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

June 28, 2013

PAC Residential Group, Inc.
(Previously Catellus Residential Group)
4545 Airport Way.
Denver, CA 80239

Prologis Logistics Services, Inc.
4545 Airport Way
Denver, CA 80239
Attn: General Counsel

Ransome Company
Address Unknown

Burlington Northern and Santa Fe Railway Co
2650 Lou Menk Drive
Fort Worth, TX 76131

Subject: Case Closure for Fuel Leak Case No. RO0000049, Ransome Company, 4030 Hollis St., 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.

SITE INVESTIGATION AND CLEANUP SUMMARY

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

- There are no considerations to note.

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

Sincerely,

Donna L. Drogos, P.E.
Division Chief

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

cc: Ms. Cherie McCaulou (w/enc.), SF- Regional Water Quality Control Board, 1515 Clay Street, Suite 1400, Oakland, CA 94612, (sent via electronic mail to CMacaulou@waterboards.ca.gov)

Donna Drogos, (sent via electronic mail to donna.drogos@acgov.org)
Keith Nowell (sent via electronic mail to keith.nowell@acgov.org)
Case eFile, GeoTracker

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ALAMEDA, CA 94502
(510) 567-6777
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REMEDIAL ACTION COMPLETION CERTIFICATION

June 28, 2013

PAC Residential Group, Inc.
(Previously Catellus Residential Group)
4545 Airport Way.
Denver, CA 80239

Prologis Logistics Services, Inc.
4545 Airport Way
Denver, CA 80239
Attn: General Counsel

Ransome Company
PO Box 6849
Oakland, CA 94603

Burlington Northern and Santa Fe Railway Co
2650 Lou Menk Drive
Fort Worth, TX 76131

Subject: Case Closure for Fuel Leak Case No. RO0000049, Ransome Company, 4030 Hollis St., 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,

Arlu Levi
Director

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

I. AGENCY INFORMATION

Date: June 28, 2013

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 639-1287
Responsible Staff Person: Keith Nowell	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Ransome Company		
Site Facility Address: 4030 Hollis St. Emeryville, CA 94608		
RB Case No.: 01-1223	Local Case No.: STID 1667	LOP Case No.: RO0000049
URF Filing Date: April 4, 1990	Geotracker ID: T0600101124	APN: 49-619-1 & 49-619-4

Responsible Parties	Addresses	Phone Numbers
Ransome Company	Address Unknown	-----
Prologis Logistics Services, Inc.	4545 Airport Way, Denver, CA 80239	303 / 567 - 5000
PAC Residential Group, Inc.	4545 Airport Way, Denver, CA 8023	303 / 567 - 5000
Burlington Northern and Santa Fe Railway Co	2650 Lou Menk Drive, Fort Worth, TX 76131	800 / 795 - 2673

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
-----	4,000	Diesel	Removed	January 4, 1990
-----	1,000	Gasoline	Removed	January 4, 1990
-----	4,000	Diesel	Removed	January 5, 1990
-----	10,000	Gasoline	Removed	January 8, 1990
-----	350	Gasoline	Removed	October 27, 1993
-----	Unknown	Unknown	Removed	November 1993
Piping			Removed	1990 & 1993

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. Structural failure- 1,000-galon gasoline UST ruptured on removal. Condition of the unknown tank not reported. Other USTs appeared intact upon removal.		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? Yes	Number: 12	Proper screened interval? *Yes*
Highest GW Depth Below Ground Surface: 2.67 feet bgs	Lowest Depth: 14.88 feet bgs	Flow Direction: Southwest
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity:

Nine water supply wells were identified within ¼-mile of the subject site:

- One abandoned 163-foot deep water supply well, located at 3423 Harlan St., is approximately 1,200 feet cross groundwater gradient of the site. Based on the distance and cross gradient location, the well is unlikely to be a receptor for this site.
- Eight private wells were reported identified on a 1911 Sanborn map on the adjoining former M&N trucking warehouse property. The M&N facility was situated at the northwest corner of the EBC development, approximately 2,500 feet to the west. No records were located regarding the well field; however, a steel-cased water supply well was encountered and decommissioned during mid-September 1993 excavation activities at the M&N site. No other wells were reported encountered during excavation and grading activities. Based on the distance these wells are unlikely to be receptors for this site.

Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: San Francisco Bay – 3,000 feet WNW
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	4,000 gallons 1,000 gallons 4,000 gallons 10,000 gallons	Disposal to H&H Ship Service Company 220 China Basin St, San Francisco CA	January 4, 1990 January 4, 1990 January 5, 1990 January 8, 1990
	350 gallons	Disposal to Erickson Environmental, Inc., Richmond CA	October 27, 1993
	Not reported	Disposal Site Not Reported	Not reported
Piping	250 feet (approx)	Not reported Assumed Transported with the USTs	1990 & 1993
Free Product	1,400 gallons	Treatment at H&H Ship Service Company, 220 China Basin St, San Francisco CA	January 1990
	350 gallons	Treatment at Evergreen Environmental Services, Inc., 6880 Smith Ave., Newark CA.	October 27, 1993
	Amount Not Reported	Destination not Reported	October, 1993
Soil	4,100 cu yds	Treatment at Port Costa Materials 9000 Carquinez Scenic Drive Port Costa, CA	January 1992
	305 cu yds	Disposal to US Ecology facility, Hwy 95 12 mi South of Beatty, Nevada	June 1991
	22,700 cu yds	Disposal to Soil Containment Area	Late 1991
Groundwater	17,600 gallons	Treatment a H&H Ship Service Company 220 China Basin St, San Francisco CA	January 1992

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP (Please see Attachments for additional information on contaminant locations and concentrations)				
Contaminant	Soil (mg/kg)		Water (µg/L)	
	Before	After	Before	After
TPH (Gas)	11,000	90	20,000	<50
TPH (Diesel)	2,700	73	12,000	250
TPH (Oil)	4,600	100	2,000	<200
Oil and Grease	17,000	700	6,600	6,600
Benzene	100	0.70	3,000	<0. 5
Toluene	240	0.093	2,200	<0.5
Ethylbenzene	300	6.6	730	<0.5
Xylenes	1,000	14	3,300	<2
Metals (Cd, Cr, Pb, Ni, Zn)	330[1]	42.3[2]	18[3]	18[3]
MTBE	Not Analyzed	Not Analyzed	<0.5[4]	<0.5[4]
PCBs	28[5]	28[5]	Not Analyzed	Not Analyzed
Other (8010/8240)[6]	Not Applicable[6]	Not Applicable[6]	Not Applicable[6]	Not Applicable[6]

[1] 1.5 mg/kg Cd; 77 mg/kg Cr; 330 mg/kg Pb: 93 mg/kg Ni; 320 mg/kg Zn, 31 mg/kg As.
[2] <0.25 mg/kg Cd; 18.3 mg/kg Cr; 5.8 mg/kg Pb: 42.3 mg/kg Ni; 28.7 mg/kg Zn, 31 mg/kg As.
[3] <3 µg/L Cd; <20 µg/L Cr; 10 µg/L Pb: <10 µg/L Ni; 18 µg/L Zn, 1 µg/L As.
[4] <0.5 µg/L MTBE; TBA, TAME, ETBE; DIPE, EtOH, EDB; and EDC all not analyzed.
[5] 28 mg/kg left in place in the center of 40th Street and appear to be from an off-site source. PCBs were not detected in confirmation samples after over excavation at the Bridgecourt apartment location.
[6] VOCs are part of the RWQCB case # 01S0226 and are not considered a part of this case closure.

Site History and Description of Corrective Actions:

The Ransome Company site, formerly leased an approximately four and one-half- acre property within the 51-acre retail and residential redevelopment project named the East Baybridge Center (EBC).

Due to the size and history of the EBC property, Catellus Land Development Corporation (Catellus), the EBC developer, used three areas transected by Yerba Buena Avenue and Hollis Street to aid with the geographic distinction during the environmental characterization of the EBC development. The portion of the EBC property east of Hollis Street and south of Yerba Buena Avenue was designated Area A; the area east of Hollis Street and north of Yerba Buena Avenue was designated Area B; and the area west of Hollis Street was designated Area C. These area designations were used throughout EBC site redevelopment. Sites occupying Area A of the EBC project consisted of Santa Fe Terminal Services (SFTS)-Area A, Clipper Exxpress warehouse, LDS warehouse, and the segment of Peralta Street between San Pablo Avenue and Emery Street. The ownership of the Peralta Street Right Of Way (ROW) was transferred to Catellus by the City of Emeryville on April 14, 1992. Area B of the EBC project consisted of SFTS-Area B, and the Ransome Construction Company. Area C of the EBC project consisted of SFTS-Area C, Bashland, Bay Area Warehouse, and M and N Trucking Warehouse. The SFTS areas were operated by the railroad company and consisted of railroad tracks and sidings and open areas for the storage of rolling stock. Except for Peralta Street ROW and Ransome, the sites in areas A, B and C consisted of warehouse structures serviced by rail sidings alongside the buildings. Ransome was also serviced by a rail siding but lacked a large warehouse structure. Unimproved access roads typically paralleled the rail road tracks.

ACEH case files for the sites within the EBC development consist of RO0000049 (Ransome), RO0000326 (Bashland), RO0000369 (Bay Area Warehouse and SFTS-Area C), RO0003092 (M and N Trucking Warehouse), RO0003093 (Clipper Exxpress, LDS, and SFTS Areas A and B), and RO0003111 (Peralta Street ROW).

The property is currently owned by PAC Residential Group, Inc. The portion of the EBC development comprising the Ransome site consists of two parcels having APNs 49-619-1 and 49-619-4 in the City of Emeryville, California. The site as currently developed consists of Bridgecourt, four three-story structures of 220 apartments, with a parking garage on the ground floor. End units of the residential structures consist of single story commercial suites. The Ransome site occupied the northwestern portion of Area B within the pre-EBC development. The approximate triangular-shaped site was situated near the southeast side of the existing Hollis and 40th Streets. Prior to its' existing configuration, the northern portion of 40th Street was occupied by sets of rail tracks and an access road. The northern boundary of the Ransome site extended northward to the approximate centerline of the current 40th Street. The western site boundary extended westward into the Hollis Street right of way.

The property was previously occupied by a Western Electric Company yard (1911). By 1930 Hutchinson Company operated an asphalt batch plant with a concrete UST for oil storage, asphalt kettles & mixer, and an asphalt tank. The Ransome Company, an engineering and construction firm, occupied the site from about 1938 in to the 1980s. Historical operations at the Ransome facility included asphalt concrete mixing, metal working, and vehicle repair. DTSC assessed the property (case number 01160019) in 1980 and 1987. Ransome operated four underground storage tanks (USTs) (two 4,000-gallon diesel, one 10,000-gallon and one 1,000-gallon gasoline), two of which failed a 1988 tank pressure test. Results of the pressure tests indicated leaks in the diesel dispenser piping and in one of the regular gasoline USTs. Ransome also operated a partially buried waste oil tank and an above ground asphalt emulsion tank. The site stored 55-gallon drums containing lubricants and transmission fluid for their fleet of vehicles. Reported on-site practices included the spraying of used oil along the property perimeter and interior for weed control. Excavation activities at the site uncovered several buried concrete vaults which were removed, broken up, and off hauled.

The four fuel USTs were removed on April 8, 1990. In 1990 Catellus Development Corp demolished the site structures as part of the EBC redevelopment. Site characterization work conducted in 1989 through 1992 detected maximum concentrations of 11,000 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd) to 2,700 mg/kg, total petroleum hydrocarbons as oil (TPHo)

to 4,600 mg/kg, total oil and grease (TOG) to 17,000 mg/kg, benzene at 100 mg/kg, and polychlorinated biphenyls (PCBs) up to 28 mg/kg in soil. Grab groundwater samples detected up to 20,000 micrograms per liter (µg/L) TPHg, 12,000 µg/L TPHd, and 3,000 µg/L benzene in groundwater.

Near surface PCB-contaminated soil was encountered it the northern area of the Ransome site. Approximately 300 cu yds of PCB contaminated soil was disposed at a US Ecology facility located 12 miles south of Beatty, Nevada off Hwy 95. The source of PCBs at the site was not identified. Investigation of the PCB-impacted area suggested an off-site source north of the Ransome facility. PCB concentrations remaining in the north head wall of the excavation at the northern property boundary were 28 mg/kg. The location of the northern property boundary is situated at the centerline of the current 40th Street. The PCB excavation was backfilled using imported class II AB. PCB contamination was limited to the shallow (<3 feet below the ground surface-bgs). No PCB compounds were detected beneath the footprint of the Bridgecourt development.

Approximately 17,200 cu yds of petroleum contaminated soil was excavated between October and December 1990, with 5,480 cu yds reported placed in aeration cells located both on and off-site with another 4,100 cu yds transported to Port Costa Materials in Port Costa, CA for thermal treatment. The balance of the excavated soil was placed in stockpiles for future placement under building pads and low-permeable paved areas in off-site EBC areas south of the Ransome site in accordance with the Soil Containment Plan prepared for the 51 acre redevelopment project. Additional excavation work was performed in December 1991 through March 1992 with the removal of 9,600 cu yds of gasoline contaminated soil. The soil was either stockpiled for future placement under off-site building pad and low-permeable paved areas in the soil containment area or placed in aeration cells for possible reuse on site.

Precipitation and surface runoff during winter 1991/ 1992 resulted in episodes of water ponding in the excavation area. The ponded water was observed to have a sheen. Approximately 17,600 gallons of petroleum contaminated water was pumped in vacuum trucks for offsite recycling. Clean import fill and approximately 2,500 cu yds of aerated soil meeting the cleanup criteria were used to backfill the excavations. Residual hydrocarbon concentrations in the soil prior to backfill were 32 mg/kg TPHg, 73 mg/kg TPHd, benzene up to 0.35 mg/kg, and 700 mg/kg TOG. The highest hydrocarbon concentrations were in the northern sidewall along the northern property boundary, within the 40th Street right-of-way. The final verification samples showed residual soil contamination left in place met the cleanup goals with the exception of three samples collected at 10 feet along the northern property boundary. Based on the redevelopment of the area, the residual contamination was situated near the center-line beneath 40th Street while TPH and BTEX compounds left in place beneath the footprint of the Bridgecourt development consisted of 3.3 mg/kg TPHg, 73 mg/kg TPHd, benzene up to 0.014 mg/kg, and 700 mg/kg TOG.

In October 1993, two USTs were encountered in the 40th Street-side of the Ransom site during grading activities. One tank was a 350-gallon gasoline UST, and the other was a presumed heating oil tank. The 350-gallon UST was removed from the site. Sampling in the tank pit detected 330 mg/kg TPHg, 65 mg/kg TPHd, 480 mg/kg TPHmo, and 77 mg/kg TOG. Approximately 20 cu yds of soil were removed during the over excavation of the 350-gallon UST pit. Residual soil contamination for TOG was up to 70 mg/kg. TPHg, TPHd, TPHo and BTEX compounds were reported below the laboratory reporting limits. The excavated soil was aerated and transferred to a stockpile for later placement under building pads or under low permeability paved parking. The second UST was assumed to be a heating oil tank. No documentation was submitted documenting the size, sampling, or fate of this oil UST.

A groundwater monitoring well (LF-8) was installed up gradient in January 1990 near the northeastern-most corner of the Ransome site. Groundwater monitoring well (LF-16) was installed off-site down gradient in February 1990. Three on-site groundwater monitoring wells (W-1, W-2 and W-3) were installed in November, 1990. Results of monitoring well sampling conducted in 1990 detected up to 2,200 µg/L TPHg, 1,900 µg/L TPHd, and 270 µg/L benzene. Monitoring wells W-1, W-2 and W-3 were decommissioned in mid-November, 1990 prior to the start of excavation of contaminated soil.

Upon completion of the excavation work, five on-site groundwater monitoring wells (LF-24 through LF-28) were installed in May 1992 with an additional on site monitoring well, LF-29, installed in October 1992. The wells were sampled at a roughly quarterly basis until their decommissioning in July 1993 in preparation for site development. A west-southwesterly groundwater flow was determined. Depths to groundwater varied from 3.13 to 14.40 feet bgs. The six on-site wells were sampled between May 1992 and July 1993. Up to 1,000 µg/L TPHd concentrations, 90

µg/L TPHg, 5,600 µg/L TOG, and benzene concentrations to 1 µg/L were detected. Monitoring wells LF-24 through LF-29 were decommissioned in July 1993 in preparation of site development activities.

Upon completion of grading activities onsite well MW-1 was installed in July 1994. MW-1 was decommissioned in December 1996 prior to construction of the retail/residential complex. Depth to water variations for MW-1 ranged from 13.38 feet to 14.88 feet bgs with a west-southwesterly groundwater flow. Up to 300 µg/L TPHd was detected and TPHg and BTEX compounds were not detected.

Site cleanup levels for the Ransome site were established at 10 mg/kg for TPHg and 100 mg/kg for TPHd, 1,000 mg/kg for TOG, BTEX compounds were to remain below 1 mg/kg (cumulative) and a PCB clean up goal of 1 mg/kg. The site backfill criteria were 500 mg/kg TOG, 10 mg/kg TPHd, 10 mg/kg TPHg, and non-detect for BTEX. Both the cleanup and backfill criteria were met for the Bridgecourt development.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
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: None		
Should corrective action be reviewed if land use changes? No		
Was a deed restriction or deed notification filed? No		Date Recorded: ----
Monitoring Wells Decommissioned: Yes	Number Decommissioned: 12	Number Retained: 0
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: ----		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

- PCB concentrations of up to 28 mg/kg, above cleanup guidelines of 1 mg/kg, remained in place up to the time of the 40th Street road widening. No PCB compound concentrations were documented beneath the footprint of the Bridgecourt portion of the former Ransome property.
- Limited documentation was located in the file regarding the 350-gallon heating oil tank uncovered in the 40th Street right-of-way during site grading. No information regarding UST integrity, verification of contents, destination, or laboratory analysis reports were present in the file.
- Selected aeration stockpiles not identified prior to placement as unrestricted fill. However, confirmation soil sampling of the aeration stockpiles did document most aerated soil met the backfill soil criteria and soil not meeting the backfill requirements was reported placed in the off-site soil containment area, located in the southwest portion of Area A and southern Area B.
- The decommissioning of monitoring well MW-1 is not specifically documented; however, the well decommissioning report for the EBC development states that all wells were abandoned.
- Volatile organic compounds have been detected in groundwater beneath the site. However, the VOCs are part of the RWQCB case # 01S0226 and are not considered a part of this case closure.

Conclusion:

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. No further investigation or cleanup for the fuel leak case is necessary at this time. ACEH staff recommend closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Keith Nowell, P.G., C.H.G.	Title: Hazardous Materials Specialist
Signature: Keith Nowell	Date: 6/28/13
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature:	Date: 6/28/13

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
Notification Date: April 19, 2013	

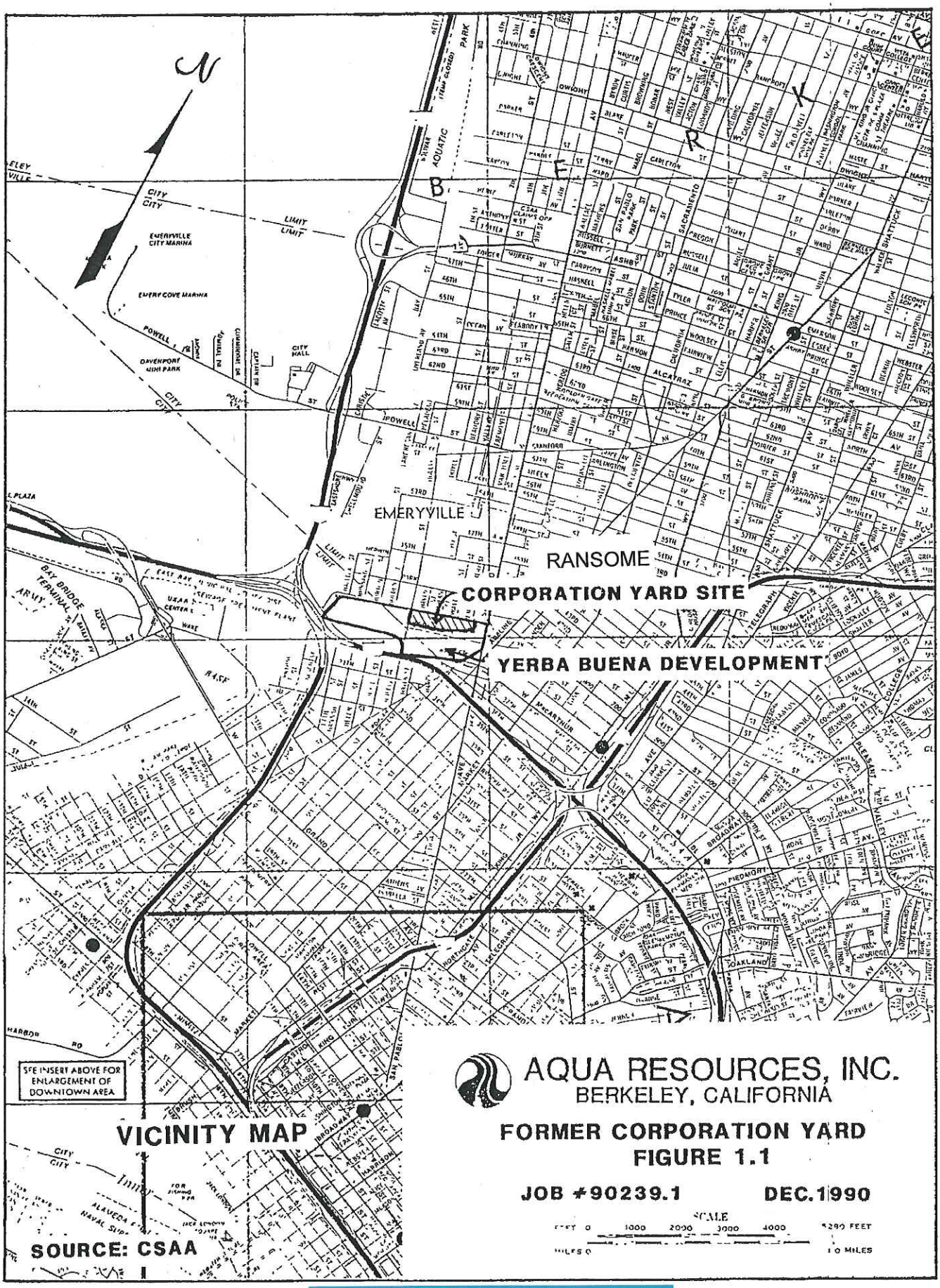
VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH:	Date of Well Decommissioning Report:	
All Monitoring Wells Decommissioned: Yes	Number Decommissioned: 12	Number Retained: 0
Reason Wells Retained: None Retained		
Additional requirements for submittal of groundwater data from retained wells:		
ACEH Concurrence - Signature: Keith Howell		Date: 6/28/13

Attachments:

9. Site Vicinity Map (2 pp)
10. Site Plans (12 pp)
11. Soil Analytical Data (53 pp)
12. Groundwater Analytical Data (12 pp)
13. Monitoring Well Logs and Construction Detail (11 pp)
14. Cross Section (1 p)

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.



ATTACHMENT 9

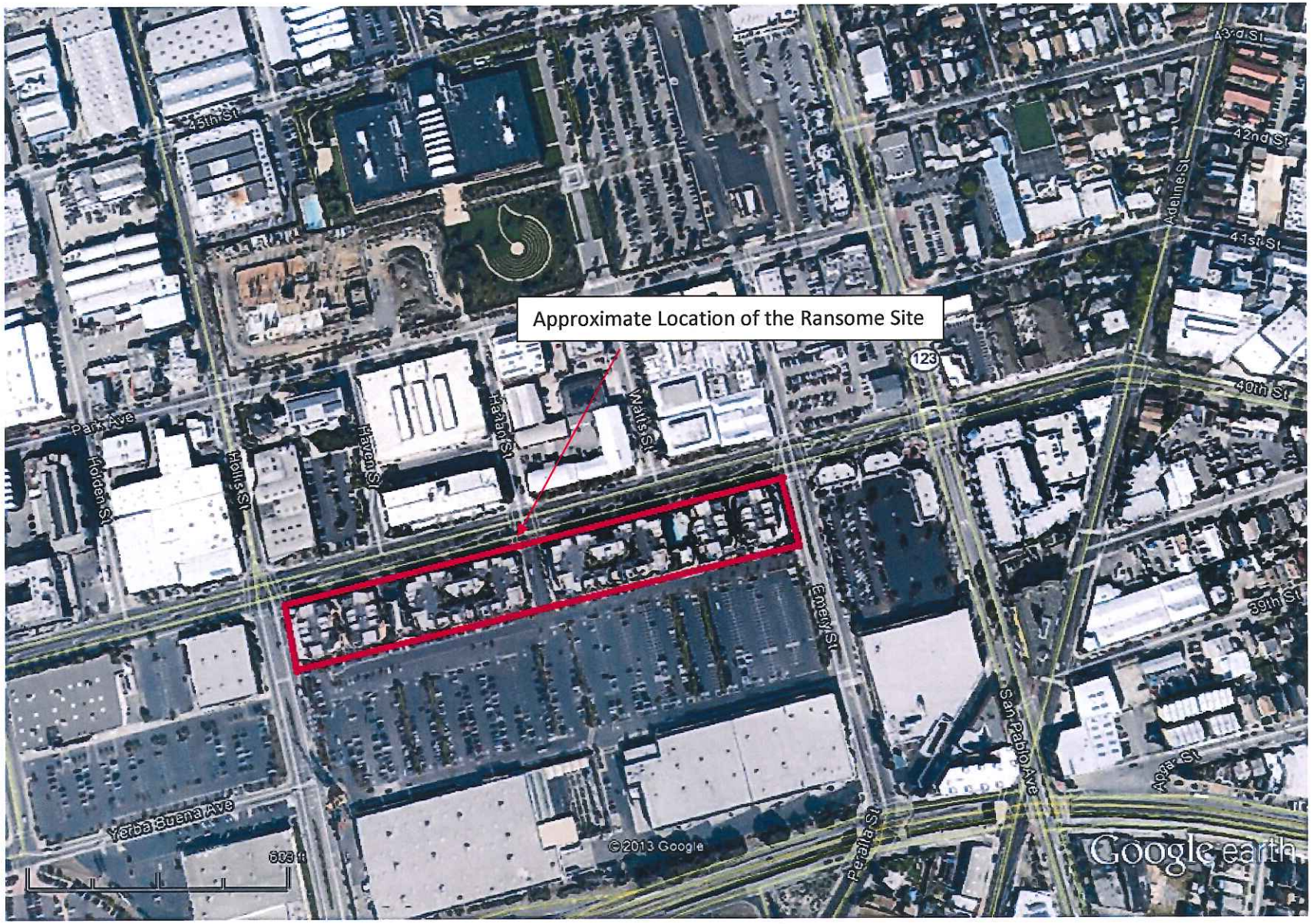
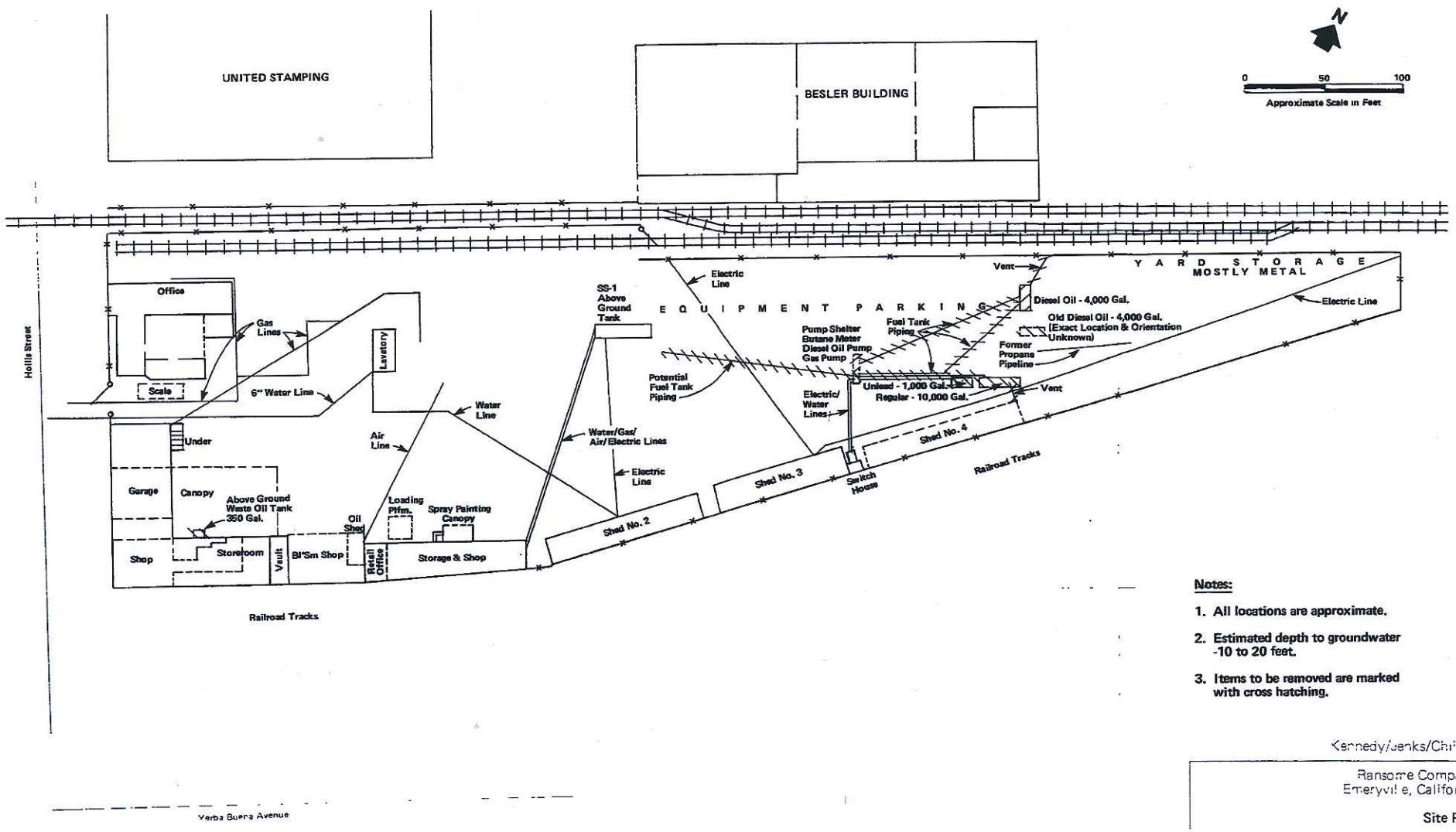


FIGURE 2 SITE VIEW SHOWING EXISTING BRIDGECOURT DEVELOPMENT



Notes:

1. All locations are approximate.
2. Estimated depth to groundwater -10 to 20 feet.
3. Items to be removed are marked with cross hatching.

Kennedy/Jenks/Chilton

Ransome Company
Emeryville, California

Site Plan

K/J/C 890066
October 1989

Figure 1

ATTACHMENT 10

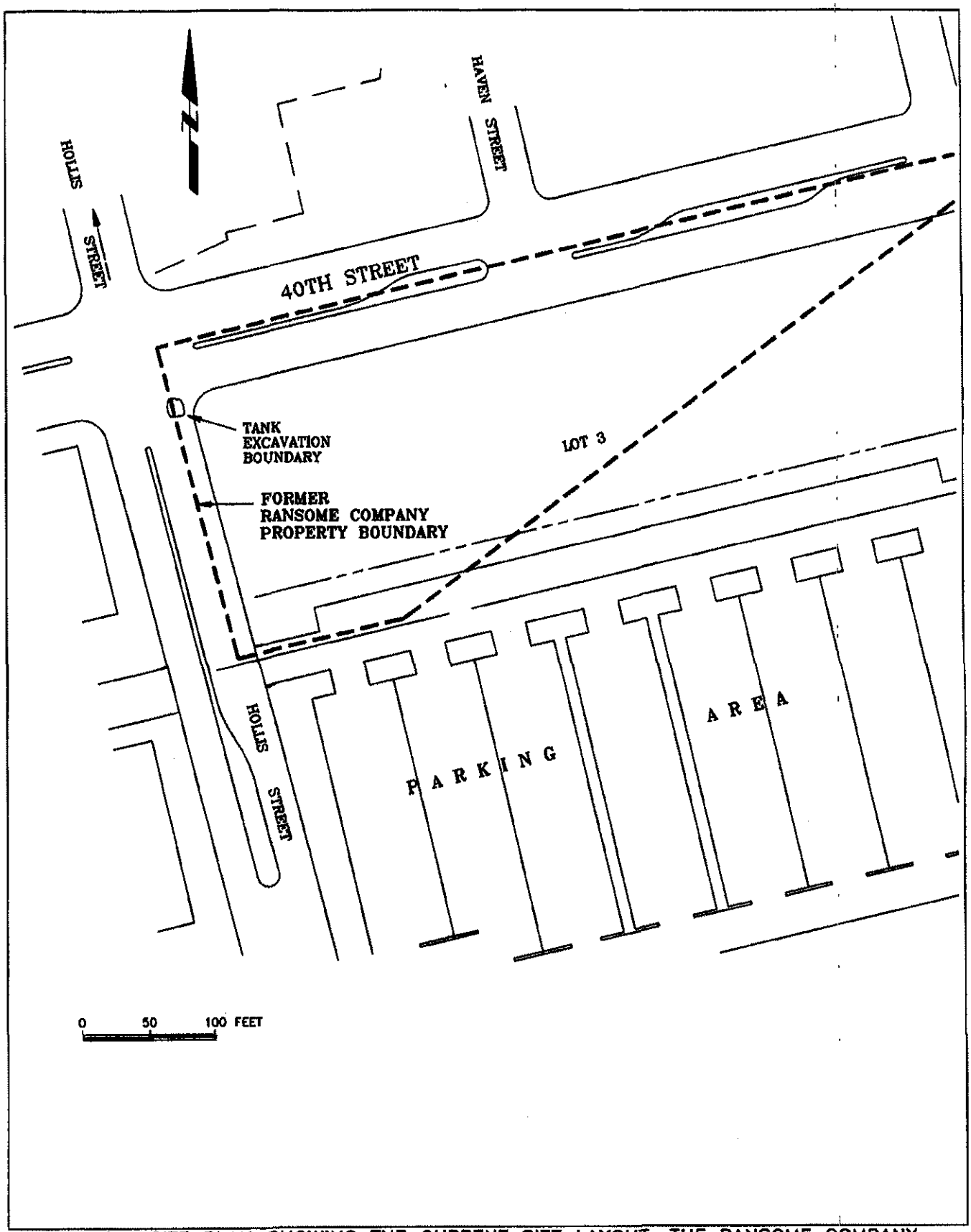
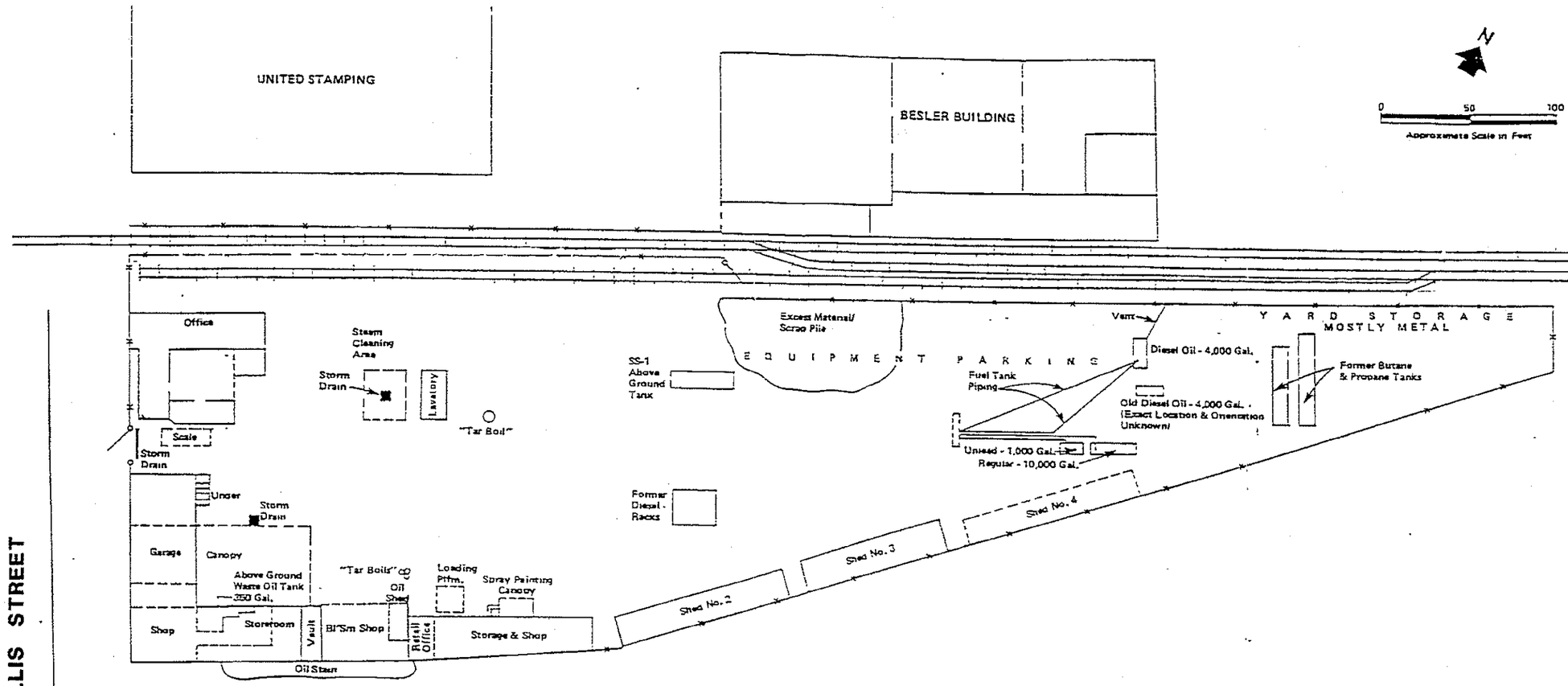


Figure 2 : SITE PLAN SHOWING THE CURRENT SITE LAYOUT, THE RANSOME COMPANY FORMER PROPERTY BOUNDARY, AND APPROXIMATE LOCATION OF THE FORMER UST EXCAVATION

Project No. 1649

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS, & APPLIED SCIENTISTS

1649B036.JJB:EM 010794



SITE FEATURES PLAN

AQUA RESOURCES, INC.
BERKELEY, CALIFORNIA

FORMER CORPORATION YARD

FIGURE 1.2

JOB #90239.1 DEC. 1990

UNITED STAMPING

BESLER BUILDING

N

HOLLIS STREET

Former
SS-1 Above Ground Tank

Former Excess Material
Scrap Pile Area

B-8 B-14 B-19 B-25

5-1 5-2 6-1 6-2 6-3 P-4 W-2

C-2 D-15 4-6 P-6

P-2 Unleaded-1000 gal. Regular-10,000 gal. P-3 P-1 W-1 E-19

Former Diesel Racks

4-1 4-2 4-3 4-4 4-5

8-1 Former Garage

Former
Above Ground Waste
Oil Tank, 350 gal.

W-3 3-1 7-1 G-17

8-2 H-5 H-3 P-5 Oil Stain Area I-7

Former Shop

2-1 2-2 2-3 2-4

0 50 100 150 FEET

SCALE

LEGEND

8-2	Test Pit
P-6	Boring
W-1	Monitoring Well
C-2	Soil/Water Sampling, Nov. 5, 6, 7
	Underground tanks (previously removed)
	Investigation limits

SITE PLAN

AQUA RESOURCES, INC.
BERKELEY, CALIFORNIA

FORMER CORPORATION YARD
FIGURE 2.1

JOB #90239.1 DEC. 1990

UNITED STAMPING

BESLER BUILDING

N

HOLLIS STREET

Former Excess Material Scrap Pile Area

Former SS-1 Above Ground Tank

Former Diesel Racks

Former Garage (See Detail)

Former Above Ground Waste Oil Tank, 350 gal.

Former Shop

Oil Stain

Unleaded-1000 gal.

Regular-10,000 gal.

B-8 8' O 57

B-14 6' O 75

B-19

B-25 6' △ 56

C-2 5' △ 280

P-2 7.5' O 2 10.5' O 7.2

P-3 10.5' O 29

P-4 6.5' O 2.4 10.5' O 2.8

P-5 5.5' O 43 10.5' O 19

P-6 5.5' O 48 10.5' O 5.9

P-1 6.5' O 8.6

W-1 6' SOIL O 2.9

W-2 6' O 3.5

W-3

E-19

D-15

G-17

1'-8" O 260 △ 2500

6' O 500

6.5' O 43

2'-9" O 2700 △ 1400

4' O 22

5-1

5-2 4'-8" O 4.9

6-1

6-2 4.5' O 6.7

6-3 2.5' O 22

4-6 5' O 19

4-1 3' O 610 △ 250

4-2 3'-9" O 18

4-3 4'-2" O 6.6

4-4

4-5

8-1 3' O 70

8-2 2'-8" O 19.7

3-1 4' O 1400 △ 6700

6' O 1.6

H-3 5' △ 21

H-5 6' △ 150

I-7 4' △ 62

7-1 5' O 26 2.5' O 290

2-1 3.5' O 350 △ 3000

2-2 3.5' O 8.7

2-3 4' O 11

2-4 3.5' O 14.7

3-5 5.5' O 6.4

3-6

3-2

3-3A, B 5.5' O 77

3-4 3-7 9' O 1200

P-5 5.5' O 43 10.5' O 19

DETAIL

0 50 100 150 FEET

SCALE

LEGEND

- 8-2 — Test Pit
- P-6 — Boring
- W-1 — Monitoring Well
- C-2 — Soil/Water Sampling, Nov. 5, 6, 7
- ○ — TPH as Diesel (mg/kg)
- △ — Oil and Grease (mg/kg)
- 3'-9" O 18 — Soil Sample Depth / Concentration (Type of Contamination)

CONCENTRATIONS OF TPH AS DIESEL AND OIL AND GREASE

AQUA RESOURCES, INC.
BERKELEY, CALIFORNIA

FORMER CORPORATION YARD
FIGURE 3.1

JOB #90239.1 DEC. 1990

UNITED STAMPING

BESLER BUILDING

HOLLIS STREET

N

1'-8" SOIL: □ 12, B 22, T 17 | 6' SOIL: □ 65, B 20, T 55, E 1300, X 130 | 6.5' SOIL: □ 1.1, T 240, X 19

2900 (Naphtaline) µg/kg
4300 (Methylnaphtaline) µg/kg

6' SOIL: □ 300, B 2400, T 2900, E 2900, X 55000 | WATER: 0.82, 10, 67, 17, 77

2'-9" SOIL: T 41 | 4' SOIL: □ 4.2
Flourene 680 µg/l
Benzidine 47000 µg/l

WATER: □ 0.08, B 0.5, T 0.5, X 0.9

Former Excess Material Scrap Pile Area

Former SS-1 Above Ground Tank

6' SOIL: □ 7.9, B 150, T 51, E 85, X 220

B-8 | 2.5' T 11 | B-14 | B-19 | B-25

C-2 5' SOIL 1,1-DCA 2.4

6.5' SOIL: B 41, T 32 | 10.5' SOIL: B 25, T 14, E 30, X 81 | P-4

6-3 | 6-1 | 6-2 | W-2 | 5-1 | 5-2 | 4'-8" □ 9.3

SOIL: □ 6.8, B 7.1, T 63, E 7, X 28

P-2 | 7.5' SOIL T 27 | 10.5' SOIL T 83

Unleaded-1000 gal.
Regular-10,000 gal.

D-15 | 5' SOIL B 7.4 | P-3 | P-1 | W-1

7.5' SOIL: □ 460, B 1300, T 12,000, E 10,000, X 56,000 | 10.5' SOIL: □ 510, T 9000, E 9600, X 54,000

E-19 | WATER: □ 0.18, B 17, T 5, E 1.4, X 4.9 | 6.5' SOIL: □ 2.1, B 15, T 17, E 8, X 11 | 10.5' SOIL: □ 530, T 8,600, E 9,400, X 58,000

6': □ 5.0, B 16, X 18

P-6 | 5.5' SOIL T 15, X 5.8 | 10.5' SOIL T 19

3' SOIL T 15

Former Diesel Racks

4-6 | 5' SOIL □ 4.5 | 4-2 | 4-4 | 4-1 | 4-3 | 4-5

G-17 | WATER: □ 0.2, B 7, T 22, X 13

8-1 | Former Garage | 2'-8" T 9.7 | 8-2 | H-5

Former Above Ground Waste Oil Tank, 350 gal.

W-3 | 3-1 | 4' SOIL: B 26, T 38 | H-3

7-1 | 2.5' SOIL: B 5.7, T 350, TCA 8.4

640 (Methylnaphtalene)

P-5 | Oil Stain | I-7

Former Shop

2-2 | 2-4 | 2-3 | 2-1

6' SOIL: Cl_3FlH 9.1, t-1,2DCE 1.0 WATER

5.5' SOIL T 5.5 | 10.5' SOIL T 12

3.5' SOIL: □ 6.7, T 110, E 15, X 87

0 50 100 150 FEET

SCALE

LEGEND

- 8-2 Test Pit
- P-6 Boring
- W-1 Monitoring Well
- C-2 Soil/Water Sampling, Nov. 5, 6, 7
- Soil Sample Depth: 6.5' □ 7.9 — Type of Contamination / Concentration
- □ TPH as Gasoline — mg/kg or mg/l
- B Benzene
- T Toluene
- E Ethyl Benzene
- X Xylenes
- M Metals

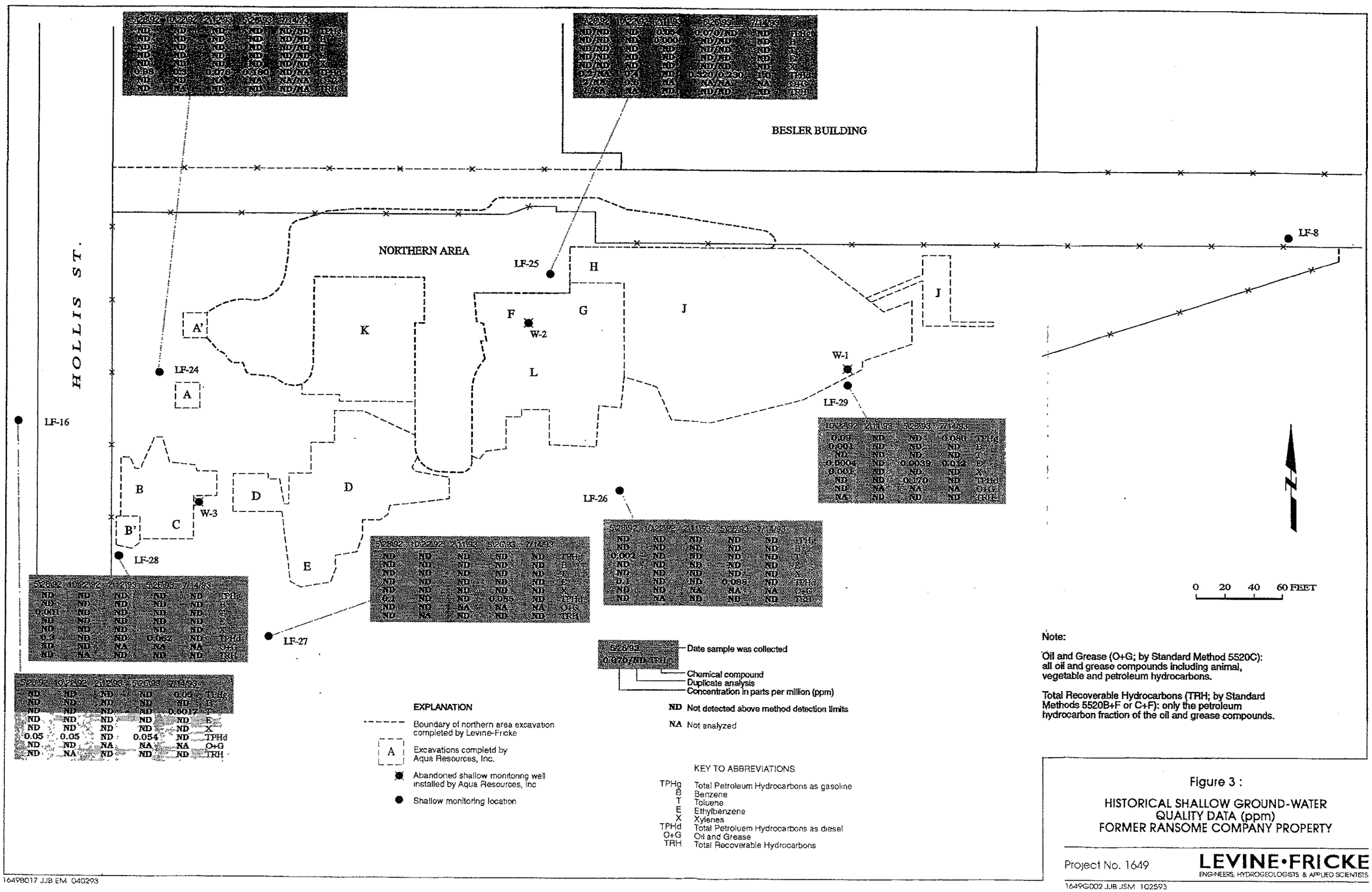
µg/kg or µg/l

CONCENTRATIONS OF TPH AS GASOLINE AND BTXE COMPOUNDS

AQUA RESOURCES, INC.
BERKELEY, CALIFORNIA

FORMER CORPORATION YARD
FIGURE 3.2

JOB #90239.1 DEC. 1990



Note:

Oil and Grease (O+G; by Standard Method 5520C): all oil and grease compounds including animal, vegetable and petroleum hydrocarbons.

Total Recoverable Hydrocarbons (TRH; by Standard Methods 5520B+F or C+F): only the petroleum hydrocarbon fraction of the oil and grease compounds.

Figure 3 :

HISTORICAL SHALLOW GROUND-WATER QUALITY DATA (ppm)
FORMER RANSOME COMPANY PROPERTY

Project No. 1649

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

1649G002 JJB JSM 102593

1649B017 JJB EM 040293

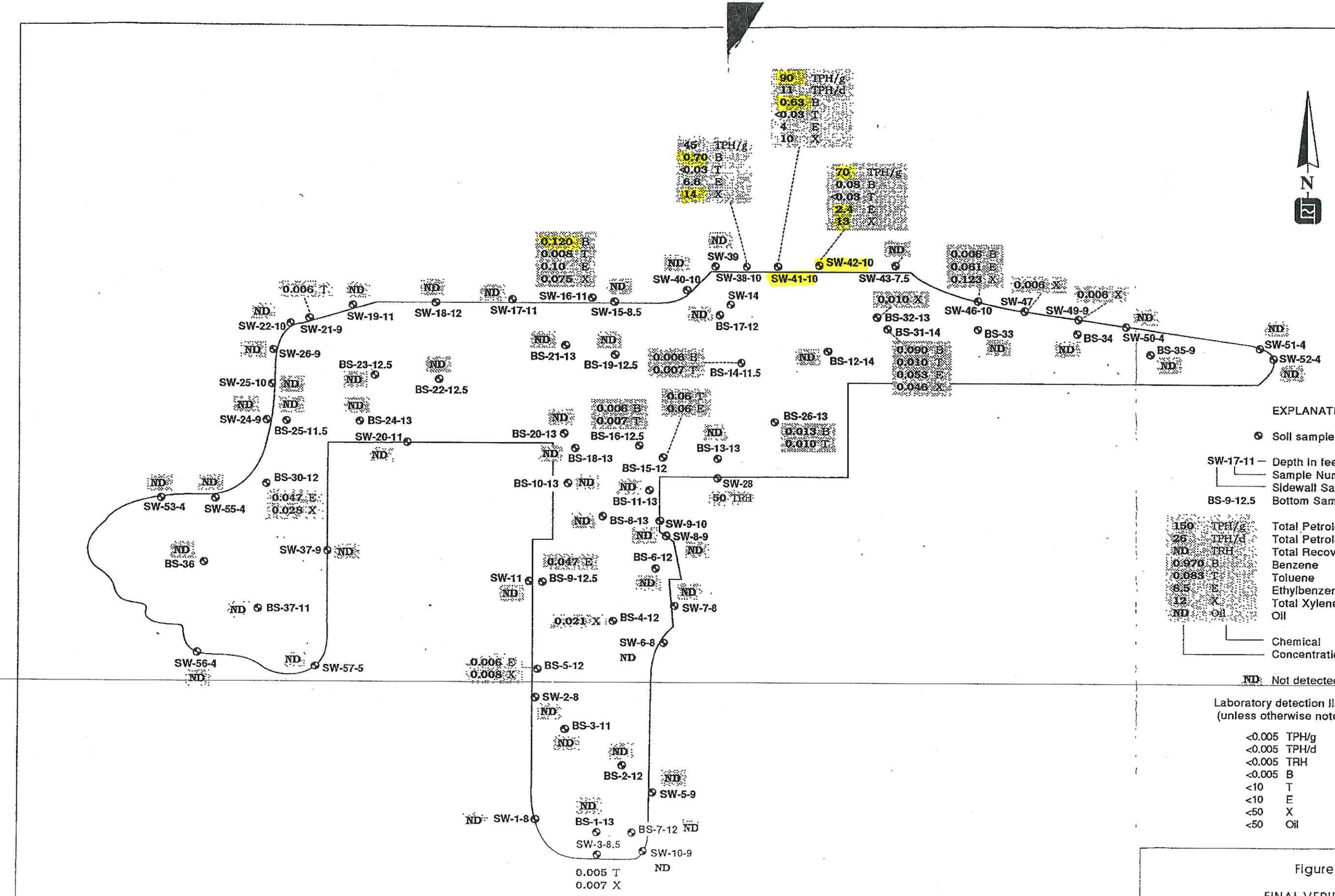


Figure 7 :

FINAL VERIFICATION
SOIL SAMPLE LOCATIONS AND RESULTS
NORTHERN AREA EXCAVATION

Project No. 1649 07

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

30OCT92JJB JUN3/MP-ddd0 9999 01

BESLER BUILDING

HOLLIS STREET

CONCRETE VAULT

EXPLANATION

Excavation boundary

Sampling location (Analytical Result in Table 1)

DB-36-10
- Depth in feet
- Sample number
- B bottom sample
  N,E,W,S North, East, West or South sidewall sample
- Excavation designation

0 20 40 FEET

Figure 3 :
VERIFICATION SOIL SAMPLE LOCATIONS
FOR AREAS EXCAVATED BY
AQUA RESOURCES, INC.
FORMER RANSOME PROPERTY
EMERYVILLE, CALIFORNIA

Project No 1649.07 LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS, & APPLIED SCIENTISTS

1649S012 WEM EM 101392

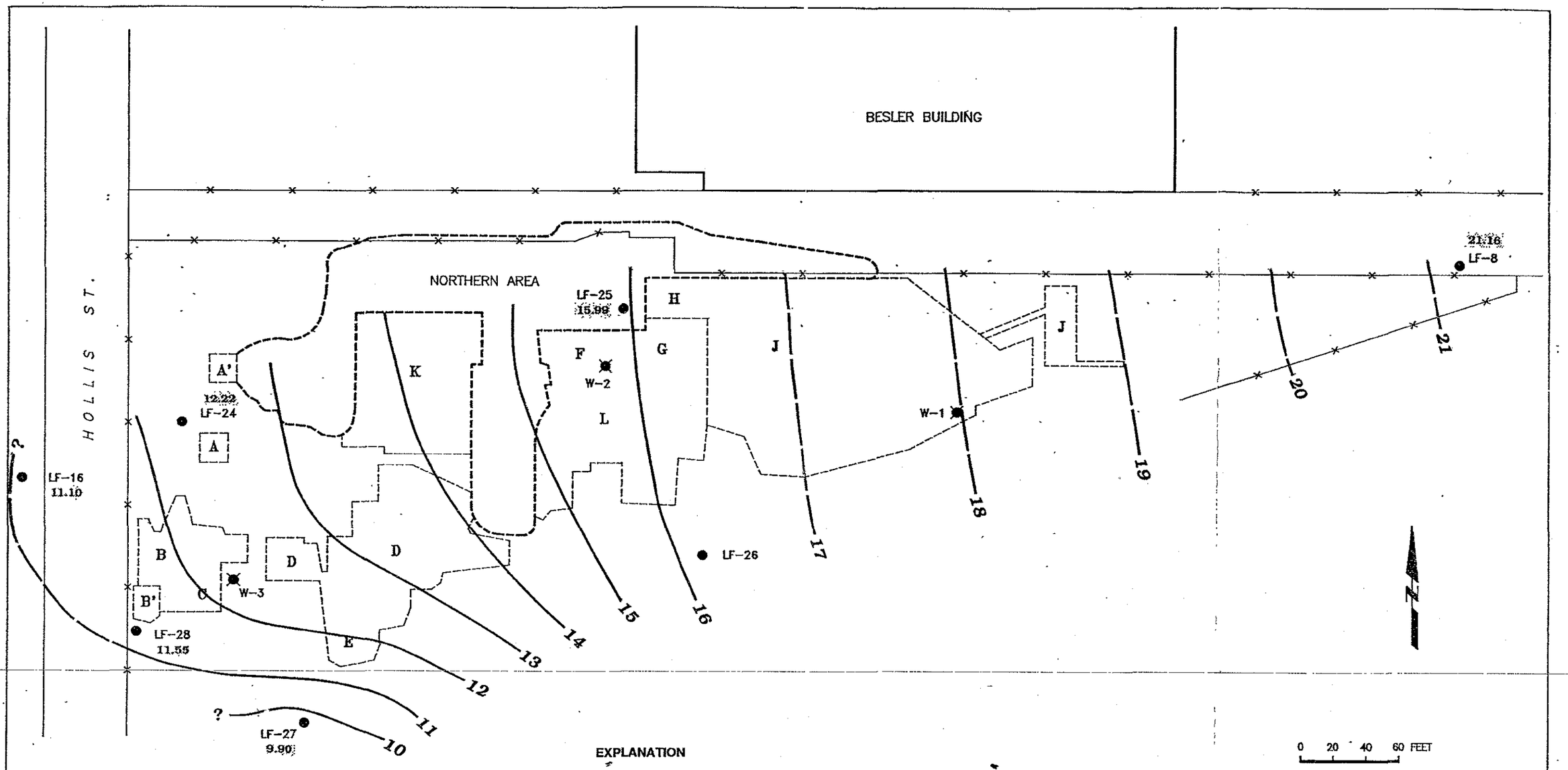


Figure 2A :

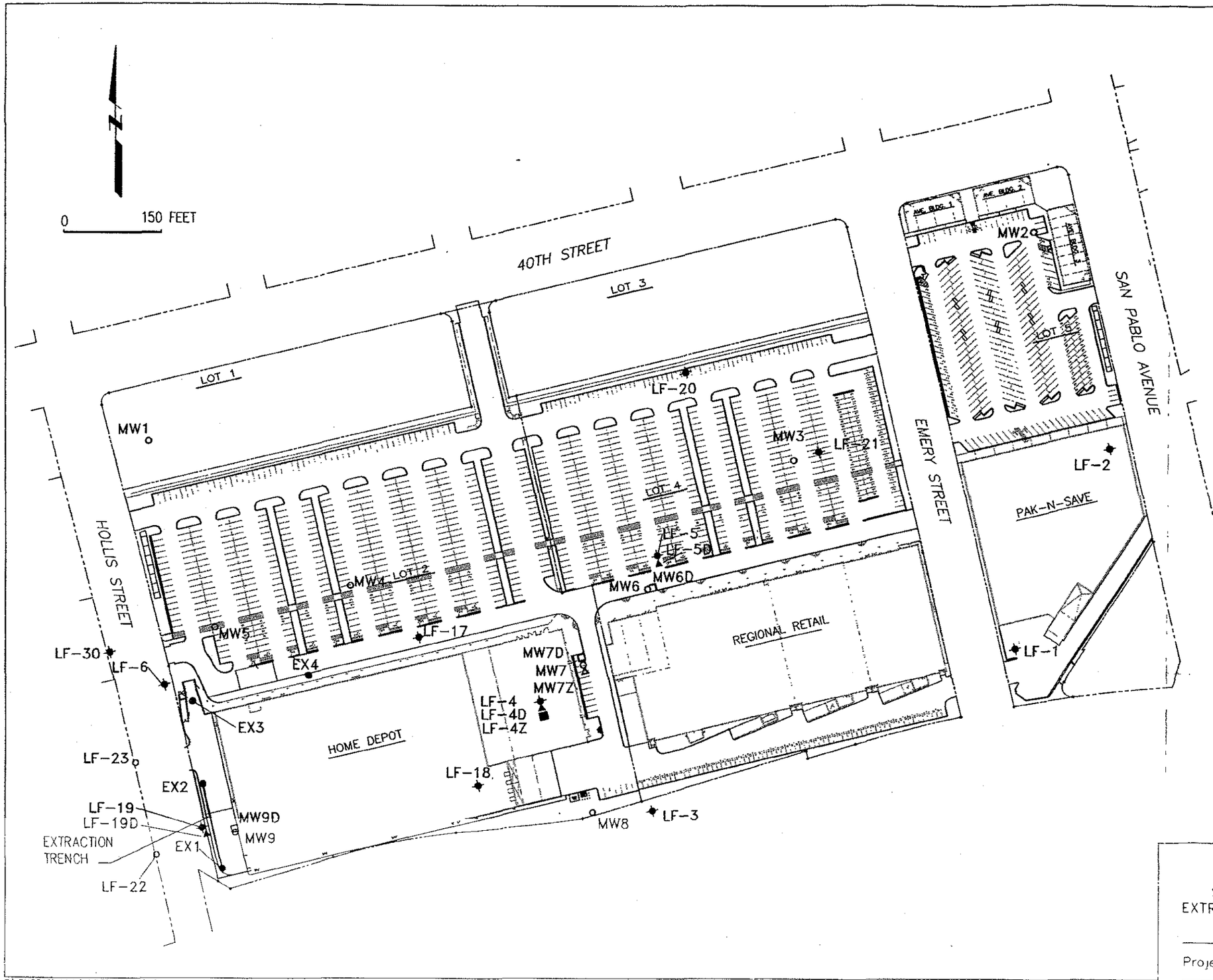
SHALLOW GROUND-WATER ELEVATION
CONTOUR MAP, MAY 14, 1992
FORMER RANSOME COMPANY PROPERTY

Project No. 1649.07

LEVINE•FRICKE
ENGINEERS / HYDROGEOLOGISTS & APPLIED SCIENTISTS

1649S004.WEM:EM 060392

WEM05JUN92MP



EXPLANATION

- ○ SHALLOW MONITORING WELL LOCATION (LESS THAN 30 FEET)
- □ INTERMIDIATE DEPTH MONITORING WELL (35–45 FEET)
- △ DEEPER MONITORING WELL LOCATION (65 FEET)
- ● EXTRACTION WELL
- ✦ FORMER SHALLOW MONITORING WELL LOCATION (LESS THAN 25 FEET)
- ▲ FORMER INTERMIDIATE DEPTH MONITORING WELL LOCATION (35–45 FEET)
- ■ FORMER DEEPER MONITORING WELL LOCATION (62 FEET)

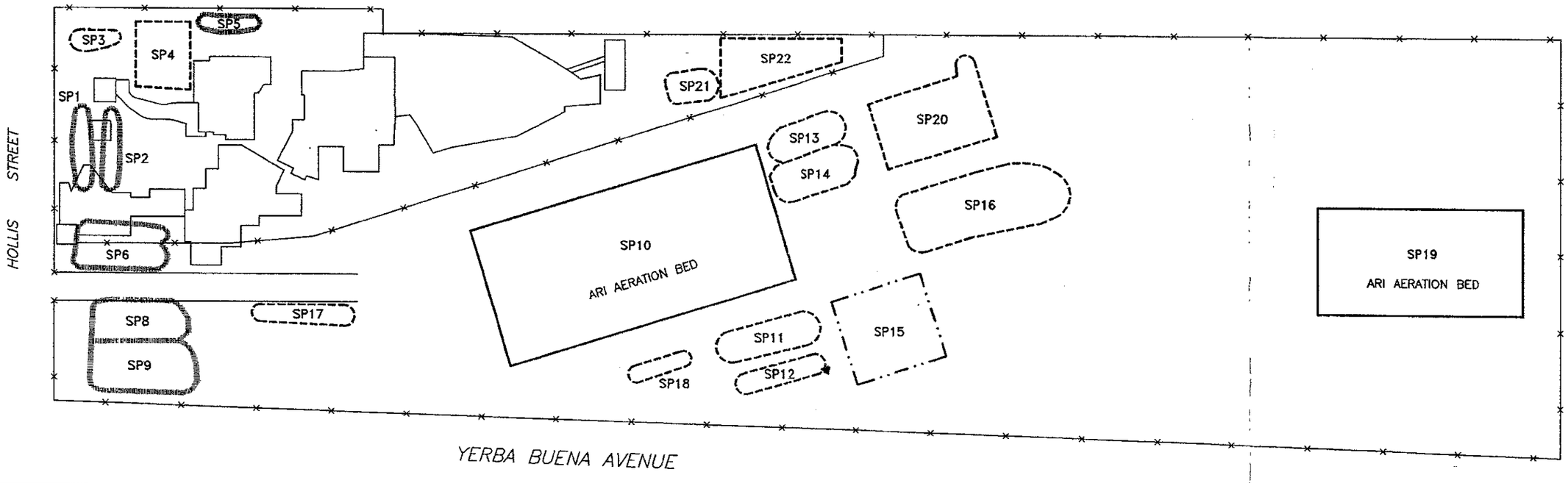
S:\ENGCAD\1649\SITEPL16.DWG GM

Figure 2:

SITE PLAN SHOWING GROUND–WATER EXTRACTION & MONITORING WELL LOCATIONS

Project No 1649

LEVINE·FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS



EXPLANATION

Existing stockpiles (soils to be contained on site)

Successfully aerated soils (used for backfill material or berms)

Soils characterized as below backfill criteria (used for berms)

0 50 100 FEET

Figure 4 :
AQUA RESOURCES, INC.
APPROXIMATE STOCKPILE LOCATIONS
AND AERATION BEDS

Project No 1649.07 LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS, & APPLIED SCIENTISTS

1649S017 JJB EM 102392

TABLE 3
ANALYTICAL RESULTS OF SOIL SAMPLES COLLECTED FROM
TEST PITS AND SOIL BORINGS
(concentrations in parts per million [ppm])

Sample ID	Date Sampled	Lab Analysis Return Date	Total Recoverable Hydrocarbons	Diesel	Oil	O/G	Gasoline	Benzene	Toluene	Ethyl-benzene	Total Xylenes
PHASE I											
TP1-4	16-Oct-91	18-Oct-91	NA	<10	<50	NA	<10	0.028	0.007	0.015	150
TP1-8	16-Oct-91	18-Oct-91	NA	<10	<50	NA	<10	0.06	<0.005	0.060	<0.005
TP1-12	16-Oct-91	18-Oct-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP2-4	16-Oct-91	18-Oct-91	NA	<10	<50	NA	<10	0.360	0.012	0.040	0.200
TP2-8	16-Oct-91	18-Oct-91	NA	60	<50	NA	150	2.700	0.300	21	100
TP2-11	16-Oct-91	18-Oct-91	NA	<10	<50	NA	12	0.090	<0.03	1.30	4.20
TP3-4	17-Oct-91	21-Oct-91	NA	<10	<50	NA	<10	0.028	0.006	<0.005	0.027
TP3-8	17-Oct-91	21-Oct-91	NA	<10	<50	NA	80	0.080	<0.03	<0.03	0.360
TP3-11	17-Oct-91	21-Oct-91	NA	23	<50	NA	80	0.460	0.040	4.20	9.0
TP4-4	17-Oct-91	21-Oct-91	NA	<10	<50	NA	<10	0.070	0.005	0.390	0.430
TP4-8	17-Oct-91	21-Oct-91	NA	<10	<50	NA	<10	0.230	0.017	0.230	0.280
TP4-11	17-Oct-91	21-Oct-91	NA	<10	<50	NA	<10	0.10	0.010	0.480	0.600
TP5-5	17-Oct-91	21-Oct-91	NA	<10	<50	NA	12	0.40	0.007	0.600	0.140
TP5-8	17-Oct-91	21-Oct-91	NA	<10	<50	NA	120	2.70	10	11	57
TP5-11.5	17-Oct-91	21-Oct-91	NA	<10	<50	NA	220	3.30	20	15	72
TP8-4	17-Oct-91	21-Oct-91	NA	<10	<50	NA	<10	<0.005	0.009	<0.005	0.027
TP8-8.5	17-Oct-91	21-Oct-91	NA	<10	<50	NA	<10	<0.005	<0.005	0.030	0.009
TP8-12	17-Oct-91	21-Oct-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	0.009
TP9-4	21-Oct-91	23-Oct-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP9-8	21-Oct-91	23-Oct-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP10-4	21-Oct-91	23-Oct-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP10-8	21-Oct-91	23-Oct-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP11-5	21-Oct-91	23-Oct-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	0.040
TP11-8	21-Oct-91	23-Oct-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP11-12	21-Oct-91	23-Oct-91	NA	55	90	NA	<10	<0.005	<0.005	<0.005	0.230
TP12-4	21-Oct-91	23-Oct-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP12-8	21-Oct-91	23-Oct-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP12-12	21-Oct-91	23-Oct-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP13-4	21-Oct-91	23-Oct-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP13-8	21-Oct-91	23-Oct-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP13-12	21-Oct-91	23-Oct-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP14-4	21-Jan-92	23-Jan-92	1,630	100	1,400	NA	<10	<0.005	<0.005	<0.005	<0.005
TP14-8	21-Jan-92	23-Jan-92	1,880	80	680	NA	<10	<0.005	<0.005	<0.005	<0.005
TP14-12	21-Jan-92	23-Jan-92	<50	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP15-4	21-Jan-92	23-Jan-92	<50	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP15-7.5	21-Jan-92	23-Jan-92	<50	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP15-12	21-Jan-92	23-Jan-92	<50	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005

ATTACHMENT 11

TABLE 3
ANALYTICAL RESULTS OF SOIL SAMPLES COLLECTED FROM
TEST PITS AND SOIL BORINGS
(concentrations in parts per million [ppm])

Sample ID	Date Sampled	Lab Analysis Return Date	Total Recoverable Hydrocarbons	Diesel	Oil	O/G	Gasoline	Benzene	Toluene	Ethyl-benzene	Total Xylenes
TP16-14	31-Jan-92	03-Feb-92	<50	40	240	NA	<10	<0.005	<0.005	<0.005	<0.005
TP17-12	04-Feb-92	06-Feb-92	<50	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP18-3.5	04-Feb-92	06-Feb-92	2,650	130*	800	NA	<10	<0.005	<0.005	<0.005	<0.005
TP18-8	04-Feb-92	06-Feb-92	2,000	160*	1,300	NA	<10	<0.005	<0.005	<0.005	<0.005
TP19-4	04-Feb-92	06-Feb-92	<50	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
TP20-4	04-Feb-92	06-Feb-92	<50	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
PHASE II											
SB1-4	08-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SB1-8	08-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SB1-12	08-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SB2-4	08-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SB2-8	08-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SB2-12	08-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SB3-2	08-Nov-91	12-Nov-91	NA	<10	<50	NA	<10	<0.005	0.023	0.010	0.034
SB3-6	08-Nov-91	12-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB3-10	08-Nov-91	12-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB4-2	08-Nov-91	12-Nov-91	NA	<10	<50	NA	<10	<0.005	0.009	<0.005	<0.005
SB4-6	08-Nov-91	12-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB4-10	08-Nov-91	12-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB5-2	08-Nov-91	12-Nov-91	NA	<10	<50	NA	<10	<0.005	0.015	<0.005	<0.005
SB5-6	08-Nov-91	12-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB5-10	08-Nov-91	12-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB6-2	08-Nov-91	12-Nov-91	NA	<10	<50	NA	<10	<0.005	0.007	<0.005	<0.005
SB6-6	08-Nov-91	12-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB6-10	08-Nov-91	12-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB7-2	07-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	0.015
SB7-6	07-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	0.080	<0.005	0.210	0.220
SB7-10	07-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	0.031	0.150
SB8-2	07-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB8-6	07-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB8-10	07-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB9-2	07-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB9-6	07-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB9-10	07-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB10-2	07-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB10-6	07-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB10-10	07-Nov-91	18-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005

TABLE 3
ANALYTICAL RESULTS OF SOIL SAMPLES COLLECTED FROM
TEST PITS AND SOIL BORINGS
(concentrations in parts per million [ppm])

Sample ID	Date Sampled	Lab Analysis Return Date	Total Recoverable Hydrocarbons	Diesel	Oil	O/G	Gasoline	Benzene	Toluene	Ethyl-benzene	Total Xylenes
SB12-4	08-Nov-91	12-Nov-91	NA	<10	<50	NA	<10	0.006	<0.005	<0.005	<0.005
SB12-8	08-Nov-91	12-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB12-12	08-Nov-91	12-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	<0.005
SB14-4	08-Nov-91	12-Nov-91	NA	21	<50	NA	<10	<0.005	<0.005	<0.005	0.015
SB14-8	08-Nov-91	12-Nov-91	NA	25.9	<50	NA	41.0	2.400	0.530	11	7
SB14-12	08-Nov-91	12-Nov-91	NA	<10	<50	NA	<10	0.230	0.036	2.40	0.70
Test pits excavated by Aqua Resources:											
TP-J-1	26-Jul-91	02-Aug-91	NA	NA	NA	NA	60	0.130	0.034	1.40	2.80
TP-J-2	26-Jul-91	02-Aug-91	NA	NA	NA	NA	270	0.82	<0.080	3.60	2.50
TP-J-3	26-Jul-91	02-Aug-91	NA	NA	NA	NA	640	3.30	8.80	17.0	76.0
TP-J-4	30-Jul-91	06-Aug-91	NA	4.4	NA	72	<1	<0.005	<0.005	<0.005	<0.005
TP-J-5	30-Jul-91	06-Aug-91	NA	9.6	NA	410	29	0.076	<0.010	0.034	0.043
TP-J-6	30-Jul-91	06-Aug-91	NA	500	NA	330	11000	9.50	<4.0	180.0	780.0
TP-J-7	30-Jul-91	06-Aug-91	NA	<1	NA	<50	1.6	<0.005	<0.005	<0.005	0.0091
TP-J-8	30-Jul-91	06-Aug-91	NA	<1	NA	<50	<1	<0.005	<0.005	<0.005	0.0061

NOTES:
* In diesel range not characteristic of diesel.
O/G - Oil and grease
NA - Not analyzed

Soil samples collected by Levine-Fricke were submitted to Precision Analytical Laboratory, Inc. of Richmond, California, for analysis of gasoline using Modified EPA Method 8015; BTEX compounds using EPA Method 8020; diesel and oil using EPA Method 8015; and total recoverable hydrocarbons using Standard Method 5520f.

Soil samples collected by Aqua Resources were submitted to Curtis & Tompkins, Ltd., of Berkeley, California, for analysis of gasoline and BTEX compounds using EPA Methods 5030/8020; diesel using Modified EPA Method 8015; and oil and grease using Standard Method 5520e and f.

TABLE 2
SOIL QUALITY DATA SUMMARY
YERBA BUENA SITE, EMERYVILLE, CALIFORNIA
(Concentrations expressed as mg/kg unless otherwise indicated)

Sample Number	Date Sampled	LAB	(LEAD) EPA Method 7420	(ZINC) EPA Method 7950	(PCBs) EPA METHOD 8080	EPA METHOD 8015 Extractable Hydrocarbons as Diesel	EPA METHOD 8015 Extractable Hydrocarbons as Oil
BN2-2	26-Jun-91	Clayton	NA	NA	2.7	NA	NA
BN3-2	26-Jun-91	Clayton	NA	NA	4.1	NA	NA
BE1-2	26-Jun-91	Clayton	NA	NA	ND <0.03	NA	NA
BW1-2	26-Jun-91	Clayton	NA	NA	ND <0.03	NA	NA
BN4-2	27-Jun-91	Clayton	NA	NA	24	NA	NA
BN5-2	27-Jun-91	Clayton	NA	NA	28	NA	NA
BN6-2	27-Jun-91	Clayton	NA	NA	0.25	NA	NA
BN7-2	27-Jun-91	Clayton	NA	NA	0.21	NA	NA
BE4-2	27-Jun-91	Clayton	NA	NA	0.19	NA	NA
BE3-2	27-Jun-91	Clayton	NA	NA	0.08	NA	NA
B-TPH-1	26-Jun-91	Med-Tox	NA	NA	NA	70	2,300
B-TPH-2	26-Jun-91	Med-Tox	NA	NA	NA	170	2,100
B-TPH-3	28-Jun-91	C.T.	NA	NA	NA	ND <100	ND <100
B-TPH-4	28-Jun-91	C.T.	NA	NA	NA	ND <100	ND <100
B-TPH-5	28-Jun-91	C.T.	NA	NA	NA	62	210
B-TPH-6	28-Jun-91	C.T.	NA	NA	NA	110	280
B-TPH-7	28-Jun-91	C.T.	NA	NA	NA	2.1	ND <100
AREA C - near former well LF-9							
C1-2	25-Jun-91	Med-Tox	NA	NA	NA	ND <10	450
C1-4	25-Jun-91	Med-Tox	NA	NA	NA	ND <10	ND <20

TABLE 2
SOIL QUALITY DATA SUMMARY
YERBA BUENA SITE, EMERYVILLE, CALIFORNIA
(Concentrations expressed as mg/kg unless otherwise indicated)

Sample Number	Date Sampled	LAB	(LEAD) EPA Method 7420	(ZINC) EPA Method 7950	(PCBs) EPA METHOD 8080	EPA METHOD 8015 Extractable Hydrocarbons as Diesel	EPA METHOD 8015 Extractable Hydrocarbons as Oil
AREA A							
AE1-3	25-Jun-91	Med-Tox	10	NA	NA	NA	NA
AE2-3	25-Jun-91	Med-Tox	9	NA	NA	NA	NA
AS1-3	25-Jun-91	Med-Tox	12	NA	NA	NA	NA
AF1-5	26-Jun-91	Med-Tox	8	NA	NA	NA	NA
AF2-5	26-Jun-91	Med-Tox	7	NA	NA	NA	NA
AW1-3	26-Jun-91	Med-Tox	9	NA	NA	NA	NA
AS2-3	26-Jun-91	Med-Tox	150	NA	NA	NA	NA
AN1-2	26-Jun-91	Med-Tox	92	NA	NA	NA	NA
AN2-2	26-Jun-91	Med-Tox	13	NA	NA	NA	NA
AW2-2	26-Jun-91	Med-Tox	10	NA	NA	NA	NA
A-TPH-1	26-Jun-91	Med-Tox	NA	NA	NA	ND	910
A-TPH-2	26-Jun-91	Med-Tox	NA	NA	NA	ND	590
AREA B							
BS1-2	26-Jun-91	Clayton	NA	NA	ND ✓	NA	NA
BS2-2	26-Jun-91	Clayton	NA	NA	0.12 ✓	NA	NA
BS3-2	26-Jun-91	Clayton	NA	NA	0.06 ✓	NA	NA
BF1-2	26-Jun-91	Clayton	NA	NA	0.20 ✓	NA	NA
BF2-2	26-Jun-91	Clayton	NA	NA	ND <0.03	NA	NA
BF3-2	26-Jun-91	Clayton	NA	NA	ND <0.03	NA	NA
BN1-1	26-Jun-91	Clayton	NA	NA	0.08 ✓	NA	NA

1991-11-19

B-14 → B-33

TABLE 6A

METAL COMPOUNDS DETECTED IN SOIL SAMPLES
PHASE I INVESTIGATION
YERBA BUENA SITE, EMERYVILLE, CALIFORNIA

(concentrations in ppm)

SAMPLE LOCATION ID.	SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH (feet)	Sb	As	Be	Cd	Cr	Cu	Pb	Hg	Ni	Se	Ag	Tl	Zn
A19	A19(3)B	05-Feb-90	3.0	ND	0.9	0.6	ND	42	29	18	ND	37	1	ND	ND	55
A20	A20(1)A	05-Feb-90	1.0	ND	3.4	0.2	1.5	51	640	290	0.5	36	ND	ND	ND	410
A20	A20(2.5)B	05-Feb-90	2.5	ND	0.9	0.4	ND	41	21	11	ND	34	ND	ND	ND	50
A21	A21(2.5)B	05-Feb-90	2.5	ND	0.9	0.3	0.4	37	340	560	ND	31	1	ND	ND	320
A22	A22(1)A	05-Feb-90	1.0	ND	1.1	ND	0.4	31	120	130	1.9	33	ND	ND	ND	120
A22	A22(4)B	05-Feb-90	4.0	ND	ND	0.3	ND	35	40	39	ND	31	ND	ND	ND	48
A23	A23(3)B	25-Jan-90	3.0	ND	12	0.9	0.2	28	12	10	ND	22	ND	ND	ND	23
A24	A24(17)C	23-Jan-90	17.0	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	NA
B1	B1(4)B	29-Jan-90	4.0	ND	3.7	0.4	0.3	45	19	7	ND	50	ND	ND	ND	46
B2	B2(4)B	29-Jan-90	4.0	ND	2.3	0.4	ND	29	17	4	ND	20	ND	ND	ND	26
B6	B6(4)B	26-Jan-90	4.0	ND	26	0.4	0.7	54	38	59	ND	68	ND	ND	ND	230
B7	B7(1.5)A	26-Jan-90	1.5	ND	7.1	0.2	0.2	34	24	19	0.3	38	ND	ND	ND	86
B8	B8(3.5)B	30-Jan-90	3.5	ND	1.8	0.4	ND	42	25	5	ND	32	ND	ND	ND	36
B9	B9(1.5)A	26-Jan-90	1.5	ND	34	0.3	ND	24	23	9	ND	30	ND	ND	ND	53
B10	B10(4.5)B	30-Jan-90	4.5	ND	2.2	0.7	0.4	40	25	9	ND	41	ND	ND	ND	64
B11	B11(1.5)A	26-Jan-90	1.5	ND	8.9	0.4	0.2	61	30	30	ND	64	ND	ND	ND	61
B12	B12(3.5)A	29-Jan-90	3.5	ND	15	0.4	0.3	38	20	7	ND	42	ND	ND	ND	55
B16	B16(3.5)A	29-Jan-90	3.5	ND	23	ND	ND	14	14	15	ND	16	ND	ND	ND	39
B16	B16(9.5)C	29-Jan-90	9.5	ND	6.1	0.6	0.3	43	17	5	ND	43	ND	ND	ND	43
B19	B19(1)A	01-Feb-90	1.0	ND	1.6	0.3	ND	20	26	13	ND	30	2	ND	ND	52
B19	B19(5)B	01-Feb-90	5.0	ND	0.9	0.5	0.2	42	22	5	ND	37	ND	ND	ND	40
B21	B21(1)A	01-Feb-90	1.0	ND	2.4	ND	0.6	24	38	110	ND	27	1	ND	ND	320

TABLE 6A

METAL COMPOUNDS DETECTED IN SOIL SAMPLES
PHASE I INVESTIGATION
YERBA BUENA SITE, EMERYVILLE, CALIFORNIA

(concentrations in ppm)

SAMPLE LOCATION ID	SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH (feet)	Sb	As	Be	Cd	Cr	Cu	Pb	Hg	Ni	Se	Ag	Tl	Zn
B22	B22(1.5)	02-Feb-90	1.5	NA	NA	NA	NA	NA	NA	330	NA	NA	NA	NA	NA	NA
B25	B25(1)A	29-Jan-90	1.0	ND	31	0.5	0.4	77	60	44	ND	93	ND	ND	ND	110
B25	B25(3.5)B	29-Jan-90	3.5	ND	2.6	0.6	ND	31	17	5	ND	26	ND	ND	ND	29
B26	B26(3.5)B	29-Jan-90	3.5	ND	2.4	0.3	ND	42	16	4	ND	26	ND	ND	ND	30
B27	B27(3.5)B	23-Feb-90	3.5	ND	1.4	0.5	ND	31	14	4	ND	24	ND	ND	ND	24
B29	B29(3)A	22-Feb-90	3.0	ND	5	0.3	0.2	32	27	31	ND	35	ND	ND	ND	61
B29	B29(4.5)B	22-Feb-90	4.5	ND	4	0.3	ND	35	15	5	ND	31	ND	ND	ND	30
B30	B30(4)B	22-Feb-90	4.0	ND	ND	0.2	ND	30	14	5	ND	26	ND	ND	ND	29
B31	B31(2)A	22-Feb-90	2.0	ND	2	0.3	0.5	38	38	21	0.2	38	ND	ND	ND	180
B34	B34(3.5)B	30-Jan-90	3.5	ND	3.5	0.6	0.4	44	35	22	ND	45	ND	ND	ND	74
B35	B35(1.5)A	29-Jan-90	1.5	ND	3.1	ND	ND	11	17	14	ND	13	ND	ND	ND	34
B35	B35(4)B	29-Jan-90	4.0	ND	2.8	0.5	0.3	37	23	8	ND	38	ND	ND	ND	45
C1	C1(3.5)B	31-Jan-90	3.5	ND	2.0	0.3	ND	30	12	5	ND	15	ND	ND	ND	24
C2	C2(1)A	30-Jan-90	1.0	ND	25	2.1	0.2	36	30	56	0.2	31	ND	ND	ND	89
C2	C2(4)B	30-Jan-90	4.0	ND	3	0.5	ND	36	13	6	0.2	24	ND	ND	ND	28
C3	C3(4)B	31-Jan-90	4.0	ND	3.8	0.4	ND	34	15	6	ND	24	ND	ND	ND	30
C4	C4(4)B	30-Jan-90	4.0	ND	1.6	0.4	ND	30	9	4	ND	18	ND	ND	ND	18
C5	C5(4)B	30-Jan-90	4.0	ND	1.6	0.4	ND	39	16	4	ND	21	ND	ND	ND	30
C6	C6(1)A	15-Feb-90	1.0	ND	ND	0.3	0.2	39	21	14	ND	33	ND	ND	ND	42
C6	C6(3)B	15-Feb-90	3.0	ND	ND	0.4	ND	43	11	4	ND	32	ND	ND	ND	25
C7	C7(4)B	31-Jan-90	4.0	ND	2.1	0.6	ND	42	15	5	ND	25	ND	ND	ND	32
C8	C8(4)B	06-Feb-90	4.0	ND	1.3	0.4	0.3	33	29	27	ND	38	ND	ND	ND	68

TABLE 6B

SEMI-VOLATILE ORGANIC CHEMICALS DETECTED IN SOIL SAMPLES
PHASE I INVESTIGATION
YERBA BUENA SITE, EMERYVILLE, CALIFORNIA

(concentrations in ppm)

SAMPLE LOCATION ID	SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH (feet)	Notes	PYRENE	PCB AROCLOR 1260
B3	B3(1.5)A	26-Jan-90	1.5		ND	NA
B5	B5(5)B	26-Jan-90	5.0		ND	NA
B6	B6(4)B	26-Jan-90	4.0		ND	NA
B7	B7(1.5)A	26-Jan-90	1.5		0.39	NA
B8	B8(3.5)B	30-Jan-90	3.5		ND	NA
B9	B9(1.5)A	26-Jan-90	1.5		ND	NA
B10	B10(4.5)B	30-Jan-90	4.5		ND	NA
B11	B11(1.5)A	29-Jan-90	1.5		ND	NA
B12	B12(3.5)A	29-Jan-90	3.5		ND	NA
B15	B15(4)B	02-Feb-90	4.0		ND	++ND
B16	B16(3.5)A	29-Jan-90	3.5		ND	NA
B16	B16(9.5)C	29-Jan-90	9.5		ND	NA
B19	B19(1)A	01-Feb-90	1.0		ND	NA
B19	B19(5)B	01-Feb-90	5.0		ND	ND
B20	B20(4)B	01-Feb-90	4.0		ND	NA
B21	B21(1)A	01-Feb-90	1.0		ND	NA
B21	B21(4)B	01-Feb-90	4.0		ND	NA
B21	B21(7.5)C	01-Feb-90	7.5		ND	NA
B22	B22(1.5)	02-Feb-90	1.5		ND	++ND
B24	B24(8.5)C	22-Feb-90	8.5		ND	NA
B25	B25(1)A	29-Jan-90	1.0		NA	0.38

TABLE 6B

SEMI-VOLATILE ORGANIC CHEMICALS DETECTED IN SOIL SAMPLES
PHASE I INVESTIGATION
YERBA BUENA SITE, EMERYVILLE, CALIFORNIA

(concentrations in ppm)

SAMPLE LOCATION ID	SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH (feet)	Notes	PYRENE	PCB AROCLOR 1260
B26	B26(.5)A	29-Jan-90	0.5		NA	5.4
B26	B26(3.5)B	29-Jan-90	3.5		ND	ND
B27	B27(3.5)B	22-Feb-90	3.5		NA	ND
B30	B30(4)B	21-Feb-90	4.0		NA	ND
B32	B32(1.5)A	21-Feb-90	1.5		NA	ND
B34	B34(3.5)B	30-Jan-90	3.5		ND	ND
B35	B35(4)B	29-Jan-90	4.0		ND	NA
C1	C1(3.5)B	31-Jan-90	3.5		ND	NA
C2	C2(4)B	30-Jan-90	4.0		ND	NA
C3	C3(4)B	31-Jan-90	4.0		ND	NA
C4	C4(4)B	30-Jan-90	4.0		ND	NA
C5	C5(4)B	30-Jan-90	4.0		ND	NA
C6	C6(1)A	15-Feb-90	1.0		NA	ND
C6	C6(3)B	15-Feb-90	3.0		NA	ND
C7	C7(4)B	31-Jan-90	4.0		NA	ND
C8	C8(4)B	06-Feb-90	4.0		ND	NA
C12	C12(3.5)B	31-Jan-90	3.5		ND	+ND
C15	C15(.5)A	31-Jan-90	0.5		ND	NA
C15	C15(4)B	31-Jan-90	4.0		ND	+ND
C16	C16(4)B	31-Jan-90	4.0		NA	ND

TABLE 6C

VOLATILE ORGANIC COMPOUNDS DETECTED IN SOIL SAMPLES
PHASE I INVESTIGATION
YERBA BUENA SITE, EMERYVILLE, CALIFORNIA

(concentrations in ppm)

SAMPLE LOCATION ID	NOTES	SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH (feet)	ACE	B	T	E	X	1,1-DCA	1,1-DCE	TCE	1,2-DCE
A1	(1)	A1(14)C	22-Jan-90	14.0	ND	ND	0.019	ND	ND	NA	NA	NA	NA
A1	(1)	A1(17.5)C	22-Jan-90	17.5	ND	ND	ND	ND	ND	NA	NA	NA	NA
A5		A5(2)A	24-Jan-90	2.0	ND	*ND	*ND	*ND	**ND	ND	ND	ND	ND
A5		A5(3.5)B	24-Jan-90	3.5	ND	*ND	0.007	*ND	**ND	ND	ND	ND	ND
A6		A6(25)C	24-Jan-90	25.0	ND	*ND	*ND	*ND	*ND	ND	ND	ND	ND
A11		A11(4)B	05-Feb-90	4.0	ND	*ND	0.2	*ND	**ND	ND	ND	ND	ND
A14		A14(19.5)C	25-Jan-90	19.5	ND	*ND	*ND	*ND	**ND	ND	ND	ND	ND
A15		A15(4.5)B	25-Jan-90	4.5	ND	*ND	0.034	*ND	**ND	ND	ND	ND	ND
A15		A15(9.5)	25-Jan-90	9.5	ND	*ND	0.016	*ND	**ND	ND	ND	ND	ND
A18		A18(4)B	05-Feb-90	4.0	ND	*ND	0.21	*ND	**ND	ND	ND	ND	ND
A23		A23(3)B	25-Jan-90	3.0	ND	*ND	0.054	*ND	**ND	ND	ND	ND	ND
A24	(1)	A24(17)C	23-Jan-90	17.0	ND	ND	0.015	ND	ND	NA	NA	NA	NA
A24	(1)	A24(3.5)B	23-Jan-90	3.5	ND	ND	0.03	ND	ND	NA	NA	NA	NA
B2		B2(4)B	29-Jan-90	4.0	ND	*ND	0.01	*ND	**ND	0.006	0.009	ND	ND
B4		B4(3)B	26-Jan-90	3.0	ND	*ND	0.29	*ND	**ND	ND	ND	ND	ND
B4		B4(7.5)C	26-Jan-90	7.5	ND	*ND	0.024	0.019	**ND	ND	ND	ND	ND
B5		B5(5)B	26-Jan-90	5.0	ND	*ND	*ND	*ND	**ND	ND	ND	ND	ND
B8		B8(3.5)B	30-Jan-90	3.5	ND	*ND	0.062	*ND	**ND	ND	ND	ND	ND
B10		B10(4.5)B	30-Jan-90	4.5	ND	*ND	0.028	*ND	**ND	ND	ND	ND	ND
B12		B12(3.5)A	29-Jan-90	3.5	ND	*ND	0.032	*ND	**ND	ND	ND	ND	ND
B14A	(1)	B14A(4)B	02-Feb-90	4.0	ND	*ND	0.25	*ND	***ND	NA	NA	NA	NA
B14A	(1)	B14A(9)C	02-Feb-90	9.0	ND	++ND	0.025	++ND	+++ND	NA	NA	NA	NA
B14B	(1)	B14B(4)B	01-Feb-90	4.0	ND	ND	0.36	ND	ND	NA	NA	NA	NA

TABLE 6C

VOLATILE ORGANIC COMPOUNDS DETECTED IN SOIL SAMPLES
PHASE I INVESTIGATION
YERBA BUENA SITE, EMERYVILLE, CALIFORNIA

(concentrations in ppm)

SAMPLE LOCATION ID	NOTES	SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH (feet)	ACE	B	T	E	X	1,1-DCA	1,1-DCE	TCE	1,2-DCE
B14B	(1)	B14B(7.5)C	01-Feb-90	7.5	ND	0.83	2.5	3.1	16	NA	NA	NA	NA
B15	(1)	B15(4)B	02-Feb-90	4.0	ND	100	200	190	910	NA	NA	NA	NA
B15	(1)	B15(4)B	02-Feb-90	4.0	ND	91	240	300	1000	NA	NA	NA	NA
B15	(1)	B15(9)C	02-Feb-90	9.0	ND	3.8	31	13	72	NA	NA	NA	NA
B16	(1)	B16(9.5)C	29-Jan-90	9.5	ND	ND	0.19	ND	ND	NA	NA	NA	NA
B17	(1)	B17(9)C	02-Feb-90	9.0	ND	2	8.7	4.9	21	NA	NA	NA	NA
B27		B27(3.5)B	22-Feb-90	3.5	ND	*ND	0.02	*ND	*ND	ND	ND	ND	ND
B29		B29(3)A	21-Feb-90	3.0	ND	*ND	ND	*ND	*ND	ND	ND	ND	ND
B29		B29(4.5)B	21-Feb-90	4.5	ND	*ND	0.026	*ND	*ND	ND	ND	ND	ND
B30		B30(2)A	21-Feb-90	2.0	ND	*ND	0.2	*ND	*ND	ND	ND	ND	ND
B30		B30(4)B	21-Feb-90	4.0	0.15	*ND	0.036	*ND	*ND	ND	ND	ND	ND
B31		B31(2)A	21-Feb-90	2.0	ND	*ND	0.053	*ND	*ND	ND	ND	ND	ND
B31		B31(5.5)B	21-Feb-90	5.5	ND	*ND	0.025	*ND	*ND	ND	ND	ND	ND
B33		B33(2)A	21-Feb-90	2.0	0.22	*ND	0.29	*ND	0.071	ND	ND	ND	ND
B33		B33(10)C	21-Feb-90	10.0	ND	*ND	0.055	*ND	*ND	ND	ND	ND	ND
B34		B34(3.5)B	30-Jan-90	3.5	ND	*ND	0.081	*ND	**ND	ND	ND	ND	ND
B35		B35(4)B	29-Jan-90	4.0	ND	*ND	0.018	*ND	**ND	ND	ND	ND	ND
C1		C1(3.5)B	31-Jan-90	3.5	ND	*ND	*ND	*ND	**ND	ND	ND	ND	ND
C5		C5(4)B	30-Jan-90	4.0	ND	*ND	0.013	*ND	**ND	ND	ND	ND	ND
C8		C8(4)B	06-Feb-90	4.0	ND	*ND	0.54	*ND	**ND	ND	ND	ND	ND
C9	(1)	C9(3.5)B	08-Feb-90	3.5	ND	ND	ND	ND	ND	NA	NA	NA	NA
C9	(1)	C9(9)C	08-Feb-90	9.0	ND	ND	ND	ND	ND	NA	NA	NA	NA
C10	(1)	C10(4)B	08-Feb-90	4.0	ND	ND	0.045	ND	ND	NA	NA	NA	NA
C10	(1)	C10(9.5)C	08-Feb-90	9.5	ND	ND	ND	ND	ND	NA	NA	NA	NA

TABLE 60

PETROLEUM HYDROCARBONS DETECTED IN SOIL SAMPLES
PHASE I INVESTIGATION
YERBA BUENA SITE, EMERYVILLE, CALIFORNIA

(concentrations in ppm)

SAMPLE LOCATION ID	SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH (feet)	GASOLINE	DIESEL	WASTE OIL	KEROSENE	STODDARD SOLVENT	TOTAL OIL AND GREASE
A22	A22(1)A	05-Feb-90	1.0	NA	ND	1300	NA	NA	NA
A22	A22(4)B	05-Feb-90	4.0	NA	ND	800	NA	NA	NA
A23	A23(3)B	25-Jan-90	3.0	NA	ND	ND	NA	NA	NA
A24	A24(17)C	23-Jan-90	17.0	ND	ND	ND	ND	ND	NA
A24	A24(3.5)B	23-Jan-90	3.5	ND	ND	ND	ND	ND	NA
B1	B1(4)B	29-Jan-90	4.0	NA	ND	ND	NA	NA	NA
B2	B2(4)B	29-Jan-90	4.0	NA	ND	180	NA	NA	NA
B3	B3(1.5)A	26-Jan-90	1.5	NA	ND	ND	NA	NA	NA
B4	B4(3)B	26-Jan-90	3.0	ND	ND	220	ND	ND	NA
B4	B4(7.5)C	26-Jan-90	7.5	**ND	ND	60	110	ND	NA
B5	B5(5)B	26-Jan-90	5.0	NA	ND	ND	NA	NA	NA
B6	B6(4)B	26-Jan-90	4.0	NA	ND	410	NA	NA	NA
B7	B7(1.5)A	26-Jan-90	1.5	NA	++ND	1200	NA	50	NA
B7	B7(4)B	26-Jan-90	4.0	NA	ND	ND	ND	ND	NA
B8	B8(3.5)B	30-Jan-90	3.5	NA	ND	ND	NA	NA	NA
B9	B9(1.5)A	26-Jan-90	1.5	NA	ND	ND	NA	NA	NA
B10	B10(4.5)B	30-Jan-90	4.5	NA	ND	20	NA	NA	NA
B11	B11(1.5)A	26-Jan-90	1.5	NA	++ND	490	NA	NA	NA
B12	B12(3.5)A	29-Jan-90	3.5	NA	ND	ND	NA	NA	NA
B13	B13(9.5)C	29-Jan-90	9.5	*ND	ND	ND	ND	ND	NA
B14A	B14A(4)B	02-Feb-90	4.0	3.0	ND	20	ND	ND	NA

TABLE 6D

PETROLEUM HYDROCARBONS DETECTED IN SOIL SAMPLES
PHASE I INVESTIGATION
YERBA BUENA SITE, EMERYVILLE, CALIFORNIA

(concentrations in ppm)

SAMPLE LOCATION ID	SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH (feet)	GASOLINE	DIESEL	WASTE OIL	KEROSENE	STODDARD SOLVENT	TOTAL OIL AND GREASE
B14A	B14A(9)C	02-Feb-90	9.0	ND	ND	ND	ND	ND	NA
B14B	B14B(4)B	01-Feb-90	4.0	+++ND	ND	ND	ND	ND	NA
B14B	B14B(7.5)C	01-Feb-90	7.5	110	ND	ND	ND	ND	NA
B15	B15(4)B	02-Feb-90	4.0	3900	ND	2500	ND	ND	NA
B15	B15(9)C	02-Feb-90	9.0	570	ND	ND	ND	ND	NA
B16	B16(3.5)A	29-Jan-90	3.5	*0.8	NA	NA	ND	ND	1200
B16	B16(9.5)C	29-Jan-90	9.5	ND	NA	NA	ND	ND	ND
B17	B17(4)	02-Feb-90	4.0	NA	NA		NA	NA	290
B17	B17(9)C	02-Feb-90	9.0	210	ND	ND	ND	ND	NA
B18	B18(4)B	01-Feb-90	4.0	NA	NA	NA	NA	NA	290
B19	B19(1)A	01-Feb-90	1.0	NA	NA	NA	NA	NA	4400
B19	B19(5)B	01-Feb-90	5.0	NA	NA	NA	NA	NA	320
B20	B20(4)B	01-Feb-90	4.0	NA	NA	NA	NA	NA	14
B21	B21(1)A	01-Feb-90	1.0	NA	NA	NA	NA	NA	10000
B21	B21(4)B	01-Feb-90	4.0	NA	NA	NA	NA	NA	1700
B21	B21(7.5)C	01-Feb-90	7.5	NA	NA	NA	NA	NA	11
B22	B22(1.5)	02-Feb-90	1.5	NA	ND	***100	NA	NA	NA
B24	B24(4)B	22-Feb-90	4.0	NA	ND	ND	NA	NA	NA
B24	B24(8.5)C	22-Feb-90	8.5	NA	ND	ND	NA	NA	NA
B25	B25(3.5)B	29-Jan-90	3.5	NA	ND	ND	NA	NA	NA
B26	B26(3.5)B	29-Jan-90	3.5	NA	ND	ND	NA	NA	NA
B27	B27(3.5)B	22-Feb-90	3.5	ND	ND	ND	ND	ND	NA
B29	B29(3)A	02-Mar-90	3.0	130	ND	360	220	ND	NA
B29	B29(4.5)B	02-Mar-90	4.5	ND	ND	ND	ND	ND	NA

TABLE 6D

PETROLEUM HYDROCARBONS DETECTED IN SOIL SAMPLES
PHASE I INVESTIGATION
YERBA BUENA SITE, EMERYVILLE, CALIFORNIA

(concentrations in ppm)

SAMPLE LOCATION ID	SAMPLE ID	DATE SAMPLED	SAMPLE DEPTH (feet)	GASOLINE	DIESEL	WASTE OIL	KEROSENE	STODDARD SOLVENT	TOTAL OIL AND GREASE
B30	B30(2)A	02-Mar-90	2.0	NA	~~aaa~~660	ND	NA	NA	NA
B30	B30(4)B	02-Mar-90	4.0	ND	ND	ND	ND	ND	NA
B31	B31(2)A	02-Mar-90	2.0	NA	ND	ND	NA	NA	NA
B31	B31(5.5)B	02-Mar-90	5.5	NA	ND	ND	NA	NA	NA
B32	B32(1.5)A	02-Mar-90	1.5	36	ND	330	ND	ND	NA
B32	B32(10)C	02-Mar-90	10.0	0.4	ND	ND	ND	ND	NA
B33	B33(2)A	02-Mar-90	2.0	0.9	ND	4600	ND	ND	NA
B33	B33(10)C	02-Mar-90	10.0	0.4	ND	30	ND	ND	NA
B34	B34(3.5)B	30-Jan-90	3.5	NA	ND	ND	NA	NA	NA
B35	B35(4)B	29-Jan-90	4.0	NA	ND	ND	NA	NA	NA
C3	C3(4)B	31-Jan-90	4.0	NA	ND	ND	NA	NA	NA
C4	C4(4)B	30-Jan-90	4.0	NA	ND	ND	NA	NA	NA
C5	C5(4)B	30-Jan-90	4.0	NA	ND	ND	NA	NA	NA
C6	C6(3)B	15-Feb-90	3.0	NA	ND	ND	NA	NA	NA
C7	C7(4)B	31-Jan-90	4.0	NA	ND	ND	NA	NA	NA
C8	C8(4)B	06-Feb-90	4.0	NA	ND	60	NA	NA	NA
C9	C9(3.5)B	08-Feb-90	3.5	ND	ND	ND	ND	ND	NA
C9	C9(9)C	08-Feb-90	9.0	ND	ND	ND	ND	ND	NA
C10	C10(4)B	08-Feb-90	4.0	ND	ND	ND	ND	ND	NA
C10	C10(9.5)C	08-Feb-90	9.5	ND	ND	ND	ND	ND	NA
C11	C11(4)B	08-Feb-90	4.0	ND	ND	ND	ND	ND	NA
C12	C12(3.5)B	31-Jan-90	3.5	NA	ND	ND	NA	NA	NA

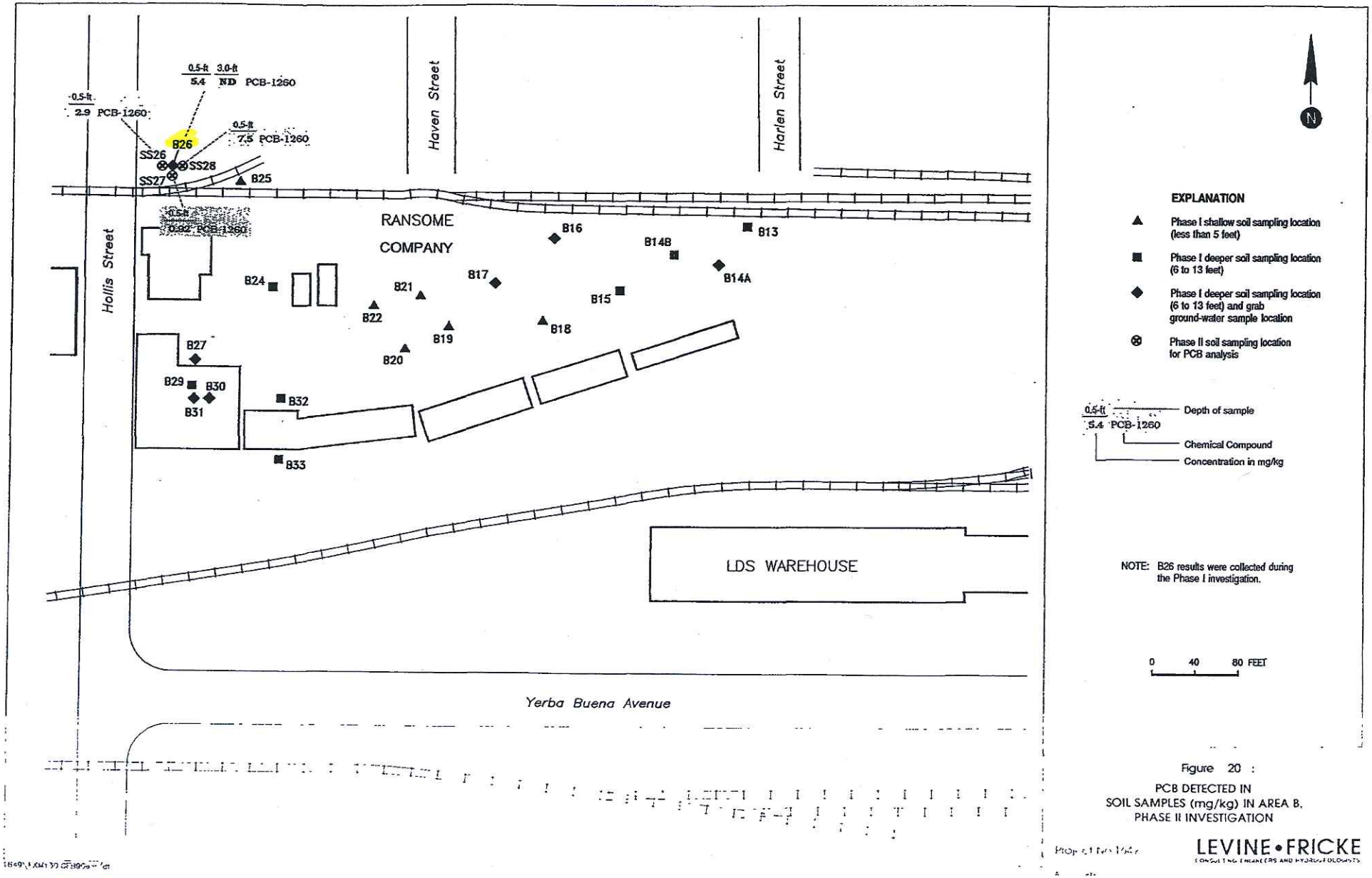


Figure 20 :

PCB DETECTED IN
SOIL SAMPLES (mg/kg) IN AREA B,
PHASE II INVESTIGATION

LEVINE • FRICKE
CONSULTING ENGINEERS AND HYDROGEOLOGISTS

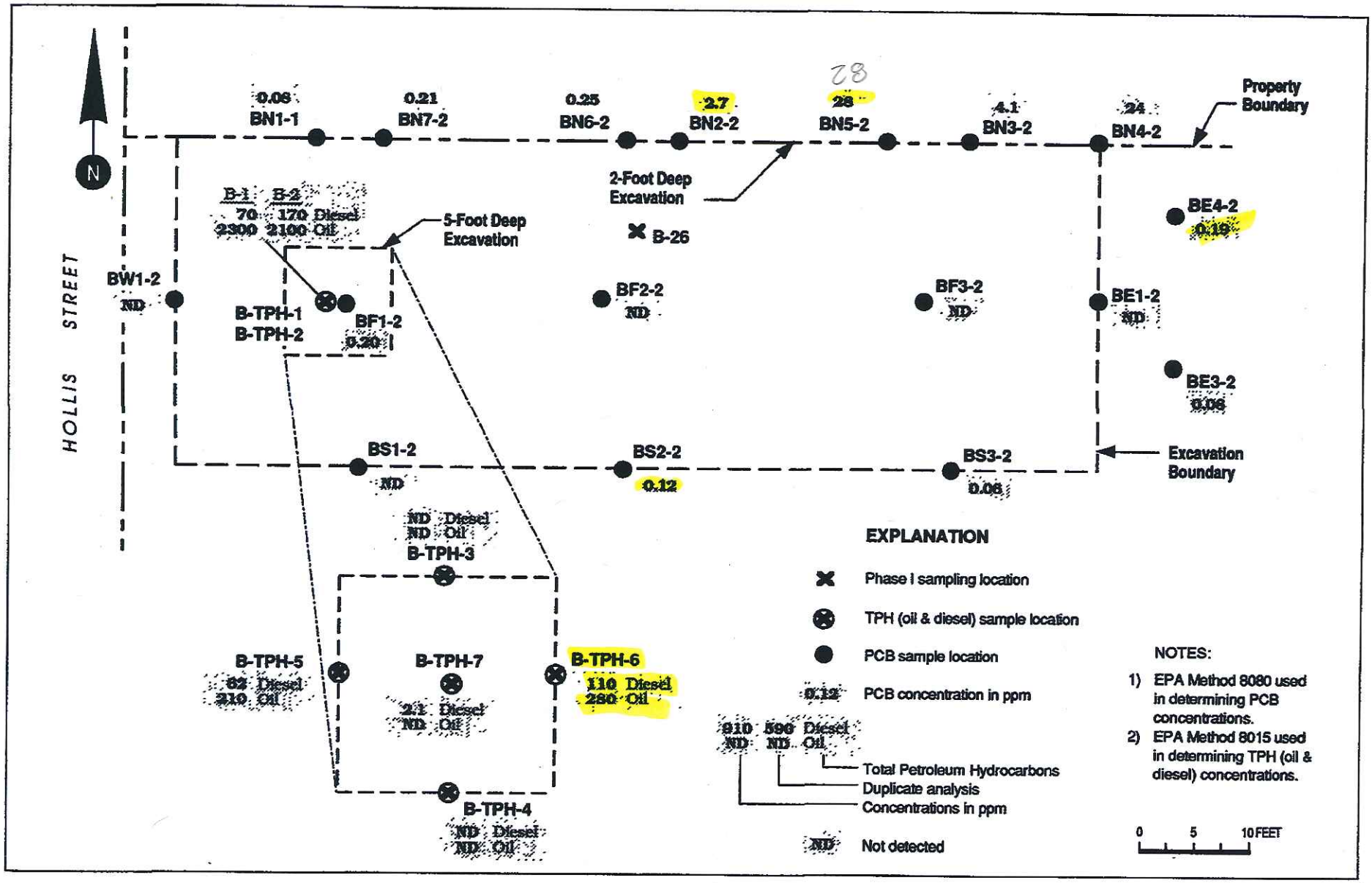


Figure 4 : EXCAVATION OF PCB-AFFECTED SOIL NEAR PHASE I SAMPLING LOCATION B-26 IN AREA B, YERBA BUENA PROJECT SITE

Project No. 1649

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

1649VTK14oct91dtVjc/mp6f4

LEVINE-FRICKE

CLIENT ID: SS-26-0.5
CLIENT JOB NO: 1649
DATE SAMPLED: 04/20/90
DATE RECEIVED: 04/24/90
REPORT DATE: 05/15/90

MED-TOX LAB NO: 9004148-01A
MED-TOX JOB NO: 9004148
DATE EXTRACTED: 04/30/90
DATE ANALYZED: 05/01-03/90
INSTRUMENT: 2

EPA METHOD 8080
ORGANOCHLORINE PESTICIDES AND PCBs

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Aldrin	309-00-2	ND	50
alpha-BHC	319-84-6	ND	50
beta-BHC	319-85-7	ND	50
delta-BHC	319-86-8	ND	50
gamma-BHC (Lindane)	58-89-9	ND	50
Chlordane	57-74-9	ND	500
4,4'-DDD	72-54-8	ND	100
2,4'-DDD	53-19-0	ND	100
4,4'-DDE	72-55-9	ND	100
2,4'-DDE	3424-82-6	ND	100
4,4'-DDT	50-29-3	ND	100
2,4'-DDT	789-02-6	ND	100
Dieldrin	60-57-1	ND	100
Endosulfan I	959-98-8	ND	50
Endosulfan II	33212-65-9	ND	100
Endosulfan sulfate	1031-07-8	ND	100
Endrin	72-20-8	ND	100
Endrin aldehyde	7421-93-4	ND	100
Heptachlor	76-44-8	ND	50
Heptachlor epoxide	1024-57-3	ND	50
Methoxychlor	72-43-5	ND	100
Toxaphene	8001-35-2	ND	500
PCB-1016	12674-11-2	ND	500
PCB-1221	11104-28-2	ND	500
PCB-1232	11141-16-5	ND	500
PCB-1242	53469-21-9	ND	500
PCB-1248	12672-29-6	ND	500
PCB-1254	11097-69-1	ND	500
PCB-1260	**11096-82-5**	**2,900**	**500**

ND = Not Detected

LEVINE-FRICKE

CLIENT ID: SS-27-0.5
CLIENT JOB NO: 1649
DATE SAMPLED: 04/20/90
DATE RECEIVED: 04/24/90
REPORT DATE: 05/15/90

MED-TOX LAB NO: 9004148-03A
MED-TOX JOB NO: 9004148
DATE EXTRACTED: 04/30/90
DATE ANALYZED: 05/01-03/910
INSTRUMENT: 2

EPA METHOD 8080
ORGANOCHLORINE PESTICIDES AND PCBs

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Aldrin	309-00-2	ND	30
alpha-BHC	319-84-6	ND	30
beta-BHC	319-85-7	ND	30
delta-BHC	319-86-8	ND	30
gamma-BHC (Lindane)	58-89-9	ND	30
Chlordane	57-74-9	ND	300
4,4'-DDD	72-54-8	ND	50
2,4'-DDD	53-19-0	ND	50
4,4'-DDE	72-55-9	ND	50
2,4'-DDE	3424-82-6	ND	50
4,4'-DDT	50-29-3	ND	50
2,4'-DDT	789-02-6	ND	50
Dieldrin	60-57-1	ND	50
Endosulfan I	959-98-8	ND	30
Endosulfan II	33212-65-9	ND	50
Endosulfan sulfate	1031-07-8	ND	50
Endrin	72-20-8	ND	50
Endrin aldehyde	7421-93-4	ND	50
Heptachlor	76-44-8	ND	30
Heptachlor epoxide	1024-57-3	ND	30
Methoxychlor	72-43-5	ND	50
Toxaphene	8001-35-2	ND	300
PCB-1016	12674-11-2	ND	300
PCB-1221	11104-28-2	ND	300
PCB-1232	11141-16-5	ND	300
PCB-1242	53469-21-9	ND	300
PCB-1248	12672-29-6	ND	300
PCB-1254	11097-69-1	ND	300
PCB-1260	**11096-82-5**	**920**	**300**

ND = Not Detected

LEVINE-FRICKE

CLIENT ID: SS-28-0.5
CLIENT JOB NO: 1649
DATE SAMPLED: 04/20/90
DATE RECEIVED: 04/24/90
REPORT DATE: 05/15/90

MED-TOX LAB NO: 9004148-05A
MED-TOX JOB NO: 9004148
DATE EXTRACTED: 04/30/90
DATE ANALYZED: 05/01-03/90
INSTRUMENT: 2

EPA METHOD 8080
ORGANOCHLORINE PESTICIDES AND PCBs

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Aldrin	309-00-2	ND	100
alpha-BHC	319-84-6	ND	100
beta-BHC	319-85-7	ND	100
delta-BHC	319-86-8	ND	100
gamma-BHC (Lindane)	58-89-9	ND	100
Chlordane	57-74-9	ND	1000
4,4'-DDD	72-54-8	ND	300
2,4'-DDD	53-19-0	ND	300
4,4'-DDE	72-55-9	ND	300
2,4'-DDE	3424-82-6	ND	300
4,4'-DDT	50-29-3	ND	300
2,4'-DDT	789-02-6	ND	300
Dieldrin	60-57-1	ND	300
Endosulfan I	959-98-8	ND	100
Endosulfan II	33212-65-9	ND	300
Endosulfan sulfate	1031-07-8	ND	300
Endrin	72-20-8	ND	300
Endrin aldehyde	7421-93-4	ND	300
Heptachlor	76-44-8	ND	100
Heptachlor epoxide	1024-57-3	ND	100
Methoxychlor	72-43-5	ND	300
Toxaphene	8001-35-2	ND	1000
PCB-1016	12674-11-2	ND	1000
PCB-1221	11104-28-2	ND	1000
PCB-1232	11141-16-5	ND	1000
PCB-1242	53469-21-9	ND	1000
PCB-1248	12672-29-6	ND	1000
PCB-1254	11097-69-1	ND	1000
PCB-1260	11096-82-5	7,500	1000

ND = Not Detected

Table 3.1
Summary of Laboratory Results — Metals Analyses

Metal	TTLC (ppm)	Concentration in ppm at Various Locations (Depths in Feet)					
		P-5 (10.5)	2-1 (3.5)	3-1 (4)	6-1 (6)	8-1 (3)	8-2 (2.5)
Antimony	500	ND	ND	ND	ND	ND	ND
Arsenic	500	ND	ND	ND	ND	ND	ND
Barium	10,000	65	160	90	93	76	180
Beryllium	75	ND	ND	ND	ND	ND	0.5
Cadmium	100	0.93	1.5	0.8	ND	0.7	1.4
Chromium (total)	2,500	12	18	10	10	13	19
Cobalt	8,000	4.5	9.5	6.5	8.6	6.4	11
Copper	2,500	10	20	11	12	15	40
Lead	1,000	ND	4.8	6.9	6.4	2.5	12
Mercury	20	ND	ND	ND	ND	ND	ND
Molyb-denum	3,500	ND	ND	ND	ND	ND	ND
Nickel	2,000	29	32	16	12	17	32
Selenium	100	ND	ND	ND	ND	ND	ND
Silver	500	ND	ND	ND	ND	ND	ND
Thallium	700	ND	ND	ND	ND	ND	ND
Vanadium	2,400	6	17	9	11	13	21
Zinc	5,000	23	34	14	11	18	46

3.4.1.2 Purgeable Halocarbons: Thirteen soil samples were analyzed for Purgeable Halocarbons by EPA Method 8010 from the following locations: B-25 (6'); H-5 (6'), H-3 (5)'; I-7 (4'); C-2 (5'); 7-1 (5'); 7-1 (2.5'); 8-1 (3'); 8-2 (2.67'); 2-1 (3.5'); 3-1 (4'); P-5 (5.5') and P-5 (10.5'). The sample depth is shown in parentheses next to the sample location designation. The only compound which was detected above the method detection limit by this method was 1,1 Dichloroethane in sample C-2 at a concentration of 2.4 ppb. Based on these results, it appears that contamination of soil by purgeable hydrocarbons is not evident.

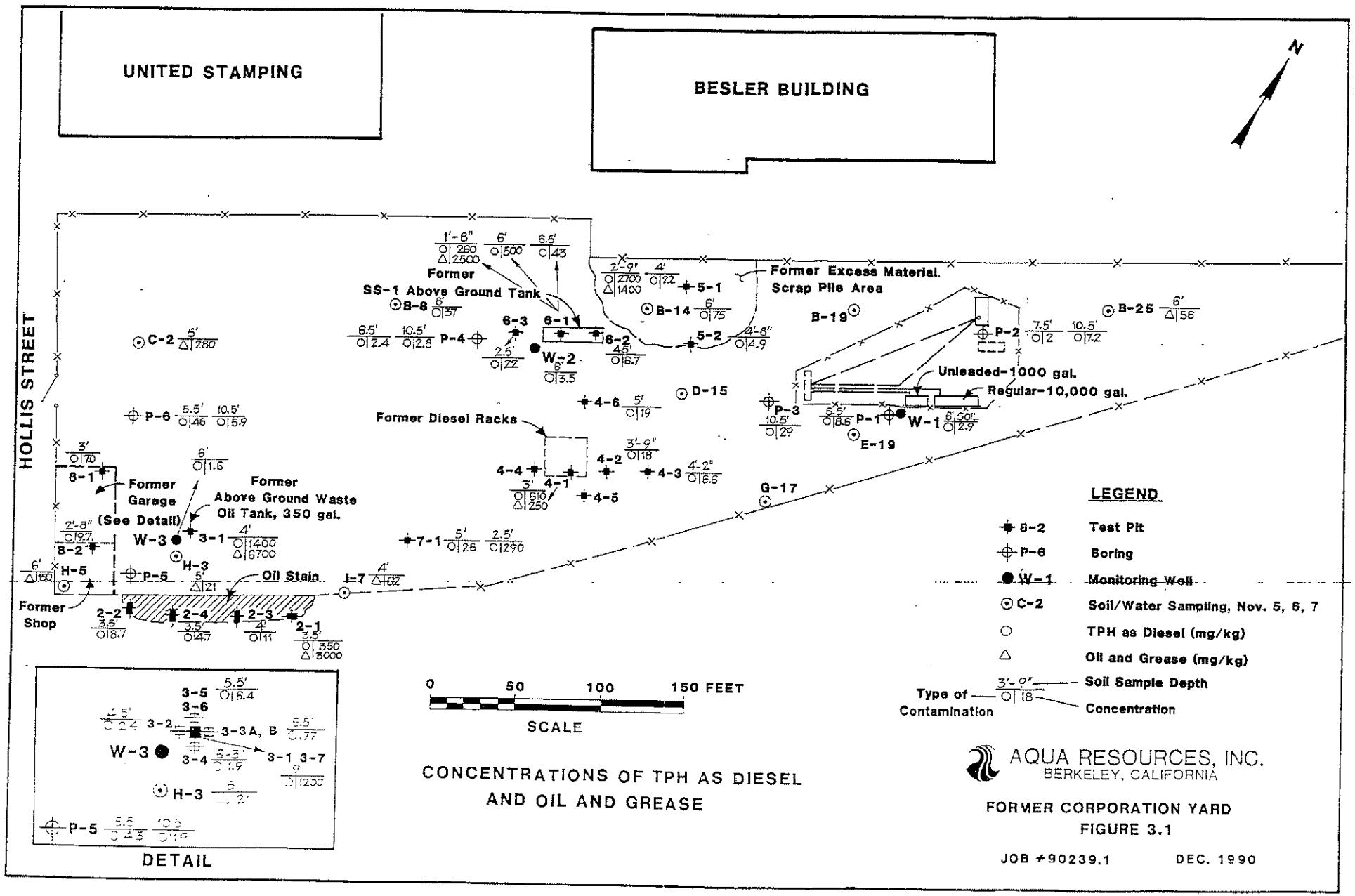
Table 2.2

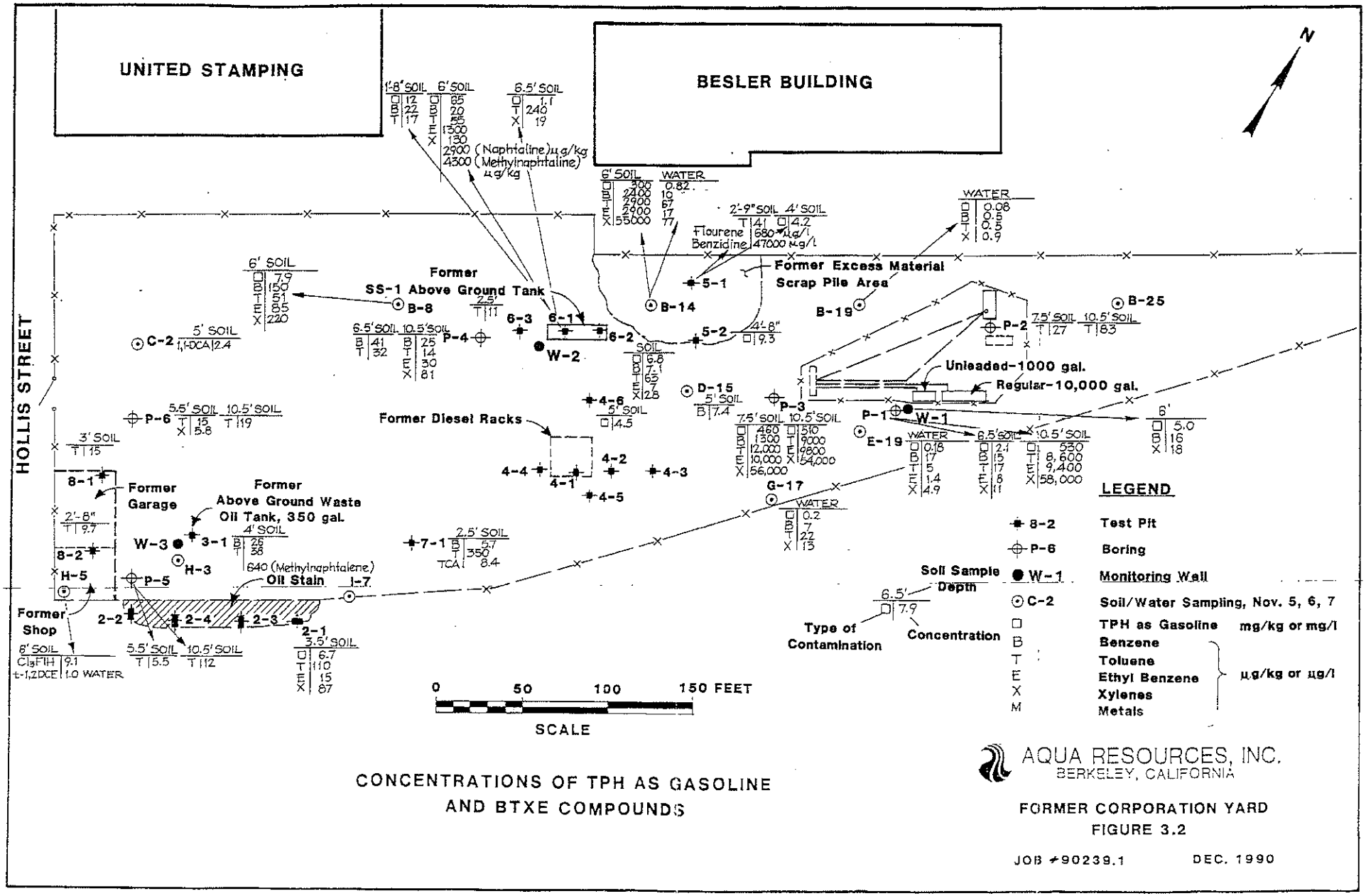
Summary of Laboratory Results — Hydrocarbons in Soil Samples

Sample I.D.	Depth (feet)	TPH as Gasoline (mg/kg)	TPH as Diesel (mg/kg)	TPH as Kerosine (mg/kg)	Oil & Grease (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethyl-Benzene (µg/kg)	Xylenes (µg/kg)	Heavy Extractable Petroleum Hydrocarbons
MDL		1.0	1.0/100	1.0/100	50	5.0	5.0	5.0	5.0	10
2-1	3.5	6.7	350		3,000	N.D.	110	15	87	
2-2	3.5		8 7	ND						
2-3	4		11	ND						
2-4	3.42		4.7							
3-1	4		1,400	ND	6,700	26	38	ND	ND	
3-2	4 5	ND	2.4	ND						
3-3A	6.5	ND	77	ND						
3-3B	6.5		ND	ND						
3-4	6.25		1.9	ND						
3-5	5.5		6.4	ND						
3-6	4		ND	ND						
3-7	9		1,200	ND						150
H-5	6									21
H-3	5									
4-1	3		610	ND	250	2				
4-2	3.75		18	ND						
4-3	4.17		6.6	ND						
4-6	5		19	ND						
5-1	2.75		2,700	ND	1,400					
5-1	4	4.2	22	ND	ND					
5-2	4.67	9.3	4.9	ND						

Sample I.D.	Depth (feet)	TPH as Gasoline (mg/kg)	TPH as Diesel (mg/kg)	TPH as Kerosine (mg/kg)	Oil & Grease (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethyl-Benzene (µg/kg)	Xylenes (µg/kg)	Heavy Extractable Petroleum Hydrocarbons
MDL		1.0	1.0/100	1.0/100	50	5.0	5.0	5.0	5.0	10
6-1	1.67	12	260	ND	2,500	22	ND	ND	17	
6-1	6.5	1.1	43	ND		ND	240	ND	19	
6-1	6	65	500	ND		20	55	1,300	130	
6-2	4.5	6.8	6.7	ND		7.1	63	7.0	28	
6-3	2.5	ND	22	ND		ND	11	ND	ND	
B-14			75			2,500	2,500	8,900	59,000	
7-1	2.5		290	ND		5.7	350	ND	ND	
7-1	5		26	ND						
8-1	3		7.0	ND	ND	ND	15	ND	ND	
8-2	2.67		9.7		ND	ND	48			
I-7	4		ND							62
C-2			ND							280
B-19		ND	ND			ND	ND	ND	ND	
D-15		7.6				ND	ND	ND	ND	
E-19		ND	ND			ND	ND	ND	ND	
G-17		ND				ND	ND	ND	ND	
W-1	6	5.0	2.9	ND		16			18	
W-2	6	ND	3.5	ND		ND	ND	ND	ND	
W-3	6	ND	1.6	ND		ND	ND	ND	ND	

ND — Not Detected
MDL — Method Detection Limit


UNITED STAMPING
BESLER BUILDING
N
HOLLIS STREET
Former Excess Material.
Scrap Pile Area
Former
SS-1 Above Ground Tank
Former Diesel Racks
Unleaded-1000 gal.
Regular-10,000 gal.
Former Garage
(See Detail)
Former
Above Ground Waste
Oil Tank, 350 gal.
Oil Stain
Former
Shop
G-17
E-19
B-19
D-15
B-25
B-14
B-6
C-2
P-4
P-6
P-5
P-3
P-2
P-1
W-1
W-2
W-3
H-3
H-5
I-7
7-1
5-1
5-2
6-1
6-2
6-3
4-1
4-2
4-3
4-4
4-5
4-6
8-1
8-2
3-1
2-1
2-2
2-3
2-4
0
50
100
150 FEET
SCALE
LEGEND
Test Pit
Boring
Monitoring Well
Soil/Water Sampling, Nov. 5, 6, 7
TPH as Diesel (mg/kg)
Oil and Grease (mg/kg)
Soil Sample Depth
Concentration
Type of Contamination
DETAIL
3-5
3-6
3-2
3-3A, B
3-4
3-7
CONCENTRATIONS OF TPH AS DIESEL
AND OIL AND GREASE
AQUA RESOURCES, INC.
BERKELEY, CALIFORNIA
FORMER CORPORATION YARD
FIGURE 3.1
JOB #90239.1
DEC. 1990



CONCENTRATIONS OF TPH AS GASOLINE AND BTXE COMPOUNDS

AQUA RESOURCES, INC.
BERKELEY, CALIFORNIA

FORMER CORPORATION YARD
FIGURE 3.2

JOB #90239.1 DEC. 1990

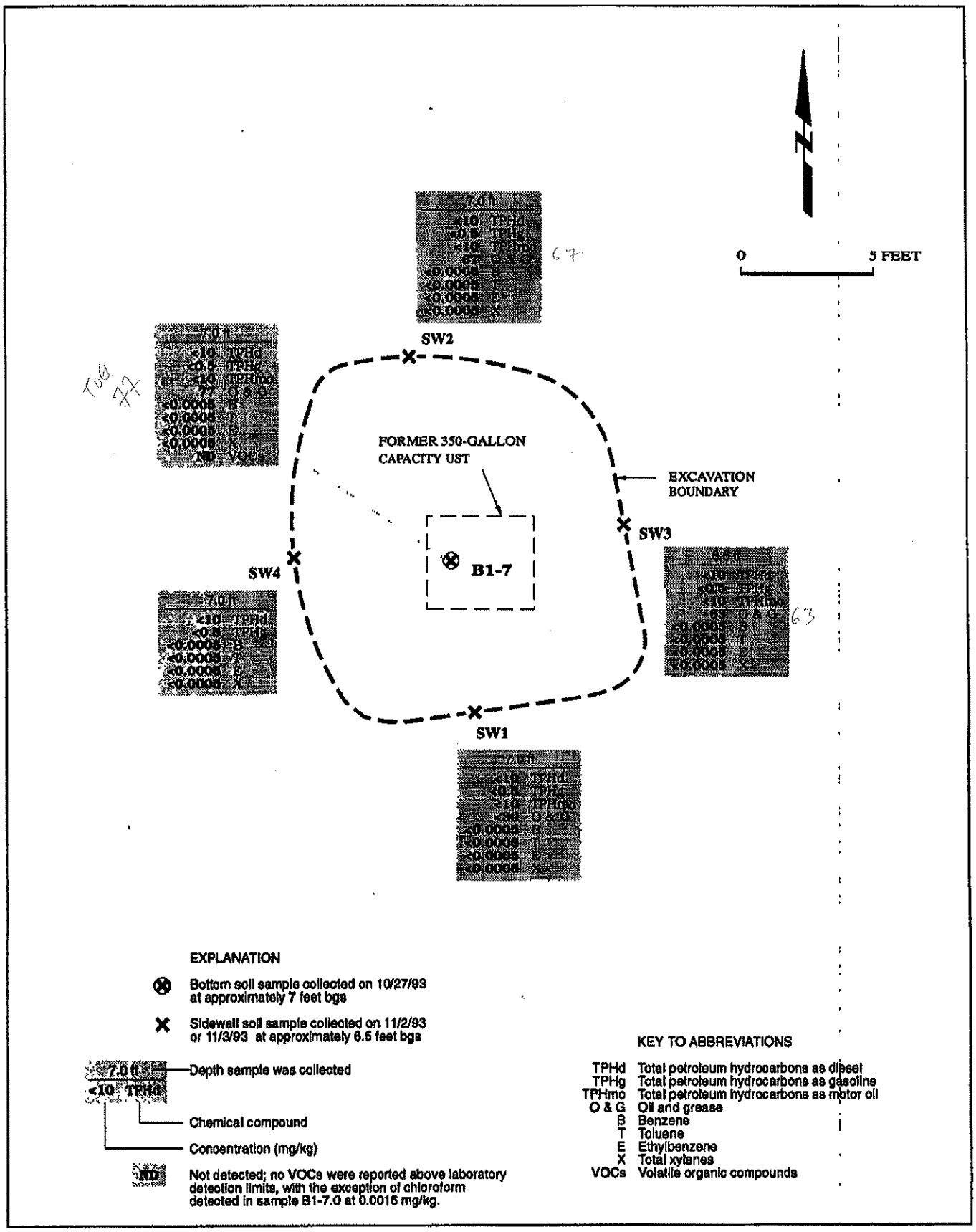


Figure 3 : APPROXIMATE LOCATIONS OF SOIL SAMPLES COLLECTED FROM THE FORMER UST EXCAVATION 40TH AND HOLLIS STREETS, EMERYVILLE, CALIFORNIA

TABLE 1
ANALYTICAL RESULTS FOR SOIL SAMPLES COLLECTED FROM THE UST EXCAVATION
40TH AND HOLLIS STREETS, EMERYVILLE, CALIFORNIA
(concentrations reported in milligrams per kilogram [mg/kg])

Sample ID	Date	Depth	TPHd	TPHmo	Oil and Grease	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	VOCs
B1-7.0	27-Oct-93	7.0	<10	<10	77	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	ND
SW1-7.0	02-Nov-93	7.0	<10	<10	<30	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
SW2-7.0	02-Nov-93	7.0	<10	<10	67	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
SW3-6.5	02-Nov-93	6.5	<10	<10	63	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
SW4-7.0	03-Nov-93	7.0	<10	NA	NA	<0.5	<0.0005	<0.0005	<0.0005	<0.0005	NA
SP-1	27-Oct-93		65	480	NA	330	<0.0005	<0.0005	1.9	4.9	ND

CCl4 = 1.6 ppb
CH2Cl2 = 370 ppb

Data entered by MEK/20-Dec-93. Data proofed by JJB. QA/QC by JJB.

One milligram per kilogram of soil is equivalent to one part per million.

chloroform - 1.6 µg/Kg
methylene chloride 370 " (Lab

In addition to the analyses indicated below, sample B1-7.0 was analyzed for metals using EPA Method 6010. Results of this analysis reported <0.25 mg/kg cadmium, 18.3 mg/kg chromium, 42.3 mg/kg nickel, 5.8 mg/kg lead, and 28.7 mg/kg zinc.

TPHd - Total petroleum hydrocarbons as diesel using EPA Method 3550
TPHmo - Total petroleum hydrocarbons as motor oil using EPA Method 3550
Oil and grease using Standard Method 5520 E,F
TPHg - Total petroleum hydrocarbons as gasoline using EPA Method 5030
Benzene, toluene, ethylbenzene, and total xylenes using EPA Method 8020
VOCs - Volatile organic compounds using EPA Method 8010

ND - not detected; no VOCs were reported above laboratory detection limits, with the exception of chloroform detected in sample B1-7.0 at 0.0016 mg/kg and methylene chloride (a common laboratory contaminant; see the laboratory QA/QC summary) at 0.370 mg/kg in sample SP-1.

NA - not analyzed

Analyses performed by Anametrix, Inc., San Jose, California.

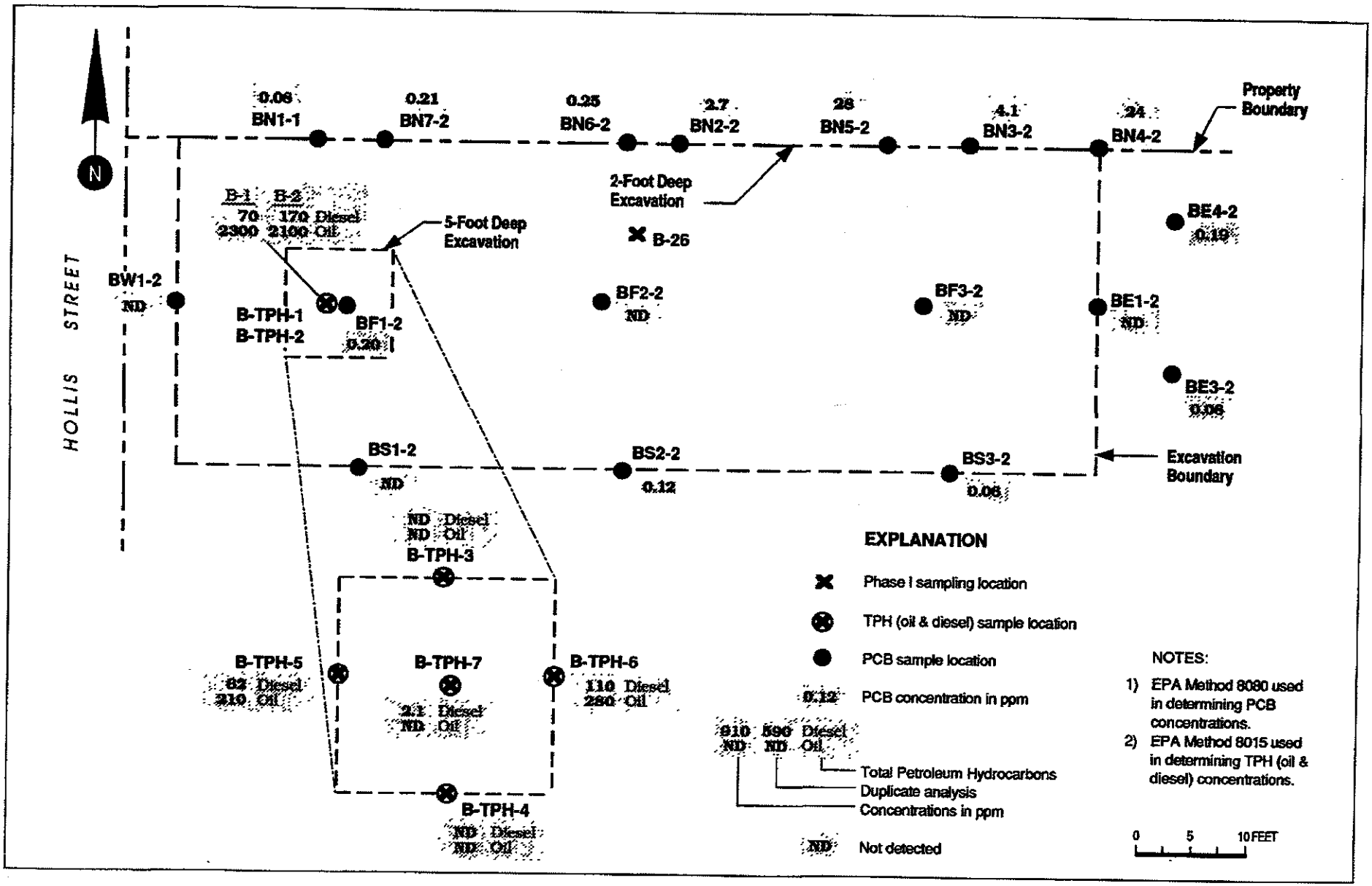
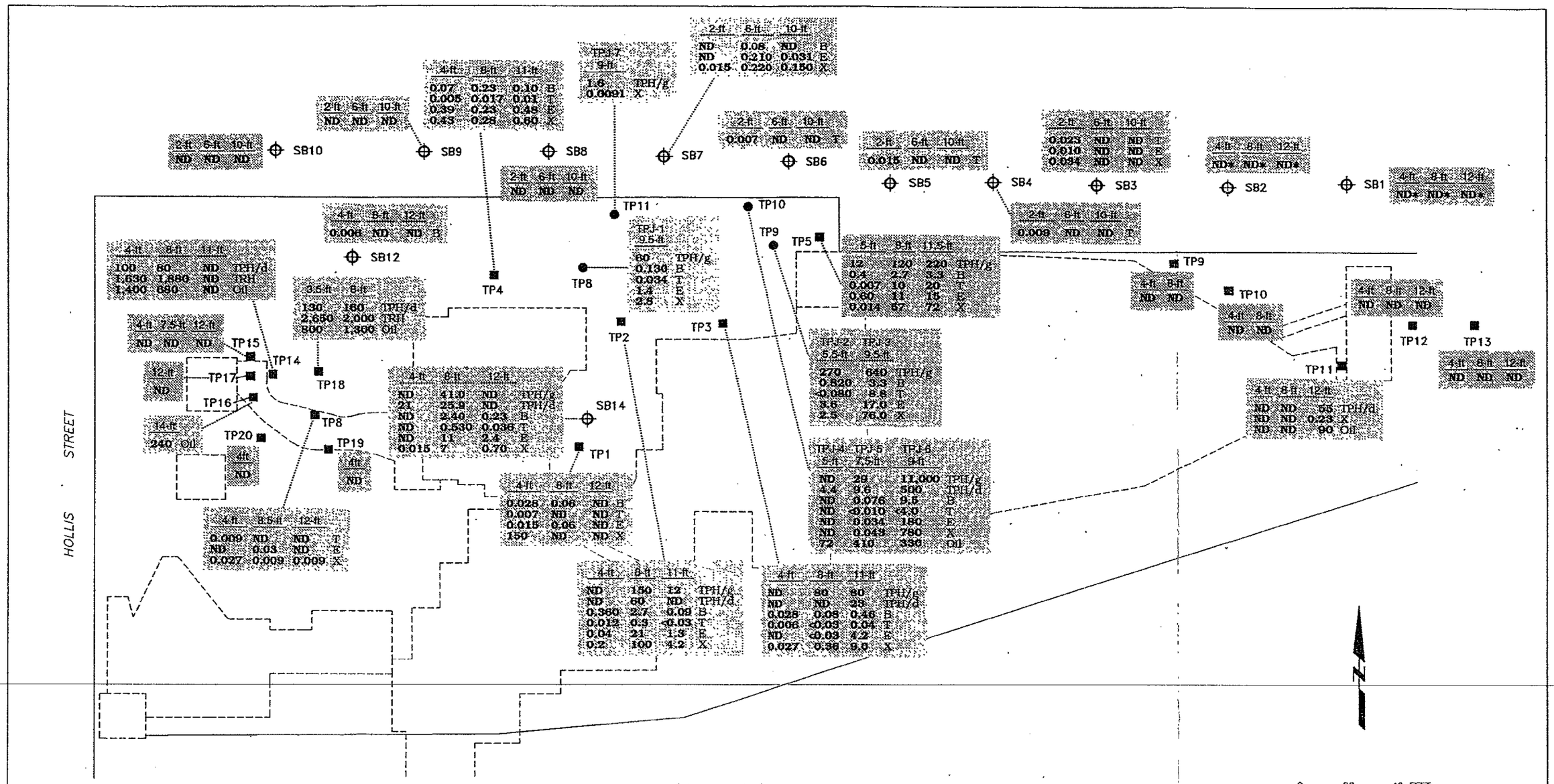


Figure 4 : EXCAVATION OF PCB-AFFECTED SOIL NEAR PHASE I SAMPLING LOCATION B-26 IN AREA B, YERBA BUENA PROJECT SITE



EXPLANATION

- Excavation boundary
- Test pit excavated by Aqua Resources Inc
- Phase I sampling - test pit
- Soil boring location

4-ft 8-ft 11-ft
ND 60 ND TPH/g
ND 150 12 TRH
0.036 2.7 0.009 B
0.012 0.3 ND T
0.04 21 1.3 E
0.2 100 4.2 X

Depth in feet

Chemical Concentrations

ND Not detected

Laboratory detection limits (unless otherwise noted):

<10	TPH/g
<50	TPH /d
<50	TRH
<10	B
<0 005	T
<0 005	E
<0 005	X
<50	Oil

* Samples not analyzed for BTEX compounds

NOTE:

All samples analyzed for the following compounds using Modified EPA Methods 8015 and 8020 unless otherwise noted

KEY TO ABBREVIATIONS

TPH/g	Total Petroleum Hydrocarbons as gasoline
TPH/d	Total Petroleum Hydrocarbons as diesel
TRH	Total Recoverable Hydrocarbons
B	Benzene
T	Toluene
E	Ethylbenzene
X	Total Xylenes

Figure 5 :

ANALYTICAL RESULTS FOR TEST PITS AND SOIL BORINGS FORMER RANSOME PROPERTY

Project No. 1649.07

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

JJB13OCT92MP

16498011 JJB EM 100992

TABLE 1
ANALYTICAL RESULTS OF VERIFICATION SOIL SAMPLES
FORMER RANSOME PROPERTY, EMERYVILLE, CALIFORNIA
(Concentrations in parts per million)

Sample Designation	Sample Depth (feet)	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENE	GASOLINE	DIESEL	KEROSENE	OIL & GREASE	HYDROCARBONS	OIL
Detection Limits: (unless otherwise noted)		<0.005	<0.005	<0.005	<0.005	<1.0	<1.0	<1.0	<50	<10	<20
AB-1-8.5	8.5	ND	0.0055	ND	ND	ND	ND	ND	ND	---	---
AE-2-3	3	ND	0.0095	ND	ND	ND	ND	ND	ND	---	---
AN-3-5.5	5.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
AS-5-3.5	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
AS-5-3.5*	3.5	ND	ND	ND	ND	ND	ND	---	10	ND	ND
AW-4-6	6	ND	0.0055	ND	ND	ND	ND	ND	ND	---	---
A'B-1-7	7	ND	ND	ND	ND	ND	ND	ND	ND	---	---
A'E-2-3	3	---	---	---	---	---	ND	ND	ND	---	---
A'N-3-4.5	4.5	---	---	---	---	---	ND	ND	ND	---	---
A'S-4-2.5	2.5	---	---	---	---	---	ND	ND	60	---	---
A'W-5-5	5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
BB-3-5.5	5.5	ND	0.011	ND	ND	ND	ND	ND	ND	---	ND
BB-3-5.5*	5.5	ND	ND	ND	ND	ND	ND	---	ND	---	---
BB-4-5	5	ND	0.0083	ND	ND	ND	ND	ND	ND	---	---
BB-5-4	4	ND	0.010	ND	ND	ND	ND	ND	ND	---	---
BE-8-3	3	ND	ND	ND	ND	ND	ND	ND	ND	---	---
BB-8-3*	3	ND	ND	ND	ND	ND	ND	---	ND	ND	ND
BS-6-3	3	ND	0.035	ND	ND	ND	ND	ND	ND	---	---
BS-6-3*	3	ND	ND	ND	ND	ND	ND	---	20	ND	ND
BW-1-1.5	1.5	ND	0.016	ND	ND	ND	ND	ND	ND	---	---
BW-1-1.5*	1.5	ND	ND	ND	ND	ND	ND	---	ND	ND	ND
BW-2-3	3	ND	0.0073	ND	ND	ND	ND	ND	ND	---	---
BW-7-2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
B'1B-3-9	9	ND	ND	ND	ND	ND	ND	ND	ND	---	---
B'1E-5-6	6	ND	ND	ND	ND	ND	ND	ND	ND	---	---
B'1E-5-6*	6	ND	ND	ND	ND	ND	ND	---	ND	ND	ND
B'1N-1-7.5	7.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
B'1S-4-7	7	ND	ND	ND	ND	ND	ND	ND	---	---	---
B'1W-2-5.5	5.5	ND	ND	ND	ND	ND	1.3	ND	---	---	---
CB-1-6.5	6.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
CB-1-6.5*	6.5	ND	ND	ND	ND	ND	ND	---	20	10	ND
CE-3-3	3	ND	0.064	ND	ND	ND	ND	ND	ND	---	---
CE-3-3*	3	ND	ND	ND	ND	ND	ND	---	20	10	ND
CS-2-3	3	ND	ND	ND	ND	ND	ND	ND	ND	---	---
DB-2-4	4	ND	ND	ND	ND	ND	ND	ND	ND	---	---
DB-3-5.5	5.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
DB-8-6	6	ND	ND	ND	0.0067	2.2	ND	25	ND	---	---
DB-19-5.5	5.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
DB-19-5.5*	5.5	ND	ND	ND	ND	ND	ND	---	10	ND	ND
DB-24-5.5	5.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
DB-34-8.5	8.5	ND	ND	ND	0.017	2.3	ND	ND	ND	---	---
DB-35-9.5	9.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
DB-35-9.5*	9.5	ND	0.007	ND	100	4	ND	---	ND	ND	ND
DB-36-10	10	ND	ND	ND	ND	ND	ND	ND	ND	---	---
DB-36-10*	10	ND	ND	ND	ND	ND	ND	---	ND	ND	ND
DB-37-10	10	ND	ND	ND	ND	ND	ND	ND	ND	---	---
DB-37-10*	10	ND	ND	ND	0.005	1.0	ND	---	40	40	100
DB-38-10	10	ND	ND	ND	ND	ND	ND	ND	ND	---	---
DB-46-10.5	10.5	ND	ND	ND	ND	ND	3.8	ND	---	---	---
DE-6-4	4	ND	ND	ND	ND	ND	ND	3.4	ND	---	---
DE-16-2.5	2.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
DE-21-4	4	ND	ND	ND	ND	ND	ND	ND	ND	---	---
DE-25-2	2	ND	ND	ND	ND	ND	ND	ND	ND	---	---
DE-39-6	6	ND	ND	ND	ND	ND	ND	ND	ND	---	---
DE-40-5.5	5.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
DE-45-5	5	ND	ND	ND	ND	ND	4.8	ND	ND	---	---
DN-1-3	3	ND	0.032	ND	ND	ND	ND	---	ND	---	---

TABLE 1
ANALYTICAL RESULTS OF VERIFICATION SOIL SAMPLES
FORMER RANSOME PROPERTY, EMERYVILLE, CALIFORNIA
(Concentrations in parts per million)

Sample Designation	Sample Depth (feet)	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENE	GASOLINE	DIESEL	KEROSENE	OIL & GREASE	HYDROCARBONS OIL
Detection Limits: (unless otherwise noted)		<0.005	<0.005	<0.005	<0.005	<1.0	<1.0	<1.0	<50	<10
DN-1-3*	3	ND	ND	ND	ND	ND	ND	---	40	20
DN-4-3	3	ND	ND	ND	ND	ND	2.1	ND	ND	---
DN-9-3	3	ND	ND	ND	ND	ND	ND	ND	ND	---
DN-9-3*	3	ND	ND	ND	ND	0.4	ND	---	20	ND
DN-22-2.75	2.75	---	---	---	---	---	ND	ND	220	---
DN-26-4	4	ND	ND	ND	ND	ND	ND	ND	ND	---
DN-29-4.5	4.5	ND	ND	ND	ND	ND	ND	ND	---	---
DN-30-6.5	6.5	ND	ND	ND	ND	ND	ND	ND	ND	---
DN-31-5	5	ND	ND	ND	ND	ND	ND	ND	---	---
DS-5-5	5	ND	ND	ND	ND	ND	ND	ND	ND	---
DS-14-5	5	ND	ND	ND	ND	ND	ND	ND	ND	---
DS-20-3	3	ND	ND	ND	ND	ND	ND	ND	700	---
DS-27-2.75	2.75	---	---	---	---	---	ND	ND	ND	---
DS-41-4	4	---	---	---	---	---	ND	ND	ND	---
DS-47-6	6	ND	ND	ND	ND	ND	---	---	---	---
DW-11-5	5	ND	ND	ND	ND	ND	ND	ND	ND	---
DW-11-5*	5	ND	ND	ND	ND	ND	ND	---	ND	ND
DW-32-4.5	4.5	ND	ND	ND	ND	ND	ND	ND	ND	---
DW-32-4.5*	4.5	ND	ND	ND	ND	ND	ND	---	ND	ND
DW-33-5	5	ND	ND	ND	0.017	2.9	ND	ND	---	---
DW-42-5	5	ND	ND	ND	ND	ND	ND	ND	ND	---
DW-43-3.5	3.5	---	---	---	---	ND	ND	ND	---	---
DW-44-6	6	---	---	---	---	ND	ND	ND	---	---
EB-5-10	10	ND	ND	ND	ND	ND	ND	ND	ND	---
EE-1-3.5	3.5	ND	ND	ND	ND	ND	ND	ND	130	---
ES-4-2	2	---	---	---	---	---	ND	ND	110	---
EW-3-3	3	ND	ND	ND	ND	ND	ND	ND	ND	---
FB-5-11	11	ND	ND	ND	ND	ND	ND	ND	ND	---
FN-3-3	3	0.0098	0.0071	0.190	0.470	12	<10	<10	130	---
FS-4-6	6	ND	ND	ND	ND	ND	ND	ND	ND	---
FW-6-5	5	0.270	0.0053	0.032	0.170	12	---	---	ND	---
GB-2-6.5	6.5	ND	ND	ND	ND	ND	ND	ND	ND	---
GB-5-11.5	11.5	ND	ND	ND	ND	ND	ND	ND	---	---
GB-5-11.5*	11.5	ND	ND	ND	ND	ND	ND	---	ND	ND
GB-6-11	11	ND	ND	ND	ND	ND	ND	ND	ND	---
GE-8-7	7	ND	ND	ND	ND	ND	ND	ND	ND	---
GN-1-3	3	ND	ND	ND	ND	ND	ND	ND	660	---
JB-4-11	11	ND	ND	ND	ND	ND	ND	ND	ND	---
JB-7-13.5	13.5	ND	ND	ND	ND	ND	ND	ND	ND	---
JB-9-4.5	4.5	ND	ND	ND	ND	ND	ND	ND	ND	---
JB-10-6.5	6.5	---	---	---	---	---	ND	ND	---	---
JB-11-6.5	6.5	---	---	---	---	---	ND	ND	---	---
JB-12-13.5	13.5	ND	ND	ND	ND	ND	---	---	---	---
JB-12-13.5*	13.5	ND	0.001	ND	ND	ND	ND	---	ND	ND
JB-13-13.5	13.5	ND	ND	ND	ND	ND	ND	ND	ND	---
JB-14-14	14	ND	ND	ND	ND	ND	ND	ND	ND	---
JB-15-14	14	ND	ND	ND	ND	ND	ND	ND	ND	---
JB-16-14	14	ND	ND	ND	ND	ND	ND	ND	ND	---
JB-17-14	14	ND	ND	ND	ND	ND	---	---	---	---
JB-18-14	14	ND	ND	ND	ND	ND	ND	ND	ND	---
JB-19-14	14	0.006	ND	ND	ND	ND	ND	ND	ND	---
JB-20-14	14	ND	ND	ND	ND	ND	---	---	---	---
JB-20-14*	14	0.002	0.002	ND	0.008	ND	ND	---	ND	ND
JB-21-14	14	ND	ND	ND	ND	ND	ND	---	ND	ND
JB-22-14	14	ND	ND	ND	ND	ND	---	---	---	---
JB-23-14	14	ND	ND	ND	ND	ND	ND	ND	ND	---
JB-24-14	14	ND	ND	ND	ND	ND	---	---	---	---
JB-25-14	14	ND	ND	ND	ND	ND	ND	ND	ND	---

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FORMER RANSOME PROPERTY, EMERYVILLE, CALIFORNIA
(Concentrations in parts per million)

Sample Designation	Sample Depth (feet)	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENE	GASOLINE	DIESEL	KEROSENE	OIL & GREASE	HYDROCARBONS	OIL
Detection Limits: (unless otherwise noted)		<0.005	<0.005	<0.005	<0.005	<1.0	<1.0	<1.0	<50	<10	<20
JB-26-14	14	ND	ND	ND	ND	ND	---	---	---	---	---
JB-27-13	13	ND	ND	ND	0.007	ND	---	---	---	---	---
JB-28-13	13	0.011	ND	ND	ND	ND	ND	ND	ND	---	---
JB-28-13*	13	0.014	ND	ND	ND	ND	ND	---	ND	ND	ND
JB-29-13	13	ND	ND	ND	ND	ND	---	---	---	---	---
JB-30-13	13	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JB-31-13	13	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JB-31-13*	13	ND	ND	ND	ND	ND	ND	---	ND	ND	ND
JB-33-9	9	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JB-34-9	9	ND	0.0075	0.0073	ND	2.6	---	---	---	---	---
JB-35-8.5	8.5	ND	ND	0.059	0.015	3	---	---	---	---	---
JB-35-8.5*	8.5	ND	ND	0.003	ND	ND	ND	ND	ND	---	---
JB-36-8.5	8.5	ND	ND	ND	ND	ND	---	---	---	---	---
JB-56-12	12	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JB-65-13	13	ND	ND	ND	ND	ND	---	---	---	---	---
JB-67-13	13	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JE-1-7	7	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JE-2-6	6	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JE-44-9	9	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JE-49-8	8	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JN-8-8.5	8.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JN-48-8.5	8.5	ND	ND	ND	ND	ND	---	---	---	---	---
JN-50-7	7	ND	ND	ND	ND	ND	---	---	---	---	---
JN-51-9.5	9.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JN-52-7	7	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JN-53-9.5	9.5	ND	ND	0.032	ND	2.5	ND	ND	ND	---	---
JN-53-9.5*	9.5	0.044	0.015	1.90	5.0	32	ND	---	30	30	ND
JN-54-7	7	0.053	ND	0.024	0.011	2.5	ND	ND	ND	---	---
JN-54-7*	7	0.350	0.007	0.320	0.340	5.5	ND	---	10	ND	ND
JN-55-9.5	9.5	0.084	0.130	2.0	7.7	120	ND	ND	ND	---	---
JN-57-10	10	ND	ND	ND	ND	ND	3.8	ND	ND	---	---
JN-58-9.5	9.5	ND	ND	ND	ND	ND	---	---	---	---	---
JN-62-6	6	ND	ND	ND	ND	ND	10	ND	ND	---	---
JS-3-4	4	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JS-42-7	7	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JS-59-8	8	0.0092	ND	ND	0.0054	1.7	---	---	---	---	---
JS-63-8	8	ND	ND	ND	ND	1.3	1.1	ND	ND	---	---
JS-64-7.5	7.5	ND	ND	ND	ND	ND	---	---	---	---	---
JS-64-7.5*	7.5	ND	ND	ND	ND	ND	ND	---	20	ND	---
JS-66-8	8	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JS-68-9	9	ND	ND	ND	ND	ND	---	---	---	---	---
JS-68-9*	9	ND	ND	ND	ND	ND	ND	ND	20	ND	---
JS-70-7	7	ND	ND	ND	ND	1.9	ND	ND	ND	---	---
JW-5-6	6	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JW-6-7	7	ND	ND	ND	ND	ND	ND	ND	ND	---	---
JW-37-10	10	ND	ND	ND	ND	ND	---	---	---	---	---
JW-38-9	9	ND	ND	0.0087	ND	ND	---	---	---	---	---
JW-69-6.5	6.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
KB-2-11.5	11.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
KB-2-11.5*	11.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
KB-8-11.5	11.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
KB-13-11.5	5.5	ND	ND	ND	0.025	ND	16	ND	90	---	---
KB-20-11	11	ND	ND	0.011	ND	ND	ND	ND	ND	---	---
KB-20-11*	11	0.001	ND	0.003	0.004	ND	ND	---	ND	ND	---
KB-29-10.5	10.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
KB-32-11	11	ND	ND	ND	ND	ND	1.2	ND	ND	---	---
KB-35-8.5	8.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
KB-36-7.5	7.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
KE-4-5.5	5.5	0.035	ND	ND	ND	1.1	ND	ND	ND	---	---
KE-30-6.5	6.5	ND	ND	ND	ND	ND	1.2	ND	ND	---	---
KE-31-7	7	ND	ND	ND	ND	ND	1.0	ND	ND	---	---

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ANALYTICAL RESULTS OF VERIFICATION SOIL SAMPLES
FORMER RANSOME PROPERTY, EMERYVILLE, CALIFORNIA
(Concentrations in parts per million)

Sample Designation	Sample Depth (feet)	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENE	GASOLINE	DIESEL	KEROSENE	OIL & GREASE	HYDROCARBONS OIL	
Detection Limits: (unless otherwise noted)		<0.005	<0.005	<0.005	<0.005	<1.0	<1.0	<1.0	<50	<10	<20
KN-1-8	8	0.024	0.005	0.093	0.170	11	ND	ND	---	---	---
KN-9-6.5	6.5	ND	ND	0.0059	0.0087	1.3	3.8	ND	ND	---	---
KN-9-6.5*	6.5	ND	ND	ND	ND	ND	ND	---	ND	ND	ND
KN-23-6	6	ND	ND	ND	ND	ND	1.0	ND	---	---	---
KN-23-6*	6	ND	ND	ND	ND	ND	ND	---	ND	ND	---
KS-11-5.5	5.5	ND	ND	ND	ND	ND	1.1	ND	ND	---	---
KS-24-6	6	ND	ND	ND	ND	ND	ND	ND	---	---	---
KS-24-6*	6	ND	ND	ND	ND	ND	ND	---	10	ND	---
KS-27-7	7	ND	ND	ND	ND	ND	1.1	ND	ND	---	---
KS-28-6.5	6.5	ND	ND	ND	ND	ND	1.1	ND	ND	---	---
KS-33-5	5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
KS-33-5*	5	ND	ND	ND	ND	ND	ND	---	ND	ND	---
KW-14-6	6	ND	ND	ND	ND	ND	ND	ND	---	---	---
KW-22-7.5	7.5	ND	ND	0.110	0.037	2.8	1.4	ND	---	---	---
KW-34-6.5	6.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
LB-4-6.5	6.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
LB-4-6.5*	6.5	ND	ND	ND	ND	ND	ND	---	ND	ND	ND
LB-15-10.5	10.5	ND	ND	ND	ND	ND	1.1	ND	ND	---	---
LB-20-10.5	10.5	ND	ND	ND	ND	1.4	ND	ND	ND	---	---
LB-20-10.5*	10.5	ND	ND	ND	ND	1.4	ND	---	10	ND	ND
LB-24-12.5	12.5	ND	ND	ND	ND	ND	1.2	ND	ND	---	---
LB-44-10.5	10.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
LB-45-10.5	10.5	ND	ND	ND	ND	ND	ND	ND	ND	---	---
LE-1-3.5	3.5	---	---	---	---	---	ND	ND	ND	---	---
LE-6-5	5	ND	ND	ND	ND	ND	---	---	---	---	---
LE-18-7	7	ND	ND	ND	ND	ND	ND	ND	ND	---	---
LE-25-9	9	0.012	ND	ND	ND	1.1	ND	ND	ND	---	---
LE-40-4.5	4.5	ND	ND	ND	ND	ND	ND	ND	---	---	---
LE-40-4.5	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
LE-41-5	5	ND	ND	ND	ND	1.1	ND	ND	---	---	---
LN-27-6	6	ND	ND	ND	ND	ND	ND	ND	ND	---	---
LN-34-3.5	3.5	0.011	ND	0.0057	0.035	3.5	ND	ND	---	---	---
LS-2-3	3	---	---	---	---	---	3.3	ND	76	---	---
LS-10-4	4	ND	ND	0.0093	0.033	3.3	73	ND	510	---	---
LS-30-4	4	ND	ND	ND	ND	ND	1.9	ND	ND	---	---
LS-36-4	4	ND	ND	ND	ND	ND	2.4	ND	---	---	---
LS-36-4*	4	ND	ND	ND	ND	ND	ND	---	30	ND	---
LS-43-6.5	6.5	---	---	---	---	---	ND	ND	---	---	---
LS-47-7	7	ND	ND	ND	ND	ND	ND	ND	---	---	---
LS-47-7*	7	ND	ND	ND	ND	ND	ND	---	ND	ND	---
LW-3-5	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	---
LW-3-5*	5	ND	ND	ND	ND	ND	ND	---	ND	ND	ND
LW-28-4	4	ND	ND	ND	ND	2.1	ND	ND	ND	---	---
LW-28.1-8**	8	0.014	ND	0.140	0.093	4	ND	---	20	10	---
LW-35-4	4	ND	ND	ND	ND	ND	ND	ND	---	---	---
LW-39-4.5	4.5	ND	ND	ND	0.0063	1.3	ND	ND	---	---	---

NOTES:
* Duplicate sample collected by Levine-Fricke Inc.
** Sample collected by Levine-Fricke Inc. only.
ND = not detected
Samples collected by Aqua Resources, Inc. were analyzed by Curtis & Tompkins, Ltd., Analytical Laboratories. Samples were analyzed for total volatile hydrocarbons (TVH) as gasoline, and extractable petroleum hydrocarbons (EPH) as kerosene and diesel using modified EPA Method 8015, BTEX using EPA Method 8020, and oil and grease by Standard Method 5520e and total recoverable hydrocarbons by 5520f.
Samples collected by Levine-Fricke were analyzed by Quanteq Laboratories (formerly Med-Tox Associates, Inc.) using the same methods as Aqua Resources, Inc. Several samples also were analyzed for oil using modified EPA Method 8015.

TABLE 4

ANALYTICAL RESULTS OF FINAL VERIFICATION SOIL SAMPLES

COLLECTED FROM NORTHERN AREA EXCAVATION*

(results in parts per million [ppm])

Sample ID	Sample Depth (feet)	Date Sampled	Laboratory Analysis Return Date	Total Recoverable Hydrocarbons	TPH as Oil	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
BS-1	13	12/17/91	12/19/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-2	12	12/17/91	12/19/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-3	11	12/17/91	12/19/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-4	12	12/19/91	12/23/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	0.021
BS-5	12	12/19/91	12/23/91	<50	<50	<10	<10	<0.005	0.006	<0.005	0.008
BS-6	12	12/20/91	12/23/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-7	12	12/23/91	12/26/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-8	13	12/23/91	12/26/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-9	12.5	12/23/91	12/26/91	<50	<50	<10	<10	<0.005	<0.005	0.047	<0.005
BS-10	13	12/26/91	12/30/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-11	13	12/26/91	12/30/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-12	14	12/26/91	12/30/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-13	13	12/26/91	12/30/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-14	11.5	12/27/91	12/31/91	<50	<50	<10	<10	<0.005	0.006	<0.005	0.007
BS-15	12	12/27/91	12/31/91	<50	<50	<10	<10	<0.005	0.006	<0.005	0.006
BS-16	12.5	01/03/92	01/06/92	<50	<50	<10	<10	0.006	<0.005	0.007	<0.005
BS-17	12	01/03/92	01/06/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-18	13	01/10/92	01/14/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-19	12.5	01/10/92	01/14/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-20	13	01/14/92	01/17/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-21	13	01/14/92	01/17/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-22	12.5	01/15/92	01/17/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-23	12.5	01/16/92	01/20/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-24	13	01/17/92	01/20/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-25	11.5	01/20/92	01/22/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-26	13	01/21/92	01/23/92	<50	<50	<10	<10	0.013	<0.005	<0.005	0.010
BS-30	12	01/23/92	01/24/92	<50	<50	<10	<10	<0.005	<0.005	0.047	0.028
BS-31	14	01/23/92	01/24/92	<50	<50	<10	<10	0.090	0.010	0.053	0.046
BS-32	13	01/24/92	01/27/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	0.010

TABLE 4
ANALYTICAL RESULTS OF FINAL VERIFICATION SOIL SAMPLES
COLLECTED FROM NORTHERN AREA EXCAVATION*
(results in parts per million [ppm])

Sample ID	Sample Depth (feet)	Date Sampled	Laboratory Analysis Return Date	Total Recoverable Hydrocarbons	TPH as Oil	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
BS-33	11	02/07/92	02/11/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-34	11	02/07/92	02/11/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-35	9	02/14/92	02/19/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-36	8	03/03/92	03/05/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
BS-37	11	03/03/92	03/05/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-1	8	12/17/91	12/19/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-2	8	12/17/91	12/19/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-3	8.5	12/19/91	12/23/91	<50	<50	<10	<10	<0.005	0.005	<0.005	0.007
SW-5	9	12/20/91	12/23/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-6	8	12/20/91	12/23/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-7	8	12/20/91	12/23/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-8	9	12/20/91	12/23/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-9	10	12/20/91	12/23/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-10	9	12/23/91	12/26/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-11	8	12/23/91	12/26/91	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-15	8.5	01/10/92	01/14/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-16	11	01/14/92	01/17/92	<50	<50	<10	<10	0.120	0.008	0.10	0.075
SW-17	11	01/15/92	01/17/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-18	12	01/15/92	01/17/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-19	11	01/16/92	01/20/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-20	11	01/16/92	01/20/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-21	9	01/17/92	01/20/92	<50	<50	<10	<10	<0.005	0.006	<0.005	<0.005
SW-22	10	01/17/92	01/20/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-24	9	01/20/92	01/23/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-25	10	01/20/92	01/23/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-26	9	01/20/92	01/23/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-28	10	01/21/92	01/23/92	50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-36	9	01/27/92	01/29/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-37	9	01/27/92	01/29/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-38	10	01/29/92	01/31/92	<50	<50	<10	45	0.70	<0.03	6.6	14

TABLE 4
ANALYTICAL RESULTS OF FINAL VERIFICATION SOIL SAMPLES
COLLECTED FROM NORTHERN AREA EXCAVATION*
(results in parts per million [ppm])

Sample ID	Sample Depth (feet)	Date Sampled	Laboratory Analysis Return Date	Total Recoverable Hydrocarbons	TPH as Oil	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
SW-39	10	01/29/92	01/31/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-40	10	01/29/92	01/31/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-41	10	01/30/92	02/03/92	<50	<50	11	90	0.63	<0.03	4	10
SW-42	10	01/30/92	02/03/92	<50	<50	<10	70	0.08	<0.03	2.4	13
SW-43	7.5	01/30/92	02/03/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-46	10	02/07/92	02/11/92	<50	<50	<10	<10	0.006	<0.005	0.061	0.123
SW-47	9	02/07/92	02/11/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	0.006
SW-49	9	02/07/92	02/11/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	0.007
SW-50	4	02/14/92	02/19/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-51	4	02/14/92	02/19/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-52	4	02/14/92	02/19/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-53	4	03/03/92	03/05/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-55	4	03/04/92	03/06/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-56	4	03/05/92	03/06/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SW-57	5	03/05/92	03/06/92	<50	<50	<10	<10	<0.005	<0.005	<0.005	<0.005

* All samples analyzed by Precision Analytical Laboratories Inc. of Richmond, California. Samples were analyzed for total petroleum hydrocarbons (TPH) as oil, diesel, and gasoline using Modified EPA Method 8015; benzene, toluene, ethylbenzene, and xylene using Modified EPA Method 8020; and total hydrocarbons using Standard Method 5520f, 17th Edition.

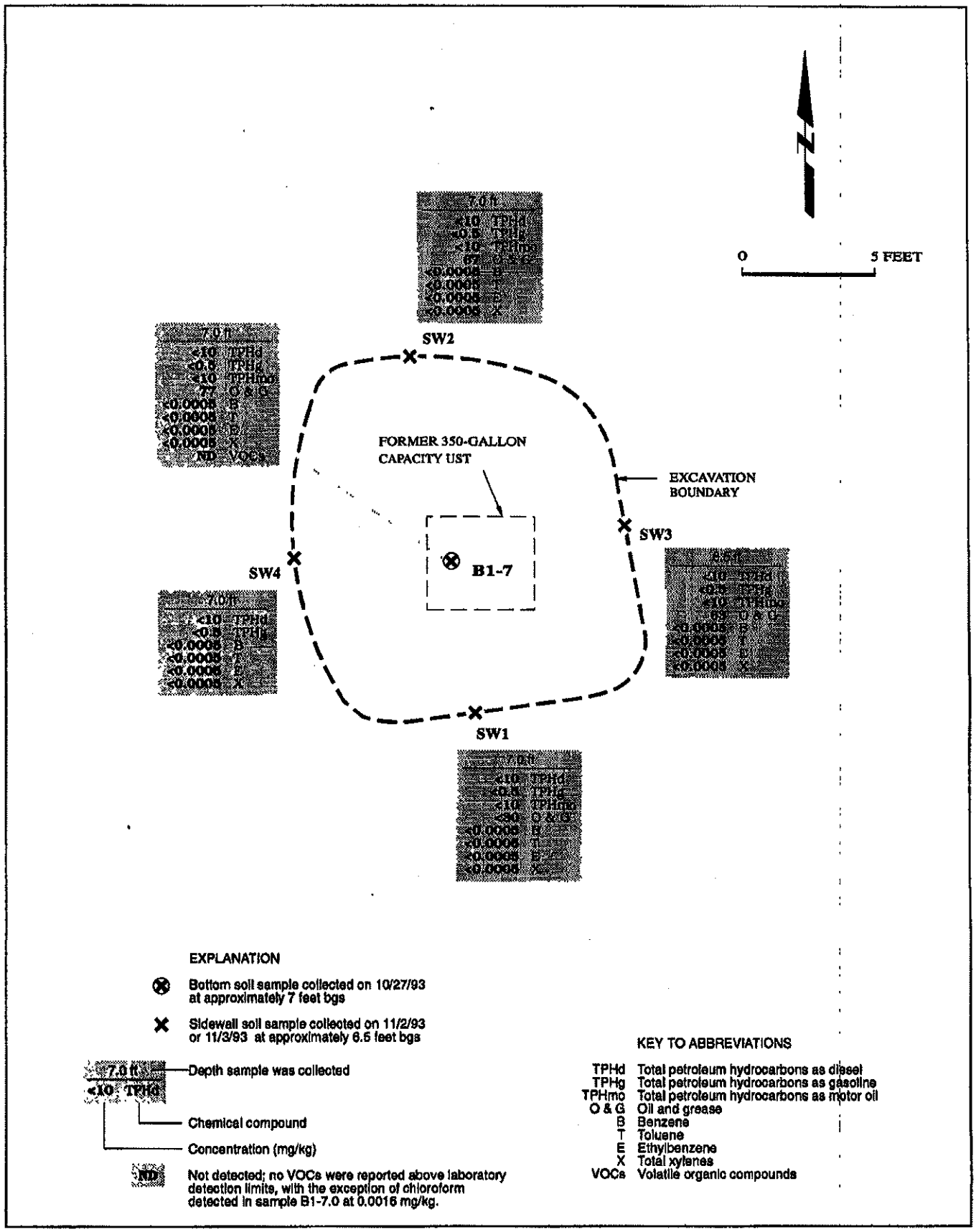


Figure 3 : APPROXIMATE LOCATIONS OF SOIL SAMPLES COLLECTED FROM THE FORMER UST EXCAVATION 40TH AND HOLLIS STREETS, EMERYVILLE, CALIFORNIA

TABLE 5
ANALYTICAL RESULTS OF CHARACTERIZATION SOIL SAMPLES
COLLECTED FROM SOILS STOCKPILED BY AQUA RESOURCES INC.
EMERYVILLE, CALIFORNIA
(all data in parts per million [ppm])

Sample ID	Date Sampled	Lab analysis return date	TPH	Diesel	Oil	O/G	Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
SP1-1	15-Oct-91	17-Oct-91	NA	<10	180	NA	<10	NA	NA	NA	NA
SP2-1	15-Oct-91	17-Oct-91	NA	<10	80	NA	<10	NA	NA	NA	NA
SP3-1	15-Oct-91	17-Oct-91	NA	<10	570	NA	<10	NA	NA	NA	NA
SP3-2	23-Oct-91	28-Oct-91	NA	17	320	NA	<10	NA	NA	NA	NA
SP3-3	23-Oct-91	28-Oct-91	NA	13	690	17,000	<10	NA	NA	NA	NA
SP4-1	15-Oct-91	17-Oct-91	NA	<10	560	NA	<10	NA	NA	NA	NA
SP4-2	17-Oct-91	21-Oct-91	NA	<10	590	NA	<10	NA	NA	NA	NA
SP4-3	17-Oct-91	21-Oct-91	NA	<10	1100	NA	<10	NA	NA	NA	NA
SP4-4	23-Oct-91	28-Oct-91	NA	<10	255	NA	<10	NA	NA	NA	NA
SP4-5	23-Oct-91	28-Oct-91	NA	11	160	NA	<10	NA	NA	NA	NA
SP4-6	23-Oct-91	28-Oct-91	NA	10	260	NA	<10	NA	NA	NA	NA
SP4-7	23-Oct-91	28-Oct-91	NA	<10	170	NA	<10	NA	NA	NA	NA
SP4-8	23-Oct-91	28-Oct-91	NA	<10	210	NA	<10	NA	NA	NA	NA
SP4-9	23-Oct-91	28-Oct-91	NA	<10	175	NA	<10	NA	NA	NA	NA
SP4-10	23-Oct-91	28-Oct-91	NA	<10	220	NA	<10	NA	NA	NA	NA
SP4-11	23-Oct-91	28-Oct-91	NA	<10	130	NA	<10	NA	NA	NA	NA
SP4-12	23-Oct-91	28-Oct-91	NA	<10	180	NA	<10	NA	NA	NA	NA
SP4-13	23-Oct-91	28-Oct-91	NA	<10	320	NA	<10	NA	NA	NA	NA
SP4-14	23-Oct-91	29-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-15	23-Oct-91	29-Oct-91	NA	<10	55	NA	<10	NA	NA	NA	NA
SP4-16	23-Oct-91	29-Oct-91	NA	10	70	NA	<10	<0.005	<0.005	<0.005	0.011
SP4-17	23-Oct-91	29-Oct-91	NA	16	<50	NA	<10	NA	NA	NA	NA
SP4-18	23-Oct-91	29-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-19	23-Oct-91	29-Oct-91	NA	<10	50	NA	<10	NA	NA	NA	NA
SP4-20	23-Oct-91	31-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-21	23-Oct-91	31-Oct-91	NA	<10	71	NA	<10	NA	NA	NA	NA
SP4-22	23-Oct-91	31-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-23	23-Oct-91	31-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-24	23-Oct-91	31-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-25	23-Oct-91	31-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-26	23-Oct-91	31-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-27	23-Oct-91	31-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-28	23-Oct-91	31-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-29	23-Oct-91	31-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-30	23-Oct-91	31-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-31	23-Oct-91	31-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-32	23-Oct-91	31-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-33	23-Oct-91	31-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-34	23-Oct-91	31-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-35	23-Oct-91	31-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-36	23-Oct-91	30-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-37	23-Oct-91	30-Oct-91	NA	<10	73	NA	<10	NA	NA	NA	NA
SP4-38	23-Oct-91	30-Oct-91	NA	10	60	NA	<10	<0.005	<0.005	<0.005	0.010
SP4-39	23-Oct-91	30-Oct-91	NA	<10	70	NA	<10	NA	NA	NA	NA
SP4-40	23-Oct-91	30-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA

TABLE 5
ANALYTICAL RESULTS OF CHARACTERIZATION SOIL SAMPLES
COLLECTED FROM SOILS STOCKPILED BY AQUA RESOURCES INC.
EMERYVILLE, CALIFORNIA
(all data in parts per million [ppm])

Sample ID	Date Sampled	Lab analysis return date	TPH	Diesel	Oil	O/G	Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
SP4-41	23-Oct-91	30-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-42	23-Oct-91	30-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-43	23-Oct-91	30-Oct-91	NA	10	80	NA	<10	NA	NA	NA	NA
SP4-44	23-Oct-91	30-Oct-91	NA	10.5	60	NA	<10	NA	NA	NA	NA
SP4-45	23-Oct-91	30-Oct-91	NA	<10	70	NA	<10	NA	NA	NA	NA
SP4-46	23-Oct-91	30-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-47	23-Oct-91	30-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-48	23-Oct-91	30-Oct-91	NA	10	60	NA	<10	NA	NA	NA	NA
SP4-49	23-Oct-91	30-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP4-50	23-Oct-91	30-Oct-91	NA	<10	60	NA	<10	NA	NA	NA	NA
SP4-51	07-Nov-91	15-Nov-91	NA	NA	NA	NA	1.3	<0.005	0.012	0.006	0.034
SP4-52	07-Nov-91	15-Nov-91	NA	NA	NA	NA	3.5	<0.005	0.006	<0.005	0.024
SP5-1	15-Oct-91	17-Oct-91	NA	<10	51	NA	<10	NA	NA	NA	NA
SP6-1	15-Oct-91	17-Oct-91	NA	<10	110	NA	<10	NA	NA	NA	NA
SP7-1	15-Oct-91	17-Oct-91	NA	<10	100	NA	<10	NA	NA	NA	NA
SP8-1	15-Oct-91	17-Oct-91	NA	<10	130	NA	<10	NA	NA	NA	NA
SP8-2	15-Oct-91	17-Oct-91	NA	<10	80	NA	<10	NA	NA	NA	NA
SP9-1	15-Oct-91	17-Oct-91	NA	<10	480	NA	<10	NA	NA	NA	NA
SP9-2	15-Oct-91	17-Oct-91	NA	<10	360	NA	<10	NA	NA	NA	NA
SP9-1	23-Oct-91	28-Oct-91	NA	<10	80	NA	<10	NA	NA	NA	NA
SP9-2	23-Oct-91	28-Oct-91	NA	<10	10	NA	<10	NA	NA	NA	NA
SP9-3	23-Oct-91	28-Oct-91	NA	<10	270	NA	<10	NA	NA	NA	NA
SP9-4	23-Oct-91	28-Oct-91	NA	<10	110	NA	<10	NA	NA	NA	NA
SP9-5	23-Oct-91	28-Oct-91	NA	<10	200	NA	<10	NA	NA	NA	NA
SP9-6	23-Oct-91	28-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP9-7	23-Oct-91	28-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP9-8	23-Oct-91	28-Oct-91	NA	<10	230	NA	<10	NA	NA	NA	NA
SP9-9	23-Oct-91	28-Oct-91	NA	<10	140	NA	<10	NA	NA	NA	NA
SP9-10	23-Oct-91	28-Oct-91	NA	<10	130	NA	<10	NA	NA	NA	NA
SP9-11	23-Oct-91	28-Oct-91	NA	<10	215	NA	<10	NA	NA	NA	NA
SP9-12	23-Oct-91	28-Oct-91	NA	<10	260	NA	<10	NA	NA	NA	NA
SP9-13	23-Oct-91	28-Oct-91	NA	<10	85	NA	<10	NA	NA	NA	NA
SP9-14	23-Oct-91	28-Oct-91	NA	<10	160	NA	<10	NA	NA	NA	NA
SP9-15	23-Oct-91	28-Oct-91	NA	<10	110	NA	<10	NA	NA	NA	NA
SP9-16	23-Oct-91	28-Oct-91	NA	<10	80	NA	<10	NA	NA	NA	NA
SP9-17	23-Oct-91	28-Oct-91	NA	<10	225	NA	<10	NA	NA	NA	NA
SP9-18	23-Oct-91	28-Oct-91	NA	<10	125	NA	<10	NA	NA	NA	NA
SP9-19	23-Oct-91	28-Oct-91	NA	<10	60	NA	<10	NA	NA	NA	NA
SP9-20	23-Oct-91	28-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP9-21	23-Oct-91	28-Oct-91	NA	<10	66	NA	<10	NA	NA	NA	NA
SP9-22	23-Oct-91	28-Oct-91	NA	<10	276	NA	<10	NA	NA	NA	NA
SP9-23	23-Oct-91	28-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP9-24	23-Oct-91	28-Oct-91	NA	<10	88	NA	<10	NA	NA	NA	NA

TABLE 5
ANALYTICAL RESULTS OF CHARACTERIZATION SOIL SAMPLES
COLLECTED FROM SOILS STOCKPILED BY AQUA RESOURCES INC.
EMERYVILLE, CALIFORNIA
(all data in parts per million [ppm])

Sample ID	Date Sampled	Lab analysis return date	TPH	Diesel	Oil	O/G	Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
SP10-1	15-Oct-91	17-Oct-91	NA	<10	<50	NA	18	NA	NA	NA	NA
SP10-2	15-Oct-91	17-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP10-3	15-Oct-91	17-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP10-4	15-Oct-91	17-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP10-5	15-Oct-91	17-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP10-6	07-Nov-91	15-Nov-91	255	<10	<50	595	1.1	<0.005	0.011	<0.005	0.038
SP10-7	07-Nov-91	15-Nov-91	220	<10	<50	445	<1.0	<0.005	0.010	<0.005	0.030
SP10-8	07-Nov-91	15-Nov-91	1190	<10	<50	2570	6.5	<0.005	0.019	0.010	0.076
SP10-9	07-Nov-91	15-Nov-91	<50	<10	<50	<50	<1.0	<0.005	0.005	<0.005	0.006
SP11-1	16-Oct-91	18-Oct-91	NA	40	170	NA	<10	NA	NA	NA	NA
SP12-1	16-Oct-91	18-Oct-91	NA	430	2500	NA	<10				
SP12-2	24-Oct-91	11-Nov-91	NA	72	113	NA	<10	NA	NA	NA	NA
SP12-3	24-Oct-91	11-Nov-91	NA	53	134	NA	<10	NA	NA	NA	NA
SP12-4	24-Oct-91	11-Nov-91	NA	43.5	231	NA	<10	NA	NA	NA	NA
SP12-5	24-Oct-91	11-Nov-91	NA	22.9	89	NA	<10	NA	NA	NA	NA
SP12-6	24-Oct-91	11-Nov-91	NA	2000	1430	16,300	<10	NA	NA	NA	NA
SP12-7	24-Oct-91	11-Nov-91	NA	36.9	96.6	NA	<10	NA	NA	NA	NA
SP13-1	16-Oct-91	18-Oct-91	NA	19	880	NA	<10	NA	NA	NA	NA
SP13-2	25-Oct-91	14-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP13-3	25-Oct-91	14-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP13-4	25-Oct-91	14-Oct-91	NA	<10	93	NA	<10	NA	NA	NA	NA
SP13-5	25-Oct-91	14-Oct-91	NA	13	113	NA	<10	NA	NA	NA	NA
SP13-6	25-Oct-91	14-Oct-91	NA	<10	77	NA	<10	NA	NA	NA	NA
SP13-7	25-Oct-91	14-Oct-91	NA	13.5	134	NA	<10	NA	NA	NA	NA
SP13-8	25-Oct-91	14-Oct-91	NA	<10	70	NA	<10	NA	NA	NA	NA
SP13-9	25-Oct-91	14-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP13-10	25-Oct-91	14-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP13-11	25-Oct-91	14-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP13-12	25-Oct-91	14-Oct-91	NA	13.7	104	NA	<10	NA	NA	NA	NA
SP13-13	25-Oct-91	14-Oct-91	NA	<10	56	NA	<10	NA	NA	NA	NA
SP13-14	25-Oct-91	14-Oct-91	NA	26	185	NA	<10	NA	NA	NA	NA
SP13-15	25-Oct-91	14-Oct-91	NA	22.8	237	NA	<10	NA	NA	NA	NA
SP13-16	25-Oct-91	14-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP14-1	16-Oct-91	18-Oct-91	NA	<10	90	NA	<10	NA	NA	NA	NA
SP15-1	16-Oct-91	18-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP15-2	16-Oct-91	18-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-1D,2D,3	16-Oct-91	18-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-4D,5D,6	16-Oct-91	18-Oct-91	NA	17	100	NA	17	NA	NA	NA	NA
SP16-7D,8D,9	16-Oct-91	18-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-9D	18-Oct-91	21-Oct-91	NA	60	150	NA	390	NA	NA	NA	NA
SP16-10D	18-Oct-91	21-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-11	25-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA

TABLE 5
ANALYTICAL RESULTS OF CHARACTERIZATION SOIL SAMPLES
COLLECTED FROM SOILS STOCKPILED BY AQUA RESOURCES INC.
EMERYVILLE, CALIFORNIA
(all data in parts per million [ppm])

Sample ID	Date Sampled	Lab analysis return date	TPH	Diesel	Oil	O/G	Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
SP16-12	25-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	<0.005	0.008	<0.005	0.016
SP16-13	25-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-14	25-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-15	25-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-16	25-Oct-91	11-Nov-91	NA	40	537	NA	<10	NA	NA	NA	NA
SP16-17	25-Oct-91	11-Nov-91	NA	<10	73	NA	<10	NA	NA	NA	NA
SP16-18	25-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-19	25-Oct-91	11-Nov-91	NA	<10	65	NA	<10	NA	NA	NA	NA
SP16-20	25-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-21	25-Oct-91	11-Nov-91	NA	<10	119	NA	<10	NA	NA	NA	NA
SP16-22	25-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-23	25-Oct-91	11-Nov-91	NA	<10	116	NA	<10	NA	NA	NA	NA
SP16-24	25-Oct-91	11-Nov-91	NA	<10	54	NA	<10	NA	NA	NA	NA
SP16-25	25-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-26	25-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-27	25-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-28	25-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-29	25-Oct-91	12-Nov-91	NA	<10	245	5680	<10	NA	NA	NA	NA
SP16-30	25-Oct-91	12-Nov-91	NA	<10	68	NA	<10	NA	NA	NA	NA
SP16-31	25-Oct-91	12-Nov-91	NA	<10	71	NA	<10	<0.005	<0.005	<0.005	0.007
SP16-32	25-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-33	25-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-34	25-Oct-91	12-Nov-91	NA	11.8	190	NA	<10	NA	NA	NA	NA
SP16-35	25-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-36	25-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-37	25-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-38	25-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-39	25-Oct-91	12-Nov-91	NA	<10	102	NA	<10	NA	NA	NA	NA
SP16-40	25-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-41	25-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-42	25-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP16-43	25-Oct-91	14-Nov-91	NA	<10	51	NA	<10	NA	NA	NA	NA
SP16-44	25-Oct-91	14-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP16-45	25-Oct-91	14-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP16-46	25-Oct-91	14-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP16-47	25-Oct-91	14-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP16-48	25-Oct-91	14-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP16-49	25-Oct-91	14-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP16-50	25-Oct-91	14-Nov-91	NA	<10	<10	NA	45	NA	NA	NA	NA
SP16-51	07-Nov-91	15-Nov-91	NA	NA	NA	NA	<1.0	0.006	0.011	<0.005	0.027
SP16-52	07-Nov-91	15-Nov-91	NA	NA	NA	NA	1.1	0.009	0.024	0.012	0.085
SP17-1	15-Oct-91	17-Oct-91	NA	<10	130	NA	<10	NA	NA	NA	NA
SP18-1	18-Oct-91	21-Oct-91	NA	100	1260	NA	<10	NA	NA	NA	NA
SP18-2	24-Oct-91	11-Nov-91	NA	37.2	239	NA	<10				
SP19-1	16-Oct-91	18-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP19-2	16-Oct-91	18-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA

TABLE 5
ANALYTICAL RESULTS OF CHARACTERIZATION SOIL SAMPLES
COLLECTED FROM SOILS STOCKPILED BY AQUA RESOURCES INC.
EMERYVILLE, CALIFORNIA
(all data in parts per million [ppm])

Sample ID	Date Sampled	Lab analysis return date	TPH	Diesel	Oil	O/G	Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
SP19-3	16-Oct-91	18-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP19-4	16-Oct-91	18-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP19-5	07-Nov-91	15-Nov-91	150	NA	NA	200	2.0	<0.005	0.012	0.007	0.045
SP19-6	07-Nov-91	15-Nov-91	245	NA	NA	265	<1.0	<0.005	0.008	<0.005	0.023
SP20-1D,3D c	16-Oct-91	18-Oct-91	NA	<10	110	NA	<10	NA	NA	NA	NA
SP20-2D	18-Oct-91	21-Oct-91	NA	<10	1230	NA	<10	NA	NA	NA	NA
SP20-4D,5D c	16-Oct-91	18-Oct-91	NA	<10	300	NA	<10	NA	NA	NA	NA
SP20-6D	18-Oct-91	21-Oct-91	NA	12	560	NA	<10	NA	NA	NA	NA
SP20-7D	18-Oct-91	21-Oct-91	NA	<10	810	NA	<10	NA	NA	NA	NA
SP20-8D	18-Oct-91	21-Oct-91	NA	<10	300	NA	15	NA	NA	NA	NA
SP20-9D	18-Oct-91	21-Oct-91	NA	<10	51	NA	<10	NA	NA	NA	NA
SP20-10	24-Oct-91	01-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP20-11	24-Oct-91	01-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP20-12	24-Oct-91	01-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP20-13	24-Oct-91	01-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP20-14	24-Oct-91	01-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP20-15	24-Oct-91	01-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP20-16	24-Oct-91	01-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP20-17	24-Oct-91	01-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP20-18	24-Oct-91	01-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP20-19	24-Oct-91	01-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP20-20	24-Oct-91	01-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP20-21	24-Oct-91	01-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP20-22	24-Oct-91	01-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP20-23	24-Oct-91	01-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP20-24	24-Oct-91	01-Nov-91	NA	<10	<10	NA	<10	NA	NA	NA	NA
SP20-25	24-Oct-91	01-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-26	24-Oct-91	04-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-27	24-Oct-91	04-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	0.011
SP20-28	24-Oct-91	04-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-29	24-Oct-91	04-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-30	24-Oct-91	04-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-31	24-Oct-91	04-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-32	24-Oct-91	04-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-33	24-Oct-91	04-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-34	24-Oct-91	04-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-35	24-Oct-91	04-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-36	24-Oct-91	04-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-37	24-Oct-91	04-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-38	24-Oct-91	04-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-39	24-Oct-91	04-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-40	24-Oct-91	04-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-41	24-Oct-91	04-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-42	24-Oct-91	05-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-43	24-Oct-91	05-Nov-91	NA	<10	<50	NA	<10	<0.005	<0.005	<0.005	0.006
SP20-44	24-Oct-91	05-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-45	24-Oct-91	05-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-46	24-Oct-91	05-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA

TABLE 5
ANALYTICAL RESULTS OF CHARACTERIZATION SOIL SAMPLES
COLLECTED FROM SOILS STOCKPILED BY AQUA RESOURCES INC.
EMERYVILLE, CALIFORNIA
(all data in parts per million [ppm])

Sample ID	Date Sampled	Lab analysis return date	TPH	Diesel	Oil	O/G	Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
SP20-47	24-Oct-91	05-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-48	24-Oct-91	05-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-49	24-Oct-91	05-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-50	24-Oct-91	05-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-51	24-Oct-91	05-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-52	24-Oct-91	05-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-53	24-Oct-91	05-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-54	24-Oct-91	05-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-55	24-Oct-91	05-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-56	24-Oct-91	05-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-57	24-Oct-91	05-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-58	24-Oct-91	06-Nov-91	NA	13	305	NA	<10	NA	NA	NA	NA
SP20-59	24-Oct-91	06-Nov-91	NA	16	280	NA	<10	NA	NA	NA	NA
SP20-60	24-Oct-91	06-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-61	24-Oct-91	06-Nov-91	NA	<10	86	NA	<10	NA	NA	NA	NA
SP20-62	24-Oct-91	06-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-63	24-Oct-91	06-Nov-91	NA	<10	91	NA	<10	NA	NA	NA	NA
SP20-64	24-Oct-91	06-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-65	24-Oct-91	06-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-66	24-Oct-91	06-Nov-91	NA	10	83	NA	<10	NA	NA	NA	NA
SP20-67	24-Oct-91	06-Nov-91	NA	<10	300	NA	<10	NA	NA	NA	NA
SP20-68	24-Oct-91	06-Nov-91	NA	10	57	NA	<10	NA	NA	NA	NA
SP20-69	24-Oct-91	06-Nov-91	NA	<10	150	NA	<10	NA	NA	NA	NA
SP20-70	24-Oct-91	06-Nov-91	NA	<10	90	NA	<10	NA	NA	NA	NA
SP20-71	24-Oct-91	06-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-72	24-Oct-91	06-Nov-91	NA	<10	110	NA	<10	NA	NA	NA	NA
SP20-73	24-Oct-91	06-Nov-91	NA	10	83	NA	<10	NA	NA	NA	NA
SP20-74	24-Oct-91	07-Nov-91	NA	<10	115	NA	<10	NA	NA	NA	NA
SP20-75	24-Oct-91	07-Nov-91	NA	<10	50	NA	<10	NA	NA	NA	NA
SP20-76	24-Oct-91	07-Nov-91	NA	<10	84	NA	<10	NA	NA	NA	NA
SP20-77	24-Oct-91	07-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-78	24-Oct-91	07-Nov-91	NA	<10	67	NA	<10	NA	NA	NA	NA
SP20-79	24-Oct-91	07-Nov-91	NA	<10	50	NA	<10	NA	NA	NA	NA
SP20-80	24-Oct-91	07-Nov-91	NA	<10	130	NA	<10	NA	NA	NA	NA
SP20-81	24-Oct-91	07-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-82	24-Oct-91	07-Nov-91	NA	19	<50	NA	<10	NA	NA	NA	NA
SP20-83	24-Oct-91	07-Nov-91	NA	<10	70	NA	<10	NA	NA	NA	NA
SP20-84	24-Oct-91	07-Nov-91	NA	16	210	NA	<10	NA	NA	NA	NA
SP20-85	24-Oct-91	07-Nov-91	NA	16	120	NA	<10	NA	NA	NA	NA
SP20-86	24-Oct-91	07-Nov-91	NA	<10	100	NA	<10	NA	NA	NA	NA
SP20-87	24-Oct-91	07-Nov-91	NA	<10	56	NA	<10	NA	NA	NA	NA
SP20-88	24-Oct-91	07-Nov-91	NA	<10	225	NA	<10	NA	NA	NA	NA
SP20-89	24-Oct-91	07-Nov-91	NA	<10	90	NA	<10	NA	NA	NA	NA
SP20-90	24-Oct-91	08-Nov-91	NA	<10	94	NA	<10	NA	NA	NA	NA
SP20-91	24-Oct-91	08-Nov-91	NA	15	<50	NA	<10	NA	NA	NA	NA
SP20-92	24-Oct-91	08-Nov-91	NA	15.6	<50	NA	<10	NA	NA	NA	NA
SP20-93	24-Oct-91	08-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-94	24-Oct-91	08-Nov-91	NA	12	<50	NA	<10	NA	NA	NA	NA
SP20-95	24-Oct-91	08-Nov-91	NA	15.9	229	NA	<10	NA	NA	NA	NA

TABLE 5
ANALYTICAL RESULTS OF CHARACTERIZATION SOIL SAMPLES
COLLECTED FROM SOILS STOCKPILED BY AQUA RESOURCES INC.
EMERYVILLE, CALIFORNIA
(all data in parts per million [ppm])

Sample ID	Date Sampled	Lab analysis return date	TPH	Diesel	Oil	O/G	Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
SP20-96	24-Oct-91	08-Nov-91	NA	19	93	NA	<10	NA	NA	NA	NA
SP20-97	24-Oct-91	08-Nov-91	NA	11	90	NA	<10	NA	NA	NA	NA
SP20-98	24-Oct-91	08-Nov-91	NA	<10	140	NA	<10	NA	NA	NA	NA
SP20-99	24-Oct-91	08-Nov-91	NA	<10	71	NA	<10	NA	NA	NA	NA
SP20-100	24-Oct-91	08-Nov-91	NA	<10	60	NA	<10	NA	NA	NA	NA
SP20-101	24-Oct-91	08-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-102	24-Oct-91	08-Nov-91	NA	11	86	NA	<10	NA	NA	NA	NA
SP20-103	24-Oct-91	08-Nov-91	NA	<10	51	NA	<10	NA	NA	NA	NA
SP20-104	24-Oct-91	08-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-105	24-Oct-91	08-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-106	24-Oct-91	12-Nov-91	NA	<10	56	NA	<10	NA	NA	NA	NA
SP20-107	24-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-108	24-Oct-91	12-Nov-91	NA	13	84	NA	<10	NA	NA	NA	NA
SP20-109	24-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-110	24-Oct-91	12-Nov-91	NA	<10	90	NA	<10	NA	NA	NA	NA
SP20-111	24-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-112	24-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-113	24-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-114	24-Oct-91	12-Nov-91	NA	13.6	68	NA	<10	NA	NA	NA	NA
SP20-115	24-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-116	24-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-117	24-Oct-91	12-Nov-91	NA	12.7	174	NA	<10	NA	NA	NA	NA
SP20-118	24-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP29-119	24-Oct-91	12-Nov-91	NA	10	131	NA	<10	NA	NA	NA	NA
SP20-120	24-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-121	24-Oct-91	12-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-122	24-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-123	24-Oct-91	11-Nov-91	NA	<10	61	NA	<10	NA	NA	NA	NA
SP20-124	24-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-125	24-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-126	24-Oct-91	11-Nov-91	NA	12	145	NA	<10	NA	NA	NA	NA
SP20-127	24-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-128	24-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-129	24-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-130	24-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-131	24-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-132	24-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-133	24-Oct-91	11-Nov-91	NA	65	<50	NA	<10	NA	NA	NA	NA
SP20-134	24-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-135	24-Oct-91	11-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP20-136	07-Nov-91	15-Nov-91	NA	NA	NA	NA	<1.0	<0.005	0.006	<0.005	0.012
SP20-137	07-Nov-91	15-Nov-91	NA	NA	NA	NA	<1.0	<0.005	0.003	<0.005	0.012
SP21-1	16-Oct-91	18-Oct-91	NA	<10	<50	NA	<10	NA	NA	NA	NA

TABLE 5
ANALYTICAL RESULTS OF CHARACTERIZATION SOIL SAMPLES
COLLECTED FROM SOILS STOCKPILED BY AQUA RESOURCES INC.
EMERYVILLE, CALIFORNIA
(all data in parts per million [ppm])

Sample ID	Date Sampled	Lab analysis return date	TPH	Diesel	Oil	O/G	Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
SP22-1	16-Oct-91	18-Oct-91	NA	17	280	NA	<10	NA	NA	NA	NA
SP22-2	16-Oct-91	18-Oct-91	NA	<10	110	NA	<10	NA	NA	NA	NA
SP22-3	25-Oct-91	14-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA
SP22-4	25-Oct-91	14-Nov-91	NA	14	112	NA	<10	NA	NA	NA	NA
SP22-5	25-Oct-91	14-Nov-91	NA	<10	<50	NA	<10	NA	NA	NA	NA

NOTES:

O/G = Total oil and grease
TPH = Total petroleum hydrocarbons
NA = not analyzed

All samples analyzed by Precision Analytical Laboratories, Inc. of Richmond, California.

Analysis performed using Modified EPA Method 8015 for TPH as gasoline, diesel, oil; EPA Method 8020 for BTEX compounds; Standard Method 5520 for total oil and grease; and Standard Method, 16th Edition, 503E for total hydrocarbon analysis.

TABLE 2
ANALYTICAL RESULTS OF SOIL SAMPLES
COLLECTED FROM AQUA RESOURCES' AERATION BEDS
(concentrations in parts per million [ppm])

Sample ID	Stockpile	Benzene	Toluene	Ethyl-benzene	Xylenes	Gasoline	Diesel	Oil & Grease	Oil (EPA 8015)
Samples collected by Aqua Resources, Inc. *:									
A 1-2		ND	ND	ND	ND	ND	ND	590	NS
A 3-6		ND	ND	ND	ND	ND	ND	480	NS
B 1-4		ND	ND	ND	ND	ND	ND	330	NS
B 5-8		ND	ND	ND	ND	ND	ND	500	NS
C 1-2		ND	ND	ND	ND	ND	2.9	--	NS
C 3-6		ND	ND	ND	ND	ND	ND	1100	NS
C 7		--	--	--	--	--	--	500	NS
D 1-3		ND	ND	ND	ND	ND	ND	--	NS
D 4-7		ND	ND	ND	ND	ND	35	600	NS
D 8-11		--	--	--	--	--	--	400	NS
D 21-4		ND	ND	ND	ND	2.1	ND	510	NS
D 25-8		--	--	--	--	--	--	610	NS
D2 17-20		ND	0.014	0.0075	0.022	3.2	ND	370	NS
D2 29-32		--	--	--	--	--	--	630	NS
D2 40-43		ND	ND	ND	ND	ND	ND	560	NS
D2 44-47		ND	ND	0.0064	0.028	1.8	160	490	NS
D2 52-53		ND	ND	ND	2.5	1.8	27	1100	NS
D2 54-55		ND	ND	ND	0.0069	ND	13	620	NS
F 1-3		ND	ND	ND	ND	ND	ND	620	NS
F 4-6		ND	ND	ND	ND	ND	ND	380	NS
J 1-4		ND	ND	ND	ND	ND	28	ND	NS
J 5-8		ND	ND	ND	ND	ND	36	88	NS
J 9-12		ND	ND	ND	ND	ND	6.6	ND	NS
J 13-16		ND	ND	ND	ND	ND	6.3	ND	NS
J 17-20		ND	ND	ND	ND	ND	5.8	66	NS
J 21-24		--	--	--	--	ND	11	ND	NS
J 25-28		--	--	--	--	ND	13	ND	NS
J 29-30		ND	ND	ND	ND	ND	6.5	110	NS
J 31-34		ND	ND	ND	ND	ND	12	270	NS
JT 1-4		--	--	--	--	--	--	230	NS
JP 1-4		--	--	--	--	--	--	400	NS
Z 1-4		ND	ND	ND	ND	ND	170	630	NS
Confirmatory samples collected by Levine-Fricke**:									
R-110	1	ND	ND	ND	0.005	<10	<10	NA	54
R-192	2	ND	ND	ND	0.009	<10	<10	NA	60
R-542	6	ND	ND	ND	ND	<10	<10	NA	<50
R-694	6	ND	ND	ND	0.008	<10	<10	NA	59
R-906	6	ND	ND	ND	0.006	<10	<10	NA	59
R-1460	8	ND	ND	ND	ND	<10	<10	NA	<50
R-1519	8	ND	ND	ND	ND	<10	<10	NA	<50
R-1891	9	ND	ND	ND	ND	<10	<10	NA	<50
R-2303	9	ND	ND	ND	ND	<10	10	NA	83
R-2451	9	ND	ND	ND	0.022	<10	<10	NA	54
R-2472	9	ND	ND	ND	0.030	<10	<10	NA	63

NOTES:
* Soil samples collected by Aqua Resources were submitted to Curtis & Tompkins, Ltd., Analytical Laboratories of Berkeley, California
** Soil samples collected by Levine-Fricke were submitted to Precision Analytical Laboratory, Inc. of Richmond, California.
All soil samples were analyzed for gasoline and BTEX using Modified EPA Method 8015/8020; diesel using Modified EPA Method 8015; and oil and grease using EPA Method 5520e and f.
ND = not detected
NA = not analyzed

TABLE 6
ANALYTICAL RESULTS OF SOIL SAMPLES
COLLECTED FROM AERATION BEDS*
(results in parts per million [ppm])

Sample ID	Sample Depth (inches)	Date Sampled	Laboratory Analysis Return Date	TPH as Oil	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
SS-1-3A	6	05/20/92	05/21/92	<50	<10	<10	<0.005	<0.005	<0.005	0.008
SS-2-3A	6	05/20/92	05/21/92	<50	<10	<10	<0.005	<0.005	<0.005	0.040
SS-3-1A	8	05/22/92	05/28/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-4-2A	8	05/22/92	05/28/92	100	<10	<10	<0.005	<0.005	0.008	0.031
SS-5-5A	20	05/22/92	05/28/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-6-4A	6	05/22/92	05/28/92	<50	<10	13	0.045	<0.005	0.080	0.200
SS-7-6A	12	05/22/92	05/28/92	<50	<10	11	0.020	<0.005	0.090	0.110
SS-8-7A	14	05/22/92	05/28/92	<50	16	110	0.120	0.030	0.320	4.600
SS-9-1C	18	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-10-1B	20	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-11-2C	16	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-12-2B	10	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	0.006	0.006
SS-13-3C	24	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-14-3B	16	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-15-4C	16	05/26/92	05/29/92	<50	<10	12	<0.005	<0.005	0.014	0.095
SS-16-4B	10	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-17-5C	8	05/26/92	05/29/92	<50	<10	12	0.017	<0.005	0.029	0.060
SS-18-5B	16	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-19-6B	6	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-20-6C	18	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-21-7C	8	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-22-7B	8	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-23-8C	16	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-24-8B	24	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-25-9B	12	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-26-9C	12	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	<0.005	<0.005
SS-27-10C	14	05/26/92	05/29/92	60	21	31	0.024	<0.005	0.037	0.080
SS-28-10B	20	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	0.058	0.350
SS-29-10A	10	05/26/92	05/29/92	<50	<10	<10	<0.005	<0.005	0.011	0.021

TABLE 6
ANALYTICAL RESULTS OF SOIL SAMPLES
COLLECTED FROM AERATION BEDS*
(results in parts per million [ppm])

Sample ID	Sample Depth (inches)	Date Sampled	Laboratory Analysis Return Date	TPH as Oil	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
SS-30-9A	12	05/26/92	05/29/92	<50	<10	<10	0.024	<0.005	0.020	0.057
SS-51-1A	12	07/17/92	07/30/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-52-2A	12	07/17/92	07/30/92	NA	NA	2.3	<0.005	<0.005	<0.005	<0.005
SS-53-1B	12	07/17/92	07/30/92	NA	NA	1.8	<0.005	<0.005	<0.005	<0.005
SS-54-3A	18	07/17/92	07/30/92	NA	NA	3.2	<0.005	<0.005	<0.005	<0.005
SS-55-2B	18	07/17/92	07/30/92	NA	NA	1.7	<0.005	<0.005	<0.005	<0.005
SS-56-1C	18	07/17/92	07/30/92	NA	NA	1.6	<0.005	<0.005	<0.005	<0.005
SS-57-3B	12	07/17/92	07/30/92	NA	NA	2.5	<0.005	<0.005	<0.005	<0.005
SS-58-1D	18	07/17/92	07/30/92	NA	NA	1.0	<0.005	0.008	<0.005	<0.005
SS-59-2C	16	07/17/92	07/30/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-60-2D	12	07/17/92	07/30/92	NA	NA	2.7	<0.005	<0.005	<0.005	<0.005
SS-61-3C	12	07/17/92	07/30/92	NA	NA	1.4	<0.005	<0.005	<0.005	<0.005
SS-62-3D	18	07/17/92	07/30/92	NA	NA	1.4	<0.005	0.006	<0.005	<0.005
SS-63-4C	18	07/17/92	07/30/92	NA	NA	2.8	<0.005	<0.005	<0.005	<0.005
SS-64-4D	12	07/17/92	07/30/92	NA	NA	1.1	<0.005	<0.005	<0.005	<0.005
SS-65-4B	12	07/17/92	07/30/92	NA	NA	1.7	<0.005	<0.005	<0.005	<0.005
SS-66-5D	18	07/17/92	07/30/92	NA	NA	3.9	<0.005	0.006	<0.005	0.016
SS-67-4A	12	07/17/92	07/31/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-68-6D	18	07/17/92	07/31/92	NA	NA	1.9	<0.005	<0.005	<0.005	<0.005
SS-69-5A	13	07/17/92	07/31/92	NA	NA	17	<0.005	<0.005	<0.005	<0.005
SS-70-6A	24	07/17/92	07/31/92	NA	NA	2.3	<0.005	<0.005	<0.005	<0.005
SS-71-5B	20	07/17/92	07/31/92	NA	NA	2.4	<0.005	0.006	<0.005	<0.005
SS-72-1D	12	07/17/92	07/31/92	NA	NA	1.7	<0.005	0.007	<0.005	<0.005
SS-73-2D	18	07/17/92	07/31/92	NA	NA	1.6	<0.005	<0.005	<0.005	<0.005
SS-74-2C	18	07/17/92	07/31/92	NA	NA	3.0	<0.005	<0.005	<0.005	<0.005
SS-75-1C	12	07/17/92	07/31/92	NA	NA	8.8	<0.005	<0.005	<0.005	<0.005
SS-76-2B	12	07/17/92	07/31/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-77-1B	18	07/17/92	07/31/92	NA	NA	2.4	<0.005	<0.005	<0.005	<0.005
SS-78-2A	24	07/17/92	07/31/92	NA	NA	1.0	<0.005	<0.005	<0.005	<0.005
SS-79-1A	18	07/17/92	07/31/92	NA	NA	<1.0	<0.005	0.007	<0.005	<0.005

TABLE 6
ANALYTICAL RESULTS OF SOIL SAMPLES
COLLECTED FROM AERATION BEDS*
(results in parts per million [ppm])

Sample ID	Sample Depth (inches)	Date Sampled	Laboratory Analysis Return Date	TPH as Oil	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
SS-80-3A	12	07/17/92	07/31/92	NA	NA	1.9	<0.005	<0.005	<0.005	<0.005
SS-81-4A	12	07/17/92	07/31/92	NA	NA	1.7	<0.005	0.006	<0.005	0.017
SS-82-3B	14	07/17/92	07/31/92	NA	NA	<1.0	<0.005	0.006	<0.005	<0.005
SS-83-4B	12	07/17/92	07/22/92	NA	NA	<1.0	<0.005	<0.005	<0.005	0.021
SS-84-3C	18	07/17/92	07/22/92	NA	NA	<1.0	<0.005	<0.005	<0.005	0.012
SS-85-4C	18	07/17/92	07/22/92	NA	NA	1.5	<0.005	0.020	0.120	0.640
SS-86-3D	16	07/17/92	07/22/92	NA	NA	<1.0	<0.005	<0.005	<0.005	0.007
SS-87-4D	18	07/17/92	07/22/92	NA	NA	<1.0	<0.005	<0.005	<0.005	0.014
SS-88-5A	12	07/21/92	08/05/92	NA	NA	1.0	<0.005	<0.005	<0.005	<0.005
SS-89-5B	18	07/21/92	08/05/92	NA	NA	3.9	<0.005	<0.005	<0.005	<0.005
SS-90-5C	15	07/21/92	08/05/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-91-5D	14	07/21/92	08/05/92	NA	NA	1.1	<0.005	<0.005	<0.005	<0.005
SS-92-6D	12	07/21/92	08/05/92	NA	NA	1.2	<0.005	<0.005	<0.005	<0.005
SS-93-6C	12	07/21/92	08/05/92	NA	NA	3.4	<0.005	<0.005	<0.005	<0.005
SS-94-6C	20	07/21/92	08/05/92	NA	NA	1.3	<0.005	<0.005	<0.005	<0.005
SS-95-8C	18	07/21/92	08/05/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-96-7C	16	07/21/92	08/05/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-97-6C	18	07/21/92	08/05/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-98-5D	14	07/21/92	08/05/92	NA	NA	12.0	<0.005	<0.005	0.068	0.250
SS-99-5E	16	07/21/92	08/05/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-100-4E	12	07/21/92	08/05/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-101-4D	20	07/21/92	08/05/92	NA	NA	1.3	<0.005	<0.005	0.009	0.018
SS-102-3D	20	07/21/92	08/05/92	NA	NA	<1.0	<0.005	<0.005	<0.005	0.006
SS-103-3E	12	07/21/92	08/05/92	NA	NA	9.7	<0.005	<0.005	0.040	0.090
SS-104-2E	16	07/21/92	08/03/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-105-2D	12	07/21/92	08/03/92	NA	NA	2.6(1)	<0.005	<0.005	<0.005	0.009
SS-106-1D	18	07/21/92	08/03/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-107-1E	14	07/21/92	08/03/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-108-8E	12	08/10/92	08/13/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-109-1A	12	08/10/92	08/13/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005

TABLE 6
ANALYTICAL RESULTS OF SOIL SAMPLES
COLLECTED FROM AERATION BEDS*
(results in parts per million [ppm])

Sample ID	Sample Depth (inches)	Date Sampled	Laboratory Analysis Return Date	TPH as Oil	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
SS-110-6D	14	08/10/92	08/13/92	NA	NA	3.1	<0.005	<0.005	<0.005	<0.005
SS-111-1A	16	08/10/92	08/13/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-112-4C	16	08/10/92	08/13/92	NA	NA	9.4	<0.005	0.015	0.040	0.280
SS-113-8D	10	08/18/92	08/28/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-114-8D	18	08/18/92	08/28/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-115-7D	16	08/18/92	08/28/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-116-7D	18	08/18/92	08/28/92	NA	NA	1.3(1)	<0.005	<0.005	<0.005	<0.005
SS-117-6D	12	08/18/92	08/28/92	NA	NA	3.2(1)	<0.005	<0.005	<0.005	0.010
SS-118-6D	12	08/18/92	08/28/92	NA	NA	3.0(1)	<0.005	<0.005	<0.005	0.030
SS-119-5D	18	08/18/92	08/28/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-120-4D	10	08/18/92	08/28/92	NA	NA	<1.0	<0.005	<0.005	<0.005	0.005
SS-121-5D	16	08/18/92	08/28/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-122-3D	12	08/18/92	08/28/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-123-4D	14	08/18/92	08/28/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-124-3D	12	08/18/92	08/28/92	NA	NA	<1.0	<0.005	0.008	<0.005	<0.005
SS-125-2D	16	08/18/92	08/28/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-126-2D	12	08/18/92	08/28/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-127-1C	14	08/20/92	09/02/92	NA	NA	1.7(1)	<0.005	<0.005	<0.005	<0.005
SS-128-1B	14	08/20/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	0.005(2)
SS-129-1B	12	08/20/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-130-1C	16	08/20/92	09/02/92	NA	NA	1.5(1)	<0.005	<0.005	0.005	0.012
SS-131-2C	18	08/20/92	09/02/92	NA	NA	2.2(1)	<0.005	<0.005	<0.005	0.005
SS-132-2B	14	08/20/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-133-2C	18	08/20/92	09/02/92	NA	NA	2.2(1)	<0.005	<0.005	<0.005	<0.005
SS-134-2B	16	08/20/92	09/02/92	NA	NA	<1.0	<0.005	0.008(2)	<0.005	0.009
SS-135-3C	12	08/20/92	09/02/92	NA	NA	1.3(1)	<0.005	<0.005	<0.005	<0.005
SS-136-3B	10	08/20/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	0.006(2)
SS-137-3C	9	08/20/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-138-3B	14	08/20/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-139-4C	12	08/20/92	09/02/92	NA	NA	1.9(1)	<0.005	<0.005	<0.005	<0.005

TABLE 6
ANALYTICAL RESULTS OF SOIL SAMPLES
COLLECTED FROM AERATION BEDS*
(results in parts per million [ppm])

Sample ID	Sample Depth (inches)	Date Sampled	Laboratory Analysis Return Date	TPH as Oil	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
SS-140-4B	14	08/20/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-141-4C	12	08/20/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-142-4B	20	08/20/92	09/02/92	NA	NA	4.8(1)	<0.005	<0.005	<0.005	0.006
SS-143-5C	14	08/20/92	08/31/92	NA	NA	1.5(1)	<0.005	0.006	0.009	0.05
SS-144-5C	14	08/20/92	08/31/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-145-5B	12	08/20/92	08/31/92	NA	NA	1.8(1)	<0.005	0.005	0.005	0.020
SS-146-6C	18	08/20/92	08/31/92	NA	NA	2.6(1)	0.009	<0.005	0.020	0.100
SS-147-5B	14	08/20/92	08/31/92	NA	NA	1.9(1)	<0.005	<0.005	0.009	0.030
SS-148-6C	18	08/20/92	08/31/92	NA	NA	1.5(1)	<0.005	0.006	<0.005	0.024
SS-149-6B	20	08/20/92	08/31/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-150-7C	9	08/20/92	08/31/92	NA	NA	2.3(1)	0.013	0.009	0.030	0.090
SS-151-6B	14	08/20/92	08/31/92	NA	NA	1.7(1)	<0.005	<0.005	<0.005	0.016
SS-152-7C	12	08/20/92	08/31/92	NA	NA	<1.0	<0.005	<0.005	<0.005	0.006
SS-153-7B	12	08/20/92	08/31/92	NA	NA	1.4(1)	<0.005	<0.005	0.010	0.024
SS-154-7D	18	08/20/92	08/31/92	NA	NA	NA	NA	NA	NA	NA
SS-155-7B	14	08/20/92	08/31/92	NA	NA	1.7(1)	<0.005	<0.005	<0.005	0.010
SS-156-8C	14	08/20/92	08/31/92	NA	NA	1.0(1)	<0.005	<0.005	<0.005	<0.005
SS-157-8C	16	08/20/92	08/31/92	NA	NA	1.3(1)	<0.005	<0.005	<0.005	0.017
SS-158-8B	14	08/20/92	08/31/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-159-8B	12	08/20/92	08/31/92	NA	NA	<1.0	<0.005	<0.005	<0.005	0.006
SS-160-8A	18	08/20/92	08/31/92	NA	NA	<1.0	<0.005	<0.005	<0.005	0.006
SS-161-6A	14	08/20/92	08/31/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-162-8A	16	08/20/92	08/31/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-163-6A	18	08/20/92	08/31/92	NA	NA	<1.0	<0.005	<0.005	<0.005	0.008
SS-164-7A	18	08/20/92	08/31/92	NA	NA	<1.0	<0.005	<0.005	<0.005	0.006
SS-165-5A	20	08/24/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-166-5A	18	08/24/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-167-6A	14	08/24/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-168-6A	18	08/24/92	09/02/92	NA	NA	1.4(1)	<0.005	<0.005	0.006	0.016
SS-169-7A	10	08/24/92	09/02/92	NA	NA	3.3(1)	<0.005	<0.005	<0.005	<0.005

TABLE 6
ANALYTICAL RESULTS OF SOIL SAMPLES
COLLECTED FROM AERATION BEDS*
(results in parts per million [ppm])

Sample ID	Sample Depth (inches)	Date Sampled	Laboratory Analysis Return Date	TPH as Oil	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
SS-170-1D	12	08/24/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-171-1D	14	08/24/92	09/02/92	NA	NA	1.3(1)	<0.005	<0.005	<0.005	0.011
SS-172-7D	12	08/24/92	09/02/92	NA	NA	1.2(1)	<0.005	<0.005	<0.005	<0.005
SS-173-6D	14	08/24/92	09/02/92	NA	NA	1.3(1)	<0.005	<0.005	<0.005	<0.005
SS-174-5D	18	08/24/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-175-4D	18	08/24/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-176-1D	16	08/24/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-177-2D	14	08/24/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-178-3D	18	08/24/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-179-1C	16	08/24/92	09/02/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-180-2C	18	08/27/92	09/10/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-181-3C	18	08/27/92	09/10/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-182-4C	16	08/27/92	09/10/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-183-4B	14	08/27/92	09/10/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-184-3B	16	08/27/92	09/10/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-185-2B	20	08/27/92	09/10/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-186-1B	10	08/27/92	09/10/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-187-1A	20	08/27/92	09/10/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-188-2A	14	08/27/92	09/10/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-189-3A	16	08/27/92	09/10/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-190-4A	12	08/27/92	09/10/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-191-5A	14	08/27/92	09/10/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-192-5B	18	08/27/92	09/10/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-193-5C	16	08/27/92	09/10/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-194-6A	14	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-195-7A	14	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-196-7B	16	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-197-6B	12	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-198-7A	16	08/28/92	09/15/92	NA	NA	2.7(1)	<0.005	<0.005	<0.005	<0.005
SS-199-6A	18	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005

TABLE 6
ANALYTICAL RESULTS OF SOIL SAMPLES
COLLECTED FROM AERATION BEDS*
(results in parts per million [ppm])

Sample ID	Sample Depth (inches)	Date Sampled	Laboratory Analysis Return Date	TPH as Oil	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
SS-200-4A	16	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-201-5A	20	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-202-3A	18	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-203-1B	14	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-204-2A	18	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-205-1C	14	08/28/92	09/15/92	NA	NA	1.4(1)	<0.005	<0.005	<0.005	<0.005
SS-206-2B	16	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-207-4A	12	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-208-2C	10	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-209-4B	16	08/28/92	09/15/92	NA	NA	6.4(1)	<0.005	<0.005	<0.005	0.015
SS-210-3C	16	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-211-5C	16	08/28/92	09/15/92	NA	NA	3.8(1)	<0.005	<0.005	<0.005	0.008
SS-212-5B	14	08/28/92	09/15/92	NA	NA	4.5(1)	<0.005	<0.005	<0.005	<0.005
SS-213-3B	12	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-214-5A	20	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-215-3A	18	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-216-6A	16	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-217-6B	16	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005
SS-218-6C	18	08/28/92	09/15/92	NA	NA	<1.0	<0.005	<0.005	<0.005	<0.005

NOTES:

* All samples analyzed by Precision Analytical Laboratories Inc. of Richmond, California. Samples were analyzed for total petroleum hydrocarbons (TPH) as oil, diesel, and gasoline using Modified EPA Method 8015; and benzene, toluene, ethylbenzene, and xylenes using Modified EPA Method 8020.

NA = not analyzed

** Duplicate sample not analyzed

1 Weathered gasoline

2 Confirmed by laboratory by second column

4/ 350-gal UST

TABLE 2
ANALYTICAL RESULTS FOR SOIL SAMPLES COLLECTED FROM AERATION BEDS
40TH AND HOLLIS STREETS, EMERYVILLE, CALIFORNIA
(concentrations reported in milligrams per kilogram [mg/kg])

Sample ID	Date	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes
Pre Aerate						
RAB1	12-Nov-93	<0.5	<0.005	0.013	0.024	0.041
RAB2	12-Nov-93	190	0.71	3.5	3.2	8.1
Post						
RAB3	22-Dec-93	<0.5	<0.005	<0.005	<0.005	<0.005
RAB4	22-Dec-93	<0.5	<0.005	<0.005	<0.005	<0.005

Data entered by NAS/28-Dec-93. Data proofed by JJB.

TPHg - Total petroleum hydrocarbons as gasoline, using EPA Method 5030
Benzene, toluene, ethylbenzene, and total xylenes using EPA Method 8020.

Analysis performed by Anametrix, Inc., San Jose, California.

The results of chemical analyses performed on groundwater samples obtained from the three ARI monitoring wells are summarized in the following table:

	Monitoring Well Location		
Chemical Constituent/Method (units)	W-1	W-2	W-3
pH	7.0	6.9	7.0
Total Dissolved Solids (TDS) (mg/l)	640	580	550
Total Petroleum Hydrocarbons (as gasoline) (ppb)	ND	ND	ND
Total Petroleum Hydrocarbons (as diesel) (ppb)	82	100	88
Total Petroleum Hydrocarbons (as kerosene) (ppb)	ND	ND	ND
Semi-volatile Organics (ppb)	NA	NA	ND
Benzene (ppb)	ND	ND	ND
Toluene (ppb)	ND	ND	ND
Ethyl Benzene (ppb)	ND	ND	ND
Total Xylenes (ppb)	ND	ND	ND

ND - not detected
NA - not analyzed

The results of chemical analyses on groundwater samples obtained from the three L-F monitoring wells are summarized in the following table:

ATTACHMENT 12

"Grab" Groundwater Chemical Analysis

Sample Location / Chemical Constituent	B-25	H-5	G-17	B-14	E-19	B-19
TPH (as Diesel), ppm	ND	ND	ND	ND	NA	NA
TPH (as gasoline), ppm	NA	NA	0.2	0.82	0.18	0.08
Benzene, ppb	NA	NA	ND	10	17	0.5
Toluene, ppb	NA	NA	24	67	5	0.5
Total Xylenes, ppb	NA	NA	14	77	4.9	0.9
Ethyl Benzene, ppb	NA	NA	2.9	17	1.4	ND
Purgeable Halocarbons (EPA Method 8010 compounds)	ND	ND	NA	NA	NA	NA

ND - not detected
NA - not analyzed

	Monitoring Well Location		
Chemical Constituent/Method (units)	LF-7	LF-8	LF-20
pH	6.9	6.9	6.8
Total Dissolved Solids (TDS) (mg/l)	620	370	400
Total Petroleum Hydrocarbons (as gasoline) (ppb)	ND	ND	ND
Total Petroleum Hydrocarbons (as diesel) (ppb)	ND	ND	ND
Total Petroleum Hydrocarbons (as kerosene) (ppb)	ND	ND	ND
Semi-volatile Organics (ppb)	ND	ND	ND
Benzene (ppb)	ND	ND	ND
Toluene (ppb)	ND	ND	0.7
Ethyl Benzene (ppb)	ND	ND	0.6
Total Xylenes (ppb)	5.5	4.7	3.9

Poor correlation was obtained by comparing the results from the "grab" groundwater samples to those obtained from the monitoring wells. Compounds detected in the "grab" samples were not detected in the monitoring well samples, and vise-versa. It is possible that "grab" groundwater samples were cross contaminated from soils above, and that these represent "false positive" results.

However, if the groundwater contamination exists, it is likely that it is local and has not immigrated far. This is supported by the fact that the monitoring wells are either located downgradient from the "grab" sample locations or in very close proximity. For instance, monitoring well W-1 is located within 30 feet of "grab" sample E-19, and W-2 is located about 70 feet directly downgradient from "grab" sample B-14. "Grab" sample B-19 may represent off site contamination, possibly from the adjacent Besler Building site, since no known activities could have led to surface spills in this area. This area is also not located directly downgradient from the previous USTs that were operated nearby and is not considered to have been impacted from any releases from these USTs.

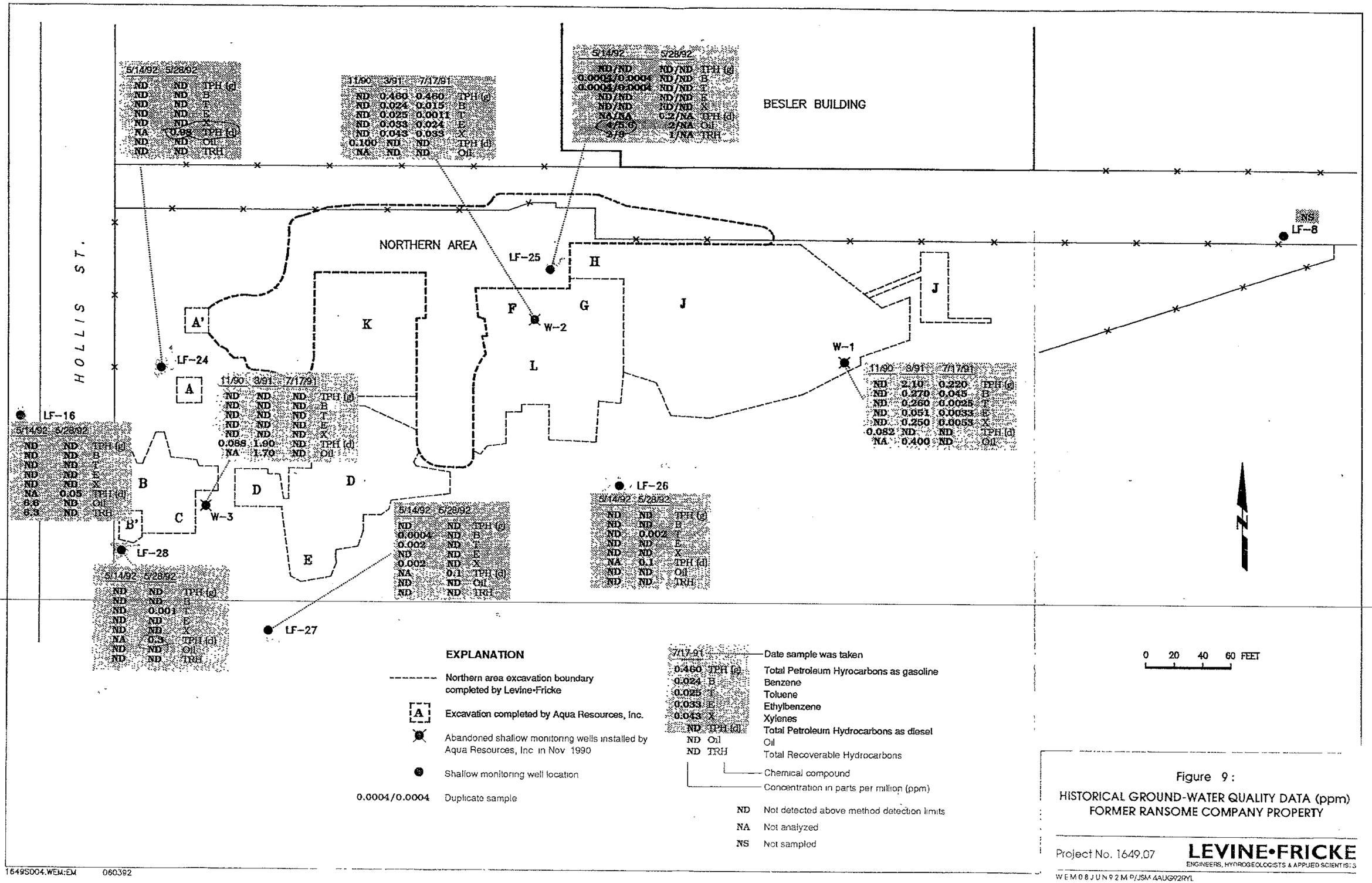


Figure 9 :

HISTORICAL GROUND-WATER QUALITY DATA (ppm)
FORMER RANSOME COMPANY PROPERTY

Project No. 1649.07

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

1649S004.WEM:EM 060392

WEM08JUN92MP/JSM4AUG92RYL

Grab GW

TABLE 7A

METAL COMPOUNDS DETECTED IN GROUND-WATER SAMPLES
PHASE 1 INVESTIGATION
YERBA BUENA SITE, EMERYVILLE, CALIFORNIA
(concentrations in ppm)

SAMPLE LOCATION	SAMPLE ID	DATE SAMPLED	Sb	As	Be	Cd	Cr	Cu	Pb	Hg	Ni	Se	Ag	Tl	Zn
A6	A6C	24-Jan-90	ND	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.026
A24	A24C	23-Jan-90	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	0.026
B27	B27W	22-Feb-90	ND	ND	ND	ND	ND	0.006	ND	ND	0.05	*ND	ND	ND	0.04
B29	B29W	22-Feb-90	ND	ND	ND	ND	ND	ND	ND	ND	0.03	ND	ND	ND	0.008
B30	B30W	22-Feb-90	ND	0.001	ND	ND	ND	0.019	0.05	ND	0.05	ND	ND	ND	0.069
B31	B31W	22-Feb-90	ND	ND	ND	ND	ND	ND	ND	ND	0.04	ND	ND	ND	0.01
C10	C10W	08-Feb-90	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
C15	C15W	31-Jan-90	ND	0.002	ND	ND	ND	ND	ND	ND	0.02	ND	ND	ND	0.009
C18	C18W	07-Feb-90	ND	0.001	ND	ND	ND	ND	ND	ND	0.02	ND	ND	ND	0.017
C20	C20W	07-Feb-90	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
LF1	LF1-7503	05-Feb-90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.015
LF2	LF2-7503	06-Feb-90	ND	0.002	ND	ND	ND	0.007	ND	ND	ND	ND	ND	ND	0.026
LF3	LF3-7503	06-Feb-90	ND	ND	ND	0.004	ND	0.006	ND	ND	ND	ND	ND	ND	0.024
LF4	LF4-7501	07-Feb-90	ND	ND	ND	ND	ND	ND	ND	ND	0.01	ND	ND	ND	0.051

TABLE 7C

PETROLEUM HYDROCARBONS DETECTED IN GROUND-WATER SAMPLES
PHASE I INVESTIGATION
YERBA BUENA SITE, EMERYVILLE, CALIFORNIA
(concentrations in ppm)

SAMPLE LOCATION	SAMPLE ID	DATE SAMPLED	GASOLINE	DIESEL	WASTE OIL	STODDARD SOLVENT
A15	A15C	25-Jan-90	NA	ND	ND	NA
A24	A24C	23-Jan-90	ND	ND	ND	NA
B3	B3C	26-Jan-90	NA	ND	ND	NA
B4	B4C	26-Jan-90	0.2	ND	ND	NA
B14	B14AW	02-Feb-90	+ND	12	**ND	NA
B15	B15W	02-Feb-90	NA	NA	NA	NA
B17	B17W	02-Feb-90	20	***ND	2	NA
B27	B27W	22-Feb-90	ND	ND	0.6	NA
B29	B29W	02-Mar-90	ND	ND	ND	NA
B30	B30W	02-Mar-90	0.1	1.4	ND	NA
B31	B31W	02-Mar-90	ND	ND	ND	NA
C7	C7W	31-Jan-90	ND	ND	0.5	NA
C10	C10W	08-Feb-90	ND	NA	NA	NA
C16	C16W	31-Jan-90	ND	ND	0.7	NA
C18	C18W	07-Feb-90	ND	++ND	NA	NA
C20	C20W	07-Feb-90	0.2	NA	NA	NA
C28	C28W	12-Feb-90	ND	ND	ND	NA
C29	C29W	15-Feb-90	ND	ND	ND	NA
LF1	LF1-7503	05-Feb-90	ND	ND	ND	NA
LF2	LF2-7503	06-Feb-90	ND	ND	ND	NA
LF3	LF3-7503	06-Feb-90	ND	ND	ND	NA
LF4	LF4-7501	07-Feb-90	ND	ND	ND	NA

TABLE 2
GROUND-WATER QUALITY DATA
FORMER RANSOME PROPERTY
YERBA BUENA PROJECT SITE, EMERYVILLE, CALIFORNIA
(concentrations expressed in milligrams per liter [mg/l])

Well Number	Date	Lab	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Oil and Grease	Hydrocarbons	Diesel
LF-16	14-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	6.6	6.3	NA
	28-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	<0.5	0.05
	22-Oct-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	NA	0.05
	12-Feb-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	<0.05*
	26-May-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	0.054
	14-Jul-93	ANA	0.05	<0.0005	0.0017	<0.0005	<0.0005	NA	<5	<0.05
LF-24	14-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	<0.5	NA
	28-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	<0.5	0.98
	22-Oct-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	NA	0.3
	12-Feb-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	0.076
	26-May-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	0.180
	14-Jul-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	<0.05
	Duplicate	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	NA	NA
LF-25	14-May-92	QUA	<0.05	0.0004	0.0004	<0.0003	<0.001	4	2	NA
	duplicate	QUA	<0.05	0.0004	0.0004	<0.0003	<0.001	5.6	3	NA
	28-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	2	1	0.2
	duplicate	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	NA	NA	NA
	22-Oct-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	0.6	NA	0.4
	11-Feb-93	ANA	0.054	0.0006	<0.0005	<0.0005	<0.0005	NA	<5	<0.05
	26-May-93	ANA	0.070	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	0.320
	Duplicate	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	0.230
	14-Jul-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	1.0
LF-26	14-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	<0.5	NA
	28-May-92	QUA	<0.05	<0.0003	0.002	<0.0003	<0.001	<0.5	<0.5	0.1
	22-Oct-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	NA	<0.05
	11-Feb-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	<0.05
	26-May-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	0.088
	14-Jul-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	<0.05
LF-27	14-May-92	QUA	<0.05	0.0004	0.002	<0.0003	0.002	<0.5	<0.5	NA
	28-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	<0.5	0.1
	22-Oct-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	NA	<0.05
	11-Feb-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	<0.05
	26-May-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	0.085
	14-Jul-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	<0.05
LF-28	14-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	<0.5	NA
	28-May-92	QUA	<0.05	<0.0003	0.001	<0.0003	<0.001	<0.5	<0.5	0.3
	22-Oct-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	<0.5	NA	<0.05
	12-Feb-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	<0.05
	26-May-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	0.062
	14-Jul-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	<0.05
LF-29	22-Oct-92	QUA	0.09	0.001	<0.0003	0.0004	0.001	<0.5	NA	<0.05
	11-Feb-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	<5	<0.05
	26-May-93	ANA	<0.05	<0.0005	<0.0005	0.0039	<0.0005	NA	<5	0.170
	14-Jul-93	ANA	0.08	<0.0005	<0.0005	0.012	<0.0005	NA	<5	<0.05
LF-25-FB	14-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	NA	NA	NA
	28-May-92	QUA	<0.05	<0.0003	<0.0003	<0.0003	<0.001	NA	NA	NA
	26-May-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	NA	NA
LF-25-BB	14-Jul-93	ANA	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	NA	NA

Data entered by SCH/28-Sep-93. Data proofed by JJB. QA/QC by _____.

Notes:

Milligrams per liter is equivalent to parts per million.
TPHg - Total petroleum hydrocarbons as gasoline.
Diesel - Extractable hydrocarbons as diesel
NA - not analyzed
FB - field blank

ANA - Anametrix, Inc., of San Jose, California.
QUA - Quanteq Laboratories of Pleasant Hill, California.

Oil and grease (analyzed using Standard Method 5520c) is all oil and grease compounds, including animal, vegetable, and petroleum hydrocarbon oil and grease compounds.

Hydrocarbons (analyzed using Standard Methods 5520 B+F and C+F) is only the petrolem hydrocarbon fraction of the oil and grease compounds.

* 0.33 ppm of an unknown compound was detected during analysis of sample LF-16 for TPHd. The laboratory confirmed that its detection most likely is the result of instrument contamination.

WP_R_1998-04-15

Complete Sampling Record of MW-1

Table 1
Quarterly Summary of Groundwater Quality Data
East Baybridge Center
Emeryville and Oakland, California
(concentrations expressed in parts per million [ppm])

Well ID	Notes	Date Sampled	Lab	TPHg	TPHd	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TCE	1,1,1-TCA	PCE	1,1-DCE	1,1-DCA	1,2-DCA	cis/trans-1,2-DCE	Total VOCs
Shallow Wells (20 to 25 feet below grade)																	
MW-1		13-Sep-94	AEN	<0 005	0.30	<0 0005	<0.0005	<0.0005	<0.0005	NA	NA	NA	NA	NA	NA	NA	NA
		30-Nov-94	AEN	NA	0.10	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	ND
		17-Feb-95	AEN	<0.05	0.08	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
		09-May-95	AEN	<0.05	0.20	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
		31-Aug-95	AEN	<0.05	0.30	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
		27-Dec-95	AEN	<0.05	0.10	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
		27-Feb-96	AEN	<0.05	0.18	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
		01-May-96	AEN	<0.05	0.10	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
		04-Sep-96	AEN	<0.05	0.25	<0.0005	<0.0005	<0.0005	<0.002	NA	NA	NA	NA	NA	NA	NA	NA
MW-2		01-Dec-94	AEN	7.10	NA	0.065	<0.01	0.13	0.47	NA	NA	NA	NA	NA	NA	NA	NA
		17-Feb-95	AEN	3.50	0.30	0.045	0.005	0.11	0.35	NA	NA	NA	NA	NA	NA	NA	NA
		09-May-95	AEN	3.50	0.20	0.025	0.009	0.085	0.25	NA	NA	NA	NA	NA	NA	NA	NA
		31-Aug-95	AEN	0.90	0.20	0.011	<0 0005	0.032	0.072	NA	NA	NA	NA	NA	NA	NA	NA
		20-Dec-95	AEN	2.60	<0.05	0.016	0.002	0.079	0.24	NA	NA	NA	NA	NA	NA	NA	NA
		27-Feb-96	AEN	4 10	0.20	0.076	0.0095	0.21	0 62	NA	NA	NA	NA	NA	NA	NA	NA
		01-May-96	AEN	2.40	0.23	0.039	0.0047	0.098	0.26	NA	NA	NA	NA	NA	NA	NA	NA
		04-Sep-96	AEN	0.54	0.22	0.0024	<0.0005	0.018	0.045	NA	NA	NA	NA	NA	NA	NA	NA
		17-Dec-96	A2AC	0.776	<0.010	0.004	0.009	0.011	0.019	NA	NA	NA	NA	NA	NA	NA	NA
		18-Feb-97	AEN	1.2	0.24	0.015	0.0009	0.057	0.140	NA	NA	NA	NA	NA	NA	NA	NA
		15-May-97	AEN	0.46	0.11	0.0033	<0.0005	0.035	0.059	NA	NA	NA	NA	NA	NA	NA	NA
	(44)	11-Dec-97	AEN	1.7	0.15	0.016	0.0010	0.061	0.106	NA	NA	NA	NA	NA	NA	NA	NA
MW-3		12-Sep-94	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		01-Dec-94	AEN	NA	0.07	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		16-Feb-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		08-May-95	AEN	NA	0.07	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		31-Aug-95	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		20-Dec-95	AEN	NA	<0.05	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		27-Feb-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		30-Apr-96	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		04-Sep-96	AEN	NA	0.11	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		17-Dec-96	A2AC	NA	<0.010	NA	NA	NA	NA	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	ND
		18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
	dup	18-Feb-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		15-May-97	AEN	NA	0.08	NA	NA	NA	NA	<0.0005	<0 0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		21-Aug-97	AEN	NA	NA	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND
		11-Dec-97	AEN	NA	<0.05	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	ND

Ransome Const.

TABLE 1
WELL CONSTRUCTION AND GROUND-WATER ELEVATION DATA
FORMER RANSOME PROPERTY, EMERYVILLE, CALIFORNIA
(all elevations in feet above mean sea level)

Well Number	Well Elevation	Well Depth (feet)	Screened Interval (feet)	Date Measured	Depth to Water	Ground-Water Elevation
LF-8	29.63	18	7.5-17.5	23-Feb-90	6.05	23.58
				06-Jan-92	5.04	24.59
				15-Apr-92	6.51	23.12
				14-May-92	8.54	21.09
				22-Jul-92	10.19	19.44
				20-Oct-92	11.24	18.39
				09-Feb-93	3.59	26.04
				24-May-93	8.17	21.46
				22-Jun-93	8.68	20.95
				09-Jul-93	9.18	20.45
LF-16	17.47	20	5-20	23-Feb-90	5.98	11.49
				06-Jan-92	6.04	11.43
				15-Apr-92	6.40	11.07
				14-May-92	6.46	11.01
				22-Jul-92	6.68	10.79
				20-Oct-92	7.43	10.04
				09-Feb-93	5.65	11.82
				24-May-93	6.48	10.99
				22-Jun-93	6.48	10.99
				09-Jul-93	6.61	10.86
LF-24	21.97	20	7-20	14-May-92	9.75	12.22
				28-May-92	9.86	12.11
				22-Jul-92	10.13	11.84
				20-Oct-92	10.91	11.06
				09-Feb-93	8.90	13.07
				24-May-93	9.90	12.07
				22-Jun-93	9.99	11.98
				09-Jul-93	10.15	11.82
LF-25	23.00	15	5-15	14-May-92	7.02	15.98
				28-May-92	7.34	15.66
				22-Jul-92	8.38	14.62
				20-Oct-92	9.11	13.89
				09-Feb-93	3.13	19.87
				24-May-93	6.31	16.69
				22-Jun-93	6.61	16.39
				09-Jul-93	6.91	16.09
LF-26	26.82	20	8-20	14-May-92	10.55	16.27
				28-May-92	10.87	15.95
				22-Jul-92	11.70	15.12
				20-Oct-92	12.67	14.15
				09-Feb-93	6.87	19.95
				24-May-93	10.10	16.72
				22-Jun-93	10.51	16.31
				09-Jul-93	10.84	15.98
LF-27	22.76	20	8-20	14-May-92	12.87	9.89
				28-May-92	13.10	9.66
				22-Jul-92	13.55	9.21
				20-Oct-92	14.40	8.36
				09-Feb-93	10.31	12.45
				24-May-93	12.59	10.17
				22-Jun-93	12.95	9.81
				09-Jul-93	13.19	9.57
LF-28	20.54	20	7-20	14-May-92	9.00	11.54
				28-May-92	9.02	11.52
				22-Jul-92	9.41	11.13
				20-Oct-92	10.04	10.50
				09-Feb-93	8.34	12.20
				24-May-93	8.84	11.70

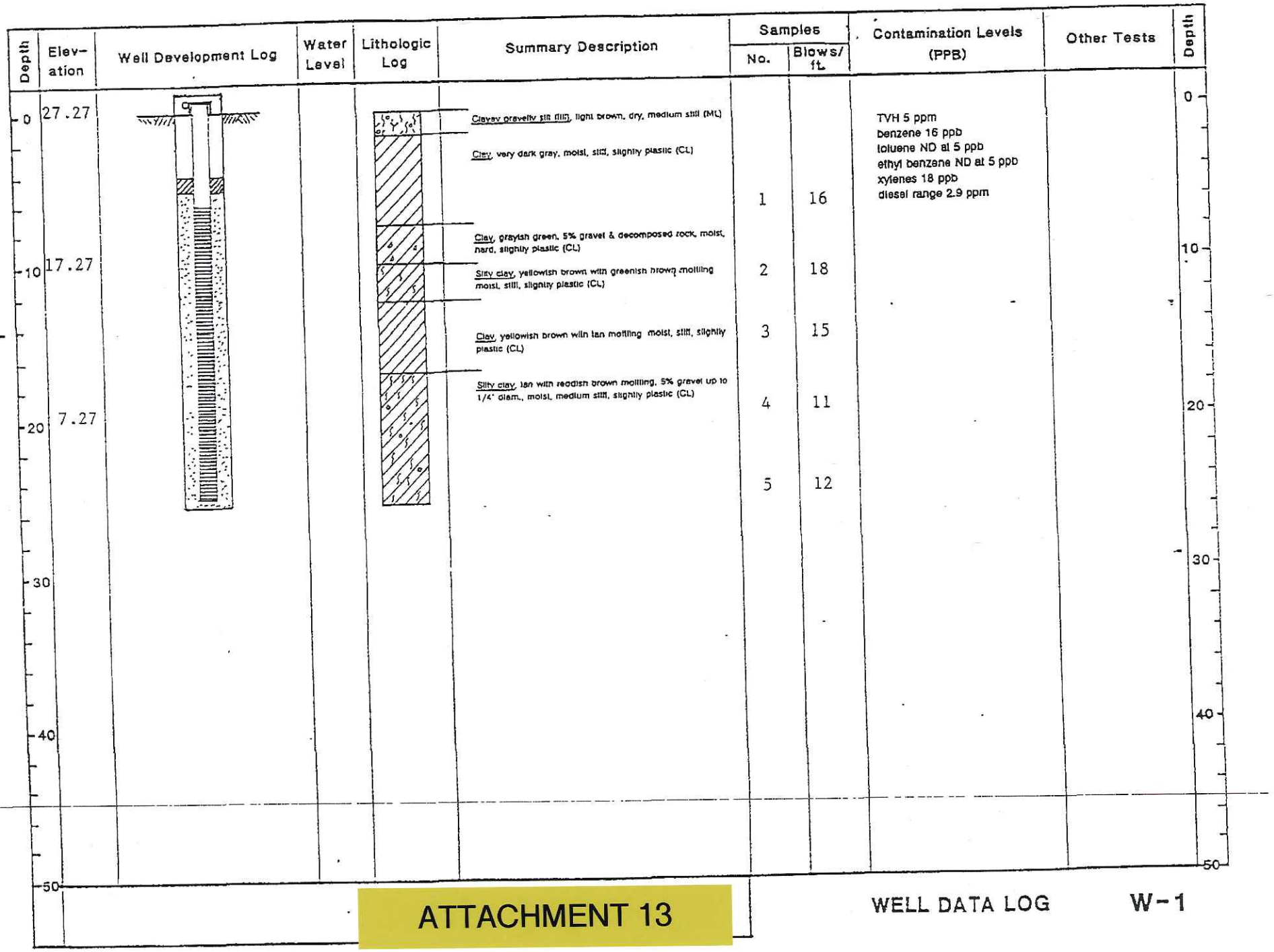
TABLE 1
WELL CONSTRUCTION AND GROUND-WATER ELEVATION DATA
FORMER RANSOME PROPERTY, EMERYVILLE, CALIFORNIA
(all elevations in feet above mean sea level)

Well Number	Well Elevation	Well Depth (feet)	Screened Interval (feet)	Date Measured	Depth to Water	Ground-Water Elevation
				22-Jun-93	8.95	11.59
				09-Jul-93	9.00	11.54
LF-29	29.82	20	8-20	20-Oct-92	14.40	15.42
				09-Feb-93	8.48	21.34
				24-May-93	11.91	17.91
				22-Jun-93	12.32	17.50
				09-Jul-93	12.67	17.15

Data entered by SCH/28-Sep-93. Data proofed by _____

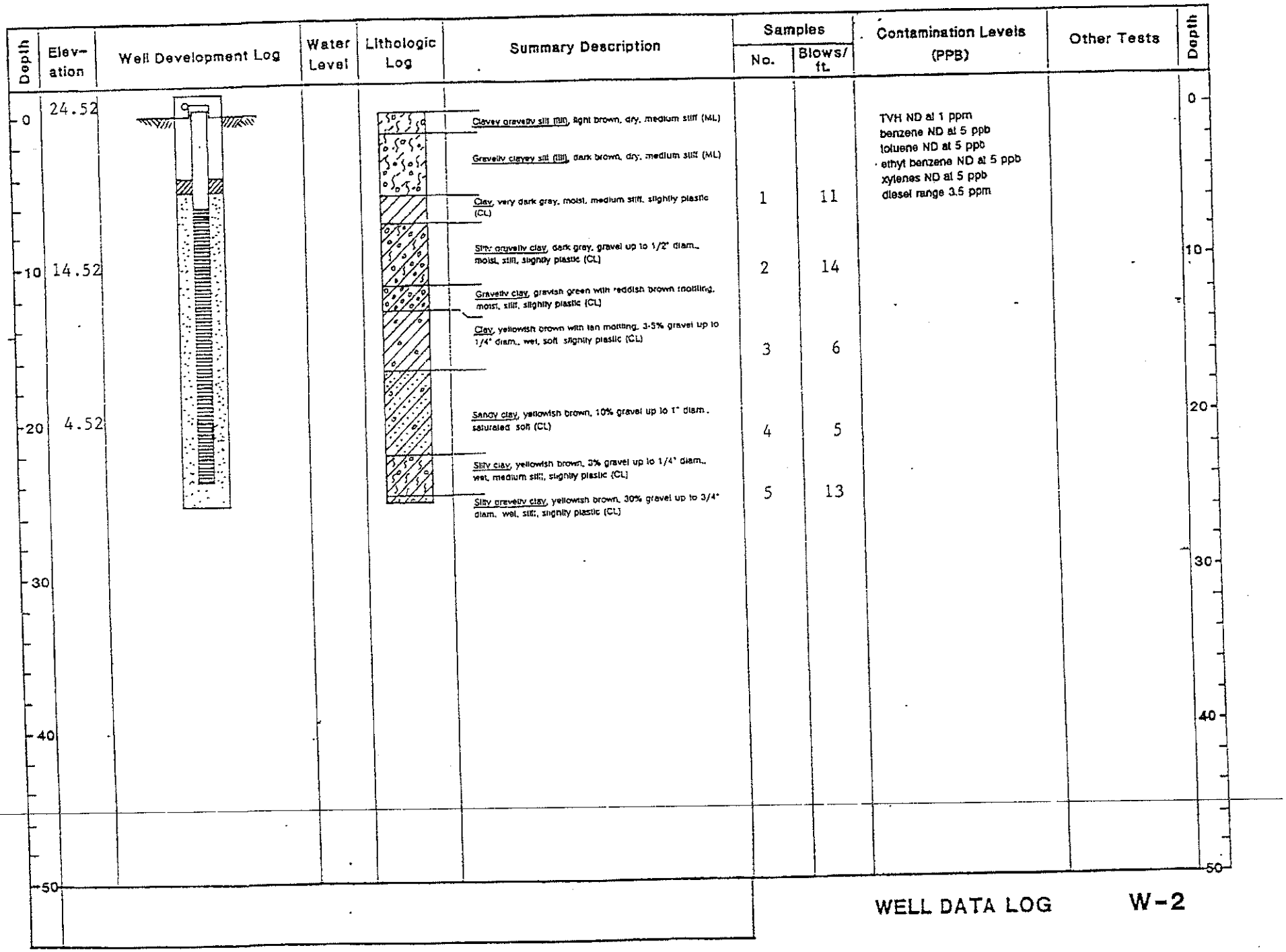
Table 1
Well Construction and Groundwater Elevation Data
East Baybridge Center
Emeryville and Oakland, California

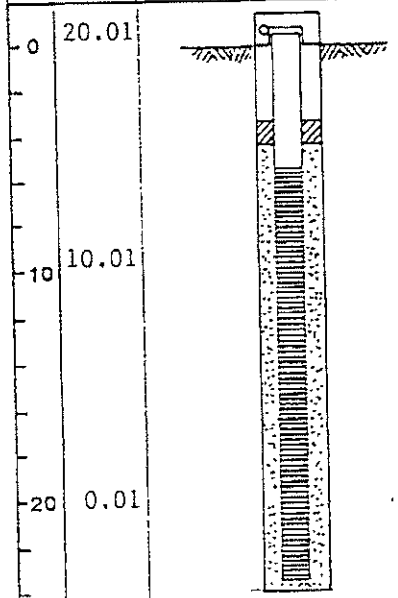
Well Number	Well Elevation (1)	Well Depth (2)	Screened Interval (2)	Date Measured	Depth to Water	Groundwater Elevation (3)
Shallow Wells						
MW-1	27.47	30	15-30	12-Sep-94	14.88	12.59
				30-Nov-94	14.61	12.86
				16-Feb-95	14.73	12.74
				08-May-95	14.55	12.92
				30-Aug-95	14.62	12.85
				19-Dec-95	13.38	14.09
				26-Feb-96	14.27	13.20
				29-Apr-96	14.69	12.78
				03-Sep-96	14.70	12.77
				13-Dec-96	(4)	
MW-2	37.23	18	8-18	12-Sep-94	8.00	29.23
				30-Nov-94	6.84	30.39
				16-Feb-95	6.84	30.39
				08-May-95	7.08	30.15
				30-Aug-95	9.03	28.20
				19-Dec-95	6.95	30.28
				26-Feb-96	6.62	30.61
				29-Apr-96	7.92	29.31
				03-Sep-96	8.10	29.13
				13-Dec-96	6.59	30.64
				18-Feb-97	7.60	29.63
				26-May-97	8.16	29.07
				21-Aug-97	7.06	30.17
				02-Jan-98	7.87	29.36
				09-Mar-98	6.94	30.29
MW-3	32.05	25	14-25	12-Sep-94	9.88	22.17
				30-Nov-94	9.96	22.09
				16-Feb-95	9.24	22.81
				08-May-95	9.82	22.23
				30-Aug-95	11.75	20.30
				19-Dec-95	9.65	22.40
				26-Feb-96	8.80	23.25
				29-Apr-96	10.66	21.39
				03-Sep-96	10.51	21.54
				13-Dec-96	9.85	22.20
				18-Feb-97	9.93	22.12
				26-May-97	10.66	21.39
				21-Aug-97	9.80	22.25
				02-Jan-98	10.75	21.30
				09-Mar-98	9.03	23.02



ATTACHMENT 13

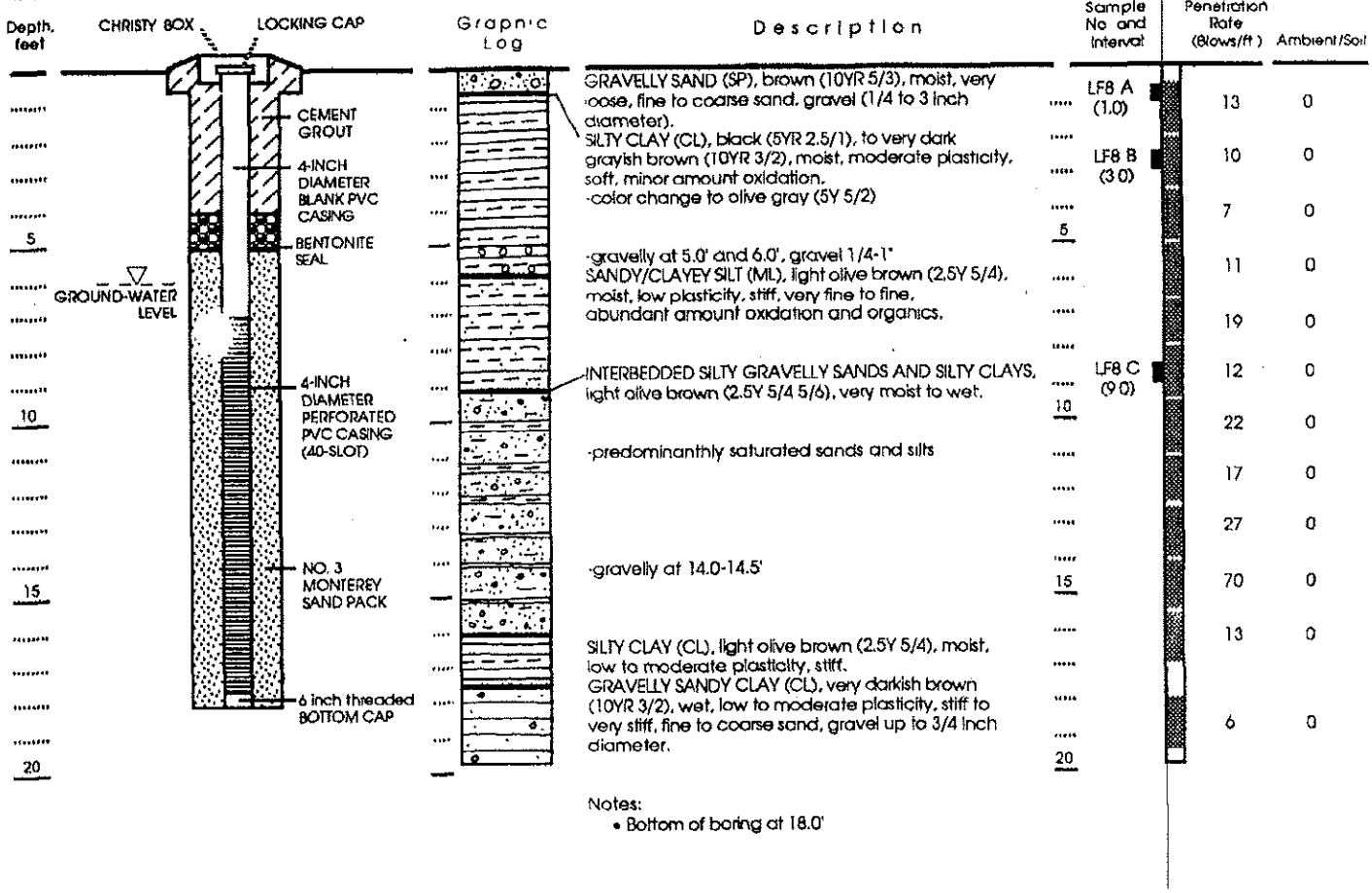
WELL DATA LOG W-1


Depth
Elev-ation
Well Development Log
Water Level
Lithologic Log
Summary Description
Samples
No.
Blows/ ft.
Contamination Levels (PPB)
Other Tests
Depth
24.52
14.52
4.52
0
10
20
30
40
50
Clayey gravelly silt (fill), light brown, dry, medium stiff (ML)
Gravelly clayey silt (fill), dark brown, dry, medium stiff (ML)
Clay, very dark gray, moist, medium stiff, slightly plastic (CL)
Silty gravelly clay, dark gray, gravel up to 1/2" diam., moist, stiff, slightly plastic (CL)
Gravelly clay, gravish green with reddish brown mottling, moist, stiff, slightly plastic (CL)
Clay, yellowish brown with tan mottling, 3-5% gravel up to 1/4" diam., wet, soft slightly plastic (CL)
Sandy clay, yellowish brown, 10% gravel up to 1" diam., saturated soft (CL)
Silty clay, yellowish brown, 3% gravel up to 1/4" diam., wet, medium stiff, slightly plastic (CL)
Silty gravelly clay, yellowish brown, 30% gravel up to 3/4" diam., wet, stiff, slightly plastic (CL)
1
11
2
14
3
6
4
5
5
13
TVH ND at 1 ppm
benzene ND at 5 ppb
toluene ND at 5 ppb
ethyl benzene ND at 5 ppb
xylenes ND at 5 ppb
diesel range 3.5 ppm
WELL DATA LOG
W-2



Depth	Elevation	Summary Description	Samples No.	Samples Blows/ft.	Contamination Levels (PPB)	Other Tests
0	20.01	Clayey gravelly silt (fill), light brown, dry, medium stiff (ML)			TVH ND at 1 ppm benzene ND at 5 ppb toluene ND at 5 ppb ethyl benzene ND at 5 ppb xylenes ND at 5 ppb diesel range 1.6 ppm	
		Clay, grayish black, some gravel, moist, medium stiff, slightly plastic (CL)				
		Sandy gravelly clay, dark gray with grayish green mottling, 30-40% gravel up to 1-1/2" diam., moist, stiff (CL)	1	19		
10	10.01	Sandy clay, light brown, 15% gravel up to 1/4" diam., moist, medium stiff, slightly plastic (CL)	2	10		
		Silty clay, yellowish brown, 3-5% sand & gravel up to 1/4" diam., moist, medium stiff, moderately plastic (CL)	3	7		
		Sandy clay, light brown with reddish brown and dark brown mottling 1-3% gravel up to 1/8" diam saturated, medium stiff, moderately plastic (CL)	4	8		
20	0.01	Sandy clay, light brown with reddish brown mottling 15-20% gravel up to 1/4" diam., saturated, stiff, slightly plastic (CL)	5	17		
30						
40						
50						

WELL DATA LOG W-3



Notes:
- Bottom of boring at 18.0'

Date well drilled: 26 January 1990

Date water level measured: 23 February 1990

Well elevation: 29.70

LF Geologist: Chris Goodrum

EXPLANATION

Clay
Silt
Sand
Gravel

Sample interval

Sample retained for analysis

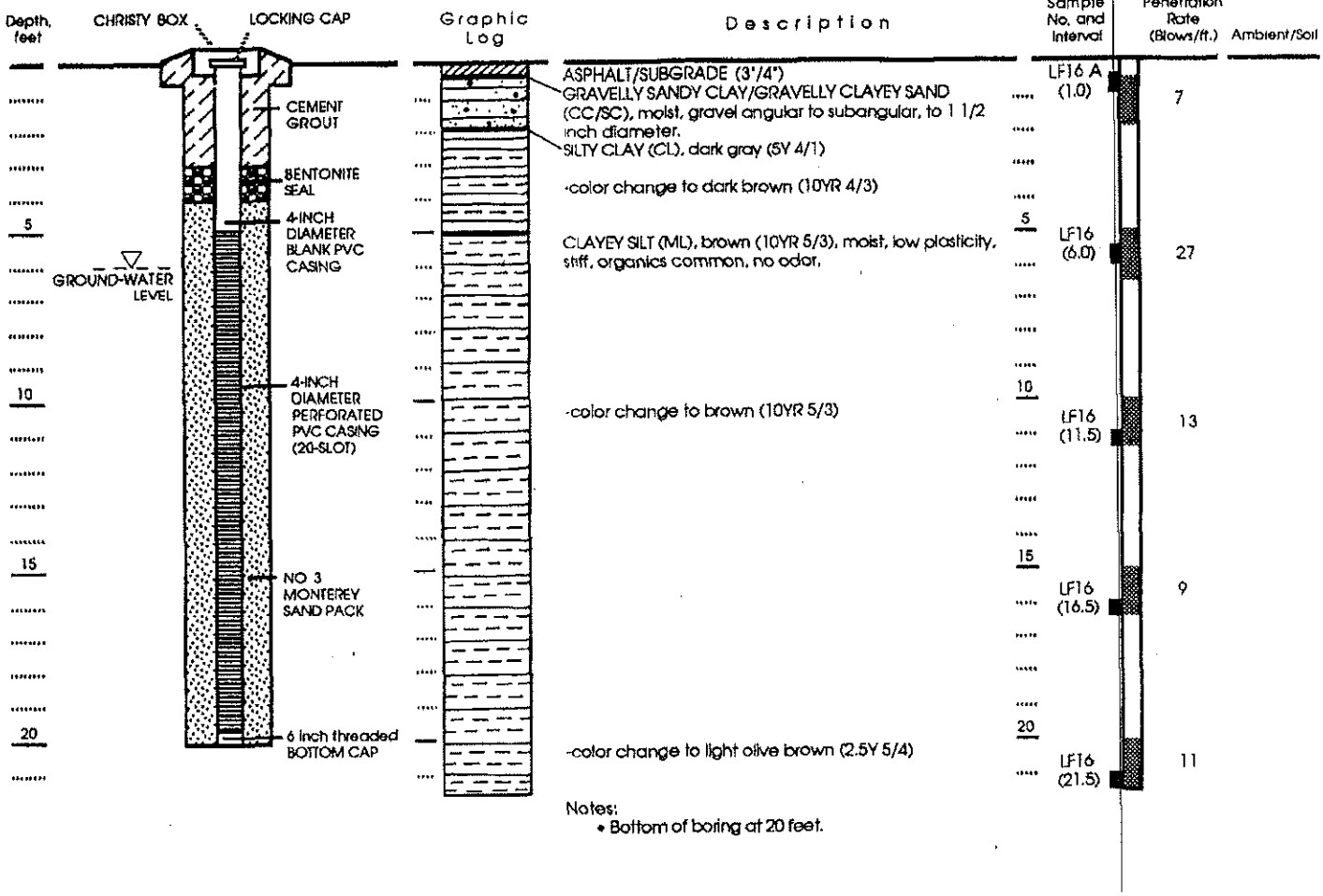
Approved by:

Figure C8 : WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-8

Project No. 1649

LEVINE•FRICKE
CONSULTING ENGINEERS AND HYDROGEOLOGISTS

1649AS1&May90lgb•LF8



Notes:
- Bottom of boring at 20 feet.

Date well drilled: 13 February 1990

Date water level measured: 23 February 1990

Well elevation: 17.56

LF Geologist: Chris Goodrum

EXPLANATION

Clay
Silt
Sand
Gravel

Sample interval

Sample retained for analysis

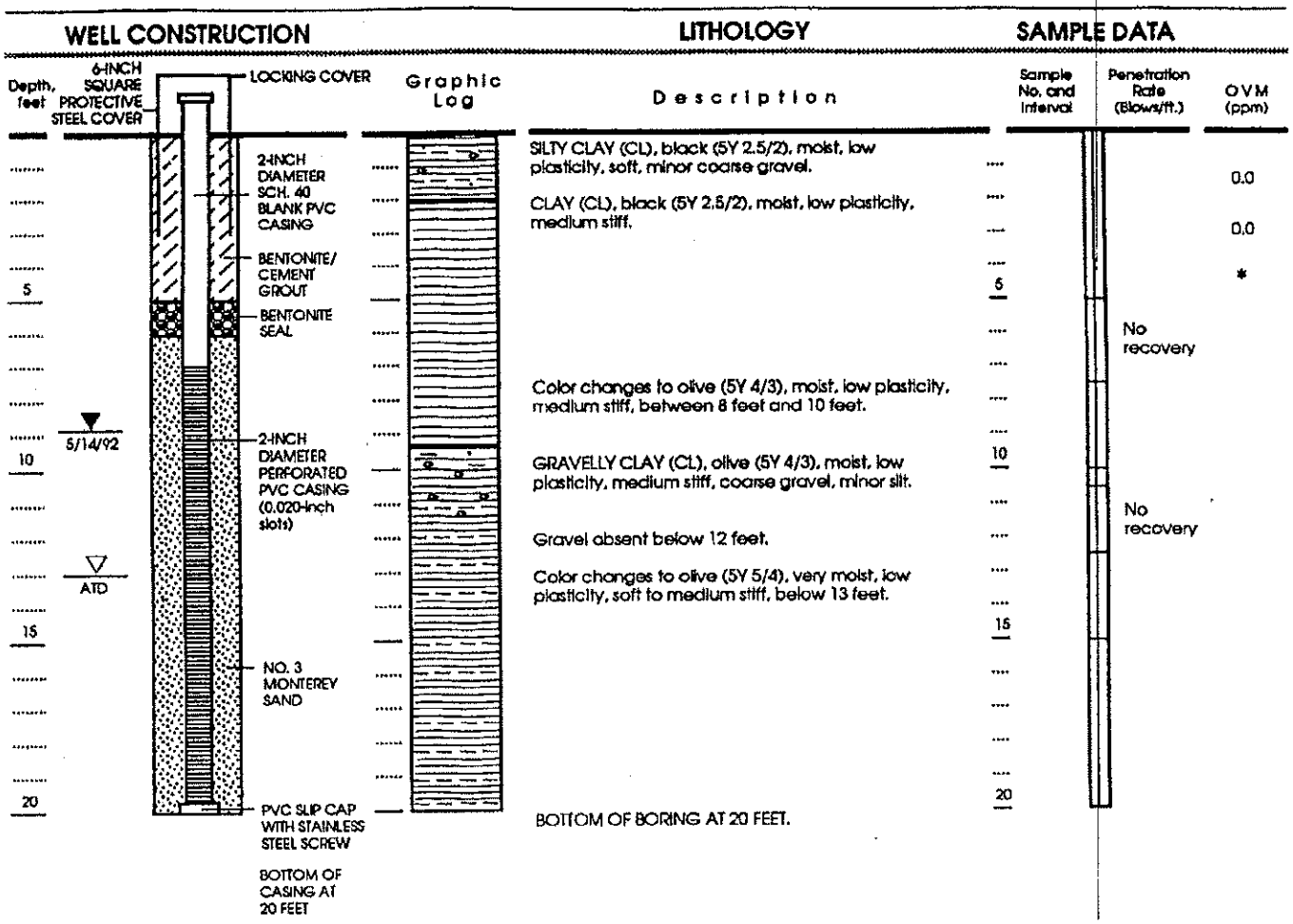
Approved by:

Figure C13 : WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-16

Project No. 1649

LEVINE•FRICKE
CONSULTING ENGINEERS AND HYDROGEOLOGISTS

1649AS16May90kgb•LF16



EXPLANATION

Clay
Silt
Sand
Gravel

Date well drilled: May 5, 1992
Date Water Level measured: May 14, 1992
Drilling method: Hollow Stem Auger
Hammer weight and drop:
LF Geologist: William Madison

Continuous Core Sampler

* OVM readings not collected below 5 feet bgs due to error

Static water level

Water-level at time of drilling

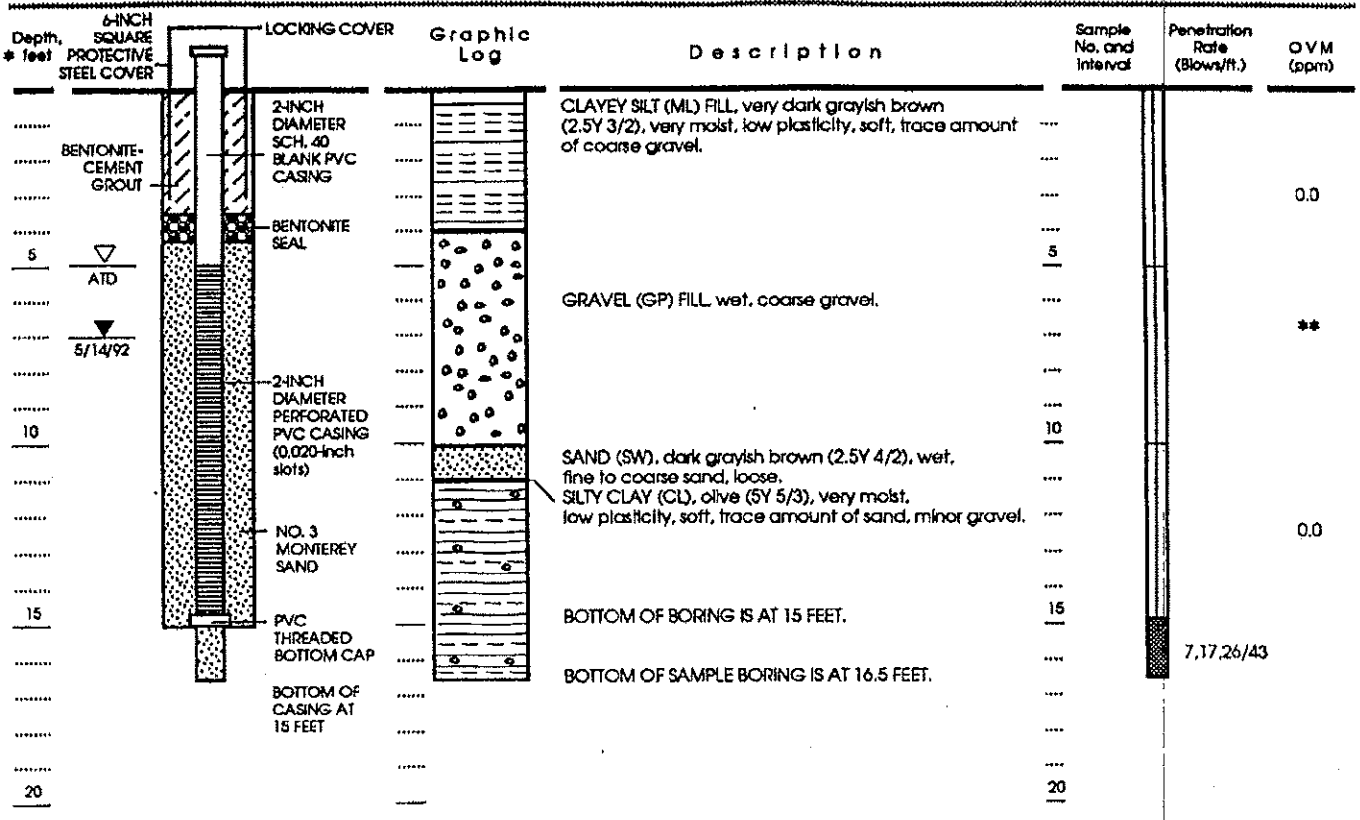
Approved by: Kathleen Jones R.G #5106

Figure B-1 : WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-24

Project No. 1649.07

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

WEM07JUL92JSC/MP



EXPLANATION

Clay
Silt
Sand
Gravel

Date well drilled: May 6, 1992
Date Water Level measured: May 14, 1992
Drilling method: Hollow Stem Auger
Hammer weight and drop: 140 lb.
LF Geologist: William Madison

Continuous Core Sampler
Modified California Sampler
Static water level
Water-level at time of drilling

* Depths are from top of boring. Top of well is 3'-4' below grade of site

** OVM reading not collected

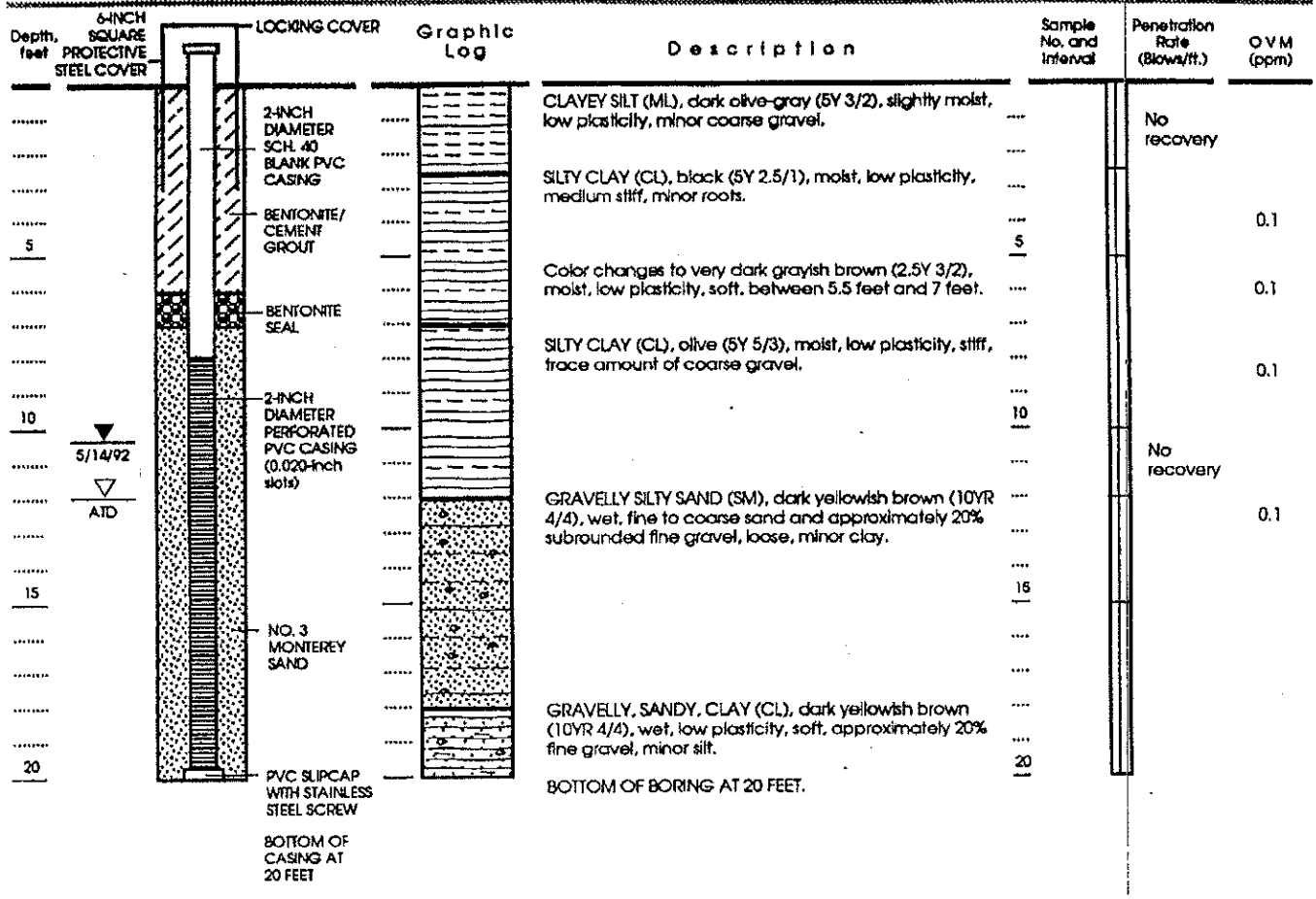
Approved by: Kenneth Hamm — R.G # 5106

Figure B-2 : WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-25

Project No. 1649.07

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

WEM07JUL92JSC/MP



EXPLANATION

Clay
Silt
Sand
Gravel

Date well drilled: May 6, 1992
Date Water Level measured: May 14, 1992
Drilling method: Hollow Stem Auger
Hammer weight and drop: -
LF Geologist: William Madison

Continuous Core Sampler
Static water level
Water-level at time of drilling

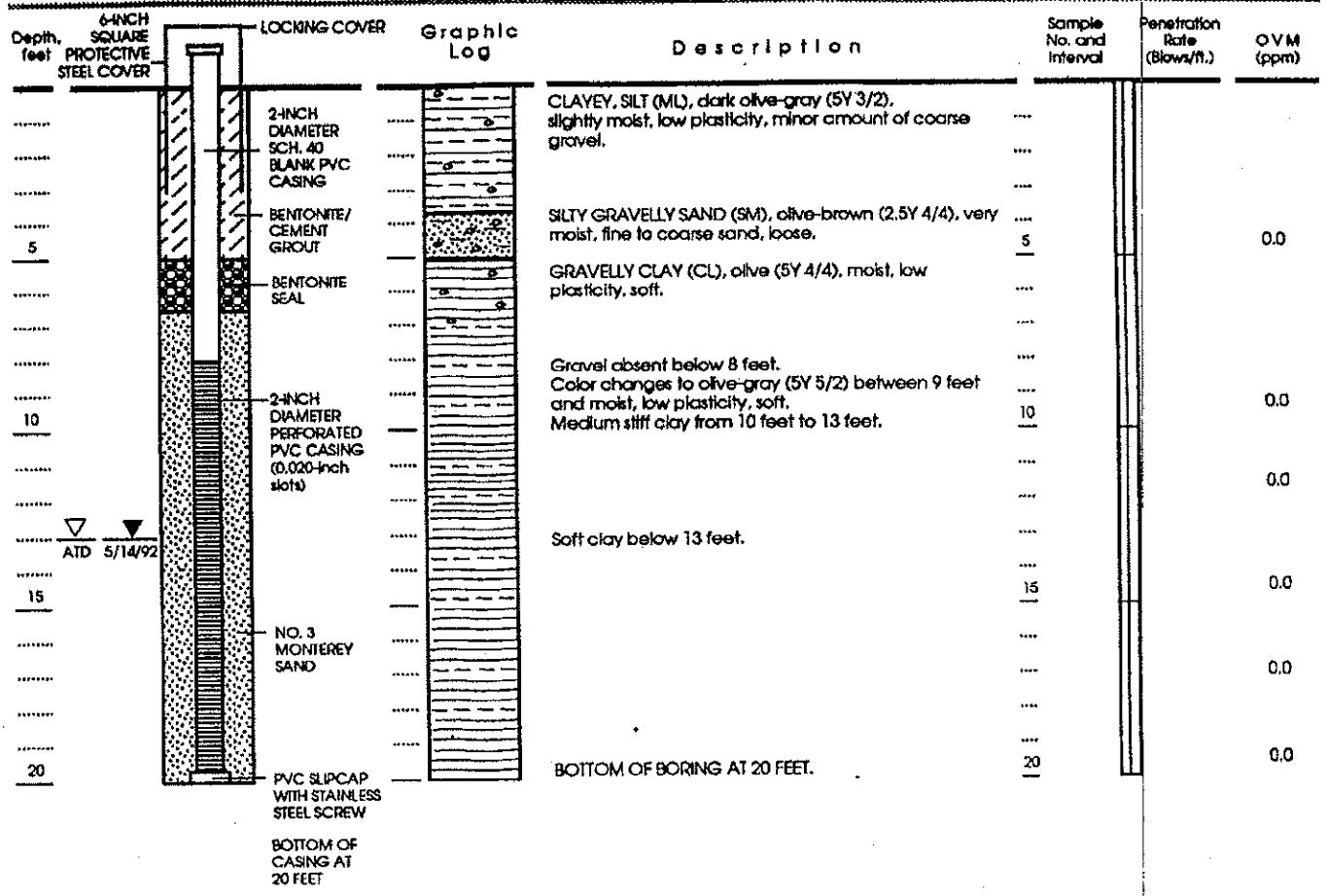
Approved by: Kathleen R. Hanna R.G. #5106

Figure B-3 : WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-26

Project No. 1649.07

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

WEM07JUL92JSC/MP



EXPLANATION

- Clay
- Silt
- Sand
- Gravel

Date well drilled: May 5, 1992
Date Water Level measured: May 5, 1992
Drilling method: Hollow Stem Auger
Hammer weight and drop:
LF Geologist: William Madison

- Continuous Core Sampler
- Static water level
- Water level at time of drilling

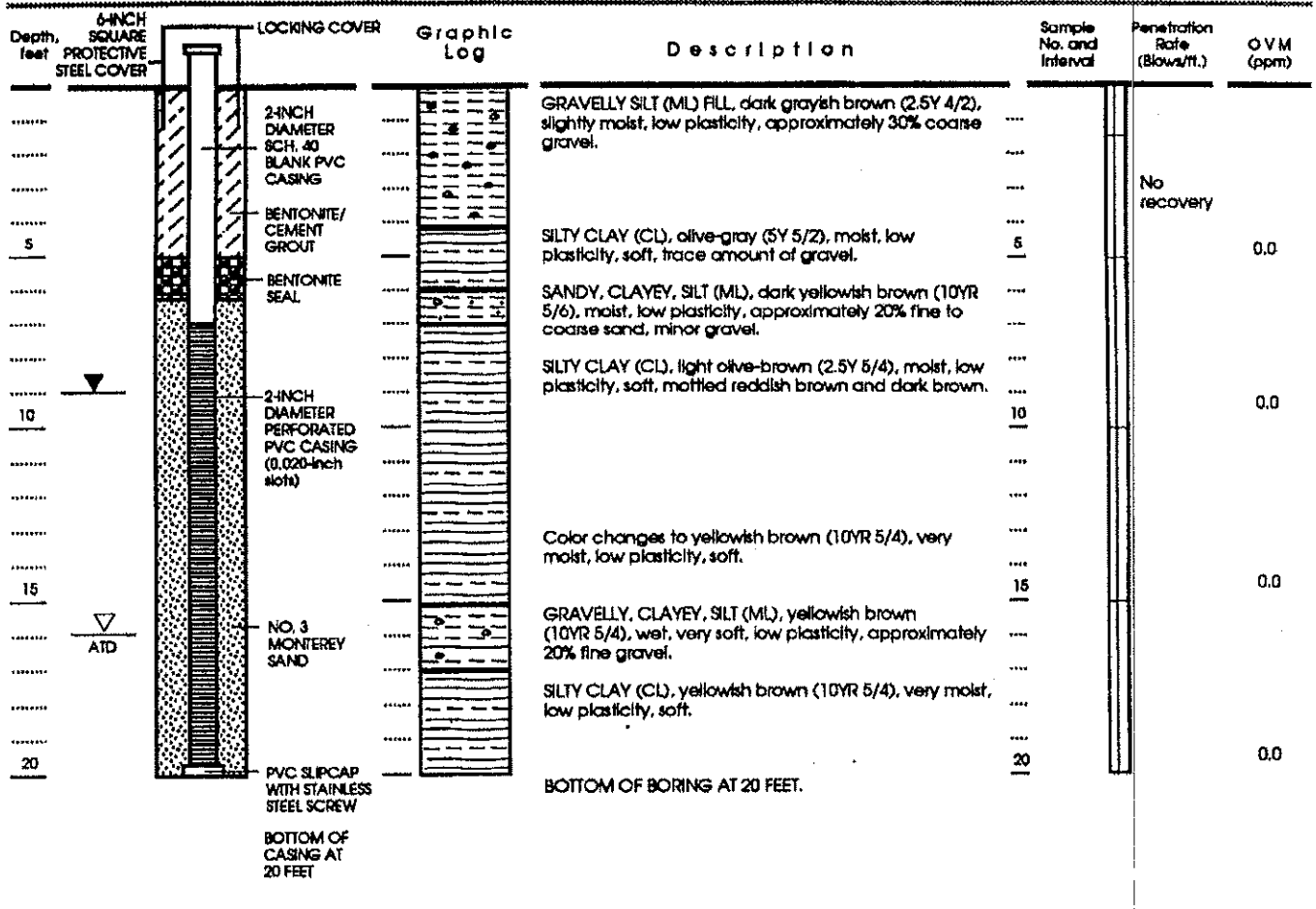
Approved by: Kathleen Hanna R.G. #5106

Figure B-4 : WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-27

Project No. 1649.07

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

WEM07JUL92JSC/MP



EXPLANATION

Clay
Silt
Sand
Gravel

Date well drilled: May 5, 1992
Date Water Level measured: May 14, 1992
Drilling method: Hollow Stem Auger
Hammer weight and drop:
LF Geologist: William Madison

Continuous Core Sampler
Static water level
Water level at time of drilling

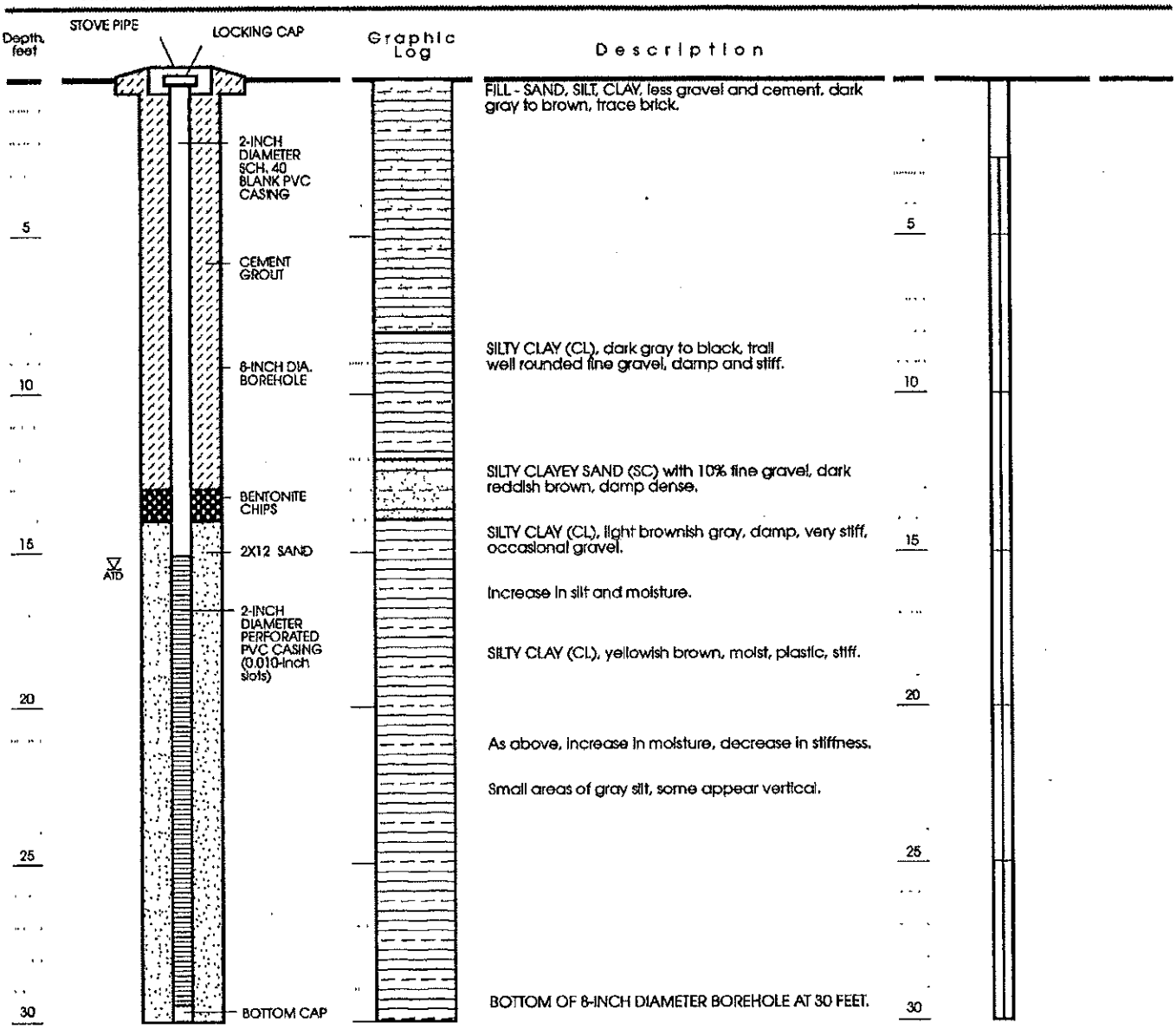
Approved by: Kathleen Hamm R.G. #5106

Figure B-5 : WELL CONSTRUCTION AND LITHOLOGY FOR WELL LF-28

Project No. 1649.07

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

WEM07JUL92JSC/MP



Permit No.: 94411
Drilling method: Hollow Stem Auger
Date well drilled: July 12, 1994
Well elevation: 27.47
Drilling company: Gregg Drilling
LF Geologist: Ron Goloubow

EXPLANATION

Clay
Silt
Sand
Gravel
5-foot continuous core
ATD Water encountered in sediment at time of drilling

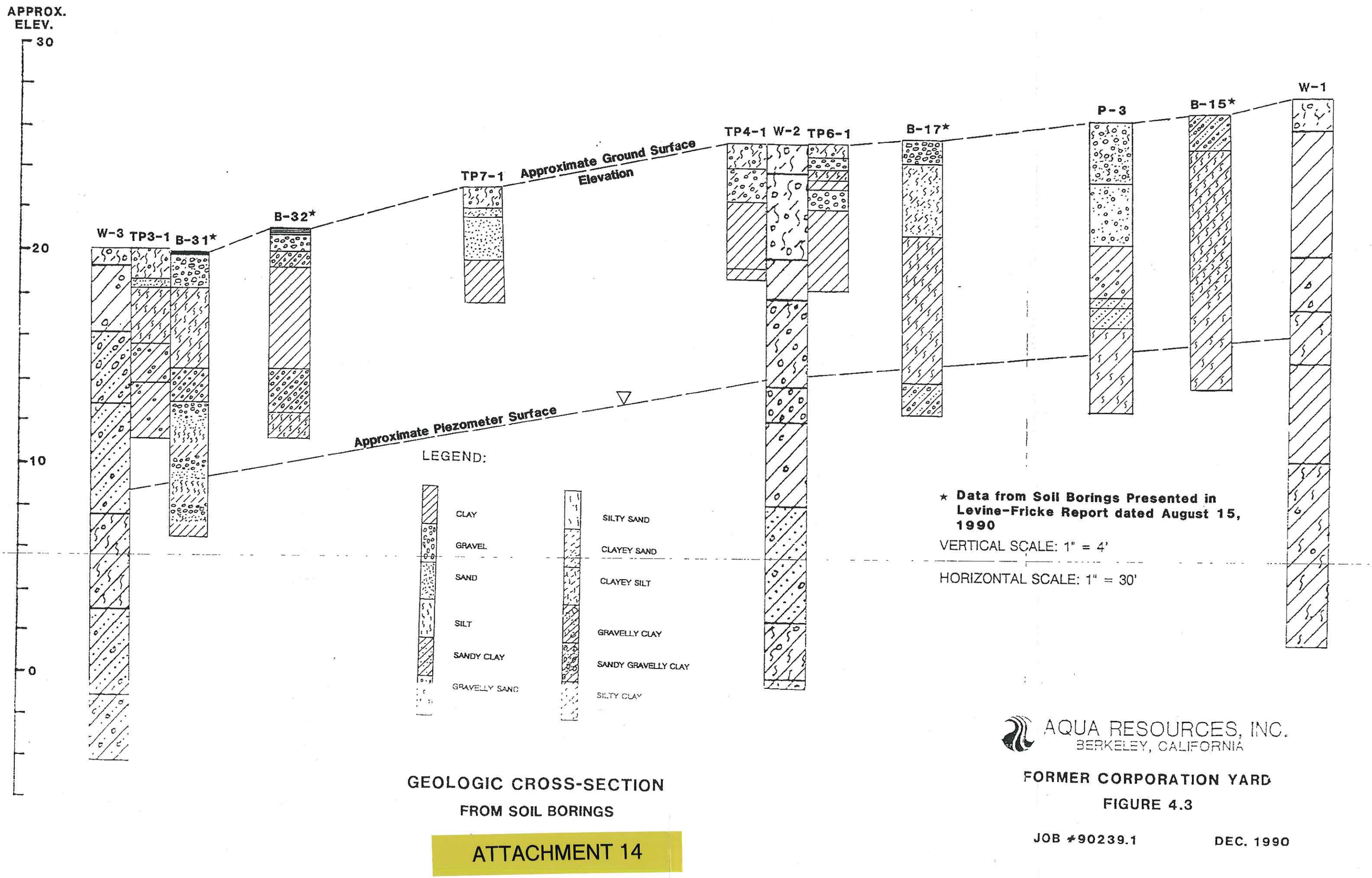
Approved by: RG 4593

WELL CONSTRUCTION AND LITHOLOGY FOR WELL MW-1

Project No. 1649.18

LEVINE•FRICKE
ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

1649L017.REG:JSC/JSM 102094



★ **Data from Soil Borings Presented in Levine-Fricke Report dated August 15, 1990**

VERTICAL SCALE: 1" = 4'

HORIZONTAL SCALE: 1" = 30'

AQUA RESOURCES, INC.
BERKELEY, CALIFORNIA

GEOLOGIC CROSS-SECTION

FROM SOIL BORINGS

FORMER CORPORATION YARD

FIGURE 4.3

JOB #90239.1 **DEC. 1990**

ATTACHMENT 14