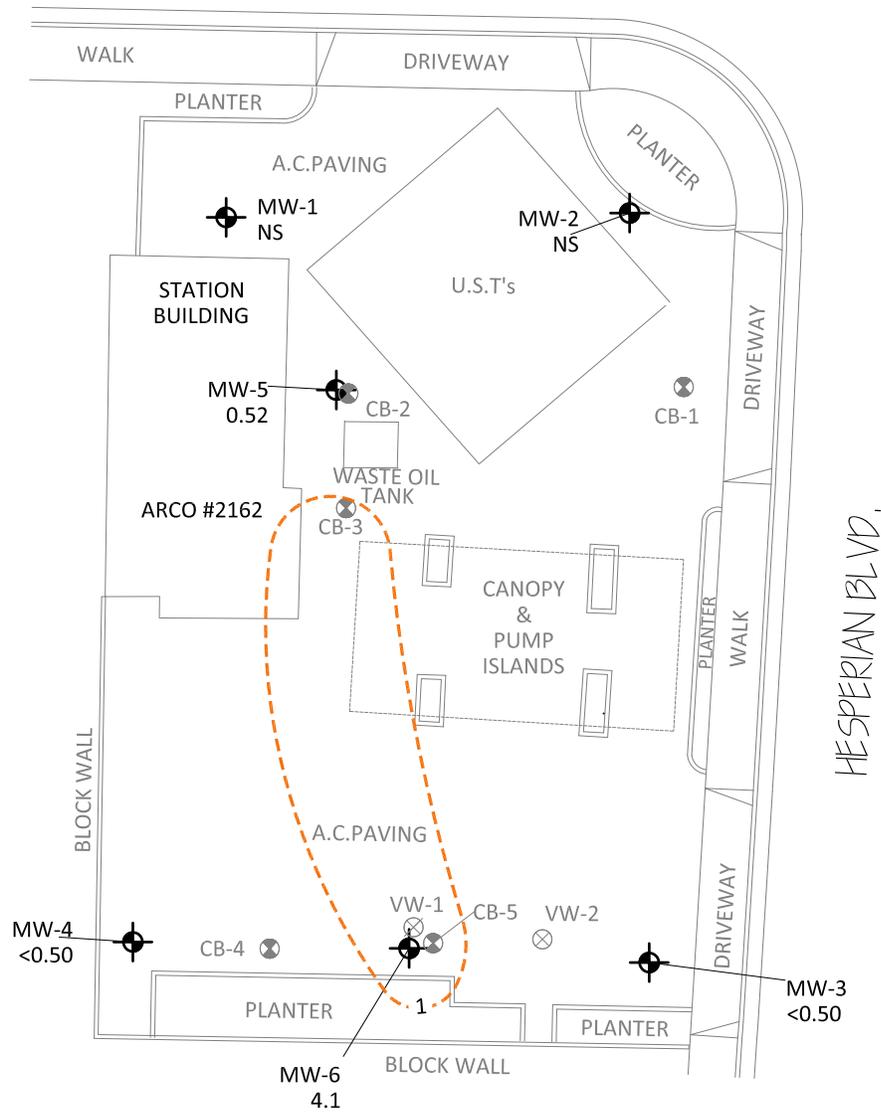
LEGEND

- Groundwater Monitoring Well Location
- Vapor Extraction Well Location
- Soil Boring Location
- Soil Boring Location (December 2013)
- 24.10 — Groundwater Elevation Contour (Feet Above Site Datum)
- 0.003 Approximate Groundwater Flow Direction and Gradient (ft/ft)
- SA Sampled Semi-Annually
- A Sampled Annually
- < Not Detected at or above Laboratory Reporting Limits

| | |
|--------|---|
| WELL | Well Designation |
| ELEV | Groundwater Elevation (ft) |
| GRO | GRO, Benzene, and MTBE Concentrations ($\mu\text{g/L}$) |
| BZ | |
| MTBE | |
| A/SA/Q | Sampling Frequency |

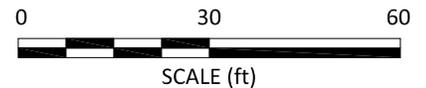
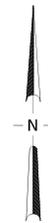


RUTH COURT

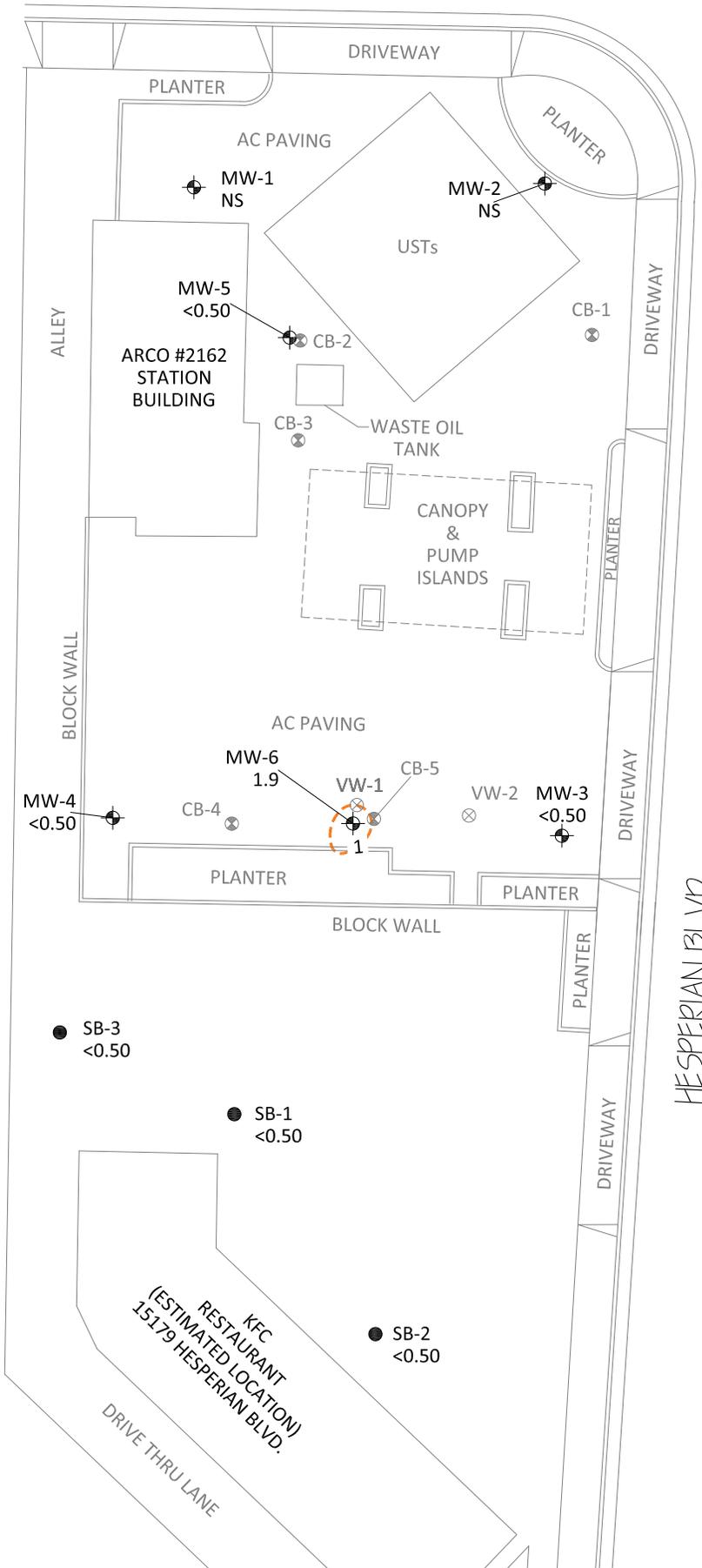


LEGEND

- Groundwater Monitoring Well Location with Benzene Concentration ($\mu\text{g/L}$)
- Vapor Extraction Well Location
- Soil Boring Location
- Benzene Isoconcentration Contour ($\mu\text{g/L}$)
- * Results from 4th Quarter, 2012



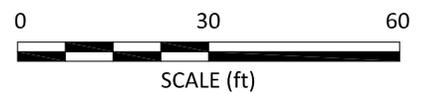
RUTH COURT



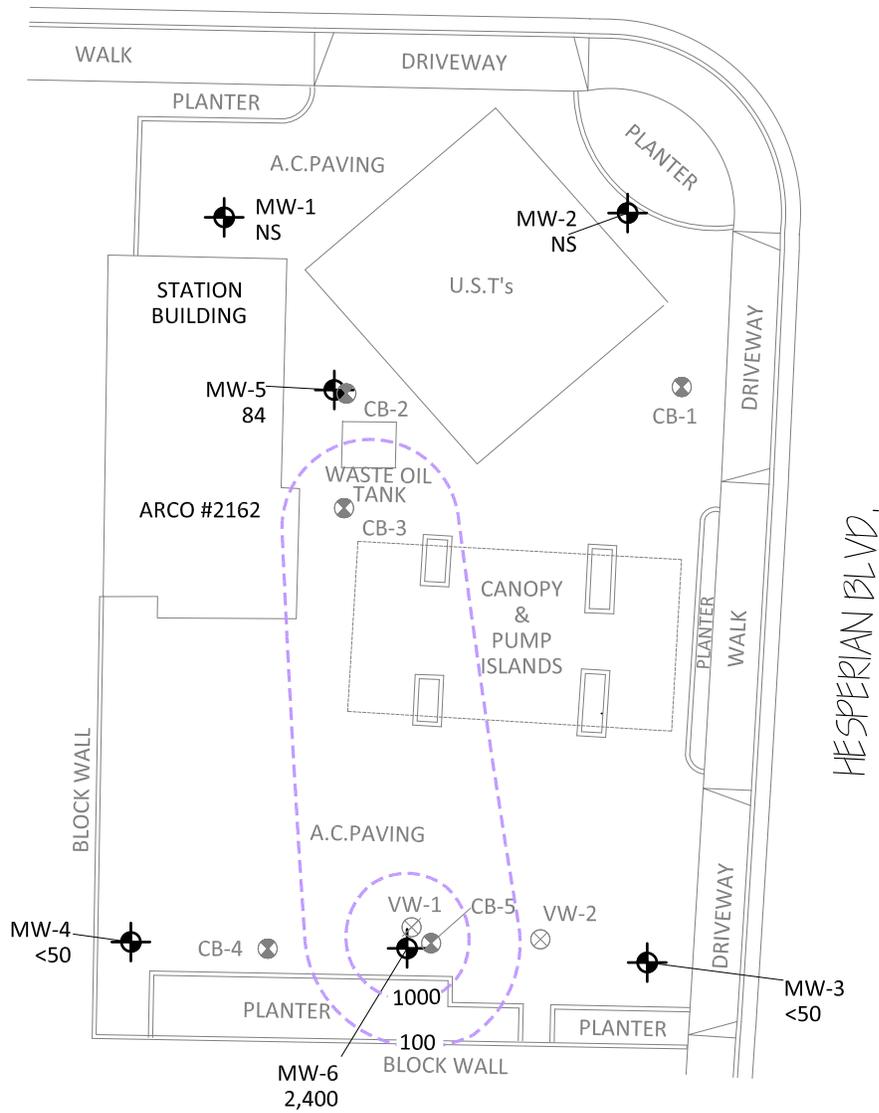
LEGEND

- Groundwater Monitoring Well Location with Benzene Concentration (µg/L)
- Vapor Extraction Well Location
- Soil Boring Location
- Soil Boring Location with Benzene Concentration (µg/L)
- Benzene Isoconcentration Contour (µg/L)
- NS Well Not Sampled

HESPERIAN BLVD.

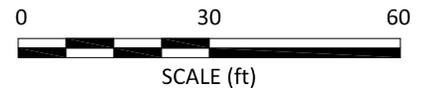
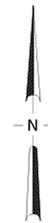


RUTH COURT

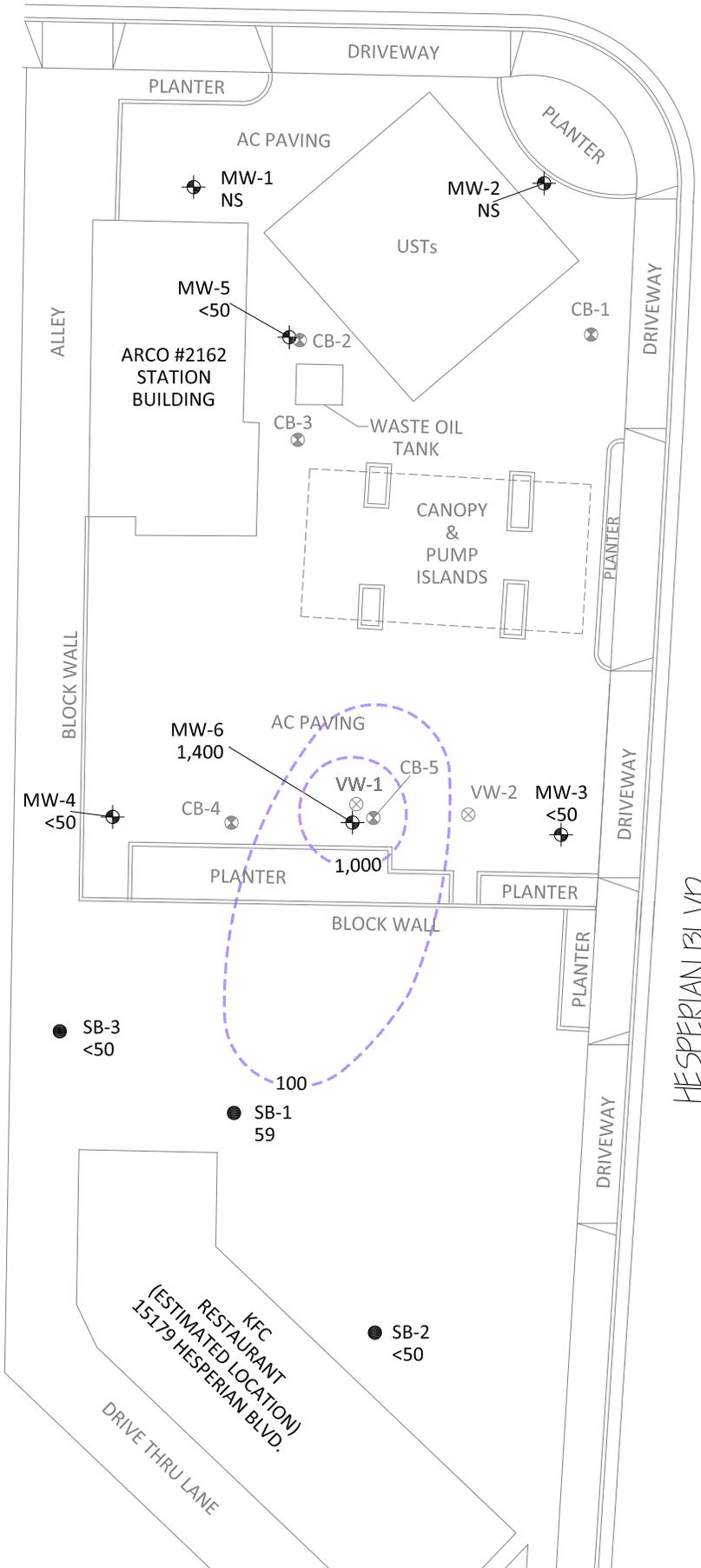


LEGEND

- Groundwater Monitoring Well Location with GRO Concentration Contour (µg/L)
- Vapor Extraction Well Location
- Soil Boring Location
- GRO Isoconcentration Contour (µg/L)
- * Results from 4th Quarter, 2012

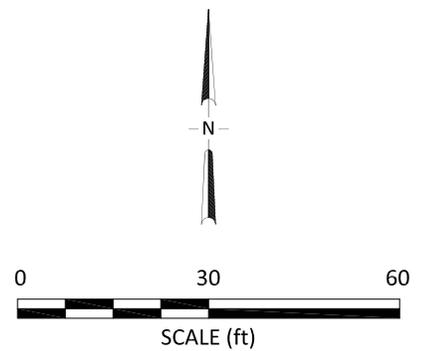


RUTH COURT

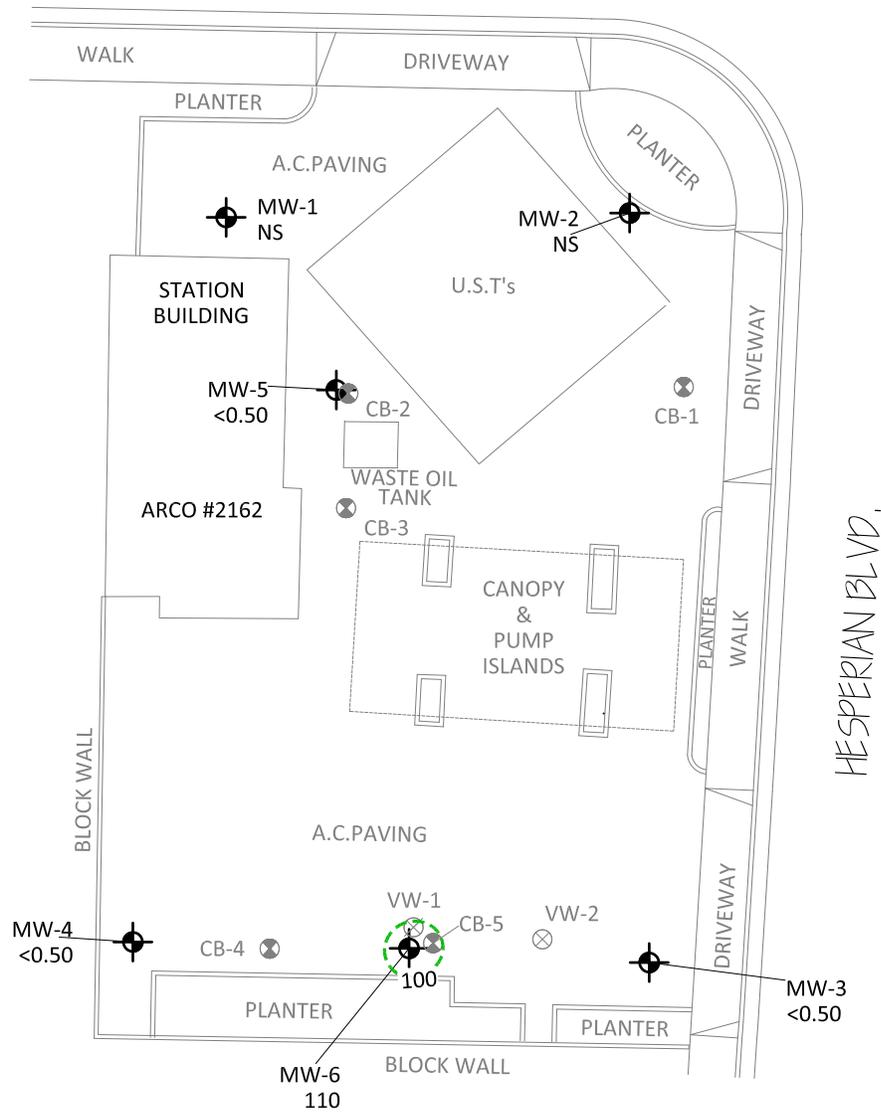


LEGEND

- Groundwater Monitoring Well Location with GRO Concentration (µg/L)
- Vapor Extraction Well Location
- Soil Boring Location
- Soil Boring Location with GRO Concentration (µg/L)
- GRO Isoconcentration Contour (µg/L)
- NS Well Not Sampled

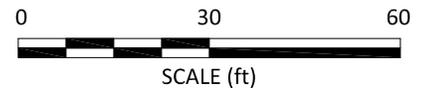
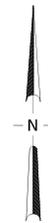


RUTH COURT

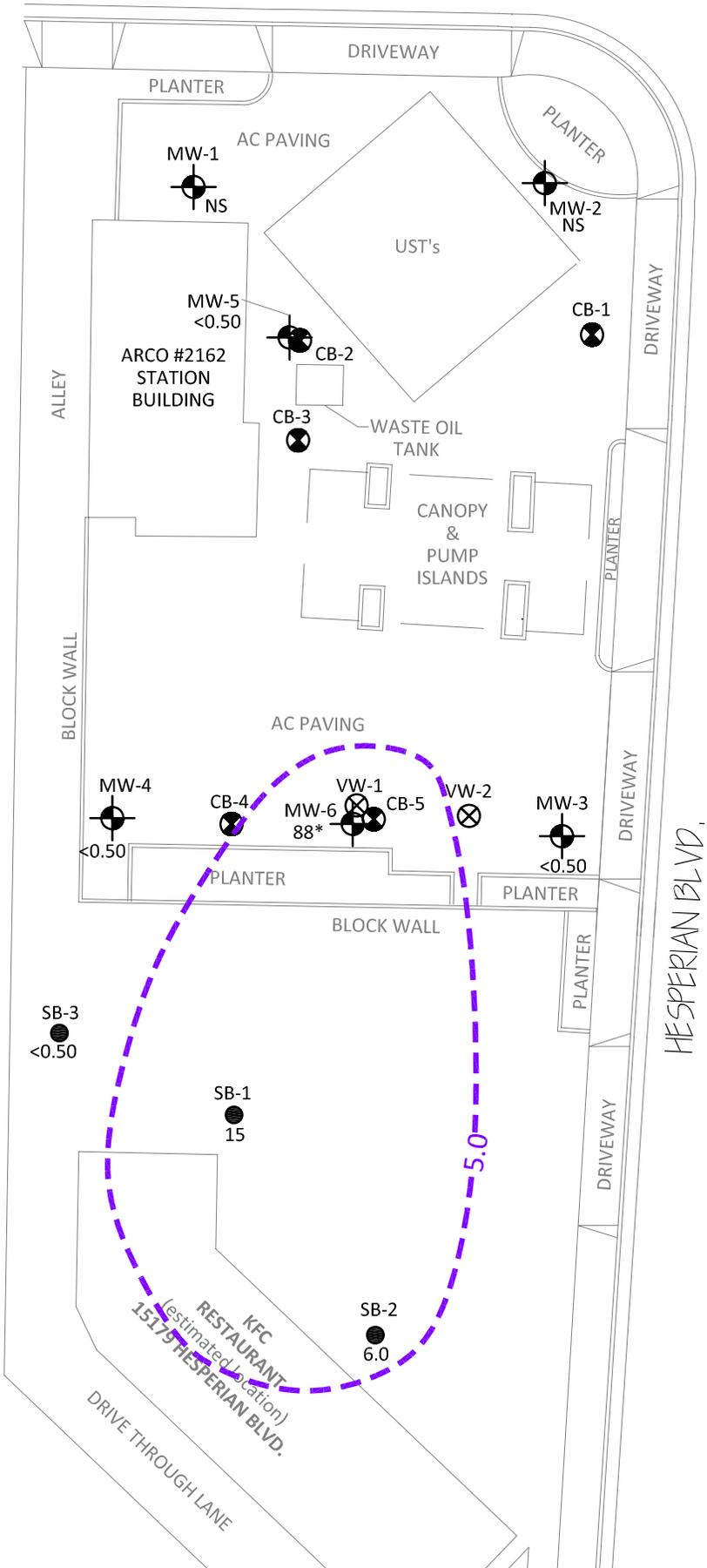


LEGEND

-  Groundwater Monitoring Well Location with MTBE Concentration ($\mu\text{g/L}$)
-  Vapor Extraction Well Location
-  Soil Boring Location
-  MTBE Isoconcentration Contour ($\mu\text{g/L}$)
- * Results from 4th Quarter, 2012



RUTH COURT

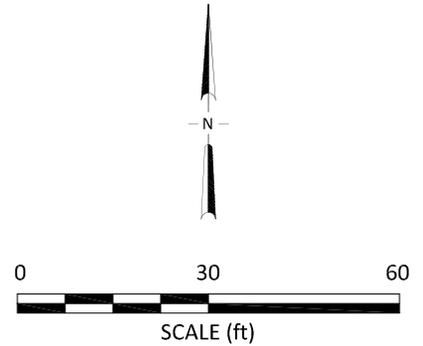


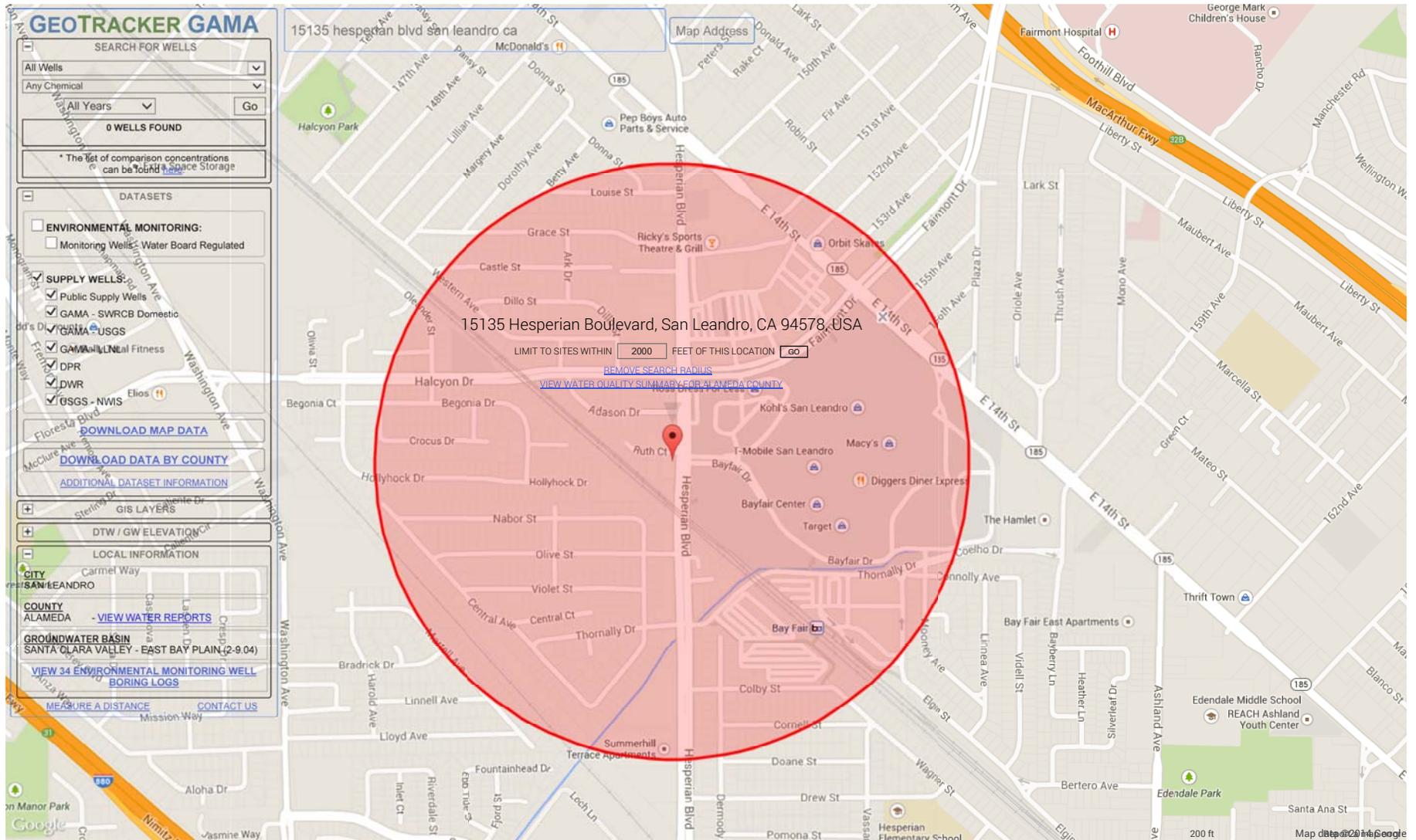
LEGEND

- Groundwater Monitoring Well Location
- Vapor Extraction Well Location
- Soil Boring Location
- Soil Boring Location (December 2013)
- NS Well Not Sampled
- * Maximum Historical Concentration-180µg/L
- MTBE Isoconcentration Contour (µg/L)

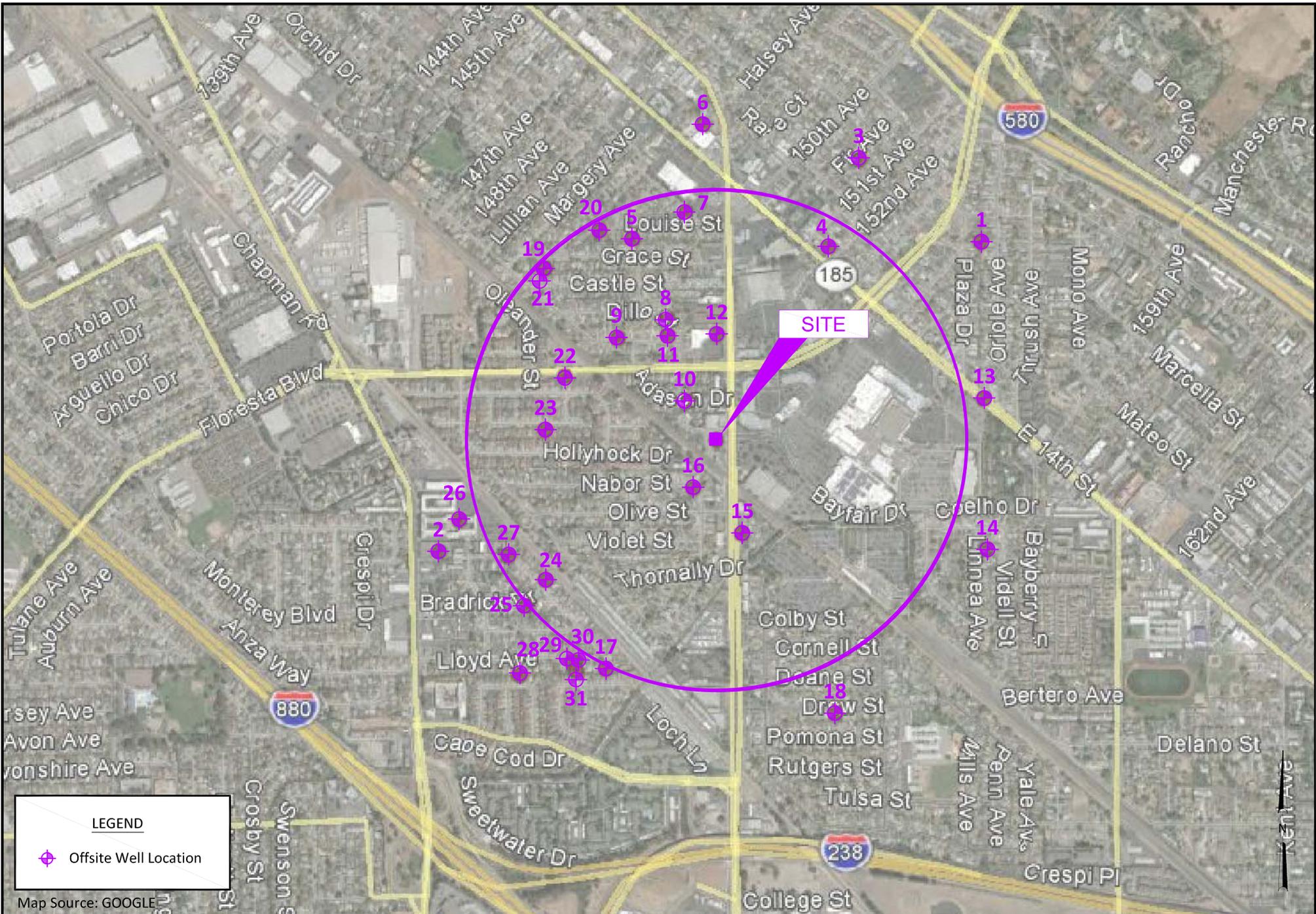
HESPERIAN BLVD.

KFC RESTAURANT
 (estimated location)
 15179 HESPERIAN BLVD.
 DRIVE THROUGH LANE





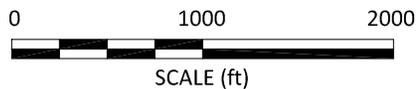
| LOCATIONS FOUND |
|-----------------|
| |



LEGEND

⊕ Offsite Well Location

Map Source: GOOGLE



BROADBENT
875 Cotting Lane, Suite G
Vacaville, California 95688
Project No.: 06-88-620 Date: 02/21/2014

ARCO Station No. 2162
15135 Hesperian Blvd.
San Leandro

ACPWA Well Survey Results

Figure 1 - Approximate Well Locations ARCO #2162 - 15135 Hesperian Blvd., CA

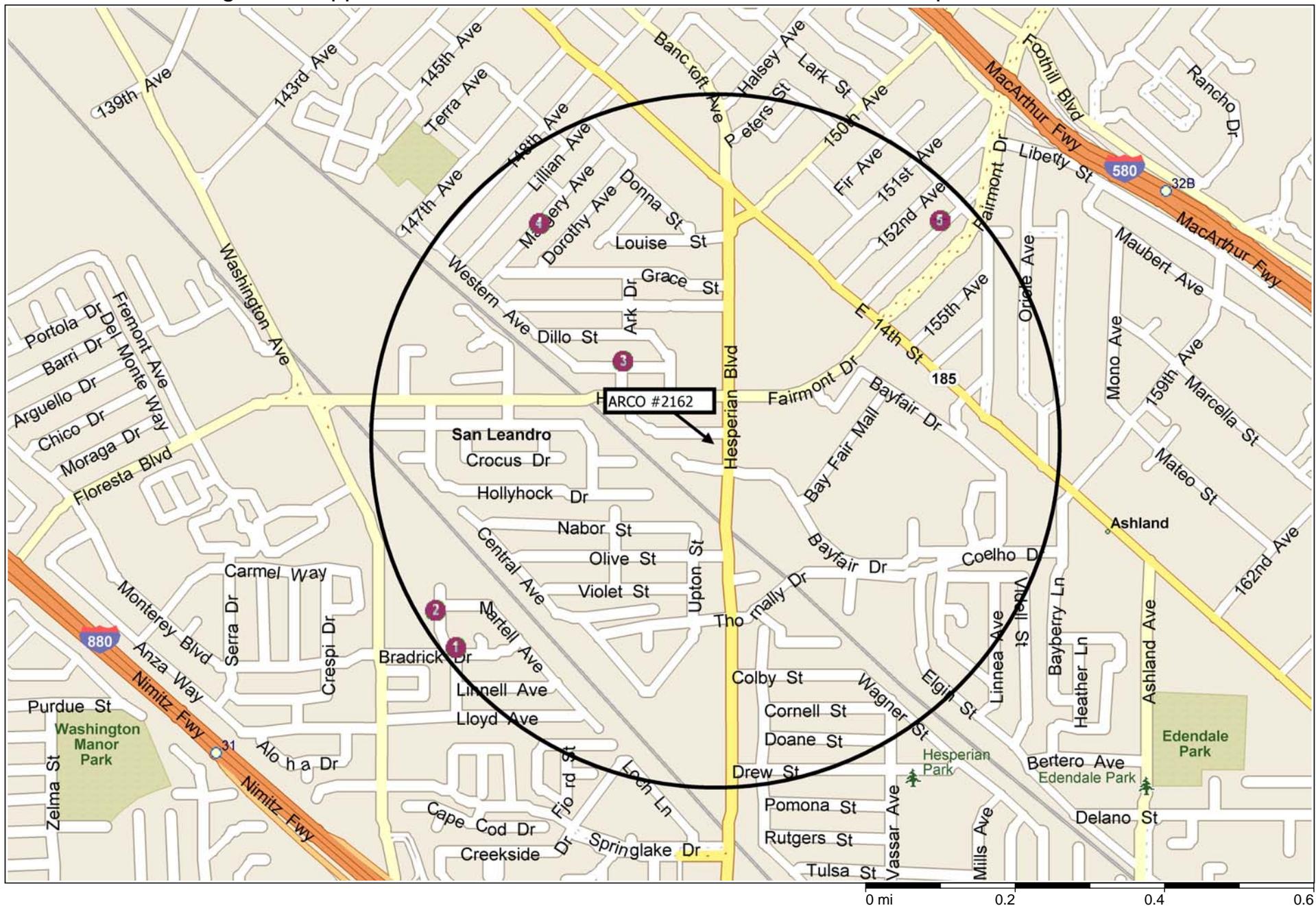


Table 1 - Wells Located Within 0.5-Mile Radius

ARCO Service Station No. 2162

15135 Hesperian Boulevard

San Leandro, California

| Map ID No. | Approximate Distance from Site | Well Type | Installation Date | Screen Interval |
|------------|--------------------------------|-----------|-------------------|-----------------|
| 1 | 2,250 ft. WSW | irr | Aug-56 | 15-30 ft. |
| 2 | 2,350 ft. WSW | irr | Nov-77 | 20-60 ft. |
| 3 | 1,050 ft. NW | irr | Mar-77 | 20-40 ft. |
| 3 | 1,100 ft. NW | irr | Mar-77 | 17-37 ft. |
| 4 | 2,250 ft. NW | irr | May-77 | 20-48 ft. |
| 4 | 2,350 ft. NW | dom | May-77 | 25-45 ft. |
| 5 | 2,500 ft. NNE | irr | Aug-77 | 10-30 ft. |

Abbreviations:

ft = feet

N = North

S = South

E = East

W = West

dom = domestic well

irr = irrigation well

mun = municipal well

pub = public well

unk = unknown

ATTACHMENT 7

**Table 2
Groundwater Flow Direction and Gradient**

**ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California**

| Date Measured | Average Flow Direction | Average Hydraulic Gradient |
|----------------------|-------------------------------|-----------------------------------|
| 02/26/96 | Southwest | 0.009 |
| 05/23/96 | South-Southwest | 0.010 |
| 08/21/96 | South-Southwest | 0.01 |
| 11/20/96 | South-Southwest | 0.011 |
| 04/01/97 | South-Southwest | 0.004 |
| 06/10/97 | South-Southwest | 0.010 |
| 09/17/97 | South-Southwest | 0.01 |
| 12/12/97 | Southwest | 0.01 |
| 03/25/98 | South-Southwest | 0.008 |
| 05/14/98 | Southwest | 0.01 |
| 07/31/98 | Southwest | 0.01 |
| 10/12/98 | Southwest | 0.01 |
| 02/11/99 | Southwest | 0.008 |
| 06/23/99 | Southwest | 0.02 |
| 08/23/99 | Southwest | 0.013 |
| 10/27/99 | South-Southwest | 0.02 |
| 02/09/00 | Southwest | 0.01 |

3. Summary of Groundwater Gradient - Direction and Magnitude
ARCO Service Station #2162, 15135 Hesperian Blvd., San Leandro, CA

| Date Measured | Approximate Gradient Direction | Approximate Gradient Magnitude (ft/ft) |
|----------------------|---------------------------------------|---|
| 3/23/2001 | Southwest | 0.011 |
| 6/20/2001 | Southwest | 0.013 |
| 9/22/2001 | Southwest | 0.012 |
| 12/28/2001 | Southwest | 0.010 |
| 3/14/2002 | Southwest | 0.011 |
| 4/18/2002 | Southwest | 0.012 |
| 7/19/2002 | Southwest | 0.012 |
| 10/9/2002 | Southwest | 0.013 |
| 3/28/2003 | Southwest | 0.013 |
| 4/7/2003 | Southwest | 0.011 |
| 7/9/2003 | Southwest | 0.010 |
| 10/8/2003 | Southwest | 0.010 |
| 1/15/2004 | Southwest | 0.008 |
| 4/5/2004 | South-Southwest | 0.004 |
| 7/12/2004 | South and Southwest | 0.003 and 0.005 |
| 10/19/2004 | Southwest | 0.004 |
| 1/11/2005 | Southwest (a) to Southeast (b) | 0.005 to 0.004 |
| 4/14/2005 | Southeast | 0.004 |
| 8/1/2005 | Southwest | 0.002 |
| 7/31/2006 | South-Southwest | 0.003 |
| 6/12/2009 | South | 0.003 |
| 11/6/2009 | South-Southwest | 0.003 |
| 6/4/2010 | South-Southwest | 0.004 |
| 11/19/2010 | South-Southwest | 0.003 |
| 5/19/2011 | South-Southeast | 0.003 |
| 12/1/2011 | South-Southwest | 0.001 |
| 6/21/2012 | South-Southwest | 0.003 |
| 12/20/2012 | South-Southwest | 0.003 |
| 6/13/2013 | South-Southwest | 0.003 |
| 12/2/2013 | Southwest | 0.003 |
| 5/27/2014 | Southwest | 0.003 |

Footnotes:

a = Direction at underground storage tanks

b = Direction at dispensers

Notes:

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

Table 3
Grab-Groundwater Analytical Results
December 2013 Soil Boring Investigation
ARCO Station No. 2162
15135 Hesperian Boulevard, San Leandro, California

| Boring Identification | Grab-Groundwater Sample Depth (feet bgs) | Date Collected | GRO (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | ETBE (µg/L) | TAME (µg/L) | TBA (µg/L) | DIPE (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | Ethanol (µg/L) | Naphthalene (µg/L) |
|-----------------------|--|----------------|------------|----------------|----------------|---------------------|----------------------|-------------|-------------|-------------|------------|-------------|----------------|------------|----------------|--------------------|
| SB-1 | 10 | 12/23/2013 | 59 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 15 | ND<0.50 | 0.92 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<150 | ND<1.0 |
| SB-2 | 10 | 12/21/2013 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | 6.0 | ND<0.50 | ND<0.50 | ND<10 | ND<0.50 | ND<0.50 | ND<0.50 | ND<150 | ND<1.0 |
| SB-3 | 10 | 12/23/2013 | ND<50 | ND<0.50 | ND<0.50 | ND<0.50 | ND<1.0 | ND<0.50 | ND<0.50 | ND<0.50 | ND<10 | ND<0.50 | ND<0.50 | ND<0.50 | ND<150 | ND<1.0 |
| ESLs | | | 100 | 1.0 | 40 | 30 | 20 | 5 | NA | NA | NA | NA | 0.5 | 0.5 | 5000 | 17 |

Notes:

feet bgs = feet below ground surface
µg/L = micrograms per liter
GRO = gasoline range organics (C6-C12)
MTBE = methyl tert-butyl ether
ETBE = ethyl tert-butyl ether
TAME = tert-amyl methyl ether
TBA = tert butyl alcohol
DIPE = di isopropyl ether
1,2-DCA = 1,2-dichloroethane
EDB = 1,2-dibromoethane

ND<X.XX = not detected above reporting limit of X.XX µg/L
ESLs = Environmental Screening Levels as presented in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater - Interim Final December 2013* assuming a commercial/industrial exposure scenario where groundwater is a potential drinking water resource

**Table 5 Summary of Depth-Discrete Ground-Water Sampling Data
Atlantic Richfield Company Station No. 2162
15135 Hesperian Boulevard, San Leandro, California (ACEH Case No. RO0000190)**

| Boring I.D. | Date | Laboratory Analytical Results (µg/l) | | | | | | | | | | | | | |
|-------------|-----------|--------------------------------------|--------------|------------|---------|--------------|---------------|-------------|-------|-------|------|------------|---------|-------|---------|
| | | GRO | DRO | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | DIPE | ETBE | TBA | TAME | Ethanol | EDB | 1,2 DCA |
| CB1-W | 7/17/2007 | <50 | <47 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <20 | <0.50 | <300 | <0.50 | <0.50 |
| CB2-W | 7/17/2007 | 1,900 | 2,000 | 12 | <2.5 | 110 | 140 | <2.5 | <2.5 | <2.5 | <100 | <2.5 | <1,500 | <2.5 | <2.5 |
| CB3-W | 7/17/2007 | 490 | 440 | <0.50 | <0.50 | 0.92 | <0.50 | 0.82 | <0.50 | <0.50 | <20 | <0.50 | <300 | <0.50 | <0.50 |
| CB4-W | 7/17/2007 | <50 | 220 | 1.0 | <0.50 | <0.50 | <0.50 | 20 | <0.50 | <0.50 | <20 | <0.50 | <300 | <0.50 | <0.50 |
| CB5-W | 7/17/2007 | 490 | 360 | 2.1 | <0.50 | <0.50 | <0.50 | 70 | <0.50 | <0.50 | <20 | 3.9 | <300 | <0.50 | <0.50 |

Bolded values indicate concentrations above laboratory detection limits

GRO = Gasoline Range Organics, C4-C12

MTBE = Methyl tert-butyl ether

ETBE = Ethyl tert-butyl ether

TAME = Tertiary amyl methyl ether

1,2 DCA = 1,2 Dichloroethane

DRO = Diesel Range Organics, C10-C36

DIPE = Di-isopropyl ether

TBA = Tertiary butyl alcohol

EDB = 1,2-Dibromoethane

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

ARCO Service Station #2162, 15135 Hesperian Blvd., San Leandro, CA

| Well ID and Date Monitored | P/NP | TOC (feet) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (feet) | Water Level Elevation (feet) | Concentrations in µg/L | | | | | | DO (mg/L) | pH | Footnote |
|----------------------------|------|------------|------------------------|---------------------------|------------|------------------------------|------------------------|---------|---------|---------------|---------------|-------|-----------|------|----------|
| | | | | | | | GRO/TPHg | Benzene | Toluene | Ethyl-Benzene | Total Xylenes | MTBE | | | |
| MW-1 | | | | | | | | | | | | | | | |
| 6/20/2000 | -- | 31.19 | 8.00 | 16.00 | 8.33 | 22.86 | <50 | <0.5 | 0.8 | <0.5 | <1.0 | <10 | -- | -- | |
| 9/29/2000 | -- | | 8.00 | 16.00 | 9.07 | 22.12 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | |
| 12/17/2000 | -- | | 8.00 | 16.00 | 8.69 | 22.50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | |
| 3/23/2001 | -- | | 8.00 | 16.00 | 8.19 | 23.00 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | |
| 6/20/2001 | -- | | 8.00 | 16.00 | 8.97 | 22.22 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | |
| 9/22/2001 | -- | | 8.00 | 16.00 | 9.56 | 21.63 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | |
| 12/28/2001 | -- | | 8.00 | 16.00 | 8.40 | 22.79 | <50 | <0.5 | <0.5 | <0.5 | 0.63 | <2.5 | -- | -- | |
| 3/14/2002 | -- | | 8.00 | 16.00 | 8.05 | 23.14 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 170 | -- | -- | |
| 4/18/2002 | -- | | 8.00 | 16.00 | 8.27 | 22.92 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | |
| 7/19/2002 | NP | | 8.00 | 16.00 | 8.88 | 22.31 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 11 | 1.0 | 8.2 | |
| 10/09/02 | NP | | 8.00 | 16.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | a |
| 03/28/2003 | NP | | 8.00 | 16.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | a, c |
| 4/7/2003 | NP | | 8.00 | 16.00 | 8.28 | 22.91 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.6 | 6.9 | |
| 7/9/2003 | NP | | 8.00 | 16.00 | 8.62 | 22.57 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.1 | 7.2 | |
| 10/08/2003 | -- | 31.13 | 8.00 | 16.00 | 9.19 | 21.94 | -- | -- | -- | -- | -- | -- | -- | -- | d, e |
| 01/13/2004 | -- | | 8.00 | 16.00 | 8.35 | 22.78 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 04/05/2004 | -- | 33.70 | 8.00 | 16.00 | 7.29 | 26.41 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 07/12/2004 | NP | | 8.00 | 16.00 | 9.00 | 24.70 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.8 | 7.0 | |
| 10/19/2004 | -- | | 8.00 | 16.00 | 9.47 | 24.23 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 01/11/2005 | -- | | 8.00 | 16.00 | 7.64 | 26.06 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 04/14/2005 | -- | | 8.00 | 16.00 | 7.35 | 26.35 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 08/01/2005 | -- | | 8.00 | 16.00 | 8.21 | 25.49 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 7/31/2006 | -- | | 8.00 | 16.00 | 8.10 | 25.60 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/12/2009 | P | | 8.00 | 16.00 | 8.93 | 24.77 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.59 | 7.40 | |
| 11/6/2009 | -- | | 8.00 | 16.00 | 9.18 | 24.52 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/4/2010 | P | | 8.00 | 16.00 | 8.13 | 25.57 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.31 | 7.2 | |
| 11/19/2010 | -- | | 8.00 | 16.00 | 9.28 | 24.42 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 5/19/2011 | P | | 8.00 | 16.00 | 7.76 | 25.94 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.36 | 6.8 | |
| 12/1/2011 | -- | | 8.00 | 16.00 | 8.40 | 25.30 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/21/2012 | P | | 8.00 | 16.00 | 8.49 | 25.21 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.73 | 7.39 | |

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

ARCO Service Station #2162, 15135 Hesperian Blvd., San Leandro, CA

| Well ID and Date Monitored | P/NP | TOC (feet) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (feet) | Water Level Elevation (feet) | Concentrations in µg/L | | | | | | DO (mg/L) | pH | Footnote |
|----------------------------|------|------------|------------------------|---------------------------|------------|------------------------------|------------------------|---------|---------|---------------|---------------|-------|-----------|------|----------|
| | | | | | | | GRO/TPHg | Benzene | Toluene | Ethyl-Benzene | Total Xylenes | MTBE | | | |
| MW-1 Cont. | | | | | | | | | | | | | | | |
| 12/20/2012 | -- | 33.70 | 8.00 | 16.00 | 8.09 | 25.61 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/13/2013 | P | | 8.00 | 16.00 | 8.94 | 24.76 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 2.08 | 6.76 | |
| 12/2/2013 | -- | | 8.00 | 16.00 | 9.54 | 24.16 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 5/27/2014 | P | | 8.00 | 16.00 | 9.03 | 24.67 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 2.82 | 7.02 | |
| MW-2 | | | | | | | | | | | | | | | |
| 6/20/2000 | -- | 30.38 | 8.00 | 16.00 | 7.38 | 23.00 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/29/2000 | -- | | 8.00 | 16.00 | 8.08 | 22.30 | 266 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | |
| 12/17/2000 | -- | | 8.00 | 16.00 | 7.80 | 22.58 | 175 | <0.5 | <0.5 | 0.659 | <0.5 | <2.5 | -- | -- | |
| 3/23/2001 | -- | | 8.00 | 16.00 | 7.23 | 23.15 | 351 | <0.5 | <0.5 | 0.912 | <0.5 | <2.5 | -- | -- | |
| 6/20/2001 | -- | | 8.00 | 16.00 | 7.98 | 22.40 | 360 | <0.5 | <0.5 | 0.74 | <0.5 | <2.5 | -- | -- | |
| 9/22/2001 | -- | | 8.00 | 16.00 | 8.55 | 21.83 | 190 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | |
| 12/28/2001 | -- | | 8.00 | 16.00 | 7.53 | 22.85 | 130 | <0.5 | 0.93 | <0.5 | 0.51 | <2.5 | -- | -- | |
| 3/14/2002 | -- | | 8.00 | 16.00 | 7.17 | 23.21 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | |
| 4/18/2002 | -- | | 8.00 | 16.00 | 7.31 | 23.07 | 74 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | |
| 7/19/2002 | P | | 8.00 | 16.00 | 7.93 | 22.45 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | 1.1 | 7.6 | |
| 10/9/2002 | P | | 8.00 | 16.00 | 8.55 | 21.83 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | 0.7 | 7.3 | |
| 03/28/2003 | P | | 8.00 | 16.00 | 7.30 | 23.08 | <50 | <0.50 | 0.83 | <0.50 | <0.50 | <0.50 | 1.48 | 7.7 | c |
| 4/7/2003 | P | | 8.00 | 16.00 | 7.36 | 23.02 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.4 | 7.0 | |
| 7/9/2003 | P | | 8.00 | 16.00 | 7.71 | 22.67 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.5 | 7.6 | |
| 10/08/2003 | -- | | 8.00 | 16.00 | 8.25 | 22.13 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 01/13/2004 | -- | | 8.00 | 16.00 | 7.55 | 22.83 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 04/05/2004 | -- | 32.97 | 8.00 | 16.00 | 7.29 | 25.68 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 07/12/2004 | NP | | 8.00 | 16.00 | 8.09 | 24.88 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.4 | 7.2 | |
| 10/19/2004 | -- | | 8.00 | 16.00 | 8.29 | 24.68 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 01/11/2005 | -- | | 8.00 | 16.00 | 6.81 | 26.16 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 04/14/2005 | -- | | 8.00 | 16.00 | 6.69 | 26.28 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 08/01/2005 | -- | | 8.00 | 16.00 | 7.40 | 25.57 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 7/31/2006 | -- | | 8.00 | 16.00 | 7.22 | 25.75 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/12/2009 | P | 32.95 | 8.00 | 16.00 | 8.18 | 24.77 | 51 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.60 | 7.55 | |
| 11/6/2009 | -- | | 8.00 | 16.00 | 8.32 | 24.63 | -- | -- | -- | -- | -- | -- | -- | -- | |

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

ARCO Service Station #2162, 15135 Hesperian Blvd., San Leandro, CA

| Well ID and Date Monitored | P/NP | TOC (feet) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (feet) | Water Level Elevation (feet) | Concentrations in µg/L | | | | | | DO (mg/L) | pH | Footnote |
|----------------------------|----------|------------|------------------------|---------------------------|-------------|------------------------------|------------------------|-----------------|-----------------|-----------------|----------------|-----------------|-------------|-------------|-----------|
| | | | | | | | GRO/TPHg | Benzene | Toluene | Ethyl-Benzene | Total Xylenes | MTBE | | | |
| MW-2 Cont. | | | | | | | | | | | | | | | |
| 6/4/2010 | P | 32.95 | 8.00 | 16.00 | 7.24 | 25.71 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 7.33 | |
| 11/19/2010 | -- | | 8.00 | 16.00 | 8.38 | 24.57 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 5/19/2011 | P | | 8.00 | 16.00 | 7.12 | 25.83 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.24 | 9.0 | |
| 12/1/2011 | -- | | 8.00 | 16.00 | 7.57 | 25.38 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/21/2012 | P | | 8.00 | 16.00 | 7.63 | 25.32 | 62 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.47 | 7.42 | lw |
| 12/20/2012 | -- | | 8.00 | 16.00 | 7.22 | 25.73 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 6/13/2013 | P | | 8.00 | 16.00 | 8.10 | 24.85 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 1.41 | 7.0 | |
| 12/2/2013 | -- | | 8.00 | 16.00 | 8.70 | 24.25 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 5/27/2014 | P | | 8.00 | 16.00 | 8.19 | 24.76 | 55 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 1.24 | 7.14 | |
| MW-3 | | | | | | | | | | | | | | | |
| 6/20/2000 | -- | 30.30 | 8.00 | 15.00 | 7.75 | 22.55 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/29/2000 | -- | | 8.00 | 15.00 | 8.46 | 21.84 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 128 | -- | -- | |
| 12/17/2000 | -- | | 8.00 | 15.00 | 8.01 | 22.29 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 46.7 | -- | -- | |
| 3/23/2001 | -- | | 8.00 | 15.00 | 7.70 | 22.60 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 26.8 | -- | -- | |
| 6/20/2001 | -- | | 8.00 | 15.00 | 8.23 | 22.07 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 30 | -- | -- | |
| 9/22/2001 | -- | | 8.00 | 15.00 | 8.89 | 21.41 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 12 | -- | -- | |
| 12/28/2001 | -- | | 8.00 | 15.00 | 7.83 | 22.47 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 6.2 | -- | -- | |
| 3/14/2002 | -- | | 8.00 | 15.00 | 7.48 | 22.82 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 47 | -- | -- | |
| 4/18/2002 | -- | | 8.00 | 15.00 | 7.62 | 22.68 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | |
| 7/19/2002 | P | | 8.00 | 15.00 | 8.23 | 22.07 | 100 | <1.0 | <1.0 | <1.0 | <1.0 | 330 | 0.9 | 7.6 | b (TPH-g) |
| 10/9/2002 | P | | 8.00 | 15.00 | 8.83 | 21.47 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 61 | 0.5 | 7.4 | |
| 03/28/2003 | P | | 8.00 | 15.00 | 7.85 | 22.45 | 52 | <0.50 | 1.2 | <0.50 | <0.50 | 45 | 1.42 | 7.6 | c |
| 4/7/2003 | P | | 8.00 | 15.00 | 7.71 | 22.59 | 56 | <0.50 | <0.50 | <0.50 | <0.50 | 56 | 1.1 | 6.8 | |
| 7/9/2003 | P | | 8.00 | 15.00 | 8.00 | 22.30 | <500 | <5.0 | <5.0 | <5.0 | <5.0 | 87 | 1.6 | 7.4 | |
| 10/08/2003 | P | | 8.00 | 15.00 | 8.59 | 21.71 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 25 | 0.9 | -- | |
| 01/15/2004 | P | | 8.00 | 15.00 | 7.90 | 22.40 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 9.8 | 2.9 | 7.3 | |
| 04/05/2004 | P | 32.89 | 8.00 | 15.00 | 7.61 | 25.28 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 15 | 1.5 | 7.0 | |
| 07/12/2004 | P | | 8.00 | 15.00 | 8.45 | 24.44 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 7.3 | 1.6 | 6.9 | |
| 10/19/2004 | P | | 8.00 | 15.00 | 8.95 | 23.94 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 5.0 | 0.96 | 7.1 | |
| 01/11/2005 | P | | 8.00 | 15.00 | 7.27 | 25.62 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.3 | -- | 7.2 | |

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

ARCO Service Station #2162, 15135 Hesperian Blvd., San Leandro, CA

| Well ID and Date Monitored | P/NP | TOC (feet) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (feet) | Water Level Elevation (feet) | Concentrations in µg/L | | | | | | DO (mg/L) | pH | Footnote |
|----------------------------|----------|------------|------------------------|---------------------------|-------------|------------------------------|------------------------|-----------------|-----------------|-----------------|----------------|-----------------|-------------|-------------|----------|
| | | | | | | | GRO/TPHg | Benzene | Toluene | Ethyl-Benzene | Total Xylenes | MTBE | | | |
| MW-3 Cont. | | | | | | | | | | | | | | | |
| 04/14/2005 | P | 32.89 | 8.00 | 15.00 | 7.10 | 25.79 | <50 | <0.50 | <0.50 | <0.50 | 1.5 | 5.6 | 2.0 | 7.2 | |
| 08/01/2005 | P | | 8.00 | 15.00 | 7.71 | 25.18 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 5.2 | 1.18 | 7.0 | |
| 7/31/2006 | P | | 8.00 | 15.00 | 7.64 | 25.25 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 4.3 | -- | 6.8 | |
| 6/12/2009 | P | 32.88 | 8.00 | 15.00 | 8.36 | 24.52 | <50 | 0.75 | <0.50 | <0.50 | <0.50 | 0.53 | 0.61 | 7.45 | |
| 11/6/2009 | P | | 8.00 | 15.00 | 8.58 | 24.30 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.51 | 7.17 | |
| 6/4/2010 | P | | 8.00 | 15.00 | 7.60 | 25.28 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.9 | 0.69 | 7.4 | |
| 11/19/2010 | NP | | 8.00 | 15.00 | 8.63 | 24.25 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.69 | 7.0 | |
| 5/19/2011 | P | | 8.00 | 15.00 | 7.22 | 25.66 | 56 | <0.50 | <0.50 | <0.50 | <0.50 | 2.1 | 0.83 | 9.2 | lw |
| 12/1/2011 | P | | 8.00 | 15.00 | 8.00 | 24.88 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 3.15 | 7.8 | |
| 6/21/2012 | P | | 8.00 | 15.00 | 7.90 | 24.98 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.4 | 1.24 | 7.33 | |
| 12/20/2012 | p | | 8.00 | 15.00 | 7.53 | 25.35 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 3.62 | 8.17 | |
| 6/13/2013 | P | | 8.00 | 15.00 | 8.39 | 24.49 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 1.22 | 7.07 | |
| 12/2/2013 | P | | 8.00 | 15.00 | 8.89 | 23.99 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 1.32 | 6.81 | |
| 5/27/2014 | P | | 8.00 | 15.00 | 8.43 | 24.45 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 1.20 | 7.23 | |
| MW-4 | | | | | | | | | | | | | | | |
| 6/20/2000 | -- | 30.39 | 10.00 | 18.00 | 8.87 | 21.52 | -- | -- | -- | -- | -- | -- | -- | -- | |
| 9/29/2000 | -- | | 10.00 | 18.00 | 9.61 | 20.78 | <50 | 1.02 | <0.5 | <0.5 | <0.5 | 12.2 | -- | -- | |
| 12/17/2000 | -- | | 10.00 | 18.00 | 9.17 | 21.22 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 5.81 | -- | -- | |
| 3/23/2001 | -- | | 10.00 | 18.00 | 8.70 | 21.69 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3.04 | -- | -- | |
| 6/20/2001 | -- | | 10.00 | 18.00 | 9.51 | 20.88 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | -- | |
| 9/22/2001 | -- | | 10.00 | 18.00 | 10.06 | 20.33 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 5.2 | -- | -- | |
| 12/28/2001 | -- | | 10.00 | 18.00 | 8.86 | 21.53 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4.3 | -- | -- | |
| 3/14/2002 | -- | | 10.00 | 18.00 | 8.52 | 21.87 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 5.1 | -- | -- | |
| 4/18/2002 | -- | | 10.00 | 18.00 | 8.76 | 21.63 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | -- | |
| 7/19/2002 | NP | | 10.00 | 18.00 | 9.39 | 21.00 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 30 | 1.8 | 7.8 | |
| 10/9/2002 | NP | | 10.00 | 18.00 | 10.08 | 20.31 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 28 | 1.0 | 8.0 | |
| 03/28/2003 | NP | | 10.00 | 18.00 | 8.88 | 21.51 | <50 | <0.50 | 1.3 | <0.50 | <0.50 | 4.4 | 0.98 | 7.2 | c |
| 4/7/2003 | NP | | 10.00 | 18.00 | 8.78 | 21.61 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 14 | 1.1 | 7.0 | |
| 7/9/2003 | NP | | 10.00 | 18.00 | 9.14 | 21.25 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.8 | 1.6 | 7.4 | |
| 10/08/2003 | NP | | 10.00 | 18.00 | 9.77 | 20.62 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 3.1 | 2.6 | 6.4 | |

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

ARCO Service Station #2162, 15135 Hesperian Blvd., San Leandro, CA

| Well ID and Date Monitored | P/NP | TOC (feet) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (feet) | Water Level Elevation (feet) | Concentrations in µg/L | | | | | | DO (mg/L) | pH | Footnote |
|----------------------------|------|------------|------------------------|---------------------------|------------|------------------------------|------------------------|---------|---------|---------------|---------------|-------|-----------|------|----------|
| | | | | | | | GRO/TPHg | Benzene | Toluene | Ethyl-Benzene | Total Xylenes | MTBE | | | |
| MW-4 Cont. | | | | | | | | | | | | | | | |
| 01/15/2004 | P | 30.39 | 10.00 | 18.00 | 8.68 | 21.71 | <50 | 1.4 | 0.84 | <0.50 | 1.5 | 6.6 | 2.9 | 7.1 | |
| 04/05/2004 | NP | 33.97 | 10.00 | 18.00 | 8.77 | 25.20 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.3 | 1.2 | 7.0 | |
| 07/12/2004 | NP | | 10.00 | 18.00 | 9.46 | 24.51 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.0 | 2.5 | 6.6 | |
| 10/19/2004 | NP | | 10.00 | 18.00 | 9.91 | 24.06 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 4.4 | 1.21 | 7.9 | |
| 01/11/2005 | P | | 10.00 | 18.00 | 7.80 | 26.17 | 59 | 2.0 | <0.50 | <0.50 | <0.50 | 11 | 0.9 | 7.1 | |
| 04/14/2005 | NP | | 10.00 | 18.00 | 8.07 | 25.90 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.64 | 2.8 | 7.4 | |
| 08/01/2005 | NP | | 10.00 | 18.00 | 8.58 | 25.39 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.48 | 5.7 | |
| 7/31/2006 | P | | 10.00 | 18.00 | 8.75 | 25.22 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | -- | 6.7 | |
| 6/12/2009 | P | | 10.00 | 18.00 | 9.51 | 24.46 | <50 | 0.68 | <0.50 | <0.50 | <0.50 | <0.50 | 0.70 | 7.51 | |
| 11/6/2009 | P | | 10.00 | 18.00 | 9.74 | 24.23 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.15 | 7.15 | |
| 6/4/2010 | P | | 10.00 | 18.00 | 8.71 | 25.26 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.70 | 7.24 | |
| 11/19/2010 | P | | 10.00 | 18.00 | 9.83 | 24.14 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.09 | 7.1 | |
| 5/19/2011 | P | | 10.00 | 18.00 | 8.24 | 25.73 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.88 | 7.5 | |
| 12/1/2011 | P | | 10.00 | 18.00 | 9.11 | 24.86 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.09 | 7.6 | |
| 6/21/2012 | P | | 10.00 | 18.00 | 9.07 | 24.90 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.64 | 7.31 | |
| 12/20/2012 | P | | 10.00 | 18.00 | 8.61 | 25.36 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 3.90 | 7.99 | |
| 6/13/2013 | P | | 10.00 | 18.00 | 9.56 | 24.41 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 1.53 | 6.85 | |
| 12/2/2013 | P | | 10.00 | 18.00 | 10.10 | 23.87 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 2.07 | 6.74 | |
| 5/27/2014 | P | | 10.00 | 18.00 | 9.63 | 24.34 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 1.27 | 7.22 | |
| MW-5 | | | | | | | | | | | | | | | |
| 6/12/2009 | NP | 33.96 | 8.00 | 16.00 | 9.25 | 24.71 | 85 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.59 | 7.50 | |
| 11/6/2009 | P | | 8.00 | 16.00 | 9.49 | 24.47 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.56 | 7.1 | |
| 6/4/2010 | NP | | 8.00 | 16.00 | 8.42 | 25.54 | 67 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.24 | 7.65 | |
| 11/19/2010 | NP | | 8.00 | 16.00 | 9.58 | 24.38 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.72 | 7.3 | |
| 5/19/2011 | NP | | 8.00 | 16.00 | 8.02 | 25.94 | 52 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 2.17 | 9.1 | lw |
| 12/1/2011 | P | | 8.00 | 16.00 | 8.87 | 25.09 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.76 | 7.5 | |
| 6/21/2012 | P | | 8.00 | 16.00 | 8.76 | 25.20 | 55 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.58 | 7.24 | lw |
| 12/20/2012 | P | | 8.00 | 16.00 | 8.35 | 25.61 | 84 | 0.52 | <0.50 | <0.50 | <1.0 | <0.50 | 3.74 | 7.97 | |
| 6/13/2013 | P | | 8.00 | 16.00 | 9.27 | 24.69 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 1.53 | 6.83 | |
| 12/2/2013 | P | | 8.00 | 16.00 | 9.85 | 24.11 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 1.86 | 6.71 | |

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

ARCO Service Station #2162, 15135 Hesperian Blvd., San Leandro, CA

| Well ID and Date Monitored | P/NP | TOC (feet) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | DTW (feet) | Water Level Elevation (feet) | Concentrations in µg/L | | | | | | DO (mg/L) | pH | Footnote |
|----------------------------|------|------------|------------------------|---------------------------|------------|------------------------------|------------------------|---------|---------|---------------|---------------|-------|-----------|------|----------|
| | | | | | | | GRO/TPHg | Benzene | Toluene | Ethyl-Benzene | Total Xylenes | MTBE | | | |
| MW-5 Cont. | | | | | | | | | | | | | | | |
| 5/27/2014 | P | 33.96 | 8.00 | 16.00 | 9.34 | 24.62 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | <0.50 | 0.69 | 7.13 | |
| MW-6 | | | | | | | | | | | | | | | |
| 6/12/2009 | NP | 33.48 | 8.00 | 16.00 | 9.02 | 24.46 | 1,800 | 4.9 | <0.50 | 2.8 | <0.50 | 59 | 0.68 | 7.39 | |
| 11/6/2009 | P | | 8.00 | 16.00 | 9.21 | 24.27 | 880 | 1.7 | <0.50 | 0.77 | <0.50 | 37 | 0.43 | 6.9 | |
| 6/4/2010 | NP | | 8.00 | 16.00 | 8.22 | 25.26 | 6,200 | 15 | 1.6 | 8.2 | 1.2 | 190 | 0.87 | 7.16 | |
| 11/19/2010 | NP | | 8.00 | 16.00 | 9.30 | 24.18 | 5,600 | 8.0 | 1.2 | 9.9 | <1.0 | 130 | 0.78 | 6.8 | |
| 5/19/2011 | P | | 8.00 | 16.00 | 7.77 | 25.71 | 7,100 | 4.0 | <2.0 | 7.9 | <2.0 | 76 | 1.40 | 8.2 | |
| 12/1/2011 | P | | 8.00 | 16.00 | 8.56 | 24.92 | 4,100 | 9.3 | 1.3 | 8.5 | <1.0 | 180 | 0.53 | 7.3 | lw |
| 6/21/2012 | P | | 8.00 | 16.00 | 8.56 | 24.92 | 5,000 | 4.6 | <2.5 | 3.6 | <2.5 | 120 | 1.38 | 6.97 | lw |
| 12/20/2012 | P | | 8.00 | 16.00 | 8.13 | 25.35 | 2,400 | 4.1 | 0.91 | 5.0 | <1.0 | 110 | 2.96 | 7.84 | |
| 6/13/2013 | P | | 8.00 | 16.00 | 9.03 | 24.45 | 2,300 | 3.1 | 0.93 | 4.9 | <1.0 | 94 | 1.05 | 6.80 | |
| 12/2/2013 | P | | 8.00 | 16.00 | 9.53 | 23.95 | 1,400 | 1.9 | 0.50 | 2.3 | <1.0 | 88 | 1.46 | 6.55 | |
| 5/27/2014 | P | | 8.00 | 16.00 | 9.08 | 24.40 | 2,000 | 1.6 | 0.64 | 3.0 | <1.0 | 82 | 0.93 | 6.94 | |

Symbols & Abbreviations:

--- = Not analyzed/applicable/measured/available
< = Not detected at or above laboratory reporting limit
DO = Dissolved oxygen
DTW = Depth to water in feet below ground surface
ft bgs = feet below ground surface
GRO = Gasoline Range Organics, range C4-C12
GWE = Groundwater elevation measured in feet
mg/L = Milligrams per liter
MTBE = Methyl tert butyl ether
NP = Well not purged prior to sampling
P = Well purged prior to sampling
TOC = Top of casing measured in feet above mean sea level
TPH-g = Total petroleum hydrocarbons as gasoline
ug/L = Micrograms per liter

Footnotes:

a = Well not accessible - car parked over.
b = Hydrocarbon pattern is present in the requested fuel quantitation range but does not represent the pattern of the requested fuel
c =TPH-g, BTEX and MTBE analyzed by EPA method 8260 beginning on 1st Quarter 2003 sampling event (3/28/03)
d = Guaged with stinger in well
e = Well casing lowered 0.06 feet during well repairs on 9/17/2003
lw = Quantitate against gasoline

Notes:

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

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

Wells were originally surveyed to NAVD'88 datum by URS Corporation on February 23, 2004

Wells were resurveyed to NAVD'88 datum by Wood Rodgers Surveying on May 11, 2009

Values for DO and pH were obtained through field measurements

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

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

2. Summary of Fuel Additives Analytical Data
ARCO Service Station #2162, 15135 Hesperian Blvd., San Leandro, CA

| Well ID and Date Monitored | Concentrations in µg/L | | | | | | | | Footnote |
|-------------------------------|------------------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------|
| | Ethanol | TBA | MTBE | DIPE | ETBE | TAME | 1,2-DCA | EDB | |
| MW-1 | | | | | | | | | |
| 6/20/2000 | -- | -- | <10 | -- | -- | -- | -- | -- | |
| 9/29/2000 | -- | -- | <2.5 | -- | -- | -- | -- | -- | |
| 12/17/2000 | -- | -- | <2.5 | -- | -- | -- | -- | -- | |
| 3/23/2001 | -- | -- | <2.5 | -- | -- | -- | -- | -- | |
| 6/20/2001 | -- | -- | <2.5 | -- | -- | -- | -- | -- | |
| 9/22/2001 | -- | -- | <2.5 | -- | -- | -- | -- | -- | |
| 12/28/2001 | -- | -- | <2.5 | -- | -- | -- | -- | -- | |
| 3/14/2002 | -- | -- | 170 | -- | -- | -- | -- | -- | |
| 7/19/2002 | -- | -- | 11 | -- | -- | -- | -- | -- | |
| 4/7/2003 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 7/9/2003 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 07/12/2004 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/12/2009 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/4/2010 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 5/19/2011 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/21/2012 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/13/2013 | <150 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 5/27/2014 | <150 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| MW-2 | | | | | | | | | |
| 9/29/2000 | -- | -- | <2.5 | -- | -- | -- | -- | -- | |
| 12/17/2000 | -- | -- | <2.5 | -- | -- | -- | -- | -- | |
| 3/23/2001 | -- | -- | <2.5 | -- | -- | -- | -- | -- | |
| 6/20/2001 | -- | -- | <2.5 | -- | -- | -- | -- | -- | |
| 9/22/2001 | -- | -- | <2.5 | -- | -- | -- | -- | -- | |
| 12/28/2001 | -- | -- | <2.5 | -- | -- | -- | -- | -- | |
| 3/14/2002 | -- | -- | <2.5 | -- | -- | -- | -- | -- | |
| 7/19/2002 | -- | -- | <2.5 | -- | -- | -- | -- | -- | |
| 10/9/2002 | -- | -- | <2.5 | -- | -- | -- | -- | -- | |
| 03/28/2003 | <100 | <20 | <0.50 | <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 | |
| 7/9/2003 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |

2. Summary of Fuel Additives Analytical Data
ARCO Service Station #2162, 15135 Hesperian Blvd., San Leandro, CA

| Well ID and Date Monitored | Concentrations in µg/L | | | | | | | | Footnote |
|-------------------------------|------------------------|------|-------|-------|-------|-------|---------|-------|-----------------|
| | Ethanol | TBA | MTBE | DIPE | ETBE | TAME | 1,2-DCA | EDB | |
| MW-2 Cont. | | | | | | | | | |
| 07/12/2004 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/12/2009 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/4/2010 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 5/19/2011 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/21/2012 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/13/2013 | <150 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 5/27/2014 | <150 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| MW-3 | | | | | | | | | |
| 9/29/2000 | -- | -- | 128 | -- | -- | -- | -- | -- | |
| 12/17/2000 | -- | -- | 46.7 | -- | -- | -- | -- | -- | |
| 3/23/2001 | -- | -- | 26.8 | -- | -- | -- | -- | -- | |
| 6/20/2001 | -- | -- | 30 | -- | -- | -- | -- | -- | |
| 9/22/2001 | -- | -- | 12 | -- | -- | -- | -- | -- | |
| 12/28/2001 | -- | -- | 6.2 | -- | -- | -- | -- | -- | |
| 3/14/2002 | -- | -- | 47 | -- | -- | -- | -- | -- | |
| 7/19/2002 | -- | -- | 330 | -- | -- | -- | -- | -- | |
| 10/9/2002 | -- | -- | 61 | -- | -- | -- | -- | -- | |
| 03/28/2003 | <100 | <20 | 45 | <0.50 | <0.50 | 0.73 | <0.50 | <0.50 | |
| 4/7/2003 | <100 | <20 | 56 | <0.50 | <0.50 | 0.72 | <0.50 | <0.50 | |
| 7/9/2003 | <1,000 | <200 | 87 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 10/08/2003 | <100 | <20 | 25 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 01/15/2004 | <100 | <20 | 9.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | a (TBA and EDB) |
| 04/05/2004 | <100 | <20 | 15 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 07/12/2004 | <100 | <20 | 7.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 10/19/2004 | <100 | <20 | 5.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 01/11/2005 | <100 | <20 | 2.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | b |
| 04/14/2005 | <100 | <20 | 5.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 08/01/2005 | <100 | <20 | 5.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | b |
| 7/31/2006 | <300 | <20 | 4.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | c |
| 6/12/2009 | <300 | <10 | 0.53 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 11/6/2009 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |

2. Summary of Fuel Additives Analytical Data
ARCO Service Station #2162, 15135 Hesperian Blvd., San Leandro, CA

| Well ID and Date Monitored | Concentrations in µg/L | | | | | | | | Footnote |
|-------------------------------|------------------------|---------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | Ethanol | TBA | MTBE | DIPE | ETBE | TAME | 1,2-DCA | EDB | |
| MW-3 Cont. | | | | | | | | | |
| 6/4/2010 | <300 | <10 | 1.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 11/19/2010 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 5/19/2011 | <300 | <10 | 2.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 12/1/2011 | <300 | <10 | 0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/21/2012 | <300 | <10 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 12/20/2012 | <150 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/13/2013 | <150 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 12/2/2013 | <150 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 5/27/2014 | <150 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| MW-4 | | | | | | | | | |
| 9/29/2000 | -- | -- | 12.2 | -- | -- | -- | -- | -- | |
| 12/17/2000 | -- | -- | 5.81 | -- | -- | -- | -- | -- | |
| 3/23/2001 | -- | -- | 3.04 | -- | -- | -- | -- | -- | |
| 6/20/2001 | -- | -- | <2.5 | -- | -- | -- | -- | -- | |
| 9/22/2001 | -- | -- | 5.2 | -- | -- | -- | -- | -- | |
| 12/28/2001 | -- | -- | 4.3 | -- | -- | -- | -- | -- | |
| 3/14/2002 | -- | -- | 5.1 | -- | -- | -- | -- | -- | |
| 7/19/2002 | -- | -- | 30 | -- | -- | -- | -- | -- | |
| 10/9/2002 | -- | -- | 28 | -- | -- | -- | -- | -- | |
| 03/28/2003 | <100 | <20 | 4.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 4/7/2003 | <100 | <20 | 14 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 7/9/2003 | <100 | <20 | 1.8 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 10/08/2003 | <100 | <20 | 3.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 01/15/2004 | <100 | <20 | 6.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | a (TBA and EDB) |
| 04/05/2004 | <100 | <20 | 1.3 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 07/12/2004 | <100 | <20 | 1.0 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 10/19/2004 | <100 | <20 | 4.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 01/11/2005 | <100 | <20 | 11 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | b |
| 04/14/2005 | <100 | <20 | 0.64 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 08/01/2005 | <100 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | b |
| 7/31/2006 | <300 | <20 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | c |

2. Summary of Fuel Additives Analytical Data
ARCO Service Station #2162, 15135 Hesperian Blvd., San Leandro, CA

| Well ID and Date Monitored | Concentrations in µg/L | | | | | | | | Footnote |
|-------------------------------|------------------------|-----|-------|-------|-------|-------|---------|-------|----------|
| | Ethanol | TBA | MTBE | DIPE | ETBE | TAME | 1,2-DCA | EDB | |
| MW-4 Cont. | | | | | | | | | |
| 6/12/2009 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 11/6/2009 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/4/2010 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 11/19/2010 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 5/19/2011 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 12/1/2011 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/21/2012 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 12/20/2012 | <150 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/13/2013 | <150 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 12/2/2013 | <150 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 5/27/2014 | <150 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| MW-5 | | | | | | | | | |
| 6/12/2009 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 11/6/2009 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/4/2010 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 11/19/2010 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 5/19/2011 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 12/1/2011 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/21/2012 | <300 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 12/20/2012 | <150 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/13/2013 | <150 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 12/2/2013 | <150 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 5/27/2014 | <150 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| MW-6 | | | | | | | | | |
| 6/12/2009 | <300 | <10 | 59 | <0.50 | <0.50 | 5.2 | <0.50 | <0.50 | |
| 11/6/2009 | <300 | 24 | 37 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 6/4/2010 | <300 | 17 | 190 | <0.50 | <0.50 | 17 | <0.50 | <0.50 | |
| 11/19/2010 | <600 | <20 | 130 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 5/19/2011 | <1,200 | <40 | 76 | <2.0 | <2.0 | 6.1 | <2.0 | <2.0 | |
| 12/1/2011 | <600 | 31 | 180 | <1.0 | <1.0 | 18 | <1.0 | <1.0 | |

2. Summary of Fuel Additives Analytical Data
ARCO Service Station #2162, 15135 Hesperian Blvd., San Leandro, CA

| Well ID and Date Monitored | Concentrations in µg/L | | | | | | | | Footnote |
|-------------------------------|------------------------|---------------|-----------|-----------------|-----------------|------------|-----------------|-----------------|----------|
| | Ethanol | TBA | MTBE | DIPE | ETBE | TAME | 1,2-DCA | EDB | |
| MW-6 Cont. | | | | | | | | | |
| 6/21/2012 | <1,500 | <50 | 120 | <2.5 | <2.5 | 9.1 | <2.5 | <2.5 | |
| 12/20/2012 | <150 | 12 | 110 | <0.50 | <0.50 | 9.2 | <0.50 | <0.50 | |
| 6/13/2013 | <150 | 13 | 94 | <0.50 | <0.50 | 7.5 | <0.50 | <0.50 | |
| 12/2/2013 | <150 | 11 | 88 | <0.50 | <0.50 | 6.2 | <0.50 | <0.50 | |
| 5/27/2014 | <150 | <10 | 82 | <0.50 | <0.50 | 6.1 | <0.50 | <0.50 | |

Symbols & Abbreviations:

< = Not detected at or above specified laboratory reporting limit

-- = Not analyzed/applicable/measured/available

1,2-DCA = 1,2-Dichloroethane

DIPE = Diisopropyl ether

EDB = 1,2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether

TAME = Tert-amyl methyl ether

TBA = Tert-butyl alcohol

ug/L = Micrograms per liter

Footnotes:

a = The result was reported with a possible high bias due to the continuing calibration verification falling outside acceptance criteria

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

c = LCS rec. above meth. control limits. Analyte ND. Data not impacted

d = Quantitated against gasoline

Notes:

All fuel oxygenate compounds analyzed using EPA Method 8260B

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

Table 1
Groundwater Elevation Data

ARCO Service Station 2162
15135 Hesperian Boulevard at Ruth Court
San Leandro, California

| Well Number | Date Gauged | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) |
|-------------|-------------|----------------------------|----------------------------|-----------------------------------|
| MW-1 | 09/30/92 | 31.19 | 10.68 | 20.51 |
| | 10/16/92 | | 10.83 | 20.36 |
| | 01/14/93 | | 7.25 | 23.94 |
| | 02/24/93 | | 7.23 | 23.96 |
| | 03/30/93 | | 7.58 | 23.61 |
| | 04/14/93 | | 7.96 | 23.23 |
| | 05/19/93 | | 8.26 | 22.93 |
| | 06/17/93 | | 8.42 | 22.77 |
| | 07/28/93 | | 8.68 | 22.51 |
| | 08/11/93 | | 9.07 | 22.12 |
| | 09/28/93 | | 9.60 | 21.59 |
| | 10/15/93 | | 9.51 | 21.68 |
| | 11/16/93 | | — Well Inaccessible — | |
| | 12/16/93 | | 8.70 | 22.49 |
| | 02/15/94 | | 8.51 | 22.68 |
| | 03/18/94 | | 8.46 | 22.73 |
| | 05/05/94 | | 8.68 | 22.53 |
| | 08/05/94 | | 9.50 | 21.69 |
| | 11/21/94 | | 8.83 | 22.36 |
| | 02/24/95 | | 7.90 | 23.29 |
| 05/31/95 | | 7.86 | 23.33 | |
| 08/23/95 | | 8.74 | 22.45 | |
| MW-2 | 09/30/92 | 30.38 | 9.74 | 20.64 |
| | 10/16/92 | | 9.91 | 20.47 |
| | 01/14/93 | | 6.56 | 23.82 |
| | 02/24/93 | | 6.67 | 23.71 |
| | 03/30/93 | | 6.76 | 23.62 |
| | 04/14/93 | | 7.10 | 23.28 |
| | 05/19/93 | | 7.40 | 22.98 |
| | 06/17/93 | | 7.51 | 22.87 |
| | 07/28/93 | | 7.73 | 22.65 |
| | 08/11/93 | | 8.11 | 22.27 |
| | 09/28/93 | | 8.57 | 21.81 |
| | 10/15/93 | | 8.56 | 21.82 |
| | 11/16/93 | | 8.87 | 21.51 |
| | 12/16/93 | | 7.92 | 22.46 |
| | 02/15/94 | | 7.62 | 22.76 |
| | 03/18/94 | | 7.57 | 22.81 |
| | 05/05/94 | | 7.75 | 22.63 |
| | 08/05/94 | | 8.53 | 21.85 |
| | 11/21/94 | | 7.92 | 22.46 |
| | 02/24/95 | | 6.98 | 23.40 |
| 05/31/95 | | 6.97 | 23.41 | |
| 08/23/95 | | 7.83 | 22.55 | |
| MW-3 | 09/30/92 | 30.30 | 9.93 | 20.37 |
| | 10/16/92 | | 10.13 | 20.17 |
| | 01/14/93 | | 6.71 | 23.59 |
| | 02/24/93 | | 6.82 | 23.48 |
| | 03/30/93 | | 7.07 | 23.23 |
| | 04/14/93 | | 7.41 | 22.89 |
| | 05/19/93 | | 7.72 | 22.58 |
| | 06/17/93 | | 7.86 | 22.44 |
| | 07/25/93 | | 8.13 | 22.17 |
| | 08/11/93 | | 8.45 | 21.85 |
| | 09/28/93 | | 8.96 | 21.34 |

Table 1 (continued)
Groundwater Elevation Data

ARCO Service Station 2162
15135 Hesperian Boulevard at Ruth Court
San Leandro, California

| Well Number | Date Gauged | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) | |
|----------------------|-------------|----------------------------|----------------------------|-----------------------------------|-------|
| MW-3 (cont.) | 10/15/93 | | 8.85 | 21.45 | |
| | 11/16/93 | | 9.09 | 21.21 | |
| | 12/16/93 | | 8.10 | 22.20 | |
| | 02/15/94 | | 7.88 | 22.42 | |
| | 03/18/94 | | 7.88 | 22.42 | |
| | 05/05/94 | | 8.08 | 22.22 | |
| | 08/05/94 | | 8.82 | 21.48 | |
| | 11/21/94 | | 8.17 | 22.13 | |
| | 02/24/95 | | 7.40 | 22.90 | |
| | 05/31/95 | | 7.35 | 22.95 | |
| | 08/23/95 | | 8.15 | 22.15 | |
| | MW-4 | 09/30/92 | 30.39 | 11.15 | 19.24 |
| | | 10/16/92 | | 11.33 | 19.06 |
| 01/14/93 | | | 7.49 | 22.90 | |
| 02/24/93 | | | 7.57 | 22.82 | |
| 03/30/93 | | | 8.06 | 22.33 | |
| 04/14/93 | | | 8.48 | 21.91 | |
| 05/19/93 | | | 7.80 | 22.59 | |
| 06/17/93 | | | 8.94 | 21.45 | |
| 07/25/93 | | | 9.28 | 21.11 | |
| 05/11/93 | | | 9.61 | 20.78 | |
| 09/25/93 | | | 10.14 | 20.25 | |
| 10/15/93 | | | 10.00 | 20.39 | |
| 11/16/93 | | | 10.22 | 20.17 | |
| 12/16/93 | | | 9.11 | 21.28 | |
| 02/15/94 | | | 8.97 | 21.42 | |
| 03/15/94 | | | 8.99 | 21.40 | |
| 05/05/94 | | | 9.21 | 21.18 | |
| 08/05/94 | | 10.02 | 20.37 | | |
| 11/21/94 | | 9.30 | 21.09 | | |
| 02/24/95 | | 8.46 | 21.93 | | |
| 05/31/95 | | 8.41 | 21.98 | | |
| 08/23/95 | | 9.32 | 21.07 | | |
| MSL = Mean sea level | | | | | |
| TOC = Top of casing | | | | | |

Table 2
Groundwater Analytical Data
Total Petroleum Hydrocarbons
(TPH as Gasoline and BTEX Compounds)

ARCO Service Station 2162
15135 Hesperian Boulevard at Ruth Court
San Leandro, California

| Well Number | Date Sampled | TPH as Gasoline (ppb) | Benzene (ppb) | Toluene (ppb) | Ethylbenzene (ppb) | Xylenes (ppb) |
|-------------|--------------|-----------------------|---------------|---------------|--------------------|---------------|
| MW-1 | 09/30/92 | 1,100 | 6.2 | <0.50 | 6.9 | <0.50 |
| | 10/16/92 | 790 | 3.0 | 0.8 | 5.6 | 2.9 |
| | 01/14/93 | 660 | 1.2 | <1 a | 15 | 4.6 |
| | 04/14/93 | 310 | <1 a | <1 a | <1 a | |
| | 08/11/93 | 660 | 0.8 | <0.7 | 9.0 | <1 b |
| | 10/15/93 | 620 | 0.7 | <0.5 | 5.9 | 2.2 |
| | 02/15/94 | 650 | 1.9 | <0.5 | 4.5 | 4.9 b |
| | 05/05/94 | 510 | <0.5 | <0.5 | <1 | 1.6 |
| | 08/05/94 | 310 | <0.5 | <0.5 | 1.5 | 1.2 |
| | 11/21/94 | 330 | <0.5 | <0.5 | 1.5 | 1.1 |
| | 02/24/95 | 120 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 05/31/95 | <50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 08/23/95 | 160 | <0.50 | <0.50 | <0.50 | <0.50 |
| | MW-2 | 09/30/92 | 1,000 | 9.6 | <0.50 | 45 |
| 10/16/92 | | 630 | 8 | <1 a | 37 | 64 |
| 01/14/93 | | 7,800 | 33 | 5 | 340 | 920 |
| 04/14/93 | | 1,600 | 7 | <5 a | 220 | 520 |
| 08/11/93 | | 1,600 | 4.3 | <1 a | 80 | 120 |
| 10/15/93 | | 1,100 | 1.7 | <1 a | 62 | 70 |
| 02/15/94 | | 490 | 1.8 | 1.5 | 49 | 37 |
| 05/05/94 | | 360 | <0.5 | <0.5 | 27 | 18 |
| 08/05/94 | | 680 | <0.5 | <0.5 | 42 | 37 |
| 11/21/94 | | 500 | <0.5 | <0.5 | 40 | 25 |
| 02/24/95 | | 650 | <0.50 | <0.50 | 52 | 48 |
| 05/31/95 | | 450 | <0.50 | <0.50 | 33 | 33 |
| 08/23/95 | | 180 | <0.50 | <0.50 | 12 | 9.5 |
| MW-3 | | 09/30/92 | <50 | <0.50 | <0.50 | <0.50 |
| | 10/16/92 | <50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 01/14/93 | 52 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 04/14/93 | 360 | 86 | 2.1 | 5.1 | 4.0 |
| | 08/11/93 | 69 | 1.1 | <0.5 | <0.5 | <0.5 |
| | 10/15/93 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 02/15/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 05/05/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 08/05/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 11/21/94 | <50 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 02/24/95 | <50 | 0.93 | <0.50 | <0.50 | <0.50 |
| | 05/31/95 | 120 | 24 | <0.50 | <0.50 | <0.50 |
| | 08/23/95 | 85 | <0.5 | <0.5 | <0.5 | <0.5 |
| | MW-4 | 09/30/92 | 330 | 81 | <0.50 | <0.50 |
| 10/16/92 | | 250 | 44 | <0.50 | <0.50 | 0.7 |
| 01/14/93 | | 260 | 29 | 0.6 | <0.50 | 1.1 |
| 04/14/93 | | NS | NS | NS | NS | NS |
| 08/11/93 | | 150 | 21 | <0.5 | <0.5 | <0.5 |
| 10/15/93 | | 190 | 12 | <0.5 | <0.5 | <0.5 |
| 02/15/94 | | <50 | 2.0 | <0.5 | <0.5 | <0.5 |
| 05/05/94 | | 160 | 17 | <0.5 | <0.5 | 0.6 |
| 08/05/94 | | 120 | 10 | <0.5 | <0.5 | <0.5 |
| 11/21/94 | | 120 | 17 | <0.5 | <0.5 | 0.6 |

Table 2 (continued)
Groundwater Analytical Data
Total Petroleum Hydrocarbons
 (TPH as Gasoline and BTEX Compounds)

ARCO Service Station 2162
 15135 Hesperian Boulevard at Ruth Court
 San Leandro, California

| Well Number | Date Sampled | TPH as Gasoline (ppb) | Benzene (ppb) | Toluene (ppb) | Ethyl-benzene (ppb) | Xylenes (ppb) |
|-------------|--|-----------------------|---------------|---------------|---------------------|---------------|
| MW-4 | 02/24/95 | 110 | 14 | <0.50 | <0.50 | <0.50 |
| (cont.) | 05/31/95 | 97 | 11 | <0.50 | <0.50 | <0.50 |
| | 08/23/95 | 110 | 16 | <0.50 | <0.50 | <0.50 |
| ppb | = Parts per million | | | | | |
| NS | = Not sampled, separate-phase hydrocarbon entered well during purging. | | | | | |
| a. | Raised MRL due to high analyte concentration requiring sample dilution | | | | | |
| b. | Raised MRL due to matrix interference | | | | | |

Table 3
Groundwater Analytical Data
Total Methyl t-Butyl Ether

ARCO Service Station 2162
15135 Hesperian Boulevard at Ruth Court
San Leandro, California

| Well Number | Date Sampled | Methyl t-Butyl Ether (ppb) |
|-------------|--------------|----------------------------|
| MW-1 | 8/23/95 | <2.5 |
| MW-2 | 8/23/95 | <2.5 |
| MW-3 | 8/23/95 | 41 |
| MW-4 | 8/23/95 | <2.5 |

ppb = Parts per billion

Table 1
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

| Well Number | Date Gauged/ Sampled | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) | TPPH as | | | | | MTBE 8021B* (ppb) | MTBE 8260 (ppb) | Dissolved Oxygen (ppm) | Purged/ Not Purged (P/NP) |
|-------------|-------------------------|-------------------------------|-------------------------------|--------------------------------------|-------------------|------------------|------------------|----------------------------|------------------|-------------------------|-----------------------|------------------------------|---------------------------------|
| | | | | | Gasoline (ppb) | Benzene (ppb) | Toluene (ppb) | Ethyl- benzene (ppb) | Xylenes (ppb) | | | | |
| MW-1 | 02/26/96 | 31.19 | 7.14 | 24.05 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA | |
| MW-1 | 05/23/96 | 31.19 | 7.70 | 23.49 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA | |
| MW-1 | 08/21/96 | 31.19 | 8.75 | 22.44 | 210 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | NA | NA | |
| MW-1 | 11/20/96 | 31.19 | 8.62 | 22.57 | 91 | <0.5 | <0.5 | <0.5 | <0.5 | 2.6 | NA | NA | |
| MW-1 | 04/01/97 | 31.19 | 8.70 | 22.49 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | NA | NA | NP |
| MW-1 | 06/10/97 | 31.19 | 8.45 | 22.74 | 94 | <0.5 | <0.5 | 0.68 | 0.56 | 6.4 | NA | NA | NP |
| MW-1 | 09/17/97 | 31.19 | 9.20 | 21.99 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 10 | NA | 1.0 | NP |
| MW-1 | 12/12/97 | 31.19 | 8.00 | 23.19 | <200 | <2 | <2 | <2 | <2 | 180 | NA | 2.0 | NP |
| MW-1 | 03/25/98 | 31.19 | 7.00 | 24.19 | <200 | <2 | <2 | 3 | <2 | 180 | NA | 2.0 | |
| MW-1 | 05/14/98 | 31.19 | 7.46 | 23.73 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | NA | 1.17 | P |
| MW-1 | 07/31/98 | 31.19 | 8.10 | 23.09 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | NA | 2.0 | NP |
| MW-1 | 10/12/98 | 31.19 | 8.60 | 22.59 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 9 | NA | 2.5 | NP |
| MW-1 | 02/11/99 | 31.19 | 7.32 | 23.87 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 25 | NA | 1.0 | P |
| MW-1 | 06/23/99 | 31.19 | 8.40 | 22.79 | 55 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | NA | 1.36 | NP |
| MW-1 | 08/23/99 | 31.19 | 8.85 | 22.34 | <50 | <0.5 | 0.6 | <0.5 | <0.5 | 5 | NA | 1.42 | NP |
| MW-1 | 10/27/99 | 31.19 | 8.50 | 22.69 | <50 | <0.5 | <0.5 | <0.5 | <1 | 90 | NA | 0.83 | NP |
| MW-1 | 02/09/00 | 31.19 | 8.11 | 23.08 | <50 | <0.5 | <0.5 | <0.5 | <1 | 9 | NA | 0.77 | NP |
| MW-2 | 02/26/96 | 30.38 | 6.41 | 23.97 | 770 | <0.5 | <0.5 | 45 | 28 | NA | NA | NA | |
| MW-2 | 05/23/96 | 30.38 | 6.80 | 23.58 | 590 | 0.50 | <0.5 | 35 | 18 | NA | NA | NA | |
| MW-2 | 08/21/96 | 30.38 | 7.80 | 22.58 | 170 | <0.5 | <0.5 | 21 | 6.3 | <2.5 | NA | NA | |
| MW-2 | 11/20/96 | 30.38 | 7.73 | 22.65 | 88 | <0.5 | <0.5 | 7.9 | 1.1 | <2.5 | NA | NA | |
| MW-2 | 04/01/97 | 30.38 | 7.83 | 22.55 | 66 | <0.5 | <0.5 | 3.6 | 0.56 | 33 | NA | NA | |
| MW-2 | 06/10/97 | 30.38 | 7.52 | 22.86 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | NA | NA | NP |
| MW-2 | 09/17/97 | 30.38 | 8.24 | 22.14 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3.0 | NA | 0.6 | NP |
| MW-2 | 12/12/97 | 30.38 | 7.10 | 23.28 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3.0 | NA | 1.2 | NP |
| MW-2 | 03/25/98 | 30.38 | 6.27 | 24.11 | <50 | <0.5 | <0.5 | 0.7 | 0.5 | 55 | NA | 1.0 | |
| MW-2 | 05/14/98 | 30.38 | 6.54 | 23.84 | 210 | <0.5 | <0.5 | 3.3 | <0.5 | 42 | NA | 1.47 | P |
| MW-2 | 07/31/98 | 30.38 | 7.14 | 23.24 | 230 | <0.5 | <0.5 | 3.9 | <0.5 | 6 | NA | 1.0 | P |

Table 1
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

| Well Number | Date Gauged/ Sampled | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) | TPPH as Gasoline (ppb) | Benzene (ppb) | Toluene (ppb) | Ethyl- benzene (ppb) | Xylenes (ppb) | MTBE 8021B* (ppb) | MTBE 8260 (ppb) | Dissolved Oxygen (ppm) | Purged/ Not Purged (P/NP) |
|-------------|-------------------------|-------------------------------|-------------------------------|--------------------------------------|---------------------------|------------------|------------------|----------------------------|------------------|-------------------------|-----------------------|------------------------------|---------------------------------|
| MW-2 | 10/12/98 | 30.38 | 7.65 | 22.73 | 110 | <0.5 | <0.5 | 1.5 | <0.5 | <3 | NA | 1.0 | P |
| MW-2 | 02/11/99 | 30.38 | 6.55 | 23.83 | 660 | <0.5 | <0.5 | 6.7 | 0.7 | 3 | NA | 1.0 | P |
| MW-2 | 06/23/99 | 30.38 | 7.48 | 22.90 | 270 | <0.5 | <0.5 | 2.2 | 0.8 | <3 | NA | NM | P |
| MW-2 | 08/23/99 | 30.38 | 7.89 | 22.49 | 200 | <0.5 | 0.9 | 1.8 | <0.5 | <3 | NA | 1.17 | P |
| MW-2 | 10/27/99 | 30.38 | 8.30 | 22.08 | 2,100 | 1.0 | 2.5 | 14 | 3 | 3 | NA | 0.75 | NP |
| MW-2 | 02/09/00 | 30.38 | 8.02 | 22.36 | <50 | <0.5 | <0.5 | <0.5 | <1 | 5 | NA | 0.69 | NP |
| MW-3 | 02/26/96 | 30.30 | 6.72 | 23.58 | 120 | 5.0 | <0.5 | <0.5 | <0.5 | NA | NA | NA | |
| MW-3 | 05/23/96 | 30.30 | 7.18 | 23.12 | 140 | 12 | <0.5 | <0.5 | <0.5 | NA | NA | NA | |
| MW-3 | 08/21/96 | 30.30 | 8.17 | 22.13 | <50 | 1.1 | <0.5 | <0.5 | <0.5 | 130 | NA | NA | |
| MW-3 | 11/20/96 | 30.30 | 8.03 | 22.27 | 55 | <0.5 | <0.5 | <0.5 | <0.5 | 59 | NA | NA | |
| MW-3 | 04/01/97 | 30.30 | 8.09 | 22.21 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 180 | NA | NA | NP |
| MW-3 | 06/10/97 | 30.30 | 7.97 | 22.33 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1,900 | NA | NA | NP |
| MW-3 | 09/17/97 | 30.30 | 8.54 | 21.76 | <5,000 | <50 | <50 | <50 | <50 | 1,100 | 860 | 2.2 | NP |
| MW-3 | 12/12/97 | 30.30 | 7.50 | 22.80 | 560 | <5.0 | <5.0 | <5.0 | 5.0 | 370 | NA | 1.4 | NP |
| MW-3 | 03/25/98 | 30.30 | 6.60 | 23.70 | <500 | <5 | <5 | <5 | <5 | 470 | NA | 1.0 | |
| MW-3 | 05/14/98 | 30.30 | 7.13 | 23.17 | 750 | <5 | <5 | <5 | <5 | 630 | NA | 1.97 | P |
| MW-3 | 07/31/98 | 30.30 | 7.58 | 22.72 | <500 | <5 | <5 | <5 | <5 | 590 | NA | 1.0 | P |
| MW-3 | 10/12/98 | 30.30 | 8.00 | 22.30 | <500 | <5 | <5 | <5 | <5 | 600 | NA | 2.0 | P |
| MW-3 | 02/11/99 | 30.30 | 6.90 | 23.40 | <500 | <5 | <5 | <5 | <5 | 280 | NA | 1.0 | P |
| MW-3 | 06/23/99 | 30.30 | 7.82 | 22.48 | 220 | <0.5 | 3.2 | <0.5 | <0.5 | 740 | NA | 1.98 | P |
| MW-3 | 08/23/99 | 30.30 | 8.28 | 22.02 | <50 | <0.5 | 1.1 | <0.5 | <0.5 | 230 | NA | 1.20 | P |
| MW-3 | 10/27/99 | 30.30 | 9.27 | 21.03 | <50 | <0.5 | <0.5 | <0.5 | <1 | <3 | NA | 0.81 | NP |
| MW-3 | 02/09/00 | 30.30 | 7.45 | 22.85 | <50 | <0.5 | <0.5 | <0.5 | <1 | 80 | NA | 0.81 | P |
| MW-4 | 02/26/96 | 30.39 | 7.59 | 22.80 | 110 | 9.9 | <0.5 | <0.5 | <0.5 | NA | NA | NA | |
| MW-4 | 05/23/96 | 30.39 | 8.22 | 22.17 | 69 | 8.0 | <0.5 | <0.5 | <0.5 | NA | NA | NA | |
| MW-4 | 08/21/96 | 30.39 | 9.28 | 21.11 | <50 | 6.8 | <0.5 | <0.5 | <0.5 | <2.5 | NA | NA | |
| MW-4 | 11/20/96 | 30.39 | 9.12 | 21.27 | 95 | 10 | 0.59 | <0.5 | 0.52 | 3.8 | NA | NA | |

Table 1
Groundwater Elevation and Analytical Data
Total Purgeable Petroleum Hydrocarbons
(TPPH as Gasoline, BTEX Compounds, and MTBE)

ARCO Service Station 2162
15135 Hesperian Boulevard, San Leandro, California

| Well Number | Date Gauged/ Sampled | Well Elevation (feet, MSL) | Depth to Water (feet, TOC) | Groundwater Elevation (feet, MSL) | TPPH as Gasoline (ppb) | Benzene (ppb) | Toluene (ppb) | Ethyl- benzene (ppb) | Xylenes (ppb) | MTBE 8021B* (ppb) | MTBE 8260 (ppb) | Dissolved Oxygen (ppm) | Purged/ Not Purged (P/NP) |
|-------------|-------------------------|-------------------------------|-------------------------------|--------------------------------------|---------------------------|------------------|------------------|----------------------------|------------------|-------------------------|-----------------------|------------------------------|---------------------------------|
| MW-4 | 04/01/97 | 30.39 | 8.45 | 21.94 | 73 | 5.7 | <0.5 | <0.5 | <0.5 | <2.5 | NA | NA | |
| MW-4 | 06/10/97 | 30.39 | 9.00 | 21.39 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | NA | NA | NP |
| MW-4 | 09/17/97 | 30.39 | 9.76 | 20.63 | <50 | 3.2 | <0.5 | <0.5 | <0.5 | 8.0 | NA | 0.2 | NP |
| MW-4 | 12/12/97 | 30.39 | 8.45 | 21.94 | <50 | 2.9 | <0.5 | <0.5 | <0.5 | 14 | NA | 1.0 | NP |
| MW-4 | 03/25/98 | 30.39 | 7.52 | 22.87 | 58 | 2.8 | <0.5 | <0.5 | <0.5 | <3 | NA | 3.0 | |
| MW-4 | 05/14/98 | 30.39 | 8.03 | 22.36 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | NA | 3.24 | NP |
| MW-4 | 07/31/98 | 30.39 | 8.67 | 21.72 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | NA | 2.0 | NP |
| MW-4 | 10/12/98 | 30.39 | 9.15 | 21.24 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4 | NA | 1.5 | NP |
| MW-4 | 02/11/99 | 30.39 | 7.80 | 22.59 | 61 | 2.5 | <0.5 | <0.5 | <0.5 | 6 | NA | 1.0 | P |
| MW-4 | 06/23/99 | 30.39 | 9.00 | 21.39 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <3 | NA | 1.42 | NP |
| MW-4 | 06/23/99 | 30.39 | 9.00 | 21.39 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 6 | NA | 1.53 | NP |
| MW-4 | 08/23/99 | 30.39 | 9.31 | 21.08 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 6 | NA | 0.98 | NP |
| MW-4 | 10/27/99 | 30.39 | 9.80 | 20.59 | <50 | <0.5 | <0.5 | <0.5 | <1 | 6 | NA | 0.74 | NP |
| MW-4 | 02/09/00 | 30.39 | 8.63 | 21.76 | <50 | <0.5 | <0.5 | <0.5 | <1 | 7 | NA | 0.74 | NP |

TPPH = Total purgeable petroleum hydrocarbons by modified EPA method 8015
 BTEX = Benzene, toluene, ethylbenzene, total xylenes by EPA method 8021B. (EPA method 8020 prior to 10/27/99).
 MTBE = Methyl tert -Butyl Ether
 * = EPA method 8020 prior to 10/27/99
 MSL = Mean sea level
 TOC = Top of casing
 ppb = Parts per billion
 ppm = Parts per million
 NA = Not analyzed
 NM = Not measured
 < = Denotes concentration not present above laboratory detection limited stated to the right

Client Sample Results

Client: Broadbent & Associates, Inc.
 Project/Site: ARCO 2162, San Leandro

TestAmerica Job ID: 440-97145-1

Client Sample ID: Irrigation Well

Lab Sample ID: 440-97145-1

Date Collected: 12/16/14 18:45

Matrix: Water

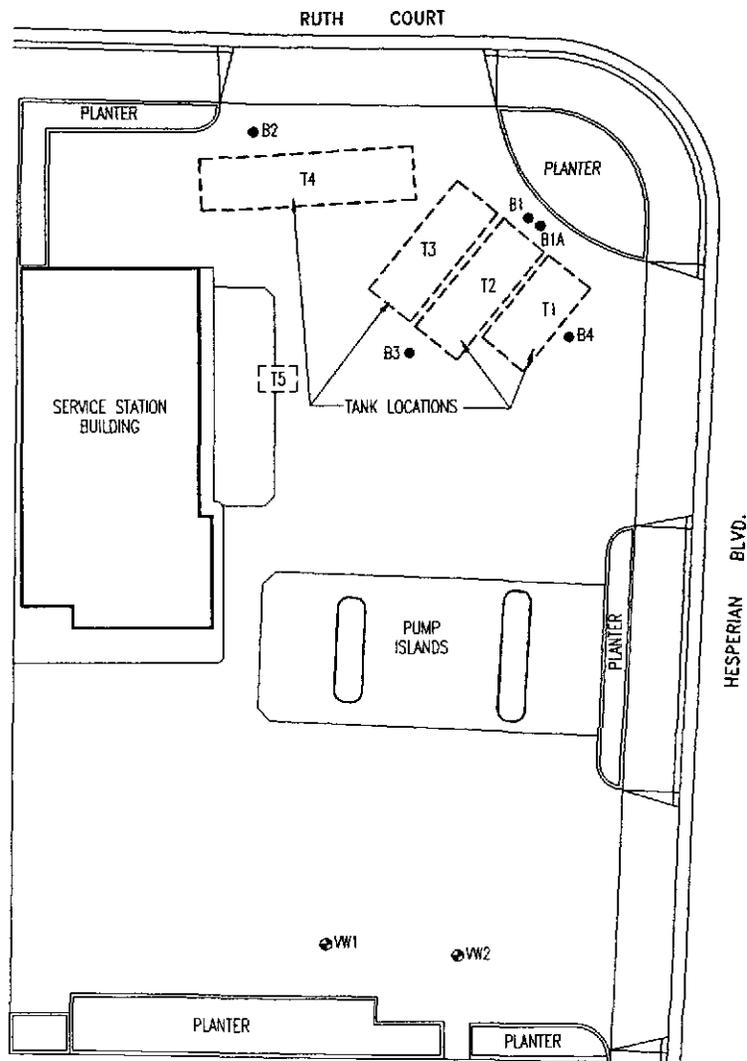
Date Received: 12/18/14 10:43

Method: 8260B/CA_LUFTMS - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| GRO (C4-C12) | ND | | 50 | ug/L | | | 12/18/14 13:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Dibromofluoromethane (Surr) | 104 | | 76 - 132 | | | | 12/18/14 13:09 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | | 80 - 120 | | | | 12/18/14 13:09 | 1 |
| Toluene-d8 (Surr) | 107 | | 80 - 128 | | | | 12/18/14 13:09 | 1 |

Method: 8260B - Volatile Organic Compounds (GC/MS)

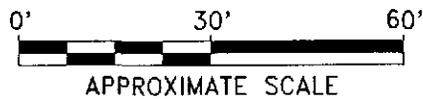
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|------|---|----------|----------------|---------|
| Benzene | ND | | 0.50 | ug/L | | | 12/18/14 13:09 | 1 |
| Ethylbenzene | ND | | 0.50 | ug/L | | | 12/18/14 13:09 | 1 |
| m,p-Xylene | ND | | 1.0 | ug/L | | | 12/18/14 13:09 | 1 |
| Methyl-t-Butyl Ether (MTBE) | ND | | 0.50 | ug/L | | | 12/18/14 13:09 | 1 |
| o-Xylene | ND | | 0.50 | ug/L | | | 12/18/14 13:09 | 1 |
| Toluene | ND | | 0.50 | ug/L | | | 12/18/14 13:09 | 1 |
| Xylenes, Total | ND | | 1.0 | ug/L | | | 12/18/14 13:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97 | | 80 - 120 | | | | 12/18/14 13:09 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 76 - 132 | | | | 12/18/14 13:09 | 1 |
| Toluene-d8 (Surr) | 107 | | 80 - 128 | | | | 12/18/14 13:09 | 1 |



EXPLANATION

- B1 SOIL BORING LOCATIONS AND DESIGNATIONS.
- ⊙ VW1 VAPOR EXTRACTION TEST WELL LOCATIONS AND DESIGNATIONS.
- ⌚ FORMER UNDERGROUND STORAGE TANK LOCATION.

- T1 6,000 GAL. STEEL TANK.
- T2 8,000 GAL. STEEL TANK.
- T3 8,000 GAL. STEEL TANK.
- T4 12,000 GAL. FIBERGLASS TANK.
- T5 560 GAL. WASTE OIL TANK.



| | |
|---------------|----------|
| COMPILED BY: | T.R. |
| PREPARED BY: | R.P. |
| PROJECT MNGR. | G.M. |
| DATE: | 06/92 |
| SCALE: | AS SHOWN |
| PROJECT NO. | A117W01 |
| FILE NAME: | AR216201 |

| | |
|---------------|------------------------|
| PREPARED FOR: | ARCO PRODUCTS COMPANY |
| TITLE: | SITE PLAN |
| | ARCO FACILITY NO. 2162 |

FIGURE
2

TABLE 1: Summary of Soil Sample Analytical Data
 ARCO Facility No. 2162, San Leandro, California

| Sample Designation | Date | Depth (feet bgs) | TPH-G(1) | BTEX Distinction(1) | | | |
|--------------------|--------|------------------|----------|---------------------|---------|--------------|---------|
| | | | | Benzene | Toluene | Ethylbenzene | Xylenes |
| B1-5 | 6/5/91 | 5 | ND | ND | ND | ND | 0.016 |
| B1A-7.5 | 6/5/91 | 7.5 | 43 | 0.14 | 0.93 | 1.1 | 7.8 |
| B2-5 | 6/5/91 | 5 | 1.3 | ND | ND | ND | 0.018 |
| B2-9 | 6/5/91 | 9 | ND | ND | ND | ND | ND |
| B3-4 | 6/5/91 | 4 | 26 | 0.024 | 0.029 | 0.16 | 1.1 |
| B3-7.5 | 6/5/91 | 7.5 | 1400 | 2.5 | 4.4 | 29 | 190 |
| B4-4.5 | 6/5/91 | 4.5 | ND | 0.025 | 0.013 | 0.0085 | 0.042 |
| B4-7.5 | 6/5/91 | 7.5 | 2400 | 17 | 62 | 41 | 260 |
| VW1-6 | 6/5/91 | 6 | 2.8 | 0.033 | 0.0073 | 0.079 | 0.055 |
| VW1-9 | 6/5/91 | 9 | 100 | 0.48 | 1.4 | 2.7 | 4.1 |

FOOTNOTES:

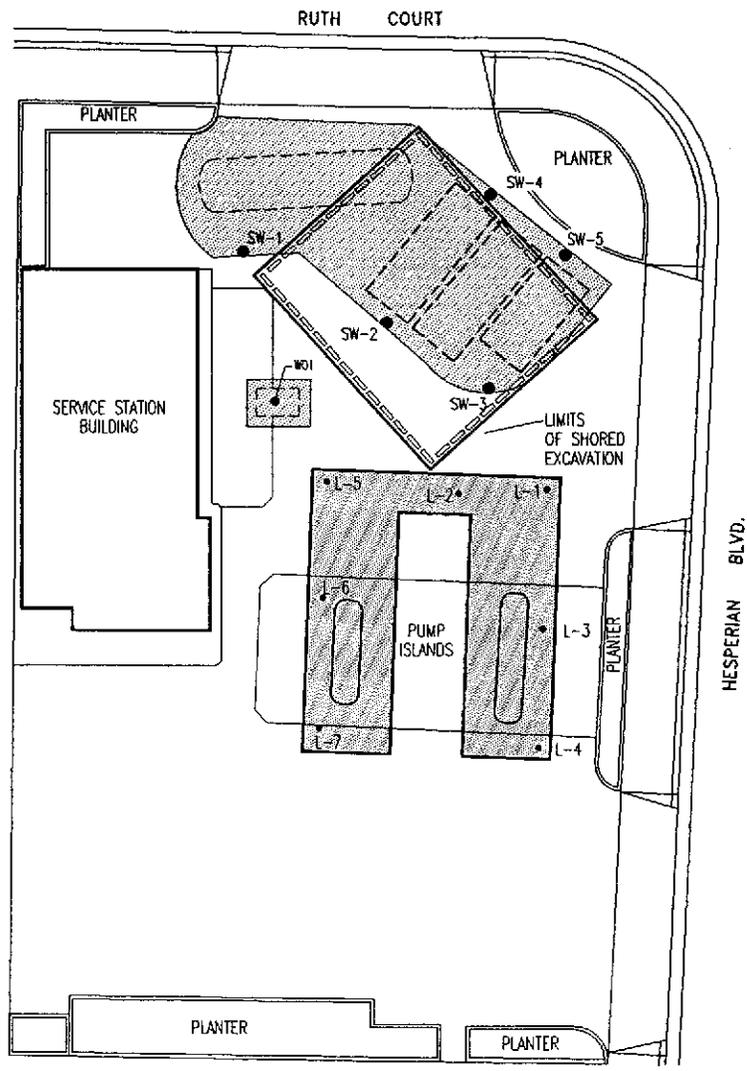
(1) = Concentrations reported in mg/kg (ppm)

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

BTEX Distinction (USEPA 8020)

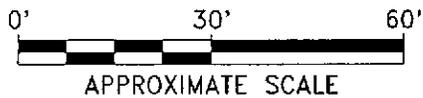
ND = Not Detected (For detection limits see laboratory reports, Appendix C)

bgs = below ground surface



EXPLANATION

-  FORMER UNDERGROUND STORAGE TANK AND PRODUCT LINE EXCAVATIONS.
- L-1 PRODUCT LINE SAMPLE LOCATION AND DESIGNATION.
- SW-1 SIDEWALL SOIL SAMPLE LOCATION AND DESIGNATION.
-  SHEET PILES AT LIMITS OF NEW TANK CAVITY.
-  FORMER UNDERGROUND STORAGE TANK LOCATION.



| | |
|---------------|----------|
| COMPILED BY: | T.R. |
| PREPARED BY: | R.P. |
| PROJECT MNGR. | G.M. |
| DATE: | 07/91 |
| SCALE: | 01/92 |
| PROJECT NO. | A117W01 |
| FILE NAME: | AR216201 |

| | |
|---------------|---|
| PREPARED FOR: | ARCO PRODUCTS COMPANY |
| TITLE: | PRODUCT LINE AND SIDEWALL SOIL SAMPLE LOCATIONS |
| | ARCO FACILITY NO. 2162 |

| | |
|--------|---|
| FIGURE | 3 |
|--------|---|

**Table 2. Summary of Soil Analyses: Sidewall and Product Lines
ARCO Facility No. 2162, San Leandro, California**

| Sample Number | Date Sampled | Depth Sampled | TPH-G (1) | BTEX Distinction (1) | | | |
|-------------------------------------|--------------|---------------|-----------|----------------------|---------|--------------|---------|
| | | | | Benzene | Toluene | Ethylbenzene | Xylenes |
| <u>Excavation Sidewall Samples:</u> | | | | | | | |
| SW-1 | 12/5/91 | 9 | 500 | ND | 0.4 | 3.5 | 8.4 |
| SW-2 | 12/5/91 | 10 | 140 | 0.1 | 0.38 | 3.0 | 7.2 |
| SW-3 | 12/5/91 | 10 | 150 | 0.26 | 0.11 | 2.1 | 2.0 |
| SW-4 | 12/5/91 | 10 | 610 | 0.47 | 7.1 | 11 | 82 |
| SW-5 | 12/5/91 | 10 | 1,000 | 2.3 | 9.2 | 25 | 220 |
| <u>Product Line Samples:</u> | | | | | | | |
| L-1 | 2/4/92 | 3 | ND | ND | ND | ND | ND |
| L-2 | 2/4/92 | 3.5 | 4.4 | 0.082 | 0.013 | 0.21 | 0.3 |
| L-3 | 2/4/92 | 3 | ND | ND | ND | ND | ND |
| L-4 | 2/4/92 | 3 | ND | 0.0063 | 0.0076 | ND | 0.029 |
| L-5 | 2/4/92 | 3 | 110 | 0.65 | 0.17 | 1.2 | 0.14 |
| L-6 | 2/4/92 | 2.5 | 16 | 1.0 | 0.2 | 0.96 | 4.0 |
| L-7 | 2/4/92 | 4 | 12 | 0.28 | 0.018 | 0.35 | 0.78 |

FOOTNOTES

(1) = Concentrations reported in mg/kg (= parts per million).

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

BTEX Distinction (USEPA Method 8020).

ND = Not Detected.

**Table 3. Summary of Soil Analyses: Waste Oil Tank Cavity
ARCO Facility No. 2162, San Leandro, California**

| Sample Number | Date Sampled | Depth Sampled | TPH-G (1) | BTEX Distinction (1) | | | | VOCs (1) |
|---------------|--------------|---------------|-----------|----------------------|---------|--------------|---------|----------|
| | | | | Benzene | Toluene | Ethylbenzene | Xylenes | |
| WO-1 | 12/5/91 | 10 | 310 | 0.78 | 0.8 | 2.9 | 13 | ND* |

| Sample Number | TPH-D (1) | O&G (1) | Metals (1) | | | | |
|---------------|-----------|---------|------------|----------|------|--------|------|
| | | | Cadmium | Chromium | Lead | Nickel | Zinc |
| WO-1 | 360 | 270 | ND | 49 | 5.2 | 59 | 58 |

FOOTNOTES

(1) = Concentrations reported in mg/kg (= parts per million).

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

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

O&G = Total Recoverable Petroleum Oil and Grease (SM 5520 E&F).

BTEX Distinction (USEPA Method 8020).

VOCs = Volatile Organic Compounds (USEPA Method 8240).

Metals by Inductively Coupled Plasma Spectroscopy (USEPA Method 6010).

ND = Not detected.

ND* = Not detected except BTEX Compounds.



SEQUOIA ANALYTICAL

1900 Bates Avenue • Suite LM • Concord, California 94520
(510) 686-9600 • FAX (510) 686-9689

Roux Associates
1350 Arnold Drive, Suite 201
Martinez, CA 94553
Attention: Paul Supple

Client Project ID: Arco #2162/San Leandro
Sample Descript: Soil, WO-1
Analysis Method: EPA 8240
Lab Number: 112-0152

Sampled: Dec 5, 1991
Received: Dec 5, 1991
Analyzed: Dec 10, 1991
Reported: Dec 11, 1991

VOLATILE ORGANICS by GC/MS (EPA 8240)

| Analyte | Detection Limit µg/kg | Sample Results µg/kg |
|--------------------------------|--------------------------|-------------------------|
| Acetone..... | 2,500 | N.D. |
| Benzene..... | 500 | 550 |
| Bromodichloromethane..... | 500 | N.D. |
| Bromoform..... | 500 | N.D. |
| Bromomethane..... | 500 | N.D. |
| 2-Butanone..... | 2,500 | N.D. |
| Carbon disulfide..... | 500 | N.D. |
| Carbon tetrachloride..... | 500 | N.D. |
| Chlorobenzene..... | 500 | N.D. |
| Chloroethane..... | 500 | N.D. |
| 2-Chloroethyl vinyl ether..... | 2,500 | N.D. |
| Chloroform..... | 500 | N.D. |
| Chloromethane..... | 500 | N.D. |
| Dibromochloromethane..... | 500 | N.D. |
| 1,1-Dichloroethane..... | 500 | N.D. |
| 1,2-Dichloroethane..... | 500 | N.D. |
| 1,1-Dichloroethene..... | 500 | N.D. |
| cis-1,2-Dichloroethene..... | 500 | N.D. |
| trans-1,2-Dichloroethene..... | 500 | N.D. |
| 1,2-Dichloropropane..... | 500 | N.D. |
| cis-1,3-Dichloropropene..... | 500 | N.D. |
| trans-1,3-Dichloropropene..... | 500 | N.D. |
| Ethylbenzene..... | 500 | 7,400 |
| 2-Hexanone..... | 2,500 | N.D. |
| Methylene chloride..... | 500 | N.D. |
| 4-Methyl-2-pentanone..... | 2,500 | N.D. |
| Styrene..... | 500 | N.D. |
| 1,1,2,2-Tetrachloroethane..... | 500 | N.D. |
| Tetrachloroethene..... | 500 | N.D. |
| Toluene..... | 500 | 1,100 |
| 1,1,1-Trichloroethane..... | 500 | N.D. |
| 1,1,2-Trichloroethane..... | 500 | N.D. |
| Trichloroethene..... | 500 | N.D. |
| Trichlorofluoromethane..... | 500 | N.D. |
| Vinyl acetate..... | 500 | N.D. |
| Vinyl chloride..... | 500 | N.D. |
| Total Xylenes..... | 500 | 38,000 |

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Kenneth K.F. Lee
Laboratory Manager

**Table 4. Summary of Soil Analyses: Soil Stockpiles
ARCO Facility No. 2162, San Leandro, California**

| Sample Number | Date Sampled | TPH-G(1) | BTEX Distinction (1) | | | |
|---------------|--------------|----------|----------------------|---------|--------------|---------|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes |
| CS-1 | 12/9/91 | 1,300 | 0.98 | 3.7 | 5.0 | 110 |
| CS-2 | 12/9/91 | 1,000 | 5.6 | 39 | 14 | 130 |
| CS-3 | 12/9/91 | 200 | 0.36 | 0.91 | 1.5 | 20 |
| CS-4 | 12/9/91 | 86 | 0.077 | 0.11 | 0.36 | 2.8 |
| CS-5 | 12/9/91 | 100 | 0.14 | 0.27 | 0.65 | 4.8 |
| CS-6 | 12/9/91 | 140 | 0.032 | 0.085 | 0.47 | 3.7 |
| CS-7 | 12/9/91 | 110 | ND | 0.082 | 0.074 | 1.9 |
| CS-8 | 12/9/91 | 270 | 0.12 | 0.1 | 0.22 | 13 |
| CS-9 | 12/9/91 | 54 | ND | ND | ND | 0.24 |
| CS-10 | 12/9/91 | 480 | 0.44 | 0.36 | 3.8 | 26 |
| CS-11 | 1/27/92 | 51 | 0.11 | ND | 0.18 | 0.95 |
| CS-12 | 1/31/92 | 6.2 | 0.016 | 0.013 | 0.016 | 0.16 |
| CS-13 | 1/31/92 | 23 | 0.028 | 0.066 | 0.11 | 0.82 |

FOOTNOTES

(1) = Concentrations reported in mg/kg (= parts per million).

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

BTEX Distinction (USEPA Method 8020).

ND = Not Detected.

**Table 5. Summary of Soil Analyses: Aerated Soil Stockpiles
ARCO Facility No. 2162, San Leandro, California**

| Sample Number | Date Sampled | TPH-G(1) | BTEX Distinction (1) | | | |
|---------------|--------------|----------|----------------------|---------|--------------|---------|
| | | | Benzene | Toluene | Ethylbenzene | Xylenes |
| CSA-2 | 3/10/92 | 30 | ND | ND | 0.045 | 0.4 |
| CSA-6 | 1/13/92 | 77 | 0.063 | 1.3 | 0.27 | 2.3 |
| CSA-7 | 1/15/92 | 150 | 0.17 | 0.85 | 0.75 | 6.3 |
| CSAA-7 | 1/21/92 | 41 | 0.033 | 0.096 | 0.056 | 0.6 |
| CS-14 | 2/12/92 | 190 | 0.24 | 0.96 | 0.88 | 9.2 |
| CSA-14 | 2/21/92 | 57 | ND | 0.055 | 0.12 | 0.61 |
| CS-15 | 2/12/92 | 110 | 0.1 | 0.39 | 0.35 | 3.5 |
| CSA-15 | 2/21/92 | 45 | ND | 0.07 | 0.068 | 0.91 |
| CS-16 | 2/21/92 | ND | ND | ND | ND | ND |
| CS-17 | 2/21/92 | 16 | 0.058 | 0.024 | 0.082 | 0.38 |
| CS-18 | 3/23/92 | 19 | ND | 0.013 | 0.035 | 0.12 |
| CS-19 | 3/23/92 | 40 | 0.009 | ND | 0.14 | 0.84 |
| CS-20 | 3/23/92 | 8.5 | ND | 0.013 | 0.011 | 0.045 |

FOOTNOTES

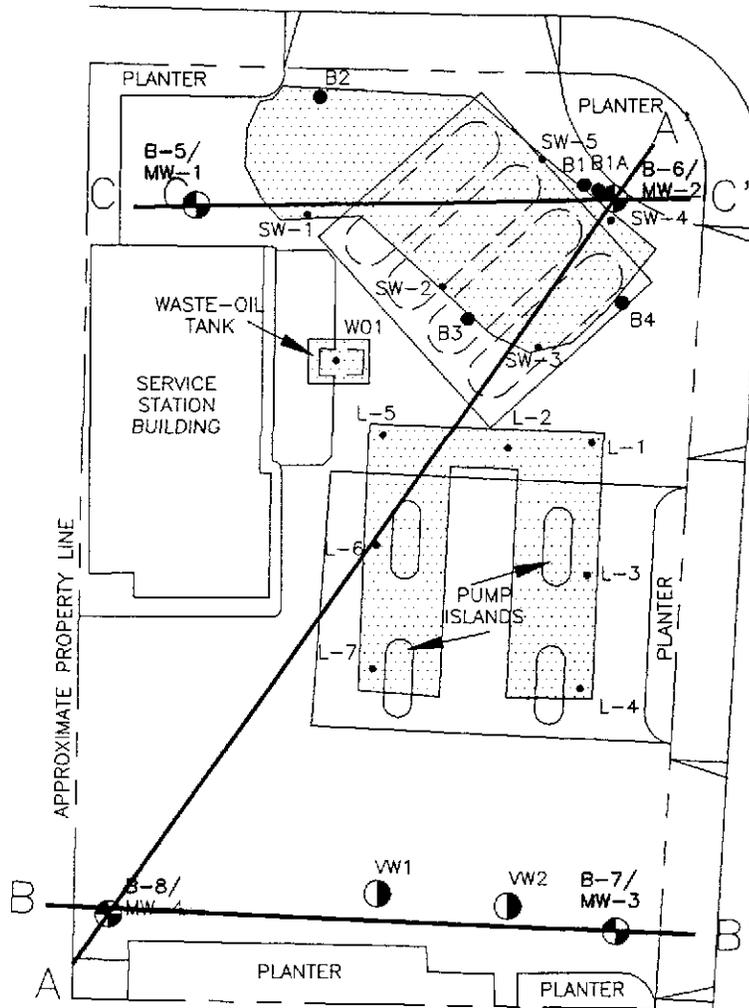
(1) = Concentrations reported in mg/kg (= parts per million).

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

BTEX Distinction (USEPA Method 8020).

ND = Not Detected.

RUTH COURT



EXPLANATION

B-8/
MW-4 ● = Monitoring well RESNA September 1992

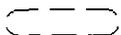
VW2 ● = Vapor extraction well
(Roux Associates, Inc., 1991)

B4 ● = Soil boring
(Roux Associates, Inc., 1991)

L-7 • = Product line sample

SW-5 • = Sidewall soil sample

 = Former underground storage tank
and product line excavations

 = Existing underground storage tank

Approximate Scale

30 15 0 30 60



feet

Source: Modified from site plan provided by Roux Associates,
and survey data from John Koch, licensed
land surveyor (9/16/92)

RESNA
Working to Restore Nature

GENERALIZED SITE PLAN
ARCO Station 2162
15135 Hesperian Boulevard
San Leandro, California

PLATE

2

PROJECT 62019.02

Subsurface Environmental Investigation
ARCO Station 2162, San Leandro, California

March 10, 1993
62019.02

TABLE 1
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF SOIL SAMPLES
ARCO Station 2162
15135 Hesperian Boulevard
San Leandro, California
(Page 1 of 3)

| Sample Number | TPHg | Benzene | Toluene | Ethyl-benzene | Total Xylenes |
|---------------------------|-------|---------|---------|---------------|---------------|
| <u>June 1991</u> | | | | | |
| <u>Borings</u> | | | | | |
| S-B1-5 | <1.0 | <0.0050 | <0.0050 | <0.0050 | 0.016 |
| S-B1A-7.5 | 43 | 0.14 | 0.93 | 1.1 | 7.6 |
| S-B2-5 | 1.3 | <0.0050 | <0.0050 | <0.0050 | <0.018 |
| S-B2-9 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| S-B3-4 | 26 | 0.024 | 0.029 | 0.16 | 1.1 |
| S-B3-7.5 | 1,400 | 2.5 | 4.4 | 29 | 190 |
| S-B4-4.5 | <1.0 | 0.025 | 0.013 | 0.0085 | 0.042 |
| S-B4-7.5 | 2,400 | 17 | 62 | 41 | 260 |
| S-VW1-6 | 2.8 | 0.033 | 0.0073 | 0.079 | 0.055 |
| S-VW1-9 | 100 | 0.48 | 1.4 | 2.7 | 4.1 |
| <u>December 1991</u> | | | | | |
| <u>Tank Pit Sidewall</u> | | | | | |
| SW-1 at 9 | 500 | <0.0050 | 0.40 | 3.5 | 8.4 |
| SW-2 at 10 | 140 | 0.10 | 0.38 | 3.0 | 7.2 |
| SW-3 at 10 | 150 | 0.26 | 0.11 | 2.1 | 2.0 |
| SW-4 at 10 | 610 | 0.47 | 7.1 | 11 | 82 |
| SW-5 at 10 | 1,000 | 2.3 | 9.2 | 25 | 220 |
| <u>Waste-oil Sidewall</u> | | | | | |
| WO-1 at 10 | 310 | 0.78 | 0.8 | 2.9 | 13 |

| Sample Number | TPHd | TOG | VOC's | Cd | Cr | Pb | Ni | Zn |
|---------------|------|-----|-------|----|----|-----|----|----|
| WO-1 at 10 | 360 | 270 | ND | ND | 49 | 5.2 | 59 | 58 |

| Sample Number | TPHg | Benzene | Toluene | Ethyl-benzene | Total Xylenes |
|-----------------------|-------|---------|---------|---------------|---------------|
| <u>December 1991</u> | | | | | |
| <u>Soil Stockpile</u> | | | | | |
| CS-1 | 1,300 | 0.98 | 3.7 | 5.0 | 110 |
| CS-2 | 1,000 | 5.6 | 39 | 14 | 130 |
| CS-3 | 200 | 0.36 | 0.91 | 1.5 | 20 |
| CS-4 | 86 | 0.077 | 0.11 | 0.36 | 2.8 |

See notes on page 3 of 3

Subsurface Environmental Investigation
ARCO Station 2162, San Leandro, California

March 10, 1993
62019.02

TABLE 1
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF SOIL SAMPLES
ARCO Station 2162
15135 Hesperian Boulevard
San Leandro, California
(Page 2 of 3)

| Sample Number | TPHg | Benzene | Toluene | Ethyl-benzene | Total Xylenes |
|-----------------------|------|---------|---------|---------------|---------------|
| CS-5 | 100 | 0.14 | 0.27 | 0.65 | 4.8 |
| CS-6 | 140 | 0.032 | 0.085 | 0.47 | 3.7 |
| CS-7 | 110 | ND | 0.082 | 0.074 | 1.9 |
| CS-8 | 270 | 0.12 | 0.1 | 0.22 | 13 |
| CS-9 | 54 | ND | ND | ND | 0.24 |
| CS-10 | 480 | 0.44 | 0.36 | 3.8 | 26 |
| <u>January 1992</u> | | | | | |
| <u>Soil Stockpile</u> | | | | | |
| CS-11 | 51 | 0.11 | ND | 0.18 | 0.95 |
| CS-12 | 6.2 | 0.016 | 0.013 | 0.016 | 0.16 |
| CS-13 | 23 | 0.028 | 0.066 | 0.11 | 0.82 |
| <u>February 1992</u> | | | | | |
| <u>Product Lines</u> | | | | | |
| L-1 at 3 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| L-2 at 3.5 | 4.4 | 0.082 | 0.013 | 0.21 | 0.30 |
| L-3 at 3 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| L-4 at 3 | <1.0 | 0.0063 | 0.0076 | <0.0050 | 0.029 |
| L-5 at 3 | 110 | 0.65 | 0.17 | 1.2 | 0.14 |
| L-6 at 2.5 | 16 | 1.0 | 0.20 | 0.96 | 4.0 |
| L-7 at 4 | 12 | 0.28 | 0.018 | 0.35 | 0.78 |
| <u>September 1992</u> | | | | | |
| <u>Borings</u> | | | | | |
| <i>MW-1</i> S-4.5-B5 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| S-10-B5 | 100 | <0.0050 | <0.0050 | 0.46 | 0.36 |
| S-5-B6 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| <i>MW-2</i> S-10-B6 | 550 | 0.79 | 1.3 | 10 | 48 |
| S-17-B6 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| S-5-B7 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| <i>MW-3</i> S-10-B7 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| S-16.5-B7 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |

See notes on page 3 of 3

Subsurface Environmental Investigation
ARCO Station 2162, San Leandro, California

March 10, 1993
62019.02

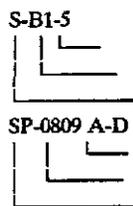
TABLE 1
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF SOIL SAMPLES
ARCO Station 2162
15135 Hesperian Boulevard
San Leandro, California
(Page 3 of 3)

| Sample Number | TPHg | Benzene | Toluene | Ethyl-benzene | Total Xylenes |
|---------------------|------|---------|---------|---------------|---------------|
| S-5-B8 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| S-9.5-B8 | 2.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |
| <i>mw-4</i> S-11-B8 | 51 | 0.18 | <0.0050 | 0.056 | 0.11 |
| S-11.5-B8 | 91 | 1.4 | 0.11 | 0.22 | 0.86 |
| S-18.5-B8 | <1.0 | <0.0050 | <0.0050 | <0.0050 | <0.0050 |

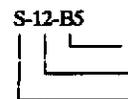
| Sample Number | TPHg | Benzene | Toluene | Ethyl-benzene | Total Xylenes | pH | I | R | Pb |
|-----------------------|------|---------|---------|---------------|---------------|-----|------|------|------|
| <u>September 1992</u> | | | | | | | | | |
| <u>Soil Stockpile</u> | | | | | | | | | |
| SP-0809 A-D | 11 | <0.0050 | <0.0050 | 0.52 | 0.12 | 8.4 | >100 | None | 0.11 |

All results in parts per million (ppm).
TPHg = Total petroleum hydrocarbons as gasoline.
I = Ignitability in °C
R = Reactivity to sulfide, cyanide, or water
Pb = lead
<: Below the reporting limits of the analytical method.

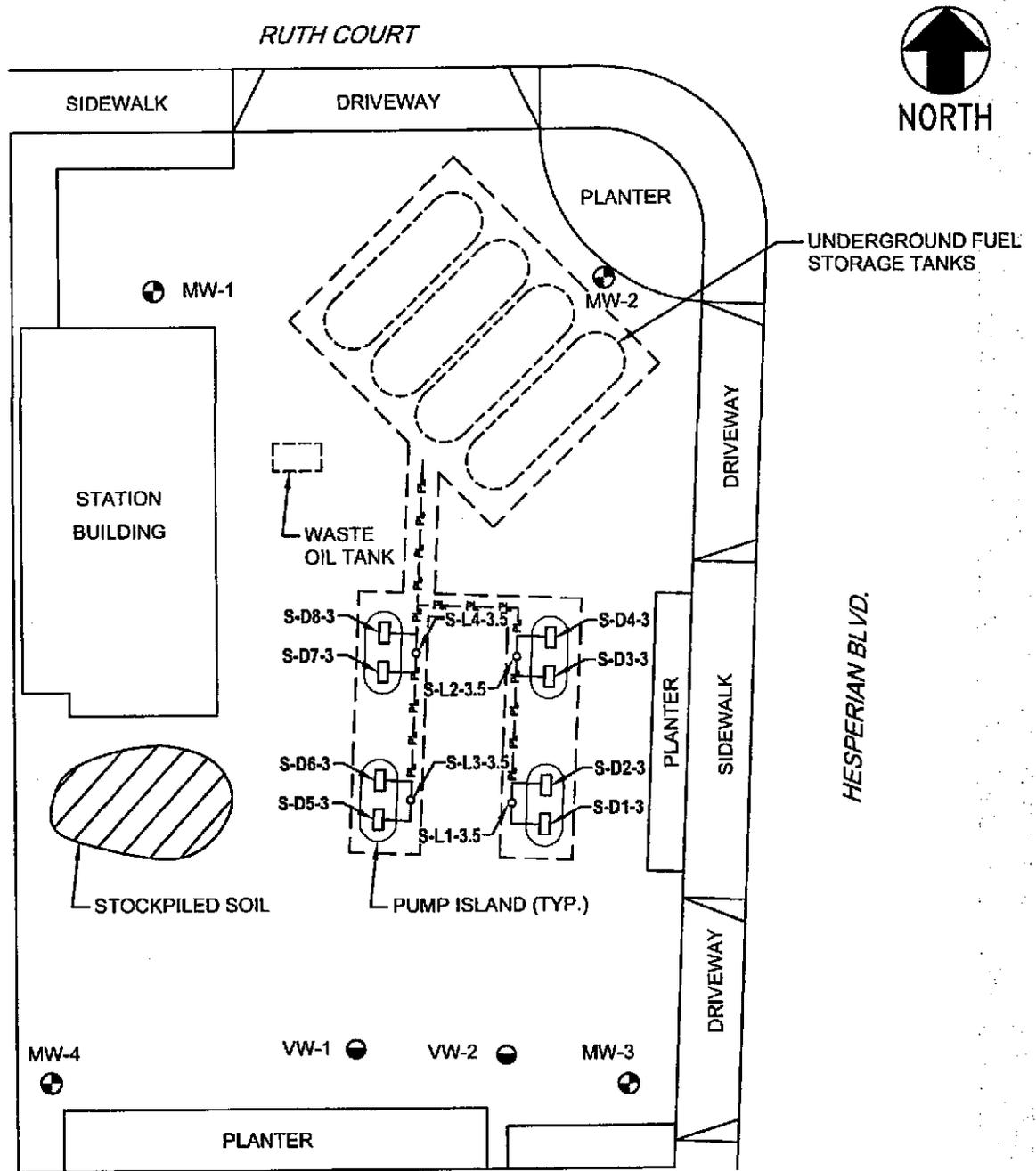
Sample designations:



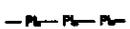
Sample depth
Boring number
Soil sample

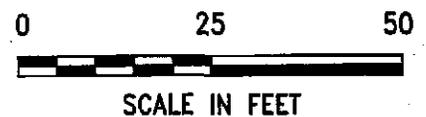


Boring number
Sample depth in feet
Soil sample



LEGEND

- MW-1  GROUNDWATER MONITORING WELL
- VW-1  SOIL VAPOR EXTRACTION WELL
- S-L1-3.5  FUEL LINE SAMPLING LOCATION
- S-D1-3  FUEL DISPENSER SAMPLING LOCATION
-  EXPOSED PRODUCT LINE PIPING
-  APPROXIMATE LIMITS OF EXCAVATION



Project No. 38486067
 Arco Service Station No. 2162
 15135 Hesperian Boulevard
 San Leandro, California

SOIL SAMPLING LOCATION PLAN
 January 10, 2003

FIGURE
 2

Soil Analytical Data
 ARCO Service Station No. 2162
 15135 Hesperian Boulevard
 San Leandro, California

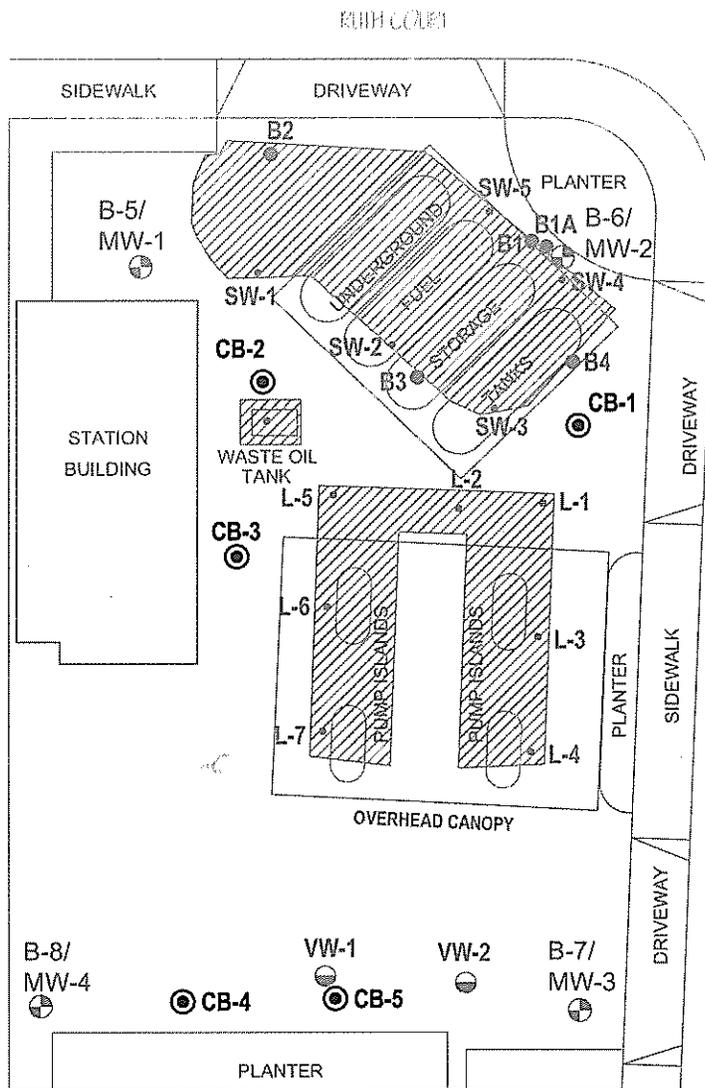
TABLE 1
Product Line/Dispenser Analytical Results

| Soil Sample ID | Sample | Date | TPH as gasoline (ppm) | Benzene (ppm) | Toluene (ppm) | Ethylbenzene (ppm) | Total Xylenes (ppm) | MTBE (ppm) |
|----------------|--------|---------|-----------------------|---------------|---------------|--------------------|---------------------|------------|
| S-D1-3 | 3 | 1/10/03 | ND<0.5 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.025 |
| S-D2-3 | 3 | 1/10/03 | ND<0.5 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.025 |
| S-D3-3 | 3 | 1/10/03 | ND<0.5 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.025 |
| S-D4-3 | 3 | 1/10/03 | ND<0.5 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.025 |
| S-D5-3 | 3 | 1/10/03 | 0.75 | ND<0.005 | ND<0.005 | 0.021 | 0.03 | 0.093 |
| S-D6-3 | 3 | 1/10/03 | ND<0.5 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.01 | 0.021 |
| S-D7-3 | 3 | 1/10/03 | 5.7 | ND<0.025 | ND<0.025 | 0.1 | 0.49 | ND<0.12 |
| S-D8-3 | 3 | 1/10/03 | 46 | ND<0.025 | 0.13 | 0.17 | 0.36 | ND<0.25 |
| S-L1-3.5 | 3.5 | 1/10/03 | ND<0.5 | 0.072 | 0.0095 | 0.029 | 0.032 | 0.14 |
| S-L2-3.5 | 3.5 | 1/10/03 | ND<0.5 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.025 |
| S-L3-3.5 | 3.5 | 1/10/03 | ND<2.5 | ND<0.025 | ND<0.025 | ND<0.025 | ND<0.05 | 0.55 |
| S-L4-3.5 | 3.5 | 1/10/03 | 200 | ND<0.025 | 2.1 | 1.4 | 1.5 | ND<0.25 |

TABLE 2
Soil Stockpile Analytical Results

| Soil Sample ID | Sample | Date | TPH as gasoline (ppm) | Benzene (ppm) | Toluene (ppm) | Ethylbenzene (ppm) | Total Xylenes (ppm) | MTBE (ppm) | Total Lead (ppm) |
|--------------------|--------|---------|-----------------------|---------------|---------------|--------------------|---------------------|------------|------------------|
| SP (1-4) Composite | -- | 1/10/03 | 0.79 | ND<0.025 | ND<0.025 | 0.032 | 0.14 | ND<0.12 | 19 |

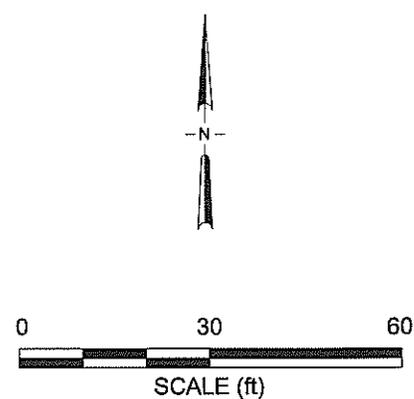
TPH = Total purgeable petroleum hydrocarbons using EPA Method 8015B, modified.
 BTEX = Benzene, toluene, ethylbenzene, total xylenes using EPA Method 8021B.
 MTBE = Methyl Tertiary Butyl Ether.
 ppb = Parts per billion.
 ppm = Parts per million.
 ND< = Less than stated laboratory detection limit.



LEGEND

- CB-5** SOIL/GROUND-WATER BORING (STRATUS 2007)
- B-8/MW-4** MONITORING WELL RESNA (SEPTEMBER 1992)
- VW-2** SOIL VAPOR EXTRACTION WELL (ROUX ASSOCIATES, INC., 1991)
- B-4** SOIL BORING (ROUX ASSOCIATES, INC., 1991)
- SW-5** SIDEWALL SOIL SAMPLE
- L-7** PRODUCT LINE SAMPLE
- FORMER UNDERGROUND STORAGE TANK AND PRODUCT LINE EXCAVATIONS

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



**Table 4 Summary of Depth-Discrete Soil Sampling Data
Atlantic Richfield Company Station No. 2162
15135 Hesperian Boulevard, San Leandro, California (ACEH Case No. RO0000190)**

| Boring I.D. | Date | Laboratory Analytical Results (mg/kg) | | | | | | | | | | | | | | % Total Solids |
|---------------|-----------|---------------------------------------|--------------|---------|---------|--------------|---------------|---------------|---------|---------|--------|---------|---------|---------|---------|----------------|
| | | GRO | DRO | Benzene | Toluene | Ethylbenzene | Total Xylenes | MTBE | DIPE | ETBE | TBA | TAME | Ethanol | EDB | 1,2 DCA | |
| CB1-7.5'-8' | 7/17/2007 | <0.13 | 4.5 | <0.0063 | <0.0063 | <0.0063 | <0.0063 | <0.0063 | <0.0063 | <0.0063 | <0.025 | <0.0063 | <0.13 | <0.0063 | <0.0063 | 79 |
| CB1-11.5'-12' | 7/17/2007 | <0.12 | <1.2 | <0.0060 | <0.0060 | <0.0060 | <0.0060 | <0.0060 | <0.0060 | <0.0060 | <0.024 | <0.0060 | <0.12 | <0.0060 | <0.0060 | 83 |
| CB1-15.5'-16' | 7/17/2007 | <0.13 | <1.3 | <0.0064 | <0.0064 | <0.0064 | <0.0064 | <0.0064 | <0.0064 | <0.0064 | <0.026 | <0.0064 | <0.13 | <0.0064 | <0.0064 | 78 |
| CB2 11.5'-12' | 7/17/2007 | 2.9 | 1,300 | <0.0058 | <0.0058 | <0.0058 | 0.0071 | <0.0058 | <0.0058 | <0.0058 | <0.023 | <0.0058 | <0.12 | <0.0058 | <0.0058 | 87 |
| CB2 15.5'-16' | 7/17/2007 | <0.13 | 2.3 | <0.0063 | <0.0063 | <0.0063 | <0.0063 | <0.0063 | <0.0063 | <0.0063 | <0.025 | <0.0063 | <0.13 | <0.0063 | <0.0063 | 79 |
| CB3 7.5'-8' | 7/17/2007 | 0.65 | 2.2 | <0.0061 | <0.0061 | <0.0061 | <0.0061 | 0.0063 | <0.0061 | <0.0061 | <0.024 | <0.0061 | <0.12 | <0.0061 | <0.0061 | 82 |
| CB3 11.5'-12' | 7/17/2007 | 400 | 12 | <0.061 | <0.061 | <0.061 | <0.061 | <0.031 | <0.031 | <0.031 | <6.1 | <0.031 | <12 | <0.031 | <0.031 | 82 |
| CB3 15.5'-16' | 7/17/2007 | <0.13 | 1.6 | <0.0063 | <0.0063 | <0.0063 | <0.0063 | <0.0063 | <0.0063 | <0.0063 | <0.025 | <0.0063 | <0.13 | <0.0063 | <0.0063 | 79 |
| CB4 7.5'-8' | 7/17/2007 | <0.12 | 5.6 | <0.0058 | <0.0058 | <0.0058 | <0.0058 | <0.0058 | <0.0058 | <0.0058 | <0.023 | <0.0058 | <0.12 | <0.0058 | <0.0058 | 87 |
| CB4 11.5'-12' | 7/17/2007 | 3.8 | 2.0 | <0.0062 | <0.0062 | <0.0062 | <0.0062 | <0.0062 | <0.0062 | <0.0062 | <0.025 | <0.0062 | <0.12 | <0.0062 | <0.0062 | 81 |
| CB4 15.5'-16' | 7/17/2007 | <0.13 | 1.8 | <0.0064 | <0.0064 | <0.0064 | <0.0064 | <0.0064 | <0.0064 | <0.0064 | <0.026 | <0.0064 | <0.13 | <0.0064 | <0.0064 | 78 |
| CB5 7.5'-8' | 7/17/2007 | <0.12 | 26 | <0.0059 | <0.0059 | <0.0059 | <0.0059 | <0.0059 | <0.0059 | <0.0059 | <0.023 | <0.0059 | <0.12 | <0.0059 | <0.0059 | 85 |
| CB5 11.5'-12' | 7/17/2007 | 1,100 | 18 | <0.60 | <0.60 | <0.60 | <0.60 | <0.30 | <0.30 | <0.30 | <60 | <0.30 | <120 | <0.30 | <0.30 | 83 |
| CB5 15.5'-16' | 7/17/2007 | <0.13 | <1.3 | <0.0065 | <0.0065 | <0.0065 | <0.0065 | <0.0065 | <0.0065 | <0.0065 | <0.026 | <0.0065 | <0.13 | <0.0065 | <0.0065 | 77 |

Bolded values indicate concentrations above laboratory detection limits

GRO = Gasoline Range Organics, C4-C12

MTBE = Methyl tert-butyl ether

ETBE = Ethyl tert-butyl ether

TAME = Tertiary amyl methyl ether

1,2 DCA = 1,2 Dichloroethane

DRO = Diesel Range Organics, C10-C36

DIPE = Di-isopropyl ether

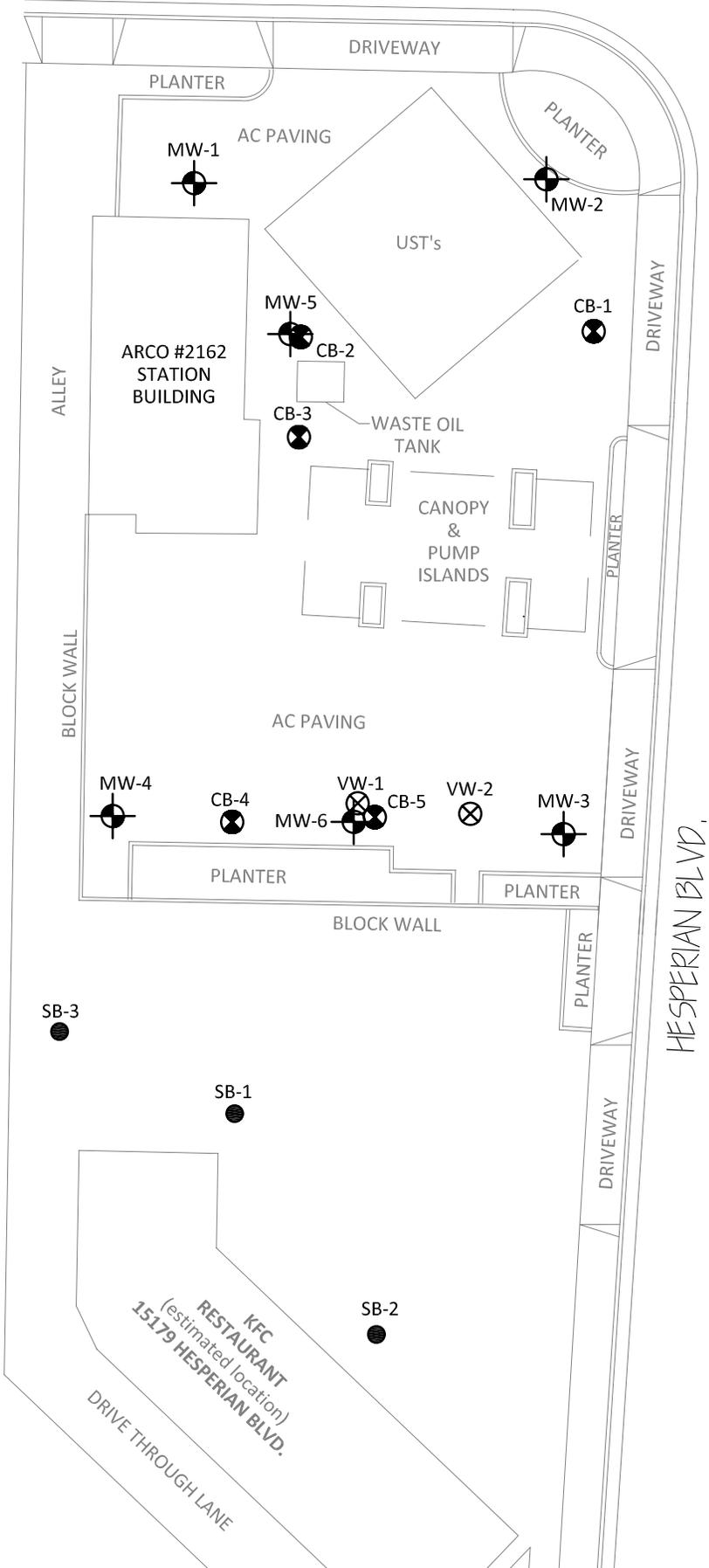
TBA = Tertiary butyl alcohol

EDB = 1,2-Dibromoethane

RUTH COURT

LEGEND

-  Groundwater Monitoring Well Location
-  Vapor Extraction Well Location
-  Soil Boring Location
-  Soil Boring Location (December 2013)



HESPERIAN BLVD.

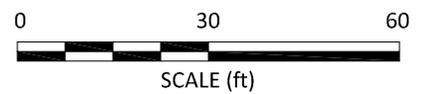


Table 2
Soil Analytical Results
December 2013 Soil Boring Investigation
ARCO Station No. 2162
15135 Hesperian Boulevard, San Leandro, California

| Boring Identification | Soil Sample Depth (feet bgs) | Date Collected | GRO (mg/kg) | DRO (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | MTBE (mg/kg) | ETBE (mg/kg) | TAME (mg/kg) | TBA (mg/kg) | DIPE (mg/kg) | 1,2-DCA (mg/kg) | EDB (mg/kg) | Ethanol (mg/kg) | Naphthalene (mg/kg) |
|-----------------------|------------------------------|----------------|-------------|-------------|-----------------|-----------------|----------------------|-----------------------|--------------|--------------|--------------|-------------|--------------|-----------------|-------------|-----------------|---------------------|
| SB-1 | 14 | 12/23/2013 | ND<0.38 | ND<5.0 | ND<0.0020 | ND<0.0020 | ND<0.0020 | ND<0.0040 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.099 | ND<0.0050 | ND<0.0020 | ND<0.0020 | ND<0.30 | ND<0.0050 |
| SB-2 | 14 | 12/23/2013 | ND<0.38 | ND<5.0 | ND<0.0020 | ND<0.0020 | ND<0.0020 | ND<0.0040 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.099 | ND<0.0050 | ND<0.0020 | ND<0.0020 | ND<0.30 | ND<0.0050 |
| SB-3 | 14 | 12/23/2013 | ND<0.38 | ND<5.0 | ND<0.0020 | ND<0.0020 | ND<0.0020 | ND<0.0040 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.10 | ND<0.0050 | ND<0.0020 | ND<0.0020 | ND<0.30 | ND<0.0050 |

Notes:

feet bgs = feet below ground surface

mg/kg = milligrams per kilogram

GRO = gasoline range organics (C6-C12)

DRO = diesel range organics (C10-C28)

MTBE = methyl tert-butyl ether

ETBE = ethyl tert-butyl ether

TAME = tert-amyl methyl ether

TBA = tert butyl alcohol

DIPE = di isopropyl ether

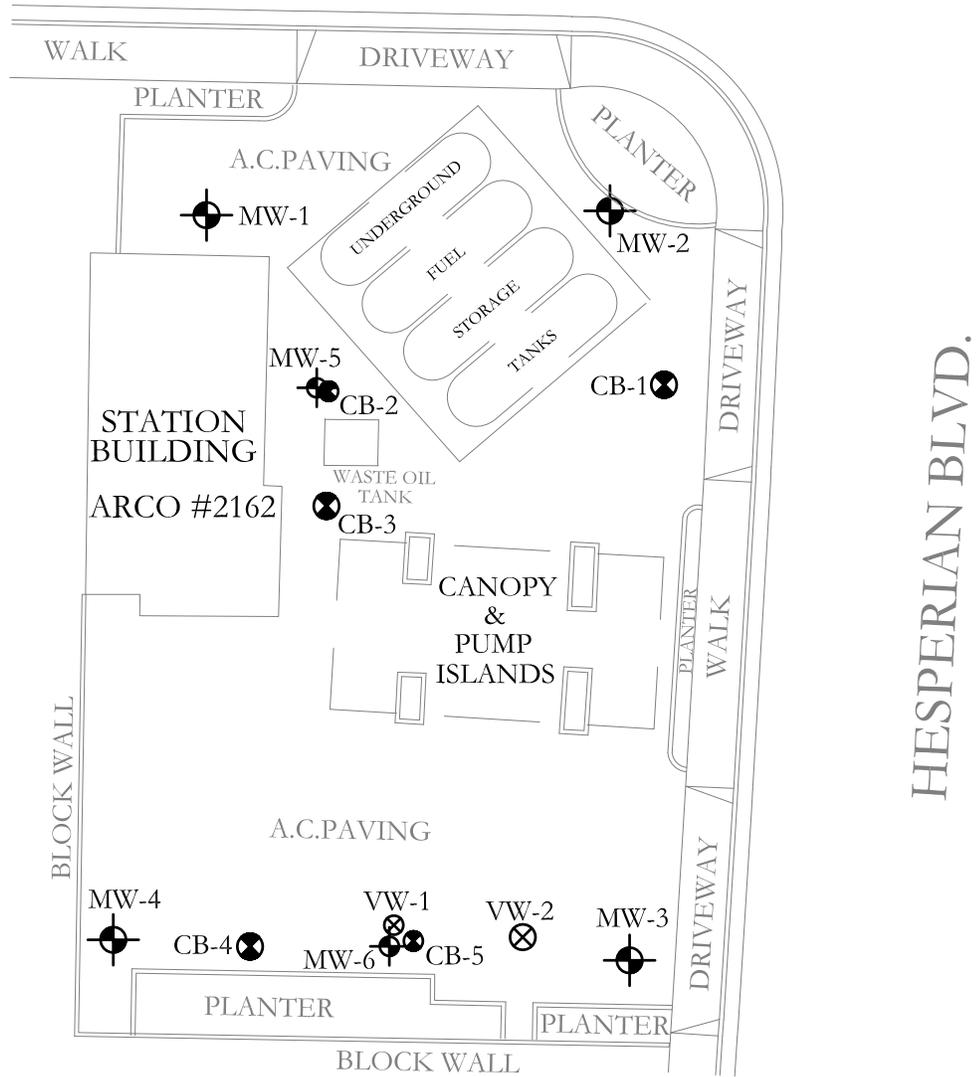
1,2-DCA = 1,2-dichloroethane

EDB = 1,2-dibromoethane

ND<X.XX = not detected above reporting limit of X.XX

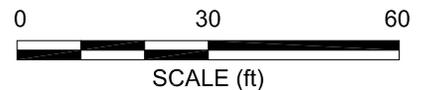
Figure for installation of monitoring wells MW-5 and MW-6.
 No analytical soil samples were collected for delineation or site assessment.

RUTH COURT



LEGEND

- MW-6 MONITORING WELL
- CB-5 SOIL/GROUND-WATER BORING
- VW-2 SOIL VAPOR EXTRACTION WELL



NOTE: SITE MAP ADAPTED FROM STRATUS/WOOD RODGERS.
 SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.