ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

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

April 2, 2004

Ms. Diane Frizzie
P.O. Box 2293
Flournoy, CA 96029-2293

Dear Ms. Frizzie:

Subject: Fuel Leak Site Case Closure Frank's Tire Service, 1115 21st St., Oakland, CA 94607, Case No. RO0000301

This letter confirms the completion of a site investigation and remedial action for the 500 gallon gasoline underground storage tank 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.

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,

Mee Ling Tung
Director
Alameda County Environmental Health

Alameda County Environmental Health

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

I. AGENCY INFORMATION

Date: 3/30/04

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6765
Responsible Staff Person: Barney Chan	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Frank's Tire Service		
Site Facility Address: 1115 21st St., Oakland, CA 94607		
RB Case No.: ----	Local Case No.: STID # 4619	LOP Case No.: RO0000301
URF Filing Date: 11/30/93	SWEEPS No.: ---	APN: 005-0406-039-00

Responsible Parties	Addresses	Phone Numbers
Ms. Diane Frizzie	P.O. Box 2293, Flournoy, CA 96029-2293	530-833-9851

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	500	Gasoline	Removed	11/23/93
Piping			Presumed closed in place	11/23/93

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: crack in side/bottom seam of tank observed		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? No	Number: NA	Proper screened interval? NA
Highest GW Depth Below Ground Surface: ~11.5'bgs as estimated in temporary boring *	Lowest Depth: ~11.5'bgs *	Flow Direction: not determined, assumed to be southwesterly based upon topography *

Most Sensitive Current Use: Potential drinking water source.

*Monitoring wells not installed. Depth to groundwater estimated from temporary borings drilled at site. Nearest site with groundwater gradient information is 2311 Adeline St., located ~1100' north of this site. Gradient at this site determined to be south-southwest and depth to water ranging from 4.5-11.5 bgs.

Summary of Production Wells in Vicinity
No water supply wells were identified within ½-mile of the subject site.

Are drinking water wells affected? No	Aquifer Name: Oakland Sub Basin-East Bay Plain
Is surface water affected? No	Nearest Sub Name: SF Bay ~1.5 miles to the west, Oakland Inner Harbor ~1.3 miles to the south and Lake Merritt ~1.25 miles to the east.
Off-Site Beneficial Use Impacts (Addresses/Locations): None Identified	

Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and City of Oakland Fire Department OES

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	1-500	Disposed at H&H Shipyard, San Francisco	11-23-93
Piping	Not Reported	Presumed closed in place	11-23-93
Soil	~ 30 cy	Unknown, presumed reused as back fill	5-6-94

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

	Soil (ppm)		Water (ppb)	
Contaminant	Before	After	Before	After
TPH (Gas)	630	290	---	<50
Benzene	2.8	2.8	---	<0.5
Toluene	5.8	5.8	---	<0.5
Ethyl Benzene	6.0	6.0	---	<0.5
Xylenes	38	38	---	<1.0
Heavy Metals- lead	6.6	6.6	---	---
MTBE (if not analyzed, explain below)	----	<0.005 *	---	<0.5 **

* MTBE<0.005ppm, <0.5ppm EtOH, <0.005ppm TAME, <0.005ppm ETBE, <0.005ppm DIPE, <0.25 TBA, <0.005 EDB, and <0.005ppm EDC (12/12/03)

**MTBE<0.5 ppb, <100ppb EtOH, <1ppb TAME, <1ppb ETBE, <0.5ppb DIPE, <10ppb TBA, <0.5EDB and <1 ppb EDC (12/12/03)

Site History and Description of Corrective Actions:

The subject site is located in west Oakland at 1115 21st Street between Adeline and Chestnut Streets. One former 500 gallon gasoline UST was located on the street in front of the warehouse building. A piping run of approximately ten feet led from the UST to the dispenser, which was located just inside the building. See Attachment 1 for site location.

On November 11, 1993 the UST was removed from the site. One soil sample (BP-1) was collected from beneath the floor of the excavation at a depth of 9.5' bgs and two discrete soil samples were collected from the approximate 15 cy of stockpiled soils. No contamination was observed in the floor of the excavation by stains and odors. The excavation dimensions were approximately 10 x 6' x 8' deep. Sample BP-1 detected 630 ppm TPHg, 6.6 ppm lead and 2.8, 5.8, 6.0, and 38 ppm BTEX, respectively. The stock sample detected up to 22 ppm TPHg, 3.2 ppm lead and 0.021, 0.027, 0.033, 0.035 ppm BTEX respectively. No groundwater was encountered in the excavation. See Attachment 2.

On May 6, 1994 the original excavation was over-excavated to a depth of 11' bgs and a total of 23 cy of soils combined was generated from the initial and over excavation. Four discrete soil samples were collected from the sidewalls at a depth of 9' bgs and one floor sample from a depth of 11' bgs was collected. All soil sample results were ND for TPHg and BTEX, except sample WSP-1, the sample from the north sidewall. This sample detected 290 ppm TPHg and 2.8, 5.8, 6.0, 38 ppm BTEX respectively. The combined stockpiled soils were sampled using four discrete samples taken from a depth of ~2' bgs. The composite sample from the stockpile, STK (1-4), detected 5.1 ppm TPHg and ND, 0.11, 0.13 to 0.83 ppm BTEX respectively. No information was provided for the disposition of this soil, therefore, it is presumed to have been used to backfill the excavation. See Attachment 3 and 4.

On December 23, 2003 a soil and groundwater investigation was performed. Shallow soil samples from 4' bgs were collected from beneath the former dispenser and along the piping run to the former UST. Three additional soil borings were advanced to determine if groundwater had been impacted. Two were in assumed down-gradient locations and one was located near former soil sample, VSP-1, to see if the residual contamination found in 1994 still remained. Soil samples were collected at a depth of 10' bgs. The borings were advanced further to 15' bgs and a grab groundwater sample collected. The results of this investigation reported ND in all samples for all analytes tested, TPHg, BTEX, and VOCs by EPA 8260. It appears that groundwater has not been contaminated and residual soil contamination has been degraded in vicinity of VSP-1 and/or is limited in extent. See Attachments 5-7. The boring log for 2VSP1 indicates that soil are silty clay from surface to the saturated zone, which appears at ~ 10' bgs in a sand clay, silty sand layer. See Attachment 8.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes No		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes No		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements: Case closure for the fuel leak site is granted for commercial land use. If a change in land use to residential or other conservative scenario occurs at this property, Alameda County Environmental Health must be notified and the case needs to be re-evaluated. Site should be included in the City of Oakland Permit Tracking System.		
Should corrective action be reviewed if land use changes? Yes, according to the above Site Management Requirements		
Monitoring Wells Decommissioned: NA	Number Decommissioned: NA	Number Retained: NA
List Enforcement Actions Taken: NOV (1/19/96), Final NOV (8/21/96)		
List Enforcement Actions Rescinded: above NOV and Final NOV		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

- Disposal destination of soil excavated during UST removal not reported, assumed re-deposited in UST excavation. Stockpiled soils detected up to 22 ppm TPHg, 0.021, 0.11, 0.13, 0.83 ppm BTEX, respectively.
- Monitoring wells were not installed at site. Groundwater gradient not determined and is assumed to be south-southwest based upon the gradient at a site located 1100' to the north of this site.
- It should be noted that the soil samples were analyzed by Priority Environmental Labs prior to the lapse of this lab's certification and therefore, the results are deemed acceptable. All subsequent analyses were performed by another certified lab.
- Residual benzene of up to 2.8 ppm was detected in a 10' deep soil sample, VSP-1 in 5/94. A soil sample, 2VSP-1, collected at 10' depth near former VSP-1 on 12/2003 detected ND for benzene.
- Site closure is recommended for current commercial land use only. If land use changes to residential or other conservative scenario, Alameda County must be notified and the case re-evaluated.

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 under the current commercial land use. The source area (UST's 6'x11' deep) was over-excavated. Recent soil and groundwater sampling did not detect any [illegible] contamination. Residual contamination appears to either have degraded over time or be limited in extent. ACEH staff recommend closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Barney Chan	Title: Hazardous Materials Specialist
Signature: Barney Chan	Date: 4/2/04
Approved by: Donna L. Drogos, P.E.	Title: Supervising Hazardous Materials Specialist
Signature:	Date: 04/02/04

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: Betty Graham	Title: Associate Water Resources Control Engineer
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB:
Signature: Betty Graham	Date: April 2, 2004

Attachments:

1. Site Vicinity Map
2. Initial Tank Removal Sample Locations
3. Over-excavation Soil Samples
4. Soil Analytical Results
5. Additional Soil and Groundwater Samples
6. Soil Analytical Results
7. Groundwater Analytical Results
8. Boring Logs

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

Post-it® Fax Note 7671	Date 4/2/04 # of pages ▶
To Barney Chan	From Betty Graham
Co./Dept.	Co.
Phone #	Phone #
Fax #	Fax #

1115 21st STREET
OAKLAND, CALIFORNIA

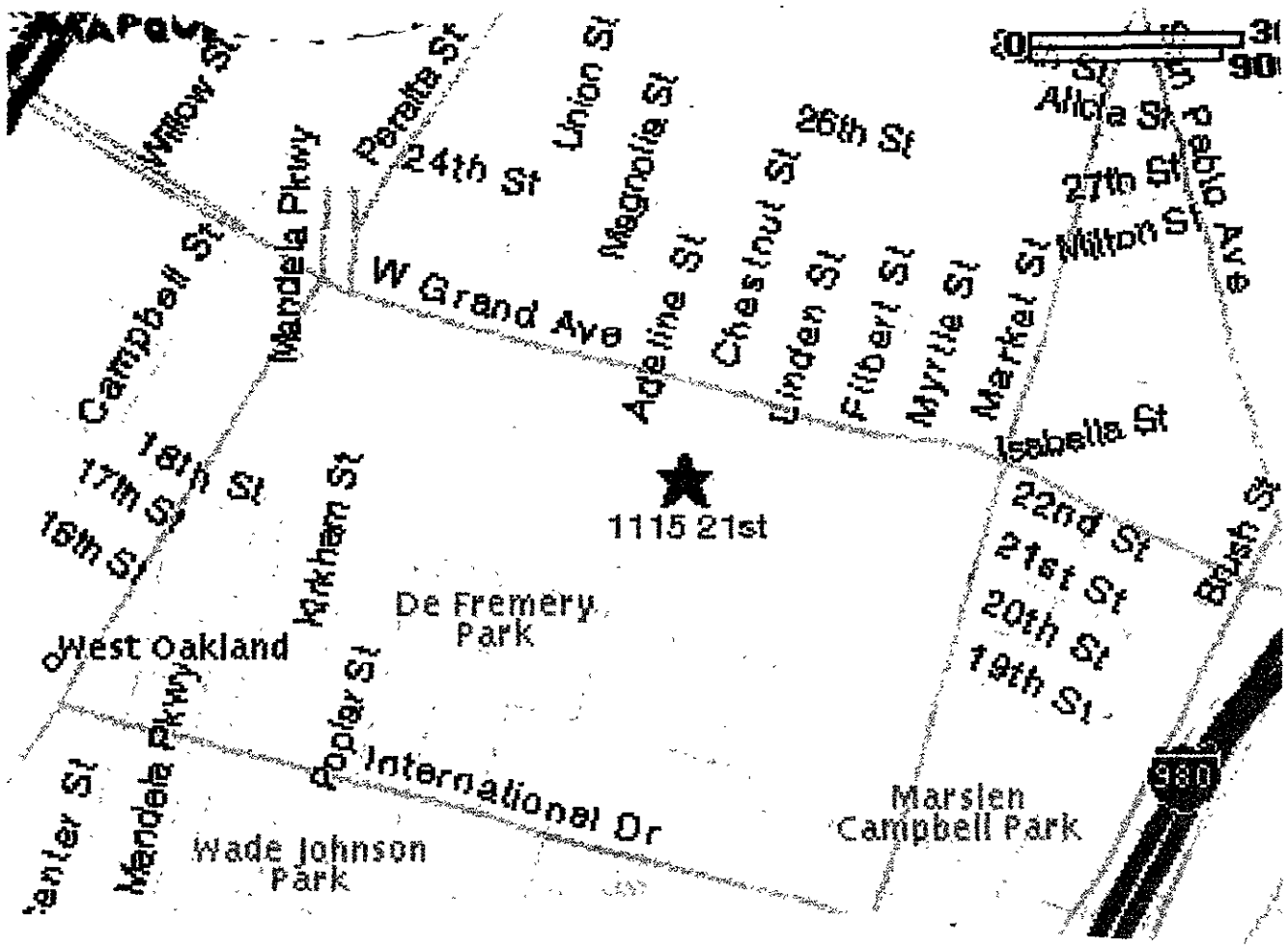
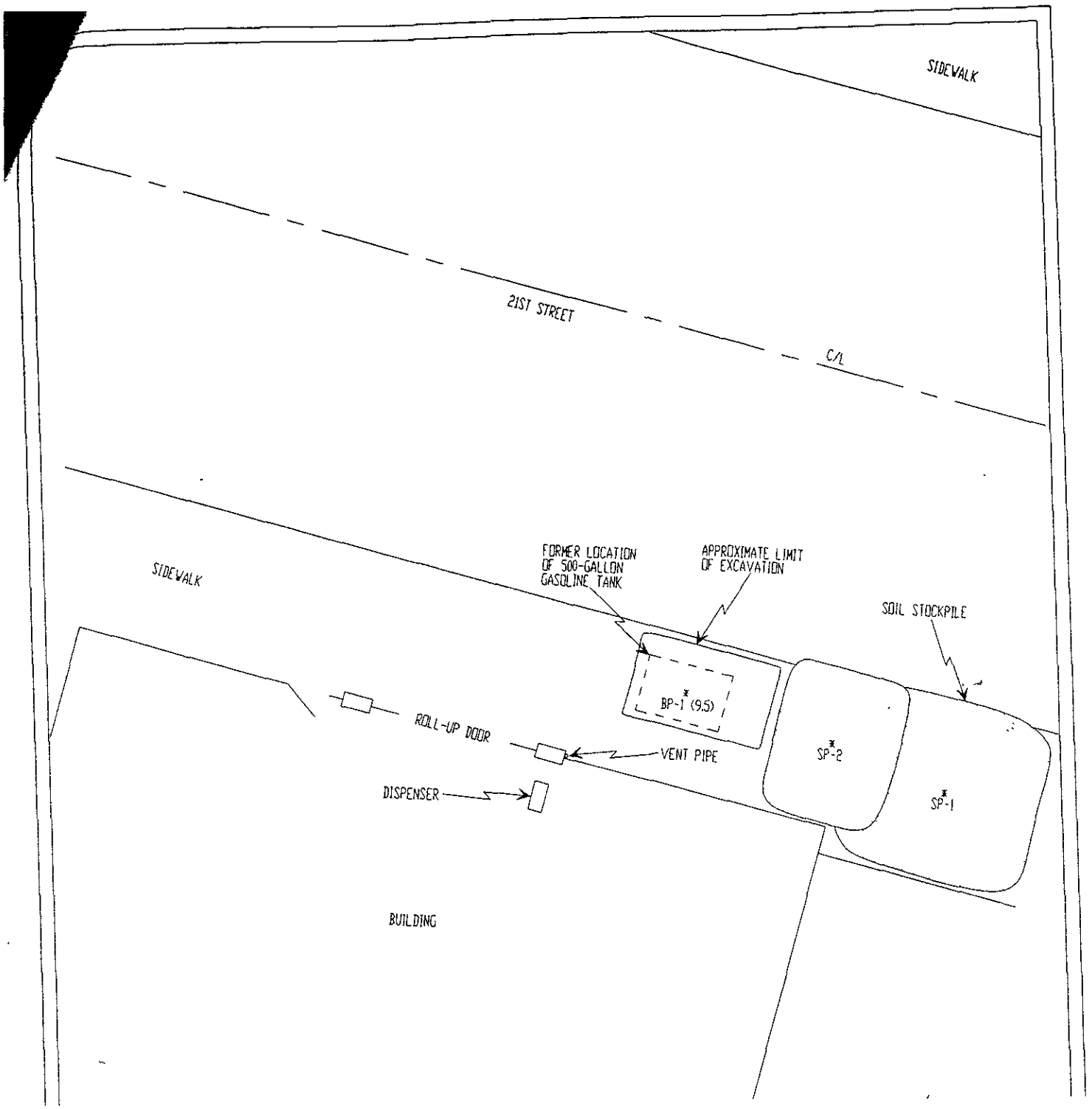


Figure 1 - Site Location Map

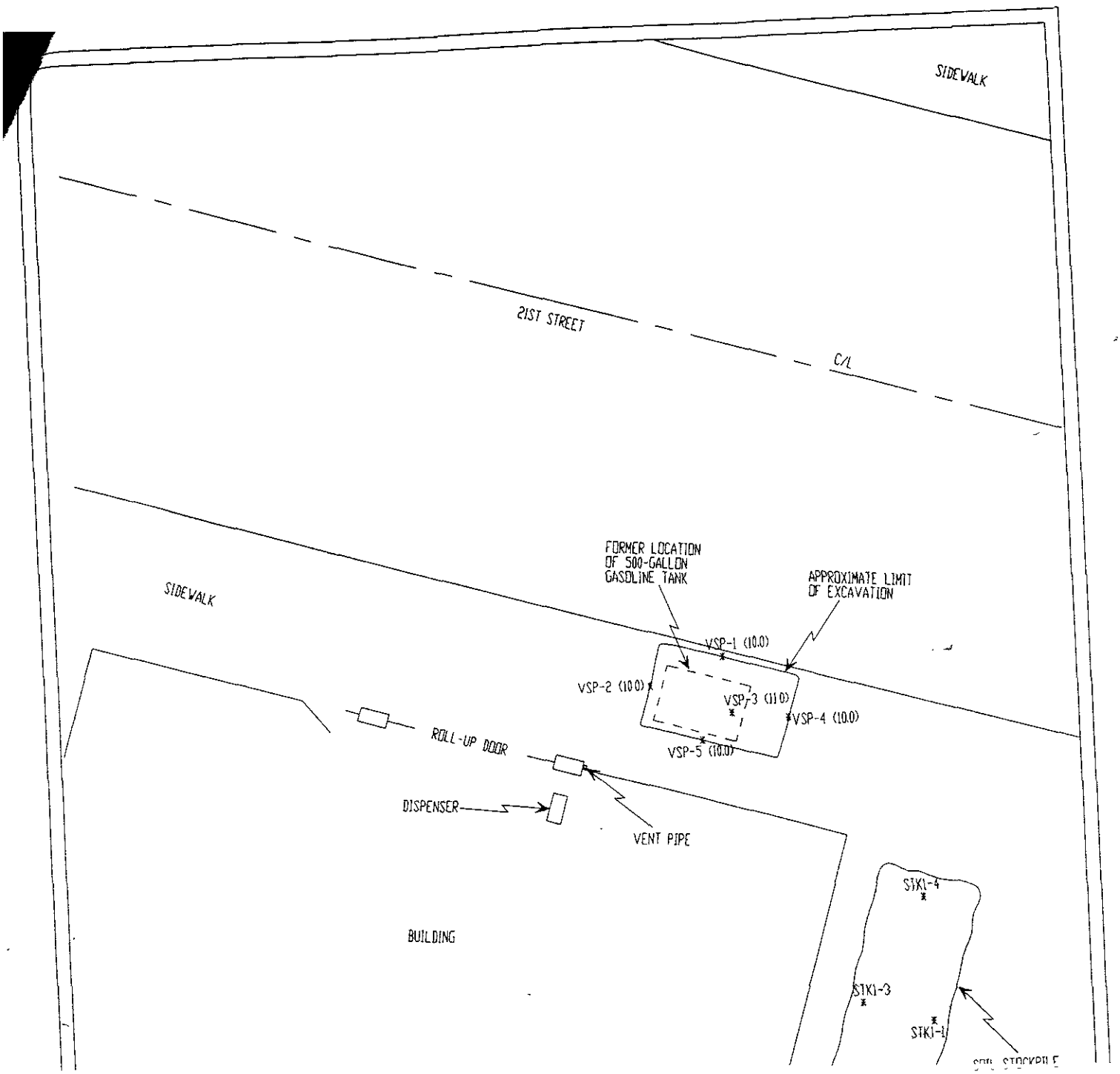
Site Location:
1115 21st Street
Oakland, CA 94607

Environmental Technical Services
1548 Jacob Avenue, San Jose, CA 95124
(408) 267-6427

ATTACHMENT 1



ATTACHMENT 2



ATTACHMENT 3

2.2.1 Analytical Results of Soil Samples Collected Subsequent to the Excavation of Contaminated Soil

TABLE II
Over Excavation of Tank Pit
May 6, 1994

Sample ID	TPHg (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-Benzene (mg/Kg)	Total Xylenes (mg/Kg)	Lead (mg/Kg)
VSP-1 (10')	290	2.8	5.8	6.0	38.0	NA
VSP-2 (10')	ND	ND	ND	ND	ND	NA
VSP-3 (11')	ND	ND	ND	ND	ND	NA
VSP-4 (10')	ND	ND	ND	ND	ND	NA
VSP-5 (10')	ND	ND	ND	ND	ND	NA

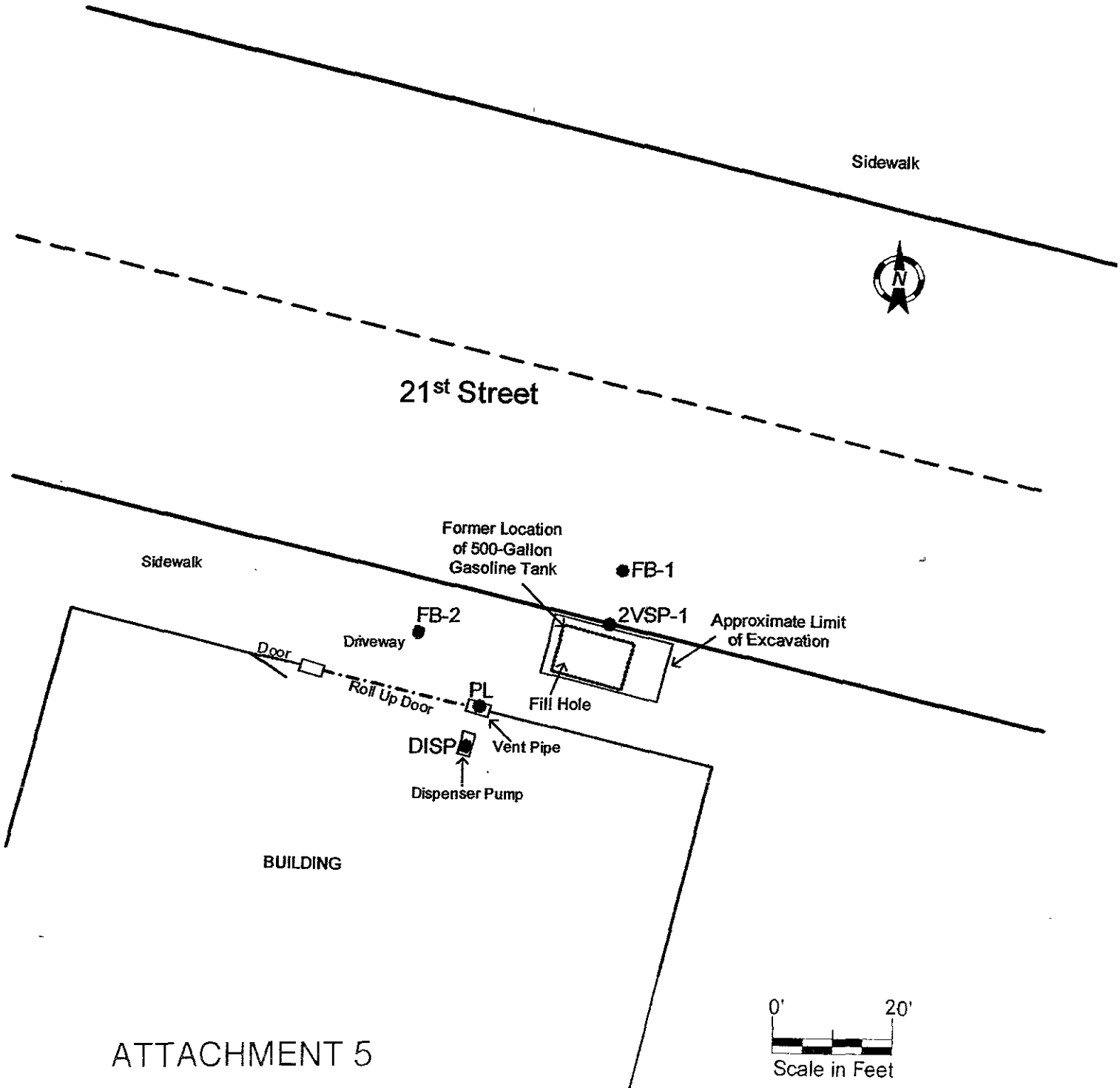
ND = Non Detect for constituent analyzed.

TABLE I
Original Removal of One 500-Gallon Gasoline UST
November 23, 1993

Sample ID	TPHg (mg/Kg)	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethyl-Benzene (µg/Kg)	Total Xylenes (µg/Kg)	Lead (mg/Kg)
BP-1	630	600	770	940	2500	6.6
SP-1	ND	ND	ND	ND	ND	7.0
SP-2	22	21	27	33	85	3.2
Detection Limit	1.0	5.0	5.0	5.0	5.0	1.0

ND = Non Detect for constituent analyzed

ATTACHMENT 4



ATTACHMENT 5

Figure 4 - Location of Former 500-Gallon Gasoline UST and Soil Boring Locations

Site Location:
1115 21st Street
Oakland, CA 94607

Environmental Technical Services
1548 Jacob Avenue, San Jose, CA 95124
(408) 267-6427

Legend:

- ● Location of Soil Boring
- ▭ Location of Former UST

3.7 Analyses

Soil samples were transported to North State Labs of South San Francisco, California, a state certified hazardous materials analytical laboratory, under chain of custody.

Selected soil samples and all groundwater samples, were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPHg), Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX) and MTBE and Fuel Oxygenates, using EPA Modified Method 8015/8020/602.

3.7.1 Analytical Results of Soil and Groundwater Samples Collected During a Limited Site Assessment

TABLE II
Limited Site Assessment
Soil Analytical Results
December 12, 2003

Sample ID	TPHg (µg /Kg)	Benzene (µg /Kg)	Toluene (µg /Kg)	Ethyl-Benzene (µg /Kg)	Total Xylenes (µg /Kg)	8260 (µg /Kg)
2VSP-1 (10')	ND	ND	ND	ND	ND	ND
FB-1 (10')	ND	ND	ND	ND	ND	ND
FB-2 (10')	ND	ND	ND	ND	ND	ND
DISP (4')	ND	ND	ND	ND	ND	ND
PL (4')	ND	ND	ND	ND	ND	ND

ND = Non Detect for constituent analyzed.
Analyses performed USA EPA Method 8260 included MTBE

ATTACHMENT 6

TABLE III
Limited Site Assessment
Groundwater Analytical Results
December 12, 2003

Sample ID	TPHg (µg /L)	Benzene (µg /L)	Toluene (µg /L)	Ethyl-Benzene (µg /L)	Total Xylenes (µg /L)	8260 (µg /L)
2VSP-1	ND	ND	ND	ND	ND	ND
FB-1	ND	ND	ND	ND	ND	ND
FB-2	ND	ND	ND	ND	ND	ND

ND = Non Detect for constituent analyzed.
Analyses performed USA EPA Method 8260 included MTBE

ATTACHMENT 7

3.8 Health and Safety Plan

A site specific Health and Safety Plan was onsite to guide the field crew in safely handling potentially hazardous materials, to discuss potential site and work hazards, and to identify the nearest health care facilities. These issues were discussed in a tailgate safety meeting prior to the initiation of work.

4.0 Recommendations and Conclusions

The soil and groundwater sample collected within exploratory boring 2VSP-1, 6" from the former 500-gallon gasoline tank pit, was analyzed for Total Petroleum Hydrocarbons as Gasoline (TPHg), Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX), MTBE and Fuel Oxygenates and were reported as not detected at the lower detection limit for each contaminant of concern. Soil samples collected beneath the fuel dispenser (DISP), and product lines (PL) at a depth of 4.0' bgs were also reported as not detected for each contaminant of concern. Laboratory analytical results indicate that natural biodegradation of previously existing contaminants has occurred and the site is not adversely impacted. It is our recommendation that the site receive closure and no further work is required.

North State Labs
CA ELAP# 1753
90 South Spruce Avenue, Suite V • South San Francisco, CA 94080 • (650) 266-4563 • FAX (650) 266-4560

CERTIFICATE OF ANALYSIS

Job Number: 03-1822
Client : ETS
Project :

Date Sampled : 12/12/2003
Date Analyzed: 12/15/2003
Date Reported: 12/16/2003

Fuel Oxygenates by Method 8260B

Laboratory Number	03-1822-01	03-1822-02	03-1822-03
Client ID	2VSP1	PL	DISP
Matrix	SO	SO	SO
Analyte	UG/KG	UG/KG	UG/KG
Methyl-tert-butyl ether	ND<5	ND<5	ND<5
Ethyl tert-butyl ether	ND<5	ND<5	ND<5
tert-Amyl methyl ether	ND<5	ND<5	ND<5
Di-isopropyl ether (DIPE)	ND<5	ND<5	ND<5
tert-Butyl alcohol	ND<250	ND<250	ND<250
1,2-Dichloroethane	ND<5	ND<5	ND<5
1,2-Dibromoethane	ND<5	ND<5	ND<5
Ethanol	ND<500	ND<500	ND<500
SUR-Dibromofluoromethane	100	136	142
SUR-Toluene-d8	80	86	85
SUR-4-Bromofluorobenzene	108	114	110

Comments:

North State Labs
CA ELAP# 175
90 South Spruce Avenue, Suite V • South San Francisco, CA 94080 • (650) 266-4563 • FAX (650) 266-456

C E R T I F I C A T E O F A N A L Y S I S

Job Number: 03-1822
Client : ETS
Project :

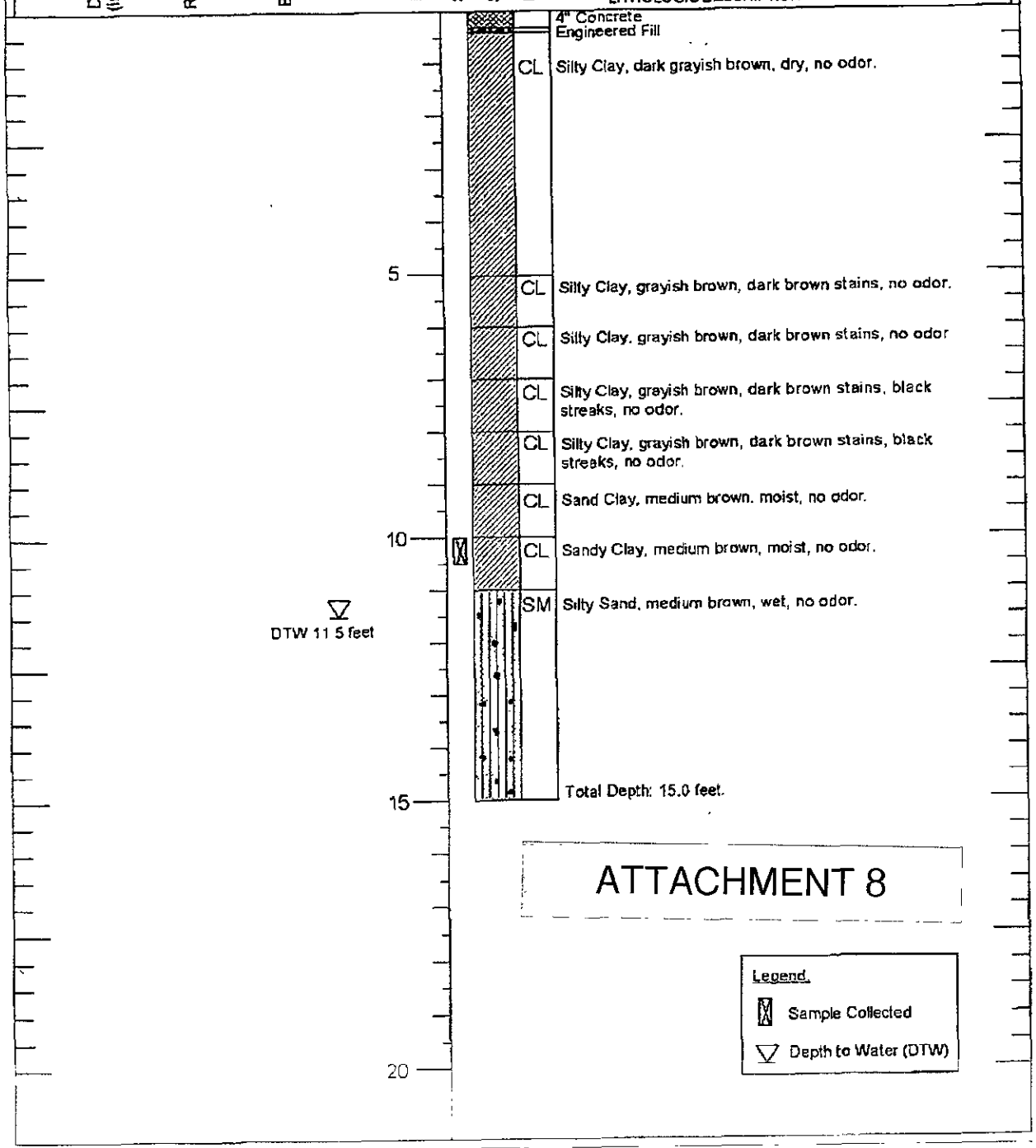
Date Sampled : 12/12/2003
Date Analyzed: 12/15/2003
Date Reported: 12/16/2003

Fuel Oxygenates by Method 8260B

Laboratory Number	03-1822-04
Client ID	2VSP1
Matrix	W
Analyte	UG/L
Methyl-tert-butyl ether	ND<0.5
Ethyl tert-butyl ether	ND<1
tert-Amyl methyl ether	ND<1
Di-isopropyl ether (DIPE)	ND<0.5
tert-Butyl alcohol	ND<10
1,2-Dichloroethane	ND<1
1,2-Dibromoethane	ND<0.5
Ethanol	ND<100
SUR-Dibromofluoromethane	120
SUR-Toluene-d8	99
SUR-4-Bromofluorobenzene	110

Comments:

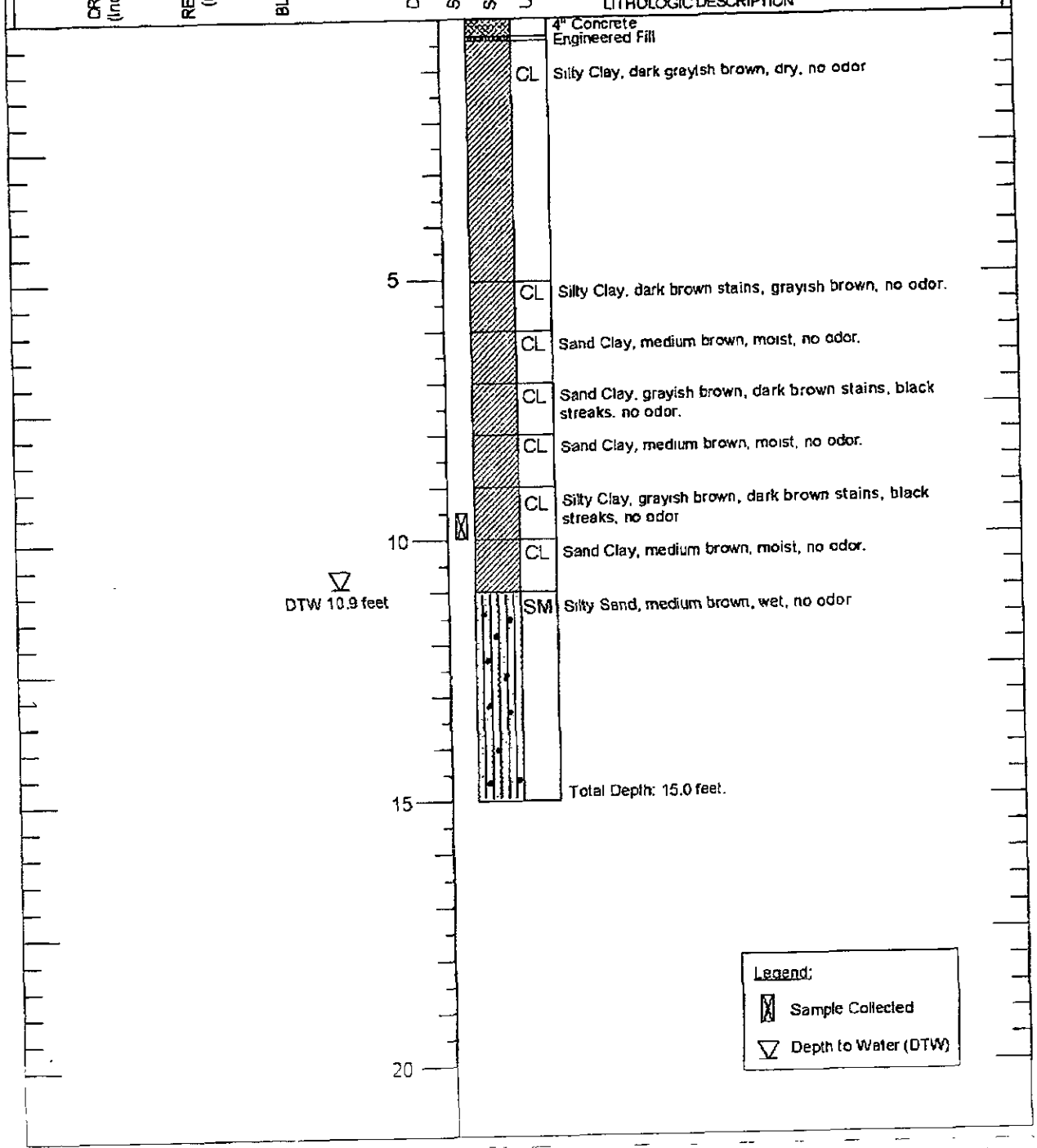
LOG OF BORING 2VSP1



CLIENT Diane Frizzie
SITE LOCATION 1115 21st Street, Oakland, Ca
LOGGED BY Helen Mawhinney
REVIEWED BY John Cavanough CA Lic #6515

DRILLING COMPANY Environmental Control Associates
DRILLING METHOD Geoprobe ®
DATE December 12, 2003

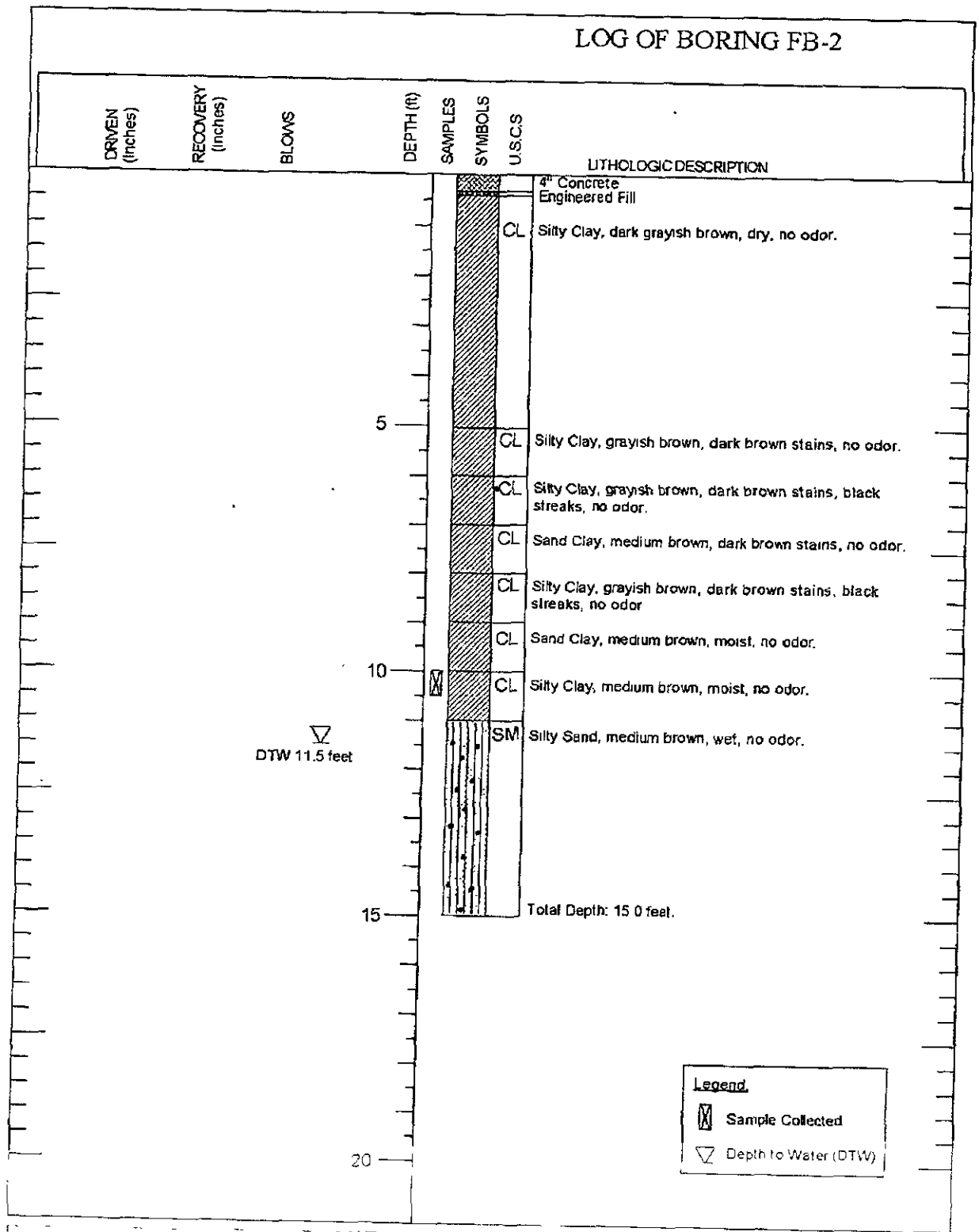
LOG OF BORING FB-1



CLIENT Diane Frizzle
SITE LOCATION 1115 21st Street, Oakland, Ca
LOGGED BY Helen Mawhinney
REVIEWED BY John Cavanough CA Lic #6515

DRILLING COMPANY Environmental Control Associates
DRILLING METHOD Geoprobe ®
DATE December 12, 2003

LOG OF BORING FB-2



CLIENT Diane Frizzle
SITE LOCATION 1115 21st Street, Oakland Ca
LOGGED BY Helen Mawhinney
REVIEWED BY John Cavanough CA Lic #6515

DRILLING COMPANY Environmental Control Associates
DRILLING METHOD Geoprobe ®
DATE December 12, 2003

ENVIRONMENTAL TECHNICAL SERVICES

1548 Jacob Avenue, San Jose, CA 95118 Phone: (408) 267-6427 Cell: (510) 385-4308 Fax (510) 522-6259

To:
Alameda County
Department of Environmental Health Services
Hazardous Materials Division
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502
Fax: (510) 337-9335
Attn: Mr. Barney Chan

4 pages include. cover

April 2, 2004

URGENT

From:
Environmental Technical Services
Phone: (408) 267-6427 **Cell: (510) 385-4308 **(best way to reach me)
Fax: (510) 522-6259
Helen Mawhinney
*email: HMawhinneyETS@ aol.com

FAX

Dear Mr. Chan,

Please find enclosed the correct boring logs for the "Report Documenting a Limited Site Assessment in the Area of a Former 500-Gallon Gasoline -Underground Storage Tank, beneath the site at 1115 21st Street, Oakland, California, December 2003.

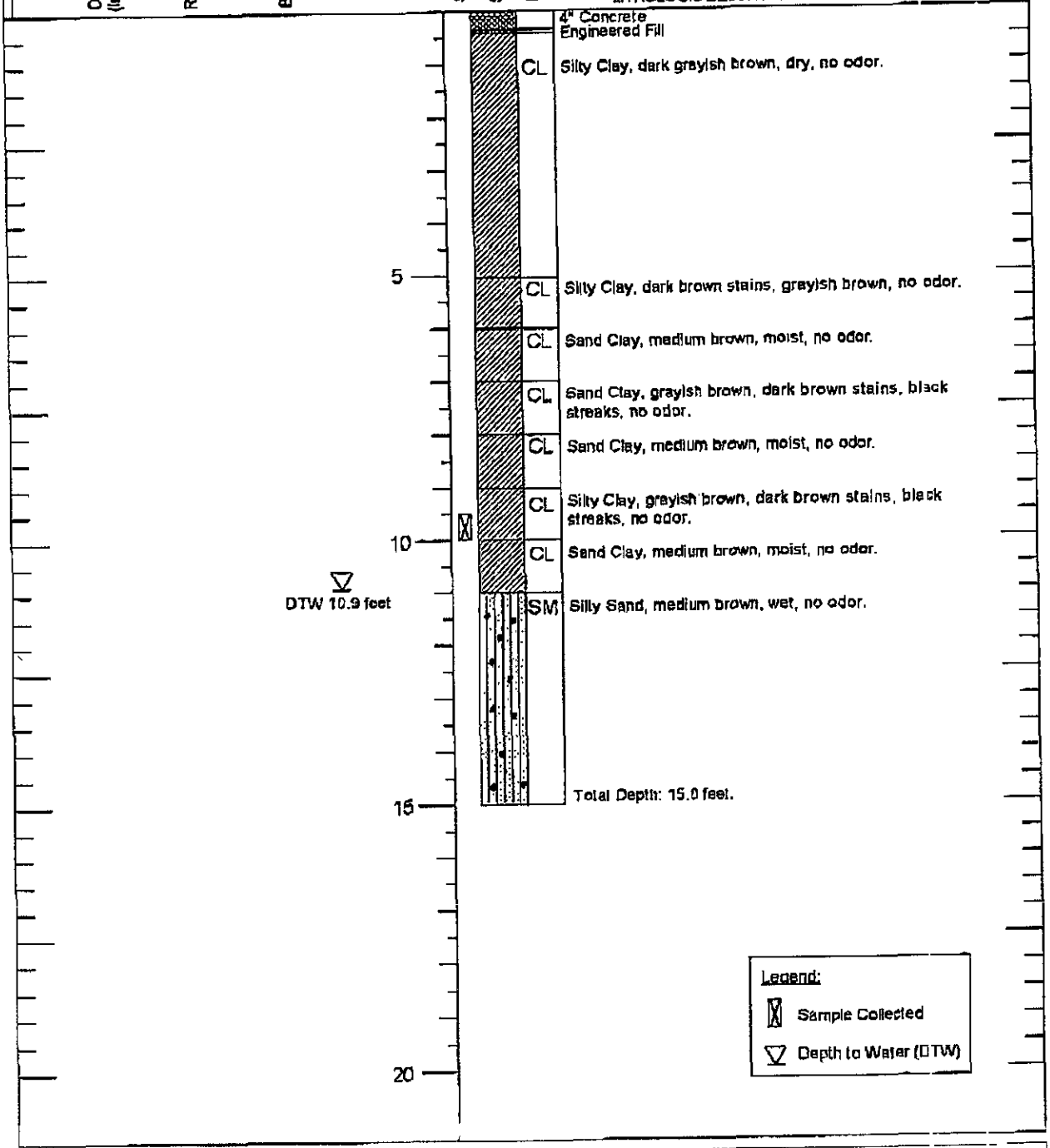
Our office has determined that draft-boring logs were inadvertently attached to the assessment repor. mailed to your office. A complete report with the final boring logs attached will be forwarded.

The project registered geologist John Cavanaugh is currently in the field on an out of town project.

Should you have any questions please feel free to contact me at (510) 385-4308.

Helen Mawhinney

LOG OF BORING FB-1



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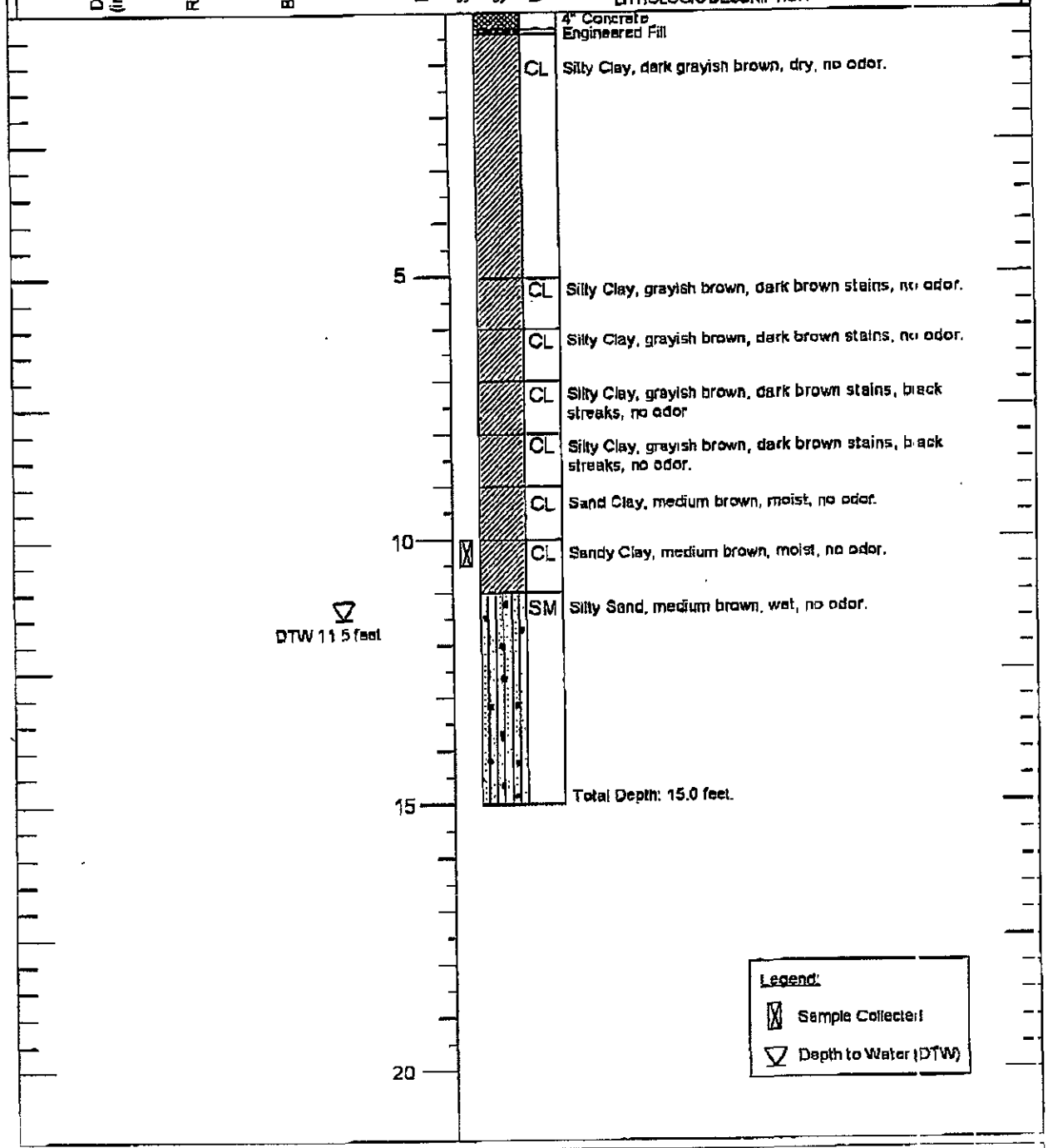
LOGGED BY Helen Mawhinney
REVIEWED BY John Cavanough CA Lic #6515

DRILLING COMPANY Environmental Contro. Associates
DRILLING METHOD Geoprobe ®
DATE December 12, 2003

LOG OF BORING 2VSP1



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