



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

February 27, 2013

Mr. Peter Puckett  
Berkeley Farms  
P.O. Box 4616  
Hayward, CA 94540-4616

Ms. Karen Bellini  
Harmon Management Co.  
199 First Street, Suite 212  
Los Altos, CA 94022

Subject: Case Closure for Fuel Leak Case No. RO0002452 and GeoTracker Global ID T0600190380, Berkeley Farms Truck Repair Southern Site, 4501 San Pablo Avenue, Emeryville, CA 94608

Dear Responsible Parties:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (<http://geotracker.swrcb.ca.gov>) and the Alameda County Environmental Health website (<http://www.acgov.org/aceh/index.htm>).

#### SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Total petroleum hydrocarbons as gasoline remains in soil at concentrations up to 980 ppm.
- Benzene remains in soil at concentrations up to 13 ppm.
- As described in section IV of the attached Case Closure Summary, the case was closed with Site Management Requirements that limit future land use to commercial land use only.

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

Sincerely,

A handwritten signature in blue ink, appearing to read "Donna L. Drogos".

Donna L. Drogos, Division Chief  
Division Chief

Enclosures:

1. Remedial Action Completion Certification
2. Case Closure Summary

cc:

Markus Niebanck  
Emeryville Redevelopment Agency  
1333 Park Ave.  
Emeryville, CA 94608 (Sent via electronic mail to  
[mniebanck@ci.emeryville.ca.us](mailto:mniebanck@ci.emeryville.ca.us))

Closure Unit  
State Water Resources Control Board  
UST Cleanup Fund  
P.O. Box 944212  
Sacramento, CA 94244-2120  
(uploaded to GeoTracker)

Andrew Lojo  
Antea Group  
1350 Treat Blvd., Suite 250  
Walnut Creek, CA 94597 (Sent via E-mail to:  
[Andy.Lojo@anteagroup.com](mailto:Andy.Lojo@anteagroup.com))

Norman Stone  
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1415 E. 5050 S  
Ogden, UT 88403 (Sent via electronic mail to  
[Norm.Stone@deanfoods.com](mailto:Norm.Stone@deanfoods.com))

Nicole Persaud  
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1350 Treat Blvd., Suite 250  
Walnut Creek, CA 94597 (Sent via E-mail to:  
[Nicole.Persaud@anteagroup.com](mailto:Nicole.Persaud@anteagroup.com))

Donna Drogos, ACEH (Sent via E-mail to: [donna.drogos@acgov.org](mailto:donna.drogos@acgov.org))  
Jerry Wickham, ACEH (Sent via E-mail to: [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org))

GeoTracker (w/enc)  
eFile (w/orig enc)

ALAMEDA COUNTY  
**HEALTH CARE SERVICES  
AGENCY**

ALEX BRISCOE, Director

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

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**REMEDIAL ACTION COMPLETION CERTIFICATION**

February 27, 2013

Mr. Peter Puckett  
Berkeley Farms  
P.O. Box 4616  
Hayward, CA 94540-4616

Ms. Karen Bellini  
Harmon Management Co.  
199 First Street, Suite 212  
Los Altos, CA 94022

Subject: Case Closure for Fuel Leak Case No. RO0002452 and GeoTracker Global ID T0600190380, Berkeley Farms Truck Repair Southern Site, 4501 San Pablo Avenue, Emeryville, CA 94608

Dear Responsible Parties:

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 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

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 (h) of Section 25299.37 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

  
Ariu Levi  
Director

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

**I. AGENCY INFORMATION**

Date: September 14, 2006

|  |                                       |
|--|---------------------------------------|
| Agency Name: Alameda County Environmental Health | Address: 1131 Harbor Bay Parkway      |
| City/State/Zip: Alameda, CA 94502-6577           | Phone: (510) 567-6791                 |
| Responsible Staff Person: Jerry Wickham          | Title: Hazardous Materials Specialist |

**II. CASE INFORMATION**

| Site Facility Name: Berkeley Farms Truck Repair Southern Site      |   |                         |
|--|---|-------------------------|
| Site Facility Address: 4501 San Pablo Avenue, Emeryville, CA 94608 |   |                         |
| RB Case No.: 01-3548   | Local Case No.:                                 | LOP Case No.: RO0002452 |
| URF Filing Date: 11/24/1997  | SWEEPS No.: ---                                 | APN: 049-1178-4         |
| Responsible Parties  | Addresses                                       | Phone Numbers           |
| Peter Puckett<br>Berkeley Farms                                    | P.O. Box 4616, Hayward, CA 94540-4616           | 510-265-8600            |
| Karen Bellini<br>Harmon Management Co.                             | 199 First Street, Suite 212, Los Altos CA 94022 |                         |
|  |   |                         |

| Tank I.D. No | Size in Gallons | Contents       | Closed In Place/Removed? | Date                                |
|--------------|-----------------|----------------|--------------------------|-------------------------------------|
| 1-3          | Unknown         | Petroleum Fuel | Reported Removed         | Reported removed approximately 1985 |
|              |                 |                |                          |                                     |
|              |                 |                |                          |                                     |
|              |                 |                |                          |                                     |
|              | Piping          |                | Reported Removed         | Unknown                             |

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

|  |  |                              |
|--|--|------------------------------|
| Cause and Type of Release: Unknown, reports on UST removal not submitted |  |                              |
| Site characterization complete? Yes                                      | Date Approved By Oversight Agency: ----- |                              |
| Monitoring wells installed? Yes  | Number: 1                                | Proper screened interval? -- |
| Highest GW Depth Below Ground Surface: 4 feet                            | Lowest Depth: 11 feet                    | Flow Direction: West         |
| Most Sensitive Current Use: Potential Drinking water source.             |  |                              |

Summary of Production Wells in Vicinity: Based on well survey information from adjacent site at 4343 San Pablo Avenue, no water supply wells are within ½ mile of the site.

|   |  |
|---|--|
| Are drinking water wells affected? No                       | Aquifer Name: East Bay Plain   |
| Is surface water affected? No                               | Nearest SW Name: San Francisco Bay 3,200 feet to west  |
| Off-Site Beneficial Use Impacts (Addresses/Locations): None |  |
| Reports on file? Yes  | Where are reports filed? Alameda County Environmental Health and City of Oakland Fire Department |

| TREATMENT AND DISPOSAL OF AFFECTED MATERIAL |                        |   |                             |
|---|------------------------|---|-----------------------------|
| Material                                    | Amount (Include Units) | Action (Treatment or Disposal w/Destination)                                | Date                        |
| Tank  | Three USTs             | Not reported  | Reported approximately 1985 |
| Piping                                      | Not reported           | Not reported  | Not reported                |
| Free Product                                | Not reported           | ---   | ---                         |
| Soil  | 1,102 tons             | Transported to Allied Waste Landfill in Manteca, CA for disposal            | 04/1998 to 12/1998          |
| Groundwater                                 | 15,000 gallons         | Transported to Seaport Environmental, Inc. in Redwood City, CA for disposal | 04/1998                     |

**MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP**  
 (Please see Attachments 1 through 6 for additional information on contaminant locations and concentrations)

| Contaminant       | Soil (ppm) |       | Water (ppb) |          |
|-------------------|------------|-------|-------------|----------|
|                   | Before     | After | Before      | After    |
| TPH (Gas)         | 5,300      | 980   | 38,000(1)   | 61(1)    |
| TPH (Diesel)      | 3,900      | 320   | 105,000(2)  | 85(2)    |
| Oil and Grease    | NA         | NA    | NA          | NA       |
| Benzene           | 33         | 13    | 2,300       | 980      |
| Toluene           | 200        | 30    | 3,000       | 9.5      |
| Ethylbenzene      | 110        | 18    | 3,600       | 640      |
| Xylenes           | 600        | 77    | 3,100       | 1,200    |
| Heavy Metals      | 140        | 13    | <5(3)       | <5(3)    |
| MTBE              | 21(4)      | 21(4) | 320(5)      | 320(5)   |
| Other (8240/8270) | NA         | NA    | <0.03(6)    | <0.03(6) |

- (1) The maximum concentration before cleanup of 38,000 ppb of TPHg was detected in groundwater from well MW1 during the August 21, 1998 sampling event immediately following overexcavation of the former tank pit. The maximum concentration of 61 ppb after cleanup is from the most recent groundwater sampling event on September 7, 2002.
- (2) The maximum concentration before cleanup of 105,000 ppb of TPHd was detected in groundwater from well MW1 during the June 2, 1998 sampling event, which occurred immediately after overexcavation but prior to backfilling of the former tank pit. The maximum concentration of 85 ppb after cleanup is from the most recent groundwater sampling event on September 7, 2002.
- (3) Total lead; cadmium, chromium, lead, nickel and zinc were not detected or within the range of ambient concentrations.
- (4) Maximum MTBE concentration in soil was detected using EPA Method 8020 and was not confirmed by EPA Method 8260. No other fuel oxygenates analyzed. 1,2-dichloroethane was <0.03 ppb.
- (5) Maximum MTBE concentration in soil was detected using EPA Method 8020 and was not confirmed by EPA Method 8260. No other fuel oxygenates analyzed; 1,2-dichloroethane was <0.03 ppb.
- (6) 1,2-dichloroethane; no other VOCs detected in groundwater.

#### Site History and Description of Corrective Actions:

The site is located at 4501 San Pablo Avenue in Emeryville and is currently the site of a Kentucky Fried Chicken restaurant. The site operated as a truck repair shop and yard for the Berkeley dairy facility until approximately 1998. The property directly north of this site, which has an address of 4575 San Pablo Avenue, was also part of the former Berkeley Farms truck repair shop, but the property was subdivided into a separate fuel leak case (RO245) in 2002 since the sources of contamination, site history, and ownership were different for the northern and southern portions of the property. A service station is reported to have operated at the site from approximately 1966 through 1979 after which the site was used as an auto repair facility until 1985. An AC Transit maintenance yard is west (downgradient) of the site (fuel leak case RO

The former service station was demolished in approximately 1985 and three former fuel underground storage tanks (USTs) were reportedly removed from the site. No tank closure report or analytical data are available from the tank removal. Three soil borings were advanced at the site in during an October 1997 soil and groundwater investigation to investigate the former fuel tanks and dispensers. Boring SB2 was located in the former fuel tank pit and boring SB3 was located adjacent to the former dispensers. A third boring, boring SB1, was located near the eastern edge of the former tank pit. Total petroleum hydrocarbons as gasoline (TPHg) were detected in soil from each of the borings at maximum concentrations of 140 ppm (SB1), 25 ppm (SB2), and 210 ppm (SB3). TPHg were detected in grab groundwater samples from the three borings at concentrations of 5,300 ppb (SB1), 48,000 ppb (SB2), and 9,900 ppb (SB3).

On February 20, 1998 one monitoring well was installed at the site. An additional two monitoring wells were installed on the property to the north (fuel leak case RO245). Quarterly monitoring was conducted at the sites from February 1998 to September 2002.

Due to the elevated concentrations of fuel hydrocarbons detected in the borings and monitoring wells, the former fuel tank pit was re-excavated between April 30, 1998 and June 1, 1998. Based on the observations of piping and debris in the tank pit, it appeared that some or all of the tankpit backfill material had been replaced in the tank pit following tank removal. Three phases of overexcavation and confirmation sampling were conducted to remove petroleum-hydrocarbon impacted soil. A total of approximately 400 cubic yards of soil and 15,000 gallons of water were removed. Confirmation samples collected from the sidewalls and bottom of the excavation contained relatively low concentrations of TPH as diesel (60 ppm) and no detectable concentrations of TPH as gasoline and BTEX.

In order to delineate the downgradient plume, soil and groundwater samples were collected from three soil borings (B-4 through B-6) that were advanced downgradient of the former tank pit on the AC Transit site to the west. One soil sample and one grab groundwater sample was collected from each boring. TPH as gasoline, TPH as motor oil, BTEX, and MTBE were not detected in the soil and groundwater samples from all borings. TPH as diesel was detected in groundwater from boring B-5 at a concentration of 66 ppb but was not detected in soil or groundwater from the other borings. These data indicated the extent of the hydrocarbon plume from the site was generally limited to the site.

During construction of the foundation for the Kentucky Fried Chicken restaurant in December 1998, additional hydrocarbon-impacted soils were encountered in the area of a pump island and product piping. An area beneath the building footprint approximately 45 feet wide by 90 feet long was excavated to a depth of approximately 3.75 feet. A total of 703 tons of soil was excavated and disposed offsite at the Allied Waste Landfill in Manteca.

Based on the results of a risk assessment (Waterstone Environmental 1999), a vapor barrier consisting of a 20 mil thick layer of Paraseal GM liner material was laid down at approximately 42 inches below grade over the excavated area. This area included the building footprint and additional areas north of the building. The vapor barrier overlaps were sealed and layers of 10 mil visqueen were laid over the Paraseal. Vapor collection piping was reportedly installed along the inside of the foundation walls and then routed inside the wall and outside to the rooftop.

Well MW1, which was damaged during construction, was decommissioned and replacement well MW-1A was installed on July 30, 1999. On September 7, 2002, five soil vapor samples were collected above the vapor barrier (approximately two feet below grade) at various points on the perimeter of the restaurant building. TPHg and BTEX were not detected in the five vapor samples. Well MW1 and replacement well MW1A were sampled quarterly from February 1998 to December 2001 in conjunction with sampling the two monitoring wells on the parcel to the north. Fuel hydrocarbon concentrations in groundwater have generally attenuated following the overexcavation of the tank pit and soil removal in the area of the fast food restaurant. During the last groundwater monitoring event conducted at the site, TPHg was detected at 61 ppb, TPHd was detected at 85 ppb, and benzene was detected at 0.72 ppb.

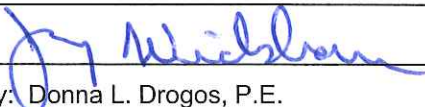
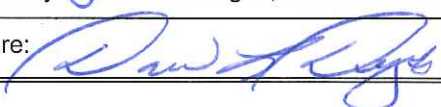
**IV. CLOSURE**

|  |                          |                    |
|--|--------------------------|--------------------|
| Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? <input checked="" type="radio"/> Yes <input type="radio"/> No   |                          |                    |
| Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? <input checked="" type="radio"/> Yes <input type="radio"/> No  |                          |                    |
| Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.   |                          |                    |
| Site Management Requirements: Case closure for the fuel leak site is granted for commercial land use only. If a change in land use to residential or other conservative scenario occurs at this property, Alameda County Environmental Health must be notified and the case needs to be re-evaluated. These site management requirements are to be entered into the City of Emeryville's OSIRIS (One Stop Interactive Resource Information System) Map Server due to the residual contamination posing a nuisance for subsurface utility work. |                          |                    |
| Should corrective action be reviewed if land use changes? Yes  |                          |                    |
| Was a deed restriction or deed notification filed? No  |                          | Date Recorded: --  |
| Monitoring Wells Decommissioned: No  | Number Decommissioned: 0 | Number Retained: 1 |
| List Enforcement Actions Taken: None   |                          |                    |
| List Enforcement Actions Rescinded: --   |                          |                    |

**V. ADDITIONAL COMMENTS, DATA, ETC.**

|   |
|---|
| <p>Considerations and/or Variances:</p> <p>Tank removal activities for the former fuel USTs were not documented. Soils in the area of the former tank pit were re-excavated and disposed off-site between April 30, 1998 and June 1, 1998. In addition, approximately 702 tons of soil were excavated and removed from the footprint of a fast food restaurant constructed on the site. MTBE was detected in the on-site well at a maximum concentration of 320 ppb in groundwater. However, the MTBE detection resulted from EPA Method 8020 analysis and was not confirmed by EPA Method 8260. If MTBE is present, it is likely from an off-site upgradient source.</p> <p>Conclusion:</p> <p>Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment under the current land use based upon the information available in our files to date. No further investigation or cleanup is necessary. ACEH staff recommend case closure for this site.</p> |
|---|

**VI. LOCAL AGENCY REPRESENTATIVE DATA**

|  |   |
|--|---|
| Prepared by: Jerry Wickham   | Title: Hazardous Materials Specialist             |
| Signature:  | Date: 05/10/06                                    |
| Approved by: Donna L. Drogos, P.E.   | Title: Supervising Hazardous Materials Specialist |
| Signature:  | Date: 05/10/06                                    |

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.



**VII. REGIONAL BOARD NOTIFICATION**

|  |                              |
|--|------------------------------|
| Regional Board Staff Name: Cherie McCaulou   | Title: Engineering Geologist |
| RB Response: Concur, based solely upon information contained in this case closure summary. | Date Submitted to RB:        |
| Signature: <i>Cherie McCaulou</i>  | Date: 9/8/06                 |

**VIII. MONITORING WELL DECOMMISSIONING**

|  |   |                    |
|--|---|--------------------|
| Date Requested by ACEH: 09/14/06   | Date of Well Decommissioning Report: 02/05/13 |                    |
| All Monitoring Wells Decommissioned: <input checked="" type="radio"/> Yes <input type="radio"/> No | Number Decommissioned: 1                      | Number Retained: 0 |
| Reason Wells Retained: NA  |   |                    |
| Additional requirements for submittal of groundwater data from retained wells: NA                  |   |                    |
| ACEH Concurrence - Signature: <i>Jerry Wiseman</i>   | Date: 02/27/13                                |                    |

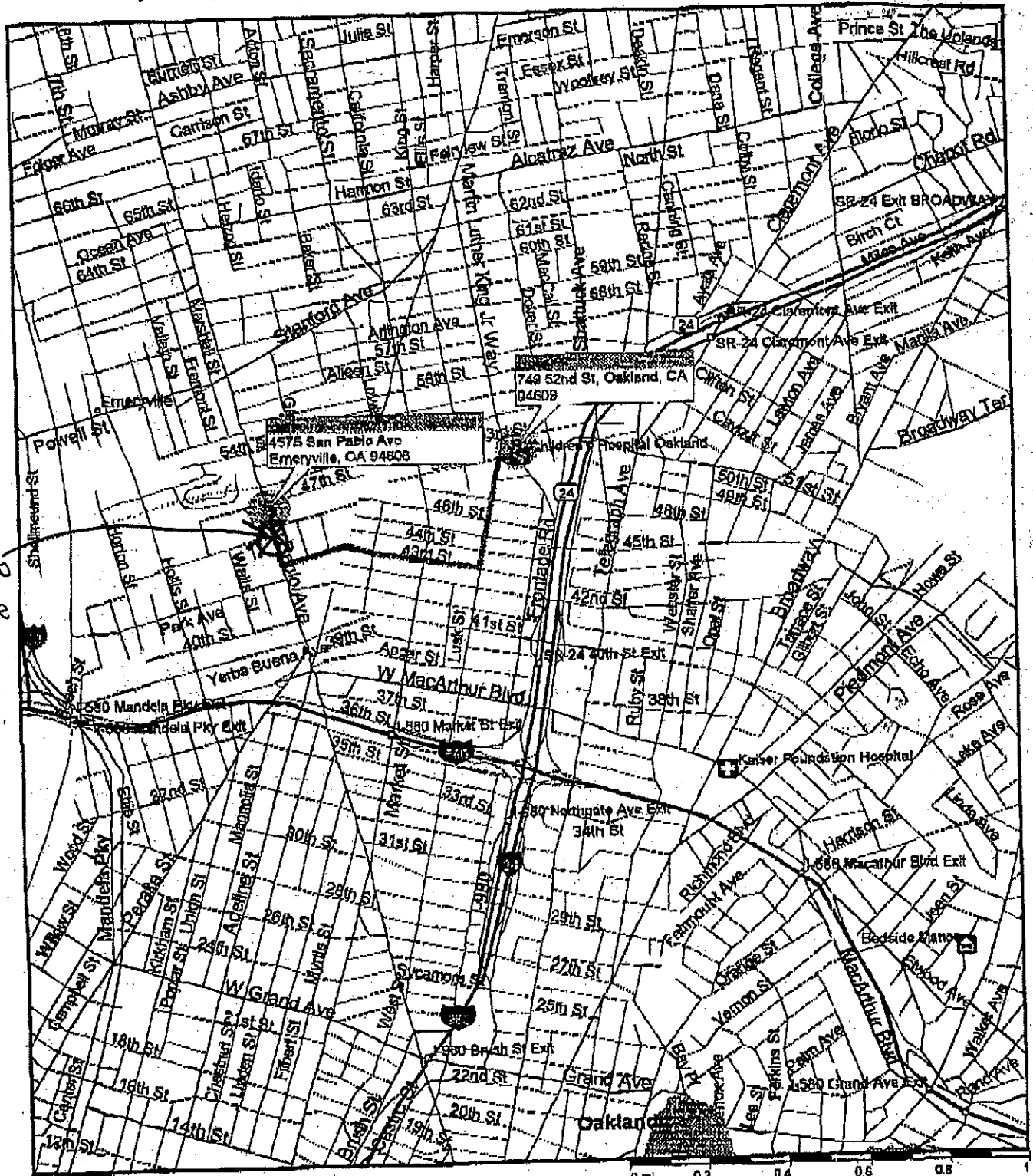
**Attachments:**

1. Site Vicinity Map
2. Potentiometric Surface Map -- September 8, 1999
3. Site Plan -- January 23, 1998; Site Plan -- June 3, 1998; Sampling Locations Map; Locations of Sampling and Soil Excavation Areas; Site Plan Showing Soil Vapor Sample Points; Petroleum Hydrocarbons in Groundwater -- October 30, 1998; Petroleum Hydrocarbons in Groundwater -- September 9, 1999,
4. Soil and Soil Vapor Analytical Data
5. Groundwater Analytical Data
6. Boring Logs

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.

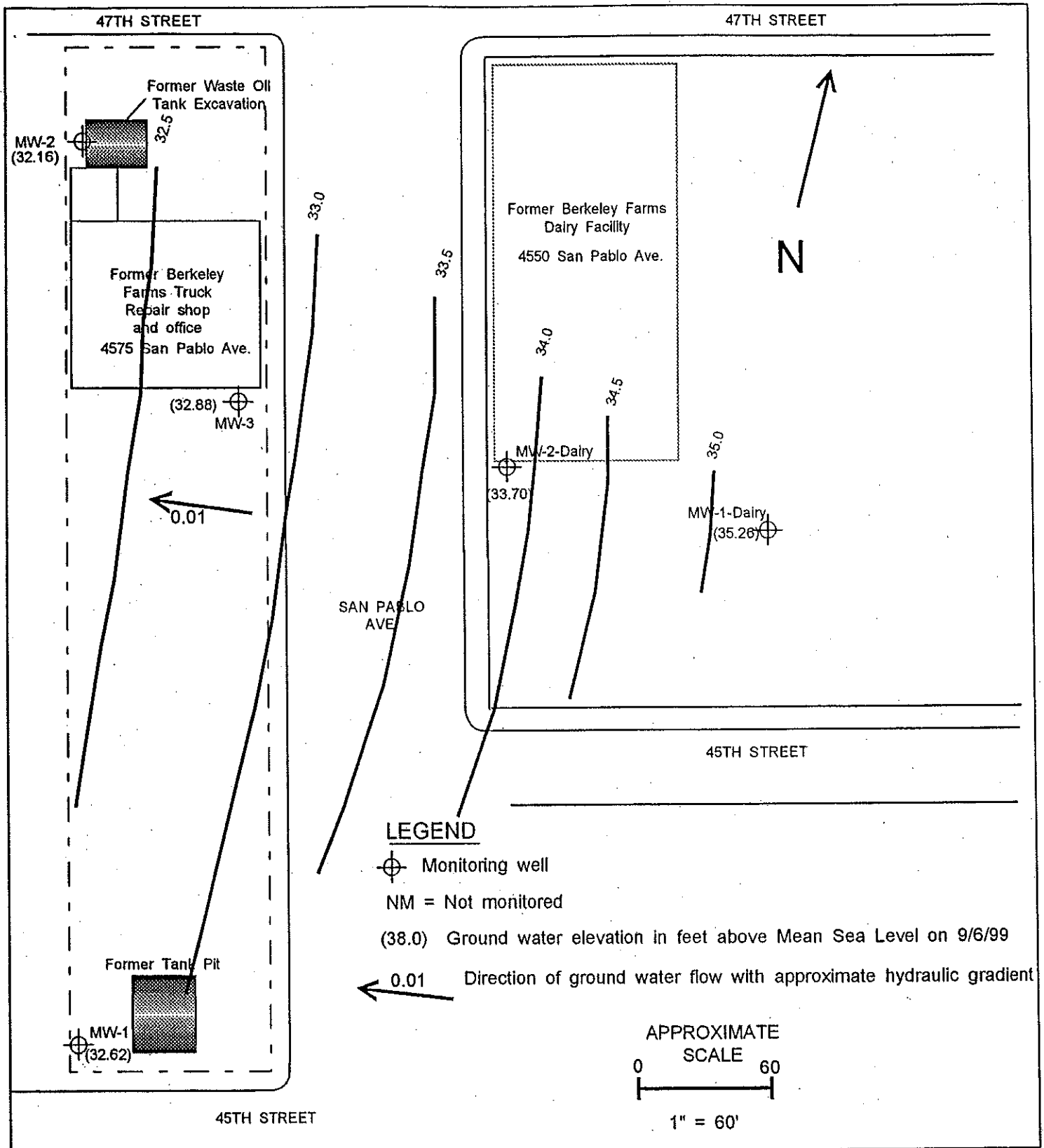
# Site Location and Hospital Route Map

Berkeley Farms Truck Repair Shop & Yard, 4575 San Pablo Avenue, Emeryville, CA



**Streets98**

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Former Berkeley Farms Facility  
4575 San Pablo Avenue  
Emeryville, California

Figure No:

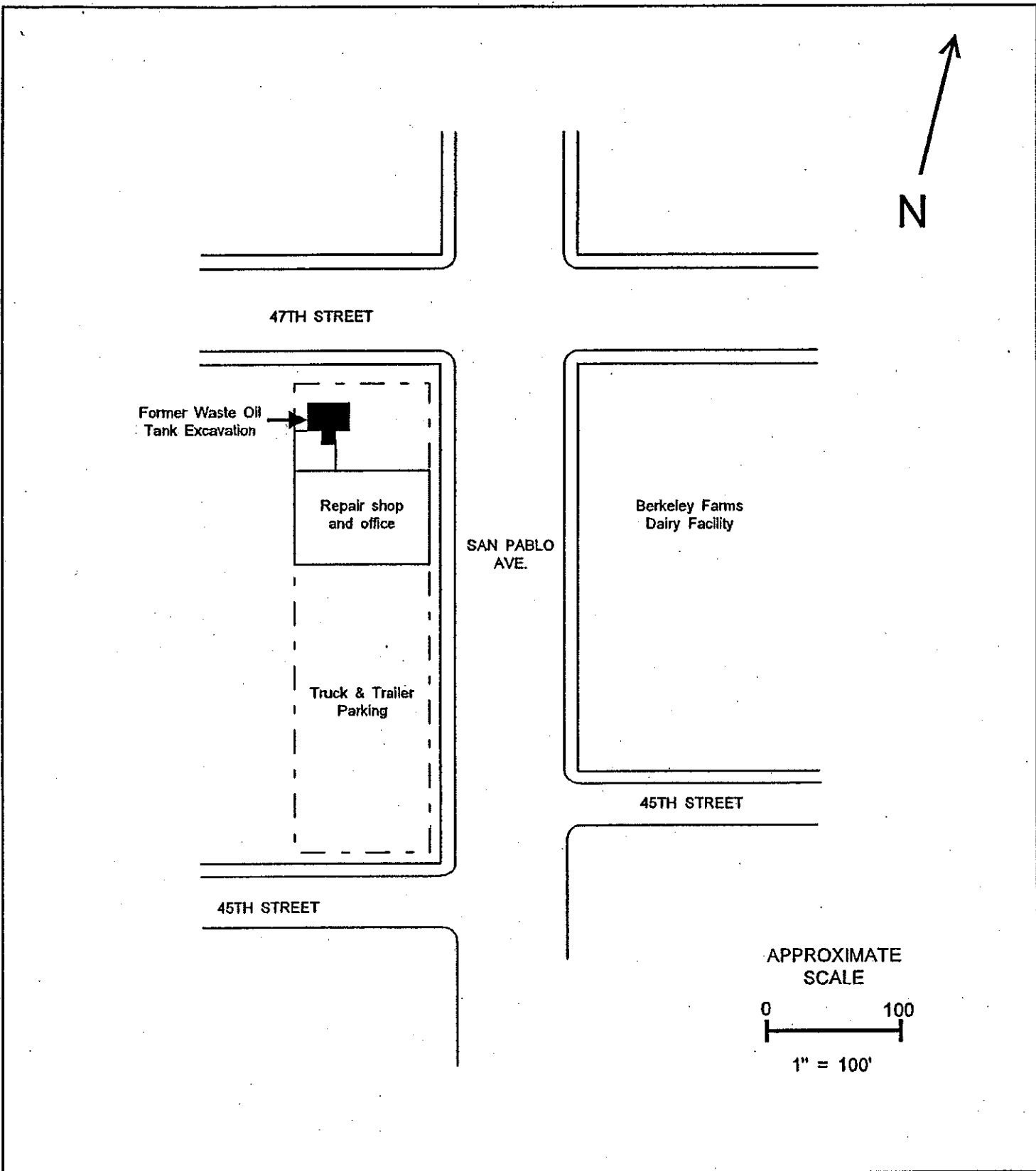
1

Date: September 8, 1999

Drawn By: JG/Geo-Logic

# Potentiometric Surface Map

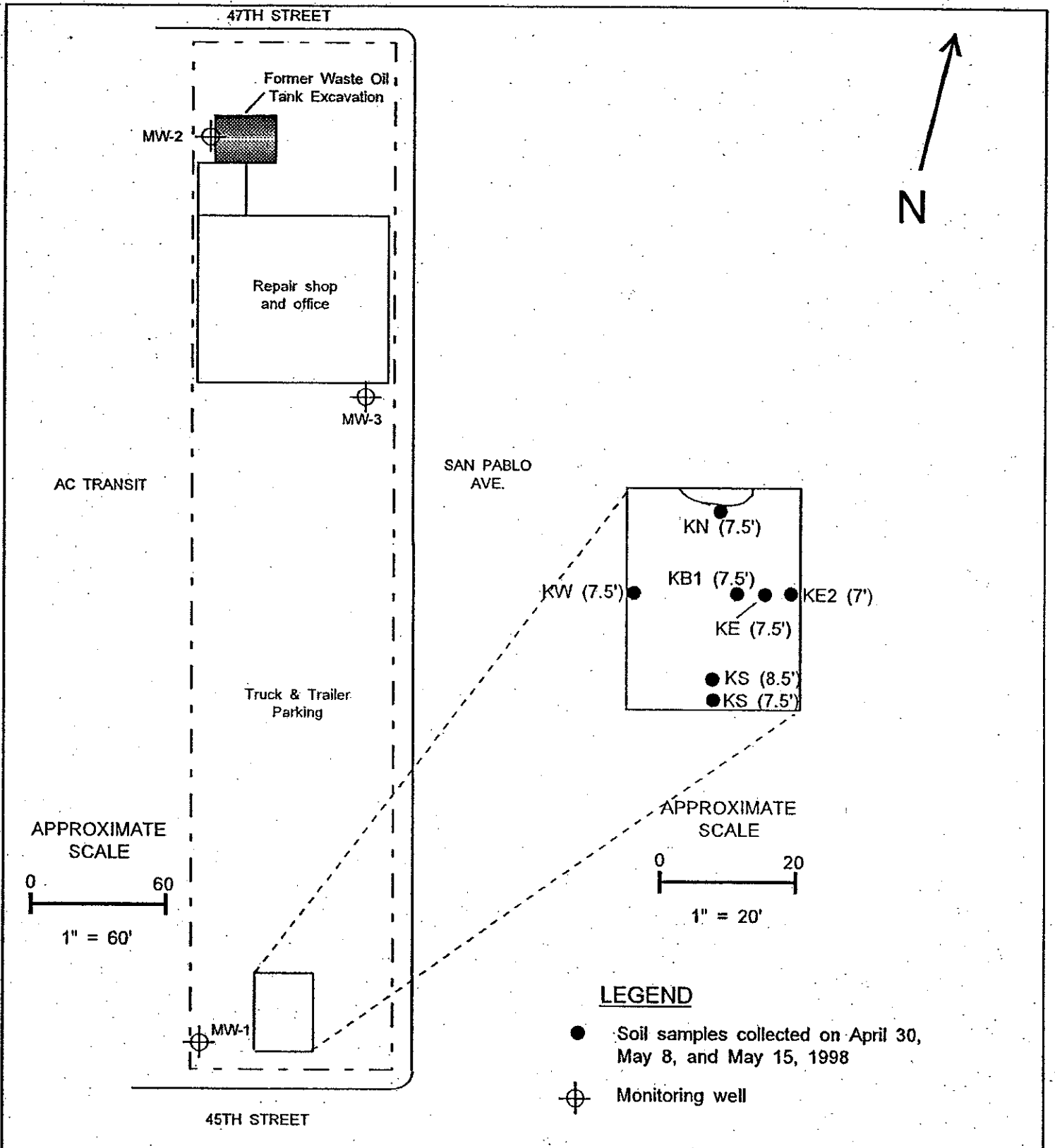
ATTACHMENT 2



|  |                        |                        |
|--|------------------------|------------------------|
| Berkeley Farms Truck Repair Shop & Yard<br>4575 San Pablo Avenue<br>Emeryville, California | Figure No:<br><b>1</b> | Date: January 23, 1998 |
|  |                        | Drawn By: JG/Geo-Logic |

# SITE PLAN

ATTACHMENT 3

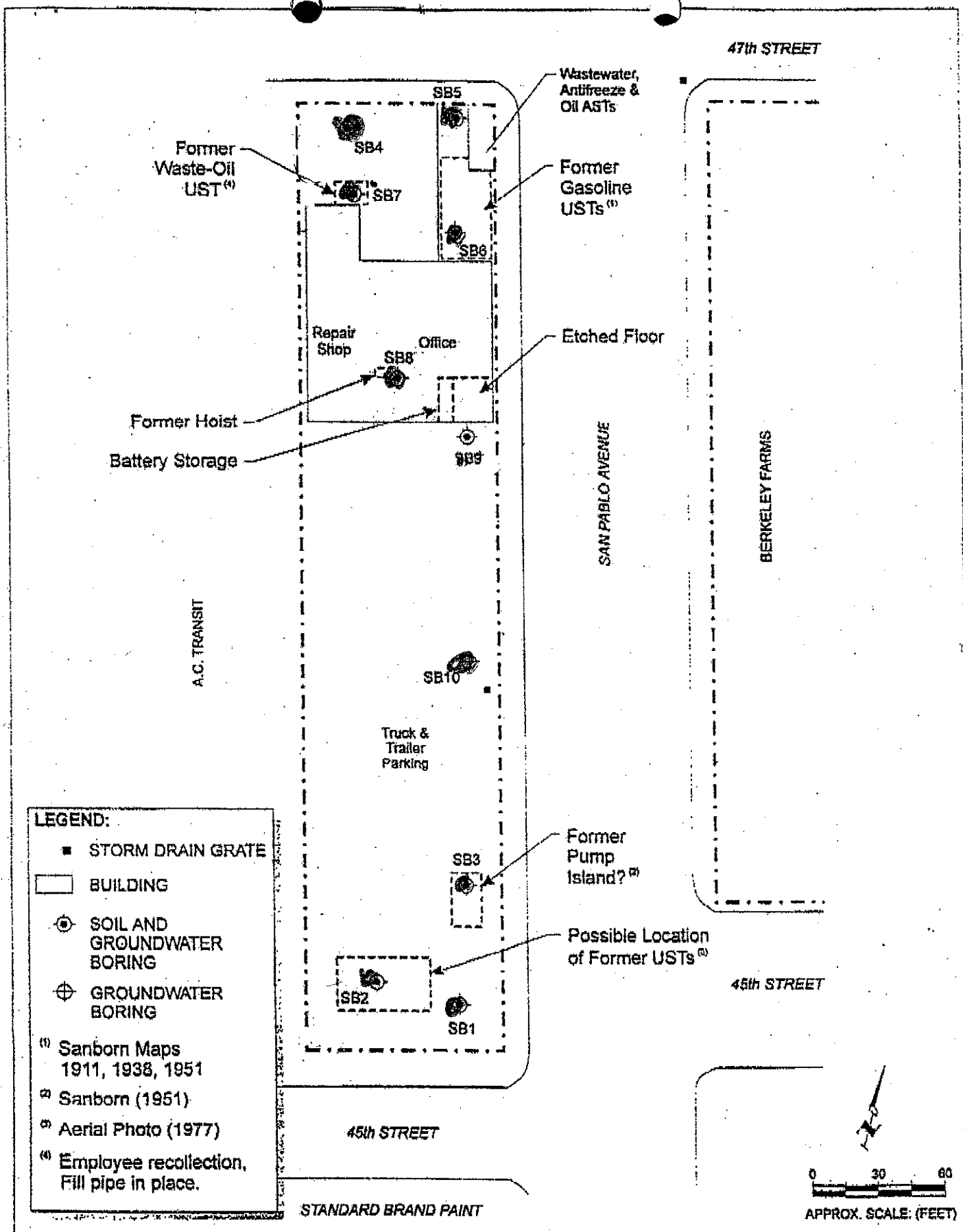


**LEGEND**

- Soil samples collected on April 30, May 8, and May 15, 1998
- ⊕ Monitoring well

|  |                        |                        |
|--|------------------------|------------------------|
| Berkeley Farms Truck Repair Shop & Yard<br>4575 San Pablo Avenue<br>Emeryville, California | Figure No:<br><b>1</b> | Date: June 3, 1998     |
|  |                        | Drawn By: JG/GEO-LOGIC |

**Site Plan**



**LEGEND:**

- STORM DRAIN GRATE
- BUILDING
- ⊙ SOIL AND GROUNDWATER BORING
- ⊕ GROUNDWATER BORING

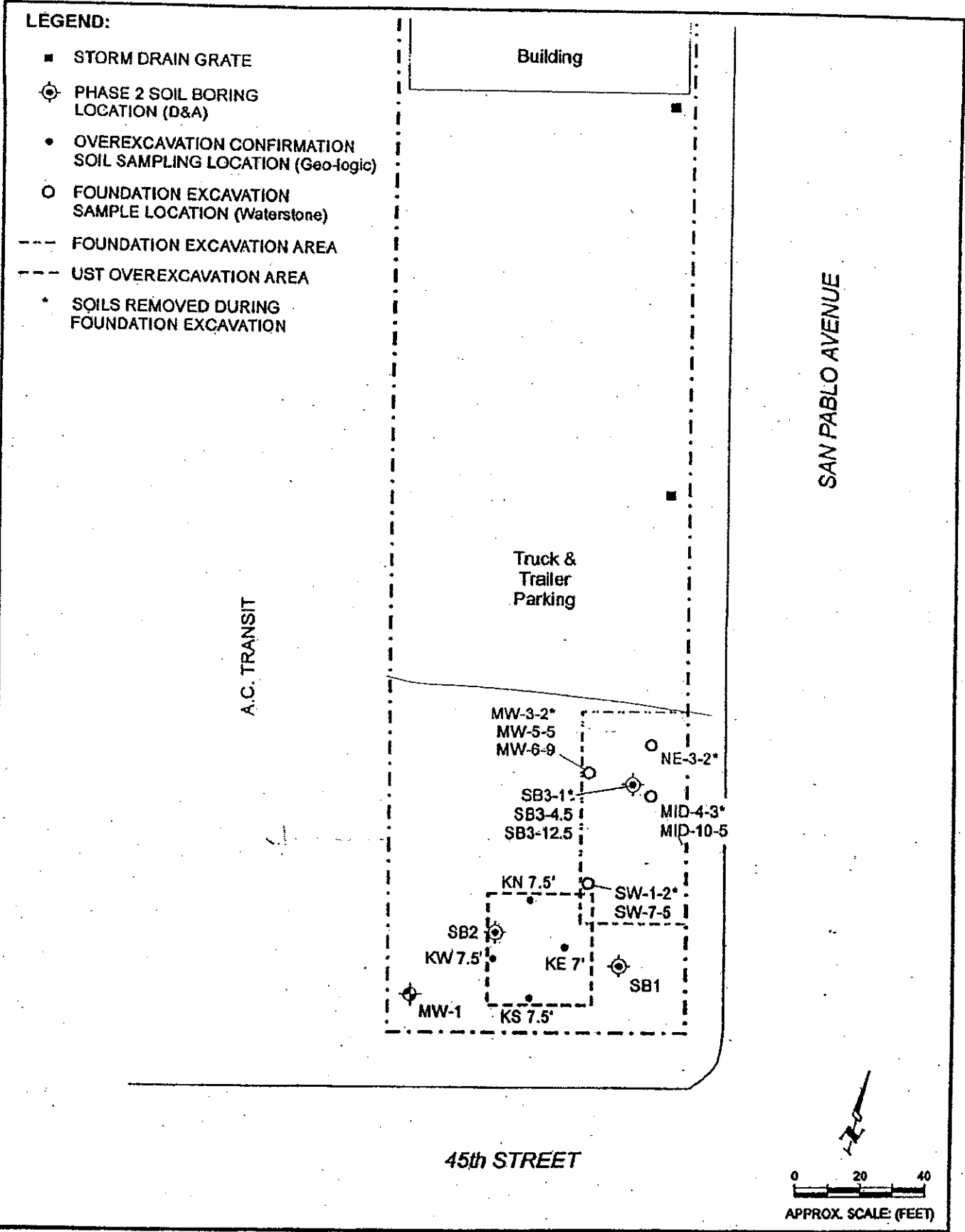
(1) Sanborn Maps 1911, 1938, 1951  
 (2) Sanborn (1951)  
 (3) Aerial Photo (1977)  
 (4) Employee recollection, Fill pipe in place.


**DAVENPORT & ASSOCIATES**  
 2712 Rawson Street  
 Oakland, CA 94619

**FIGURE 3**  
**SAMPLING LOCATIONS**  
 BERKELEY FARMS TRUCK  
 PARKING AND REPAIR FACILITY

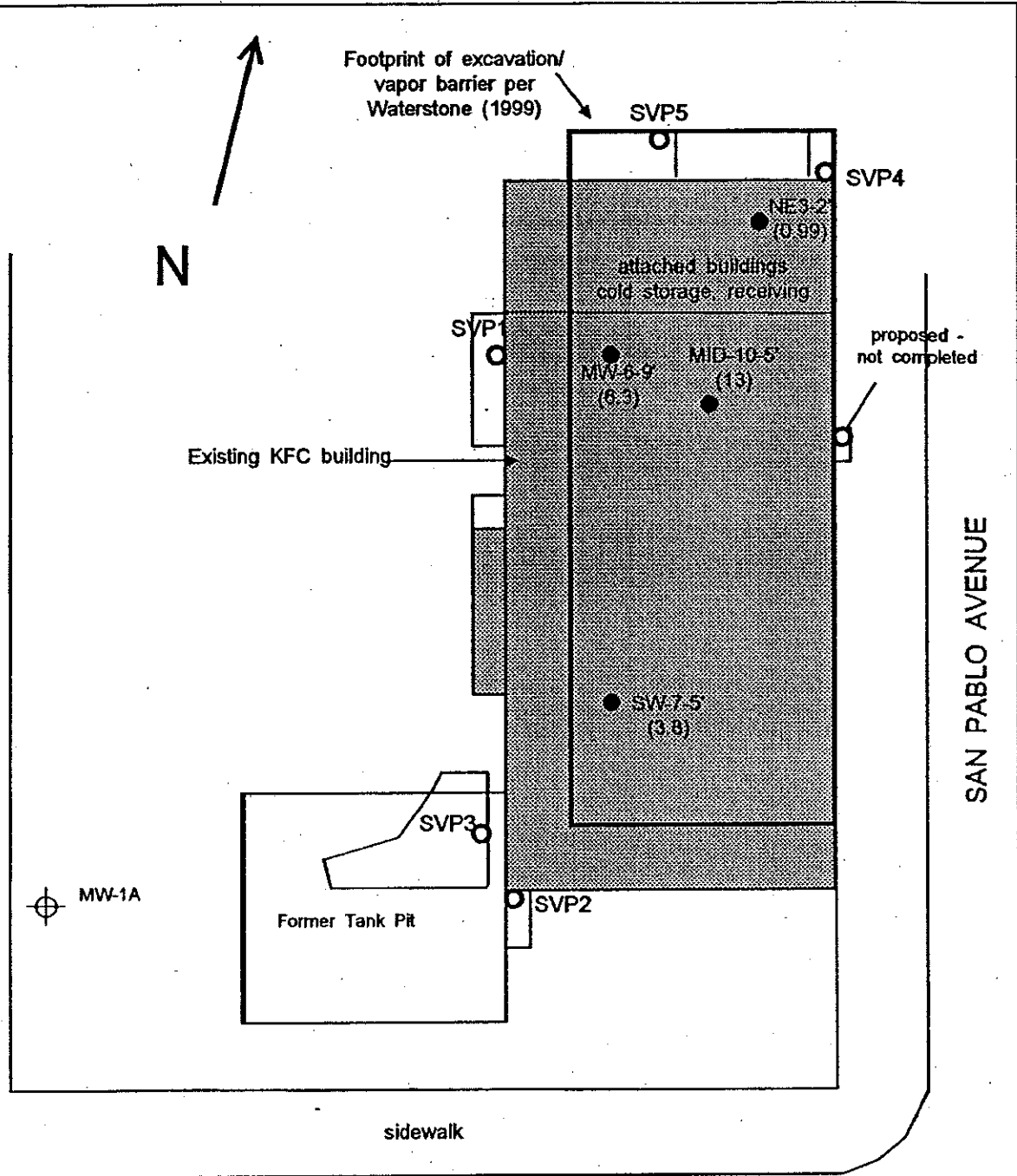
**LEGEND:**

- STORM DRAIN GRATE
- ⊕ PHASE 2 SOIL BORING LOCATION (D&A)
- OVEREXCAVATION CONFIRMATION SOIL SAMPLING LOCATION (Geo-logic)
- FOUNDATION EXCAVATION SAMPLE LOCATION (Waterstone)
- FOUNDATION EXCAVATION AREA
- UST OVEREXCAVATION AREA
- \* SOILS REMOVED DURING FOUNDATION EXCAVATION




**Waterstone Environmental, LLC**  
 2712 Rawson Street  
 Oakland, CA 94619  
 (510) 533-6710

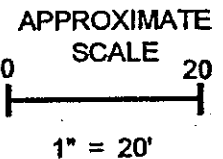
**FIGURE 1**  
**LOCATIONS OF SAMPLING AND**  
**SOIL EXCAVATION AREAS**  
 FORMER BERKELEY FARMS TRUCK  
 PARKING AND REPAIR FACILITY  
 EMERYVILLE, CALIFORNIA



**LEGEND**

- ⊕ Monitoring well
- Sample No. - depth (benzene in ppm)
- Soil vapor sample

45TH STREET



Former Berkeley Farms Truck Shop & Yard  
4575 San Pablo Avenue  
Emeryville, California

Figure No:

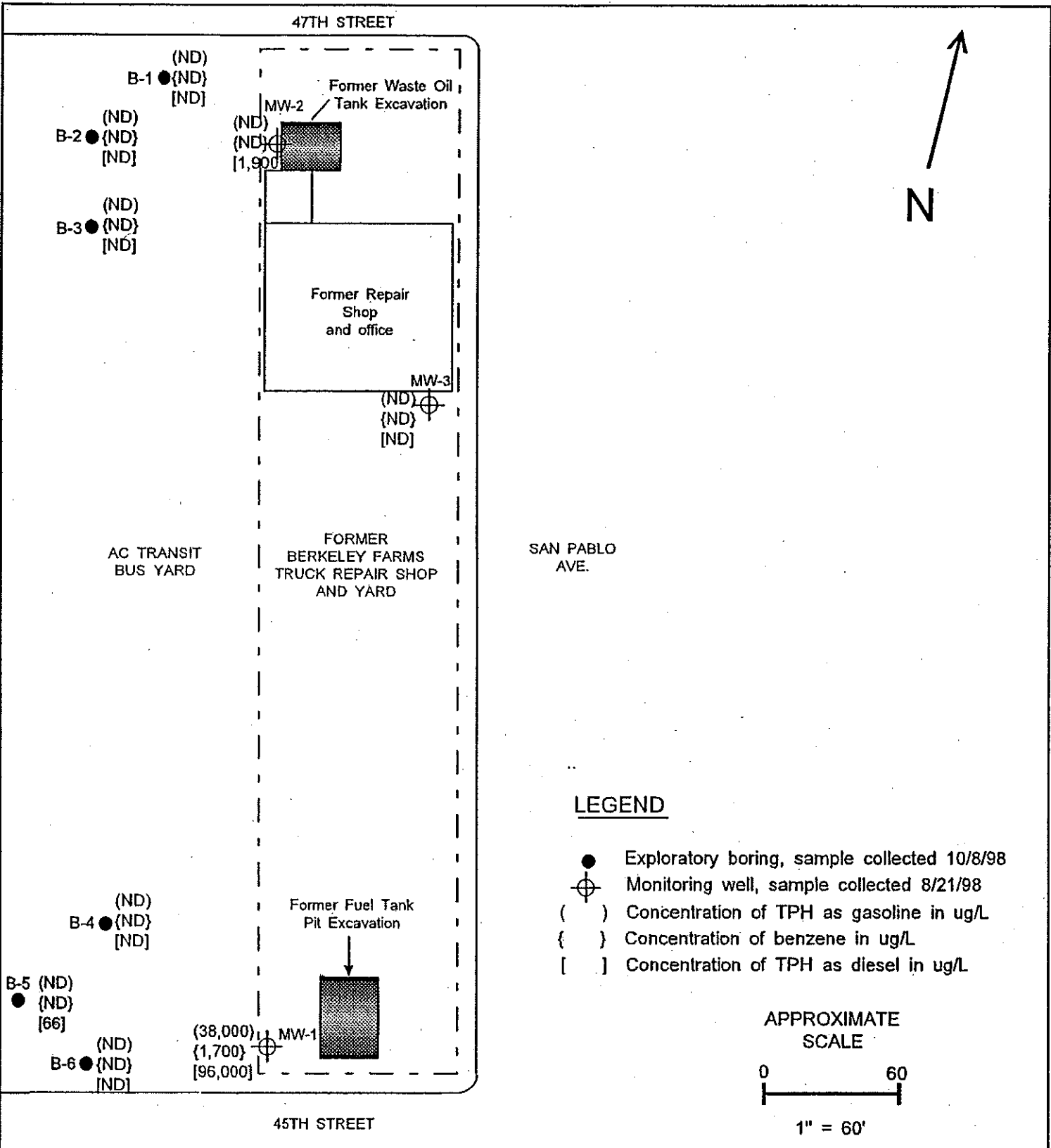
1

Date: September 9, 2002

Drawn By: JG/Geo-Logic

**Site Plan showing Soil Vapor Sample Points**





Former Berkeley Farms  
Truck Repair Shop & Yard  
4575 San Pablo Avenue  
Emeryville, California

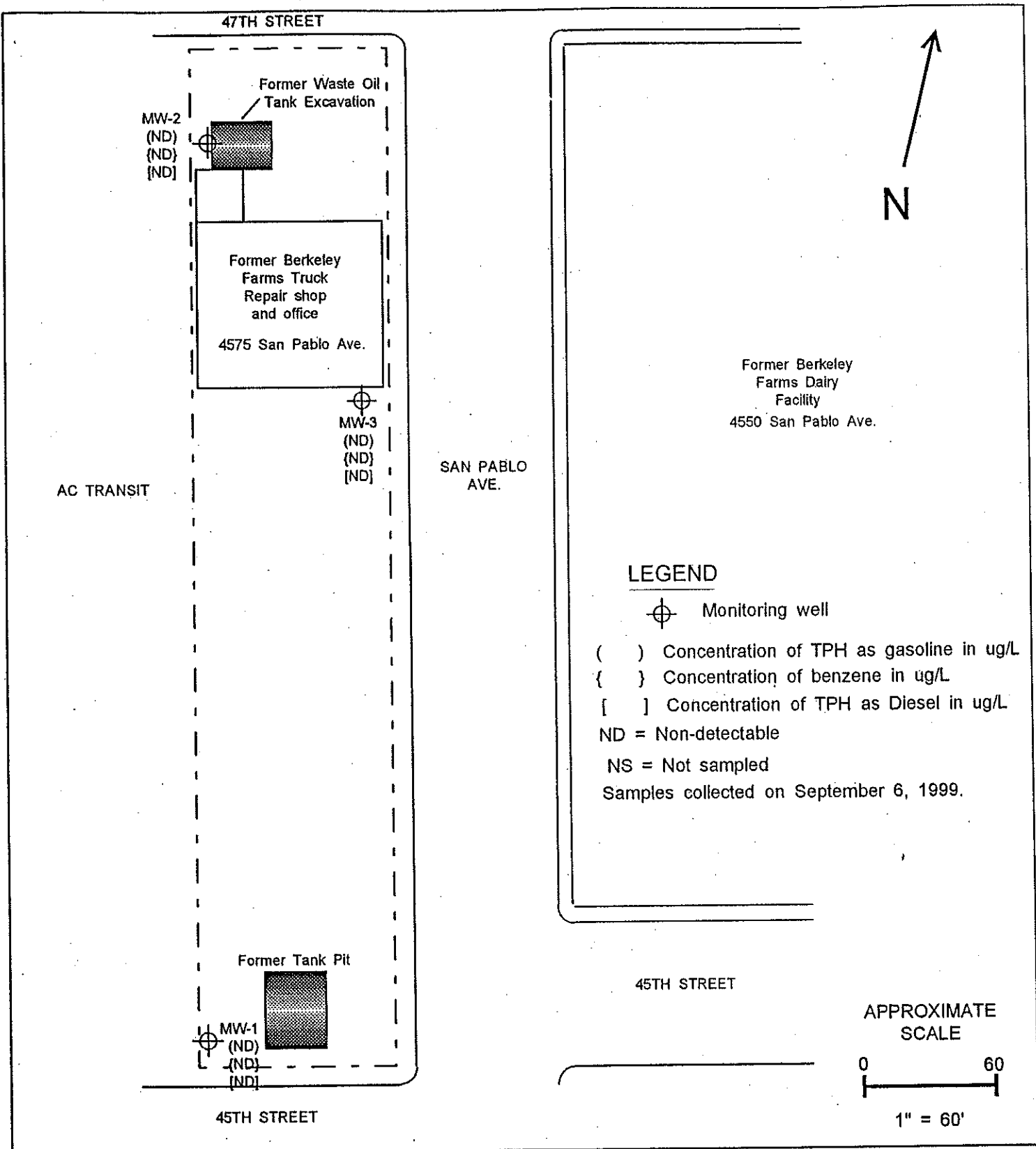
Figure No:  
**2**

Date: October 30, 1998

Drawn By: JG/GEO-LOGIC

# Petroleum Hydrocarbons in Groundwater

*GEO-LOGIC Report dated 10-30-98*



Fmr. Berkeley Farms Truck Shop & Yard  
 4575 San Pablo Avenue  
 Emeryville, California

Figure No:  
**2**

Date: September 9, 1999  
 Drawn By: JG/Geo-Logic

# Petroleum Hydrocarbons in Groundwater

GEO-LOGIC  
GL-97-110.R4  
June 9, 1998

TABLE 1  
SUMMARY OF LABORATORY ANALYSES  
SOIL

| <u>Sample/depth</u>              | <u>TPH as Diesel</u> | <u>TPH as Gasoline</u> | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl-benzene</u> | <u>Xylenes</u> |
|----------------------------------|----------------------|------------------------|----------------|----------------|----------------------|----------------|
| (Collected on April 30, 1998)    |                      |                        |                |                |                      |                |
| KS (8.5')                        | NA                   | <0.1                   | 5.0            | 4.1            | 5.8                  | 90             |
| (Collected on May 8, 1998)       |                      |                        |                |                |                      |                |
| KN (7.5')                        | <0.1                 | <0.1                   | <0.005         | <0.005         | <0.005               | <0.005         |
| KS (7.5')                        | <0.1                 | <0.1                   | <0.005         | <0.005         | <0.005               | <0.005         |
| KE (7.5')                        | <0.1                 | <0.1                   | <0.005         | <0.005         | <0.005               | <0.005         |
| KW (7.5')                        | <0.1                 | <0.1                   | <0.005         | <0.005         | <0.005               | <0.005         |
| KB1 (7.5')                       | 3,900                | <0.1                   | <0.005         | 30             | <0.005               | <0.005         |
| (Collected on May 15, 1998)      |                      |                        |                |                |                      |                |
| KE2 (7.0')                       | 60                   | <0.1                   | <0.005         | <0.005         | <0.005               | <0.005         |
| Method Blank/<br>Detection Limit | <0.1                 | <0.1                   | <0.005         | <0.005         | <0.005               | <0.005         |

Results are in milligrams per kilogram (mg/kg).

*Geo-Logic report dated 6-9-98*

GEO-LOGIC  
 GL-97-110.R3  
 March 7, 1998

TABLE 3

SUMMARY OF LABORATORY ANALYSES  
 SOIL

| <u>Date</u>     | <u>Sample No./Depth</u> | <u>TPH as Diesel</u> | <u>TPH as Gasoline</u> | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl-benzene</u> | <u>Xylenes</u> |
|-----------------|-------------------------|----------------------|------------------------|----------------|----------------|----------------------|----------------|
| 2/20/98         | MW1 (4.5')              | <0.1                 | 160                    | <0.005         | <0.005         | <0.005               | 6.3            |
|                 | MW1 (7.5')              | <0.1                 | 2,800                  | 8.0            | 9.0            | 37                   | 220            |
|                 | MW2 (4.5')              | <0.1                 | --                     | --             | --             | --                   | --             |
|                 | MW2 (7.5')              | <0.1                 | --                     | --             | --             | --                   | --             |
|                 | MW3 (6.0')              | --                   | 20                     | <0.005         | <0.005         | <0.005               | <0.005         |
|                 | MW3 (8.0')              | --                   | 11                     | <0.005         | <0.005         | <0.005               | <0.005         |
| Detection Limit |                         | 0.1                  | 0.1                    | 0.005          | 0.005          | 0.005                | 0.005          |

| <u>Date</u>     | <u>Sample No./Depth</u> | <u>TRPH</u> | <u>MTBE</u> |
|-----------------|-------------------------|-------------|-------------|
| 2/20/98         | MW1 (4.5')              | --          | <0.005      |
|                 | MW1 (7.5')              | --          | <0.005      |
|                 | MW2 (4.5')              | 26          | --          |
|                 | MW2 (7.5')              | 17          | --          |
|                 | MW3 (6.0')              | --          | <0.005      |
|                 | MW3 (8.0')              | --          | <0.005      |
| Detection Limit |                         | 5.0         | 0.005       |

-- analyses not performed.

Results are in milligrams per kilogram (mg/kg), unless otherwise indicated.

*Geologic Report dated 3-7-98*

Geo-Logic  
GL-97-110.R6  
October 30, 1998

TABLE 1

SUMMARY OF LABORATORY ANALYSES  
SOIL

(Samples collected on October 8, 1998)

| <u>Sample No./Depth</u>     | <u>TPH as Diesel</u> | <u>TPH Gas</u> | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl-benzene</u> | <u>Xylenes</u> | <u>MTBE</u> | <u>TPH as Motor Oil</u> |
|-----------------------------|----------------------|----------------|----------------|----------------|----------------------|----------------|-------------|-------------------------|
| B1 (5.5')                   | <0.1                 | <0.1           | <0.005         | <0.005         | <0.005               | <0.005         | <0.1        | <0.1                    |
| B2 (9')                     | <0.1                 | <0.1           | <0.005         | <0.005         | <0.005               | <0.005         | <0.1        | <0.1                    |
| B3 (10.5')                  | <0.1                 | <0.1           | <0.005         | <0.005         | <0.005               | <0.005         | <0.1        | <0.1                    |
| B4 (10.5')                  | <0.1                 | <0.1           | <0.005         | <0.005         | <0.005               | <0.005         | <0.1        | --                      |
| B5 (5.5')                   | <0.1                 | <0.1           | <0.005         | <0.005         | <0.005               | <0.005         | <0.1        | --                      |
| B5 (10.5')                  | <0.1                 | <0.1           | <0.005         | <0.005         | <0.005               | <0.005         | <0.1        | --                      |
| B6 (10.5')                  | <0.1                 | <0.1           | <0.005         | <0.005         | <0.005               | <0.005         | <0.1        | --                      |
| Det. Limit/<br>Method Blank | <0.1                 | <0.1           | <0.005         | <0.005         | <0.005               | <0.005         | <0.1        | <0.1                    |

-- analyses not performed.

Results are in milligrams per kilogram (mg/kg), unless otherwise indicated.

*GeoLogic Report dated  
10-30-98*

TABLE 3

## SUMMARY OF LABORATORY ANALYSES - SOIL

(Collected on July 30, 1999)

| <u>Sample No./Depth</u> | <u>TPH as Diesel</u> | <u>TPH as Gasoline</u> | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl-benzene</u> | <u>Xylenes</u> | <u>MTBE</u> |
|-------------------------|----------------------|------------------------|----------------|----------------|----------------------|----------------|-------------|
| MW1A (4.5')             | 53                   | 2.7                    | 0.019          | <0.005         | 0.046                | 0.041          | <0.005      |
| MW1A (9.5')             | 570                  | 35                     | 0.23           | 0.14           | 0.29                 | 0.38           | <0.005      |
| Comp S1*                | 2.7                  | 160                    | 0.020          | <0.005         | 0.039                | 0.027          | <0.005      |
| Det. Limit              | 0.10                 | 0.10                   | 0.005          | 0.005          | 0.005                | 0.005          | <0.005      |

\* Total Lead was detected at a concentration of 33 ppm.

Results are in parts per million (ppm).

**TABLE 1: SOIL SAMPLE RESULTS - SITE INVESTIGATION**  
 Berkeley Farms Truck Maintenance Facility  
 4575 San Pablo Avenue  
 Emeryville, California

| Sample Location | Sample Depth (Feet) | TPH-g mg/Kg | TPH-d mg/Kg | TPH-mo mg/Kg | VOC mg/Kg   | Antifreeze mg/Kg | Metals mg/Kg  |
|-----------------|---------------------|-------------|-------------|--------------|-------------|------------------|---------------|
| SB1             | 2.5                 | 5.1         | ND          | 10.0         | -           | -                | -             |
|                 | 7.5                 | 140         | -           | -            | -           | -                | -             |
|                 | 13.5                | 0.2         | -           | -            | -           | -                | -             |
| SB2             | 2.5                 | ND          | -           | -            | -           | -                | -             |
|                 | 6.0                 | 0.6         | -           | -            | -           | -                | -             |
|                 | 13.0                | 25.0        | -           | -            | -           | -                | -             |
| SB3             | 1.0                 | 11.0        | -           | -            | -           | -                | -             |
|                 | 4.5                 | 17          | -           | -            | -           | -                | -             |
|                 | 12.5                | 210         | -           | -            | -           | -                | -             |
| SB4             | 1.5                 | ND          | ND          | 8.0          | ND          | ND               | -             |
|                 | 8.0                 | ND          | ND          | ND           | ND          | ND               | -             |
|                 | 12.5                | ND          | ND          | ND           | ND          | ND               | -             |
| SB5             | 4.0                 | ND          | ND          | 34.0         | ND          | ND               | -             |
|                 | 8.5                 | ND          | ND          | 24.0         | ND          | ND               | -             |
|                 | 14.0                | 1.2         | 5.0         | ND           | ND          | ND               | -             |
| SB6             | 2.0                 | ND          | 5.0         | 8            | -           | ND               | -             |
|                 | 7.0                 | ND          | ND          | ND           | -           | ND               | -             |
|                 | 13.0                | ND          | ND          | ND           | -           | ND               | -             |
| SB7             | 4.0                 | 110         | 8,200       | 25,800       | ND          | -                | -             |
|                 | 7.0                 | 340         | 1,600       | 9,400        | 11(1,2-DCB) | -                | -             |
|                 | 11.0                | 13          | 690         | 2,400        | ND          | -                | -             |
| SB8             | 2.0                 | -           | 1300.0      | 2000.0       | -           | -                | -             |
|                 | 10.5                | -           | ND          | 85.0         | -           | -                | -             |
|                 | 15.0                | -           | ND          | ND           | -           | -                | -             |
| SB9             | 1.0                 | -           | -           | -            | -           | -                | *As 5/ Be 0.8 |
|                 | 5.0                 | -           | -           | -            | -           | -                | *As 5/ Be 0.4 |

WS →  
tank

**NOTES:**

- TPH-g Total Petroleum Hydrocarbons as gasoline mg/Kg micrograms per kilogram (ppm)
- TPH-d Total Petroleum Hydrocarbons as diesel
- TPH-mo Total Petroleum Hydrocarbons as motor oil
- VOC Volatile Organic Compounds
- ND Not Detected (above Method reporting lim
- 1,2-DCB 1,2-Dichlorobenzene
- \* Metals above Residential PRGs not listed
- NA Not Analyzed

Davenport & Assoc.

10-24-97

**TABLE 1**  
**SOIL SAMPLING RESULTS (mg/kg)**

Pre-Foundation Excavation  
Former Berkeley Farms Property  
4575 San Pablo Ave., Emeryville

| SAMPLE ID NO         | DEPTH (bgs)  | TPH/G | TPH/D | BENZENE | TOLUENE | ETHYL BENZENE | XYLENES | MTBE | LEAD |
|----------------------|--------------|-------|-------|---------|---------|---------------|---------|------|------|
| SW-1-2 <sup>1</sup>  | 2            | 5300  | 1400  | 33      | 200     | 110           | 600     | <5   | 15   |
| SW-7-5               | 5            | 490   | 320   | 3.8     | 3.2     | 4.6           | 12      | <3   | 9.5  |
| NE-2-3 <sup>1</sup>  | 3            | 6.3   | ND    | 0.99    | 0.1     | 0.12          | 0.21    | ND   | 8.7  |
| MW-3-2 <sup>1</sup>  | 2            | 360   | 55    | 10      | 22      | 6.7           | 32      | 5.7  | 12   |
| MW-5-5               | 5            | 800   | 190   | 13      | 30      | 16            | 66      | 21   | 8.6  |
| MW-6-9               | 9            | 540   | 110   | 6.3     | 16      | 11            | 47      | <7   | 7.1  |
| Mid-4-3 <sup>1</sup> | 3            | 560   | 300   | 5.9     | 14      | 7.9           | 37      | <4   | 140  |
| Mid-10-5             | 5            | 980   | 250   | 13      | 27      | 18            | 77      | <10  | 13   |
| g-L <sup>2</sup>     | 4-pt Profile | 13    | 170   | 0.41    | 0.19    | 0.6           | 0.63    | NA   | 41   |

1- Soils removed and disposed of at Forward Landfill

2- Profile sample collected by geo-Logic and delivered to Calcoast Analytical

NA Not Analyzed



TABLE 3  
 SOIL VAPOR ANALYTICAL RESULTS  
 Former Berkeley Farms Truck Shop  
 4575 San Pablo Avenue, Emeryville, CA

(samples collected 9/7/02)

| Sample/<br>Depth (feet) | TPH-g<br>(ppb) | Benzene<br>(ppb) | Ethylbenzene<br>(ppb) | Toluene<br>(ppb) | Xylenes<br>(ppb) | MTBE<br>(ppb) |
|-------------------------|----------------|------------------|-----------------------|------------------|------------------|---------------|
| SVP1 (2')               | ND             | ND               | ND                    | ND               | ND               | ND            |
| SVP2 (2')               | ND             | ND               | ND                    | ND               | ND               | ND            |
| SVP3 (2')               | ND             | ND               | ND                    | ND               | ND               | ND            |
| SVP4 (2')               | ND             | ND               | ND                    | ND               | ND               | ND            |
| SVP5 (2')               | ND             | ND               | ND                    | ND               | ND               | ND            |
| Det. Limit              | 25             | 0.25             | 0.25                  | 0.25             | 0.25             | 2.5           |

**EXPLANATION:**

ppb = parts per billion

**ANALYTICAL METHODS:**

TPHg = Total Petroleum Hydrocarbons as gasoline by EPA Method 8015-Modified.

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes according to EPA Method 8021B.

MTBE according to EPA Method 8021B.

TABLE 2

SUMMARY OF LABORATORY ANALYSES-WATER

| Date     | Sample Number | TPH as Diesel | TPH as Gasoline              | Benzene | Toluene | Ethyl benzene | Xylenes |
|----------|---------------|---------------|------------------------------|---------|---------|---------------|---------|
| 9/7/02   | MW1A          | 85            | 61                           | 0.72    | 1.1     | <0.25         | <0.25   |
| 12/7/01  | MW1A          | 180           | 820                          | 84      | 7.7     | 8.4           | 26      |
| 9/17/01  | MW1A          | 180           | 820                          | 84      | 7.7     | 8.4           | 26      |
| 6/15/01  | MW1A          | 94            | 350                          | 15      | 3.5     | <0.5          | <0.5    |
| 3/13/01  | MW1A          | 1,600         | 15,000                       | 980     | 37      | 820           | 2,100   |
| 12/13/00 | MW1A          | 250           | 1,400                        | 96      | 12      | <2.0          | 10      |
| 9/19/00  | MW1A          | <50           | <50                          | <0.5    | <0.5    | <0.5          | <0.5    |
| 6/6/00   | MW1A          | 630           | 2,400                        | 270     | 9.5     | 79            | 27      |
| 3/6/00   | MW1A          | 2,100         | 13,000                       | 560     | <20     | 640           | 1,200   |
| 12/8/99  | MW1A          | 310           | 1,200                        | 93      | 1.8     | 48            | 53      |
| 9/6/99   | MW1A          | <5.0          | <5.0                         | <0.5    | <0.5    | <0.5          | <0.5    |
| 8/6/99   | MW1A          | <5.0          | <5.0                         | <0.5    | <0.5    | <0.5          | <0.5    |
| 6/7/99   | MW1           |               | (Well inaccessible, damaged) |         |         |               |         |
| 3/4/99   | MW1           |               | (Well inaccessible, damaged) |         |         |               |         |
| 11/17/98 | MW1           | 88,000        | 29,000                       | 2,300   | 3,000   | 3,600         | 3,100   |
| 8/21/98  | MW1+          | 96,000        | 38,000                       | 1,700   | 1,000   | 2,400         | 3,300   |
| 6/2/98   | MW1           | 105,000       | 34,000                       | 1,900   | 1,600   | 2,400         | 3,500   |
| 2/27/98  | MW1           | 81,000        | 27,000                       | 2,200   | 910     | 1,700         | 2,700   |
| 12/7/01  | MW2           | <50           | <50                          | <0.5    | <0.5    | <0.5          | <0.5    |
| 9/17/01  | MW2           | <50           | <50                          | <0.5    | <0.5    | <0.5          | <0.5    |
| 6/15/01  | MW2           | <50           | <50                          | <0.5    | <0.5    | <0.5          | <0.5    |
| 3/13/01  | MW2           | <50           | <50                          | <0.5    | <0.5    | <0.5          | <0.5    |
| 12/13/00 | MW2           | <50           | <50                          | <0.5    | <0.5    | <0.5          | <0.5    |
| 9/19/00  | MW2           | 330           | 2,000                        | 210     | 8.7     | 5.5           | 6.0     |
| 6/6/00   | MW2           | <50           | <50                          | <0.5    | <0.5    | <0.5          | <0.5    |
| 3/6/00   | MW2           | <50           | <5.0                         | <0.5    | <0.5    | <0.5          | <0.5    |
| 12/8/99  | MW2           | <50           | <5.0                         | <0.5    | <0.5    | <0.5          | <0.5    |
| 9/6/99   | MW2           | <5.0          | <5.0                         | <0.5    | <0.5    | <0.5          | <0.5    |
| 6/7/99   | MW2           | <5.0          | <5.0                         | <0.5    | <0.5    | <0.5          | <0.5    |
| 3/4/99   | MW2           | <5.0          | <5.0                         | <0.5    | <0.5    | <0.5          | <0.5    |
| 11/17/98 | MW2           | 4,300         | 260                          | 190     | 420     | 470           | 600     |
| 8/21/98  | MW2+          | 1,900         | <5.0                         | <0.5    | <0.5    | 220           | 400     |
| 6/2/98   | MW2           | 7,600         | 60                           | 220     | 510     | 800           | 1,100   |
| 2/27/98  | MW2           | 14,000        | <5.0                         | <0.5    | 120     | 460           | 730     |

TABLE 2

SUMMARY OF LABORATORY ANALYSES-WATER(continued)

| <u>Date</u> | <u>Sample Number</u> | <u>TPH as Motor Oil</u>      | <u>MTBE</u> | <u>TOTAL LEAD</u> |
|-------------|----------------------|------------------------------|-------------|-------------------|
| 9/7/02      | MW1A                 | --                           | 43          | --                |
| 12/7/01     | MW1A                 | ---                          | 120         | ---               |
| 9/17/01     | MW1A                 | --                           | 120         | --                |
| 6/15/01     | MW1A                 | --                           | 84          | --                |
| 3/13/01     | MW1A                 | --                           | 320         | --                |
| 12/13/00    | MW1A                 | ---                          | 170         | ---               |
| 9/19/00     | MW1A                 | --                           | 13          | --                |
| 6/6/00      | MW1A                 | --                           | 210         | --                |
| 3/6/00      | MW1A                 | 320                          | <400        | --                |
| 12/8/99     | MW1A                 | --                           | 140         | --                |
| 9/6/99      | MW1A                 | --                           | <0.5        | --                |
| 8/6/99      | MW1A                 | --                           | <0.5        | --                |
| 6/7/99      | MW1                  | (Well inaccessible, damaged) |             |                   |
| 3/4/99      | MW1                  | (Well inaccessible, damaged) |             |                   |
| 11/17/98    | MW1                  | --                           | <0.5        | --                |
| 6/2/98      | MW1*                 | 80,000                       | <0.5        | <5.0              |
| 2/27/98     | MW1                  | --                           | <0.5        | --                |
| 12/7/01     | MW2                  | <250                         | <5.0        | ---               |
| 9/17/01     | MW2                  | <250                         | <5.0        | ---               |
| 6/15/01     | MW2                  | <250                         | <5.0        | ---               |
| 3/13/01     | MW2                  | <250                         | <5.0        | ---               |
| 12/13/00    | MW2                  | <250                         | <5.0        | ---               |
| 9/19/00     | MW2                  | <250                         | 180         | ---               |
| 6/6/00      | MW2                  | <250                         | <5.0        | ---               |
| 3/6/00      | MW2                  | <250                         | <5.0        | ---               |
| 12/8/99     | MW2                  | <250                         | <5.0        | ---               |
| 9/6/99      | MW2                  | 47                           | <0.5        | ---               |
| 6/7/99      | MW2                  | <0.5                         | <0.5        | ---               |
| 3/4/99      | MW2                  | <0.5                         | <0.5        | ---               |
| 11/17/98    | MW2                  | <0.5                         | <0.5        | ---               |
| 6/2/98      | MW2*                 | 3,800                        | <0.5        | <5.0              |
| 2/27/98     | MW2                  | 20,000**                     | <0.5        | ---               |

TABLE 2

SUMMARY OF LABORATORY ANALYSES-WATER(continued)

| <u>Sample Date</u> | <u>Number</u> | <u>TPH as Diesel</u> | <u>TPH as Gasoline</u> | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl benzene</u> | <u>Xylenes</u> |
|--------------------|---------------|----------------------|------------------------|----------------|----------------|----------------------|----------------|
| 12/7/01            | MW3           | <50                  | <50                    | <0.5           | <0.5           | <0.5                 | <0.5           |
| 9/17/01            | MW3           | <50                  | <50                    | <0.5           | <0.5           | <0.5                 | <0.5           |
| 6/15/01            | MW3           | <50                  | <50                    | <0.5           | <0.5           | <0.5                 | <0.5           |
| 3/13/01            | MW3           | <50                  | <50                    | <0.5           | <0.5           | <0.5                 | <0.5           |
| 12/13/00           | MW3           | <50                  | <50                    | <0.5           | <0.5           | <0.5                 | <0.5           |
| 9/19/00            | MW3           | <50                  | <50                    | <0.5           | <0.5           | <0.5                 | <0.5           |
| 6/6/00             | MW3           | <50                  | <50                    | <0.5           | <0.5           | <0.5                 | <0.5           |
| 3/6/00             | MW3           | <50                  | <5.0                   | <0.5           | <0.5           | <0.5                 | <0.5           |
| 12/8/99            | MW3           | <50                  | <5.0                   | <0.5           | <0.5           | <0.5                 | <0.5           |
| 9/6/99             | MW3           | <5.0                 | <5.0                   | <0.5           | <0.5           | <0.5                 | <0.5           |
| 6/7/99             | MW3           | <5.0                 | <5.0                   | <0.5           | <0.5           | <0.5                 | <0.5           |
| 3/4/99             | MW3           | <5.0                 | <5.0                   | <0.5           | <0.5           | <0.5                 | <0.5           |
| 11/17/98           | MW3           | <5.0                 | <5.0                   | <0.5           | <0.5           | <0.5                 | <0.5           |
| 8/21/98            | MW3+          | <5.0                 | <5.0                   | <0.5           | <0.5           | <0.5                 | <0.5           |
| 6/2/98             | MW3           | <5.0                 | <5.0                   | <0.5           | <0.5           | <0.5                 | <0.5           |
| 2/27/98            | MW3           | --                   | <5.0                   | <0.5           | <0.5           | <0.5                 | <0.            |

TABLE 2

SUMMARY OF LABORATORY ANALYSES-WATER(continued)

| <u>Sample Date</u> | <u>Number</u> | <u>TPH as Motor Oil</u> | <u>MTBE</u> | <u>TOTAL LEAD</u> |
|--------------------|---------------|-------------------------|-------------|-------------------|
| 12/7/01            | MW3           | --                      | 8.4         | --                |
| 9/17/01            | MW3           | --                      | 8.4         | --                |
| 6/15/01            | MW3           | --                      | 6.7         | --                |
| 3/13/01            | MW3           | --                      | 11          | --                |
| 12/13/00           | MW3           | --                      | 9.3         | --                |
| 9/19/00            | MW3           | --                      | <5.0        | --                |
| 6/6/00             | MW3           | --                      | 21          | --                |
| 3/6/00             | MW3           | <250                    | 24/21++     | --                |
| 12/8/99            | MW3           | --                      | 18          | --                |
| 9/6/99             | MW3           | --                      | <0.5        | --                |
| 6/7/99             | MW3           | --                      | <0.5        | --                |
| 3/4/99             | MW3           | --                      | <0.5        | --                |
| 11/17/98           | MW3           | --                      | <0.5        | --                |
| 6/2/98             | MW3*          | <5.0                    | <0.5        | <5.0              |
| 2/27/98            | MW3           | --                      | --          | --                |

-- Analyses not performed.

+ Cadmium, chromium, lead, nickel, and zinc were nondetectable, except for 0.078 mg/l of nickel detected in MW1.

++ 21 ppb by EPA Method 8260.

\* All EPA Method 8010 constituents were nondetectable.

\*\* 20,000 ppb of Total Recoverable Petroleum Hydrocarbons by EPA Method 418.1. Results are in micrograms per liter (µg/L), unless otherwise indicated.

Geo-Logic  
GL-97-110.R6  
October 30, 1998

TABLE 2

SUMMARY OF LABORATORY ANALYSES  
WATER

(Samples collected on October 8, 1998)

| <u>Sample No./Depth</u>     | <u>TPH as Diesel</u> | <u>TPH Gas</u> | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl-benzene</u> | <u>Xylenes</u> | <u>MTBE</u> | <u>TPH as Motor Oil</u> |
|-----------------------------|----------------------|----------------|----------------|----------------|----------------------|----------------|-------------|-------------------------|
| B1 (10.5')                  | <5.0                 | <5.0           | <0.5           | <0.5           | <0.5                 | <0.5           | <0.5        | <0.5                    |
| B2 (14.4')                  | <5.0                 | <5.0           | <0.5           | <0.5           | <0.5                 | <0.5           | <0.5        | <0.5                    |
| B3 (10.8')                  | <5.0                 | <5.0           | <0.5           | <0.5           | <0.5                 | <0.5           | <0.5        | <0.5                    |
| B4 (18.8')                  | <5.0                 | <5.0           | <0.5           | <0.5           | <0.5                 | <0.5           | <0.5        | --                      |
| B5 (11.1')                  | 66                   | <5.0           | <0.5           | <0.5           | <0.5                 | <0.5           | <0.5        | --                      |
| B6 (10.7')                  | <5.0                 | <5.0           | <0.5           | <0.5           | <0.5                 | <0.5           | <0.5        | --                      |
| Det. Limit/<br>Method Blank | <5.0                 | <5.0           | <0.5           | <0.5           | <0.5                 | <0.5           | <0.5        | <0.5                    |

-- analyses not performed

Results are in micrograms per liter (mcg/L), unless otherwise indicated.

*GeoLogic report dated 10-30-98*

TABLE 2:

GROUNDWATER SAMPLE RESULTS - SITE INVESTIGATION  
 Berkeley Farms Truck Maintenance Facility  
 4575 San Pablo Avenue  
 Emeryville, California

*p.p.b.*

*W.O. Tank* →

| Sample Location | TPH-g<br>µg/L | TPH-d<br>µg/L | TPH-mo<br>µg/L | VOC<br>µg/L   | Antifreeze<br>µg/L |
|-----------------|---------------|---------------|----------------|---|--------------------|
| SB1             | 5300.0        | -             | -              | -   | -                  |
| SB2             | 48000.0       | -             | -              | -   | -                  |
| SB3             | 9900.0        | -             | -              | -   | -                  |
| SB4             | ND            | ND            | ND             | ND  | -                  |
| SB5             | ND            | ND            | ND             | -   | ND                 |
| SB6             | ND            | 120.0         | ND             | -   | -                  |
| SB7             | 4200.0        | 10000.0       | 21000.0        | 4.3 1,2-DCB;<br>0.6 1,4-DCB;<br>7.0 1,1 DCA;<br>1.8 1,2 DCA | -                  |
| SB8             | -             | ND            | ND             | -   | -                  |
| SB9**           | 50.0          | -             | -              | -   | -                  |
| SB10            | -             | -             | -              | -   | -                  |

| NOTES:  |   |         |                            |
|---------|---|---------|----------------------------|
| TPH-g   | Total Petroleum Hydrocarbons as gasoline  | 1,1-DCA | 1,1-Dichloroethane         |
| TPH-d   | Total Petroleum Hydrocarbons as diesel    | 1,2-DCA | 1,2-Dichloroethane         |
| TPH-mo  | Total Petroleum Hydrocarbons as motor oil | µg/L    | micrograms per liter (ppb) |
| VOC     | Volatile Organic Compounds                | ND      | Not Detected               |
| 1,2-DCB | 1,2-Dichlorobenzene                       | -       | Not Analyzed               |
| 1,4-DCB | 1,4-Dichlorobenzene                       | **      | MTBE observed at 69 µg/L   |

*BTEX range. 8020*

*Davenport & Assoc.  
 10-24-97*

## DATA SHEET

### PURGEABLE HALOCARBONS

**SAMPLE:** GEO-LOGIC; BERKELEY FARMS; MW1


| Compound                     | Compound Detected (µg/L) | Method Blank (µg/L) | Method Detection Limit (µg/L) |
|------------------------------|--------------------------|---------------------|-------------------------------|
| Chloromethane                | < MDL (ND)               | < MDL (ND)          | 0.08                          |
| Bromomethane                 | < MDL (ND)               | < MDL (ND)          | 1.18                          |
| Dichlorodifluoromethane      | < MDL (ND)               | < MDL (ND)          | 1.81                          |
| Vinyl chloride               | < MDL (ND)               | < MDL (ND)          | 0.18                          |
| Chloroethane                 | < MDL (ND)               | < MDL (ND)          | 0.52                          |
| Methylene chloride           | < MDL (ND)               | < MDL (ND)          | 0.25                          |
| Trichlorofluoromethane       | < MDL (ND)               | < MDL (ND)          | ND                            |
| 1, 1-Dichloroethene          | < MDL (ND)               | < MDL (ND)          | 0.13                          |
| 1, 1-Dichloroethane          | < MDL (ND)               | < MDL (ND)          | 0.17                          |
| trans-1, 2-Dichloroethene    | < MDL (ND)               | < MDL (ND)          | 0.10                          |
| Chloroform                   | < MDL (ND)               | < MDL (ND)          | 0.05                          |
| 1, 2-Dichloroethane          | < MDL (ND)               | < MDL (ND)          | 0.03                          |
| 1, 1, 1-Trichloroethane      | < MDL (ND)               | < MDL (ND)          | 0.03                          |
| Carbon tetrachloride         | < MDL (ND)               | < MDL (ND)          | 0.12                          |
| Bromodichloromethane         | < MDL (ND)               | < MDL (ND)          | 0.10                          |
| 1, 2-Dichloropropane         | < MDL (ND)               | < MDL (ND)          | 0.04                          |
| trans-1, 3-Dichloropropene   | < MDL (ND)               | < MDL (ND)          | 0.34                          |
| Trichloroethene              | < MDL (ND)               | < MDL (ND)          | 0.12                          |
| Dibromochloromethane         | < MDL (ND)               | < MDL (ND)          | 0.09                          |
| 1, 1, 2-Trichloroethane      | < MDL (ND)               | < MDL (ND)          | 0.02                          |
| cis-1, 3-Dichloropropene     | < MDL (ND)               | < MDL (ND)          | 0.20                          |
| 2-Chloroethylvinyl ether     | < MDL (ND)               | < MDL (ND)          | 0.13                          |
| Bromoform                    | < MDL (ND)               | < MDL (ND)          | 0.20                          |
| 1, 1, 2, 2-Tetrachloroethane | < MDL (ND)               | < MDL (ND)          | 0.03                          |
| Tetrachloroethene            | < MDL (ND)               | < MDL (ND)          | 0.03                          |
| Chlorobenzene                | < MDL (ND)               | < MDL (ND)          | 0.25                          |
| 1, 3-Dichlorobenzene         | < MDL (ND)               | < MDL (ND)          | 0.32                          |
| 1, 2-Dichlorobenzene         | < MDL (ND)               | < MDL (ND)          | 0.15                          |
| 1, 4-Dichlorobenzene         | < MDL (ND)               | < MDL (ND)          | 0.24                          |

(ND) = None Detected



## BORING LOG

|   |                                    |                                     |
|---|------------------------------------|-------------------------------------|
| Project No. GL-97-110.R3                  | Boring and casing diameter: 8", 2" | Logged By: Joel Greger              |
| Project: Berkeley Farms Truck Shop & Yard | Well Cover Elevation: 42.35        | Date drilled: 2/20/98               |
| Boring No. MW-1                           | Drilling Method: Hollow Stem Auger | Drilling Company: Woodward Drilling |

| Penetration Blows/6" PID | G.W. level  | Sample Depth (ft) | Stratigraphy (USCS) | Description   |
|--------------------------|---|-------------------|---------------------|---|
|                          |   | 0                 |                     | 8" of concrete pavement over 4" of sand and gravel base.  |
| 7/10/11 PID-0            |  | 5                 | ML                  | @ 4': brownish green clayey silt, very stiff, wet, no odor.   |
| 5/6/11 PID-0             | PID-0   | 7                 | ML-CL               | @ 7': Green clayey silt/silty clay, stiff, saturated, slight odor of hydrocarbons   |
|                          |   | 10                |                     |   |
|                          |   | 15                |                     |   |
|                          |   | 20                |                     | Total Depth: 17 feet<br>Screen: 0.010 slot from 7-17 feet<br>Sandpack: #2/12 sand from 5-17 feet<br>Seal: Bentonite 4-5 feet, neat cement grout 0-4 feet. |
|                          |   | 25                |                     |   |
|                          |   | 30                |                     |   |


|   |            |                         |
|---|------------|-------------------------|
| Berkeley Farms Truck Shop & Yard<br>4575 San Pablo Avenue<br>Emeryville, California | <b>MW1</b> | Date: February 21, 1998 |
|   |            | Drawn By: JG/Geo-Logic  |

Boring Log and Well Completion Details

ATTACHMENT 6

## BORING LOG

|  |                                     |                          |
|--|-------------------------------------|--------------------------|
| Project No. GL-97-110.R6                     | Boring diameter: 8"                 | Logged By: Joel Greger   |
| Project: Berkeley Farms<br>Truck Shop & Yard | Drilling Company: Woodward Drilling | Date drilled: 10/8/98    |
| Boring No. B-4                               | Drilling Method: Hollow Stem Auger  | Date backfilled: 10/8/98 |


| Penetration<br>Blows/6"<br>(Mod. Cal) | PID<br>reading | Sample<br>Depth<br>(ft) | Soil<br>Class<br>(USCS) | G.W.<br>level   | Description  |
|---------------------------------------|----------------|-------------------------|-------------------------|---|--|
|                                       |                | 0                       |                         |   | 9" of concrete over sand, silt, and gravel base (fill).  |
| 6/12/18                               | PID-0          | 5                       | ML                      |   | CLAYEY SILT (ML), dark reddish brown (5YR 2.5/2), slightly moist to moist, stiff, mottled iron oxide staining.                               |
| 6/8/11                                | PID-0          | 10                      |                         |  | CLAYEY SILT (ML), gray (5Y 5/1), wet to saturated along fissures, stiff, trace angular gravels to 1/4" in diameter.                          |
|                                       |                | 15                      |                         |   | (Drilled to 15 feet and partially retracted augers, no water. Drilled to 18 feet, no water. Drilled to 20 feet, water very slow to come in.) |
|                                       |                | 20                      |                         |   | Total Depth: 20 feet<br>Ground water measured at 18.8'.<br>Backfilled with bentonite and neat cement grout.                                  |
|                                       |                | 25                      |                         |   |  |
|                                       |                | 30                      |                         |   |  |

|   |                                      |  |
|---|--------------------------------------|--|
| Berkeley Farms Truck Shop & Yard<br>4575 San Pablo Avenue<br>Emeryville, California | <h1 style="font-size: 2em;">B-4</h1> | Date: October 27, 1998<br><hr/> Drawn By: JG/Geo-Logic |
|---|--------------------------------------|--|

## Boring Log

## BORING LOG

|   |                                     |                          |
|---|-------------------------------------|--------------------------|
| Project No. GL-97-110.R6                  | Boring diameter: 8"                 | Logged By: Joel Greger   |
| Project: Berkeley Farms Truck Shop & Yard | Drilling Company: Woodward Drilling | Date drilled: 10/8/98    |
| Boring No. B-5                            | Drilling Method: Hollow Stem Auger  | Date backfilled: 10/8/98 |


| Penetration Blows/6" (Mod. Cal) | PID reading | Sample Depth (ft) | Soil Class (USCS) | G.W. level  | Description  |
|---------------------------------|-------------|-------------------|-------------------|---|--|
|                                 |             | 0                 |                   |   | 9" of concrete over sand, silt, and gravel base (fill).  |
| 7/9/14                          | PID -19.1   | 5                 | ML                |   | SANDY SILT (ML), very dark gray (stained?) ((10YR 3.1), slightly moist to moist, stiff, odor of hydrocarbons.          |
| 5/8/14                          | PID-13.3    | 10                |                   |  | CLAYEY SILT (ML), brown (10YR 5/3), v. moist, stiff, mottled bluish gray and iron oxidestaining, odor of hydrocarbons. |
|                                 |             | 15                |                   |   | (Drilled to 20 feet and retracted augers, ground water came in quickly).   |
|                                 |             | 20                |                   |   |  |
|                                 |             | 25                |                   |   | Total Depth: 20 feet<br>Ground water measured at 11.1'.<br>Backfilled with bentonite and neat cement grout.            |
|                                 |             | 30                |                   |   |  |

|   |            |  |
|---|------------|--|
| Berkeley Farms Truck Shop & Yard<br>4575 San Pablo Avenue<br>Emeryville, California | <b>B-5</b> | Date: October 27, 1998<br><br>Drawn By: JG/Geo-Logic |
|---|------------|--|

### Boring Log

## BORING LOG

|   |                                     |                          |
|---|-------------------------------------|--------------------------|
| Project No. GL-97-110.R6                  | Boring diameter: 8"                 | Logged By: Joel Greger   |
| Project: Berkeley Farms Truck Shop & Yard | Drilling Company: Woodward Drilling | Date drilled: 10/8/98    |
| Boring No. B-6                            | Drilling Method: Hollow Stem Auger  | Date backfilled: 10/8/98 |

| Penetration Blows/6" (Mod. Cal) | PID reading | Sample Depth (ft) | Soil Class (USCS) | G.W. level  | Description  |
|---------------------------------|-------------|-------------------|-------------------|---|--|
|                                 |             | 0                 |                   |   | 9" of concrete over sand, silt, and gravel base (fill).  |
| 5/10/14                         | PID-0       | 5                 | ML                |   | CLAYEY SILT (ML), brown (10YR 5/3), moist to very moist, stiff, mottled bluish gray and iron oxide staining.           |
| 6/11/12                         | PID-0       | 10                | ML                |  | CLAYEY SILT (ML), light olive gray (5Y 6/2), v. moist, stiff, 2" zone of very weathered decomposed gravels at 11 feet. |
|                                 |             | 15                |                   |   | (Drilled to 20 feet and retracted augers, ground water came in quickly).   |
|                                 |             | 20                |                   |   | Total Depth: 20 feet<br>Ground water measured at 10.7'.<br>Backfilled with bentonite and neat cement grout.            |
|                                 |             | 25                |                   |   |  |
|                                 |             | 30                |                   |   |  |

|   |            |  |
|---|------------|--|
| Berkeley Farms Truck Shop & Yard<br>4575 San Pablo Avenue<br>Emeryville, California | <b>B-6</b> | Date: October 27, 1998<br><br>Drawn By: JG/Geo-Logic |
|---|------------|--|

## Boring Log