



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

**REMEDIAL ACTION COMPLETION CERTIFICATION**

**RO-425 - 1420 162<sup>nd</sup> Avenue, San Leandro, CA  
(1-7500 gallon tank removed on October 25, 1999)**

March 27, 2002

Mr. Don Puckett  
4687 Hawaina Wy  
Kelseyville, CA 95451

Ms. Betty Puckett  
18153 Plymouth Drive  
Castro Valley, CA 94546

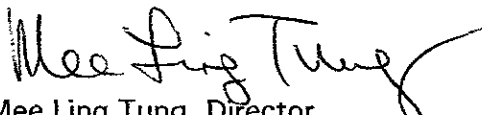
Dear Mr. and Ms. Puckett:

This letter confirms the completion of site investigation and corrective action for the 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 tanks 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 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

cc: Chuck Headlee, RWQCB  
Dave Deaner, SWRCB  
William McCammon, Alameda County Fire (QIC 41401)  
files-ec (I&d&scaffold--13)

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



04-09-02

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

RO0000425

March 27, 2002

Mr. Don Puckett  
4687 Hawaina Wy  
Kelseyville, CA 95451

Ms. Betty Puckett  
18153 Plymouth Drive  
Castro Valley, CA 94546

**Re: Fuel Leak Site Case Closure for 1420 162<sup>nd</sup> Avenue, San Leandro, CA**

Dear Mr. and Ms. Puckett:

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 Protection Division 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:

- up to 2.2ppm benzene and 28ppm MtBE exists in soil beneath the site at 1.5 feet bgs, in the vicinity of the former fuel dispenser;

If you have any questions, please contact me at (510) 567-6762.

eva chu  
Hazardous Materials Specialist

enclosures: 1. Case Closure Letter 2. Case Closure Summary

c: James Sorensen, Alameda County Planning Dept (QIC 50506) (w/o files (I&dscalfold-14)

CTH

FFR 05 2002

**CASE CLOSURE SUMMARY**  
**Leaking Underground Fuel Storage Tank Program**

QUALITY CONTROL BOARD

**I. AGENCY INFORMATION**

Date: January 28, 2002

Agency name: Alameda County-HazMat  
 City/State/Zip: Alameda, CA 94502  
 Responsible staff person: Eva Chu

Address: 1131 Harbor Bay Pkwy  
 Phone: (510) 567-6700  
 Title: Hazardous Materials Spec.

**II. CASE INFORMATION**

Site facility name: L & D Scaffold Inc.

Site facility address: 1420 162<sup>nd</sup> Avenue, San Leandro, CA 94578

RB LUSTIS Case No: N/A

Local Case No./LOP Case No.: R00000425

URF filing date: 11/3/99

SWEEPS No: N/A

Responsible Parties:

Addresses:

Phone Numbers:

Don Puckett  
 4687 Hawaina Wy  
 Kelseyville, CA 95451  
 (707) 277-7757

Betty Puckett  
 18153 Plymouth Drive  
 Castro Valley, CA 94546  
 (510) 537-5236

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	7,500	Gasoline	Removed	10/25/99

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

Cause and type of release: Leaking product piping.

Site characterization complete? YES

Date approved by oversight agency: 6/22/01

Monitoring Wells installed? Yes Number: 3

Proper screened interval? Yes, 5 to 24 feet bgs in MW-1

Highest GW depth below ground surface: 4.94' Lowest depth: 5.71 feet bgs in MW-1

Flow direction: NNE at approximately 0.003 ft/ft gradient

Most sensitive current use: Mixed commercial/residential

Are drinking water wells affected? No Aquifer name: Unknown

Is surface water affected? No Nearest affected SW name: NA

Off-site beneficial use impacts (addresses/locations): None

Report(s) on file? YES Where is report(s) filed? Alameda County  
 1131 Harbor Bay Pkwy  
 Alameda, CA 94502

**Treatment and Disposal of Affected Material:**

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment or Disposal w/destination)</u>	<u>Date</u>
Tank	1 UST	Disposed by ECI in Richmond, CA	10/25/99
Soil	30 cubic yd.	Disposed at Vasco Rd L.F., Livermore, CA	10/29/99
Groundwater	4,300 gal.	Disposed by Seaport Environmental, Redwood City	10/26/99

**Maximum Documented Contaminant Concentrations - - Before and After Cleanup**

Contaminant	Soil (ppm)		Water (ppb)	
	Before <sup>1</sup>	After <sup>2</sup>	Before <sup>3</sup>	After <sup>4</sup>
TPH (Gas)	28		2,700	< 50
Benzene	2.2		13	< .5
Toluene	ND		34	< .5
Ethylbenzene	ND		3.4	< .5
Xylenes	ND		16	< .5
MTBE	28		18,000	220
Heavy Metals Pb	11			

- NOTE: 1 Soil sample collected in the vicinity of dispenser at 1.5 feet bgs on 10/25/99. Per lab, TPHg, consisted primarily of MTBE, using EPA Method 5030/8015M/8020.  
 2 No overexcavation  
 3 Maximum grab groundwater concentration from tank pit, 10/25/99, except MTBE, which is from exploratory boring advanced in vicinity of dispenser (using Method 8260), 3/28/00  
 4 most recent groundwater monitoring event, 5/30/01


**IV. CLOSURE**

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? \_\_\_\_\_  
 Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? \_\_\_\_\_  
 Does corrective action protect public health for current land use? **YES**  
 Site management requirements: None  
 Should corrective action be reviewed if land use changes? **YES**  
 Monitoring wells Decommissioned: **None, pending site closure**  
 Number Decommissioned: **0** Number Retained: **3**  
 List enforcement actions taken: **NA**  
 List enforcement actions rescinded: **NA**

**V. LOCAL AGENCY REPRESENTATIVE DATA**

Name: **Eva Chu**

Title: **Haz Mat Specialist**

Signature: 

Date: *1/30/02*

**Reviewed by**

Name: **Don Hwang**

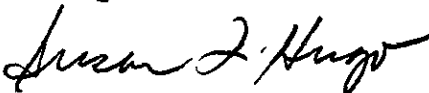
Title: **Haz Mat Specialist**

Signature: 

Date: *1/30/02*

Name: **Susan Hugo**

Title: **Supervisor**

Signature: 

Date: *1/28/02*

**VI. RWQCB NOTIFICATION**

Date Submitted to RB: *1/31/02*

RB Response: *concur*

RWQCB Staff Name: **Chuck Headlee**

Title: **AEG**

Signature: 

Date: *2/11/02*

**VII. ADDITIONAL COMMENTS, DATA, ETC.**

The site was formerly a business that rented and erected scaffolding. The site is occupied by one two-story building used for office and shop space and a second single story building used for warehousing scaffolds.

A 7,500-gallon gasoline UST was installed in 1979 and removed in October 1999. When the UST was removed, it appeared in excellent condition, with no rust or corrosion, and the tar wrapping was intact. During removal of the piping, a mild hydrocarbon odor was detected directly beneath a joint located between the dispenser and the UST.

Soil samples were collected from the tank pit sidewalls at approximately 7 feet bgs. A soil sample was also collected beneath the pipe joint. The soil samples were analyzed for TPHg, BTEX, MTBE, and total lead. Of concern was the detection of 28ppm MTBE beneath the pipe joint. (See Figs 1, 2, and 3)

Groundwater was noted in the tank excavation at approximately 8 feet bgs. Groundwater samples were collected twice, once prior to UST removal, and once after water was pumped from the tank pit and groundwater allowed to recharge. The latter water sample contained up to 1,200ppb MTBE. (See Fig 3)

In March 2000, two soil borings (SB-1 and SB-2) were advanced to further delineate the TPHg and MTBE contamination in soil and groundwater. Soil from boring SB-1 at 3 feet bgs contained 17ppm MTBE (but only 2.8ppm when confirmed with Method 8260) and decreasing to 0.70ppm MTBE at 5 feet bgs. Low to non-detect levels of TPHg and BTEX were in shallow soil. The water sample from boring SB-2 contained 18,000ppb MTBE, using EPA Method 8260. (See Fig 4, Table 1 and 2)

Permanent groundwater monitoring wells (MW-1 through MW-3) were installed in August 2000. Groundwater appears to flow to the north, northeast with a gradient of 0.0038 ft/ft. Only well MW-1 contained analytes sought (110ppb TPHg, 3,300ppb MTBE). After four quarterly groundwater monitoring events, petroleum hydrocarbon concentrations steadily decreased. In May 2001, TPHg and BTEX were not detected above the laboratory detection limits. MTBE was detected at 220ppb. (See Fig 5, Table 3)

No domestic or water supply wells were identified within 1,000 feet of the site. The nearest well was an irrigation well at 1501 163<sup>rd</sup> Avenue, approximately 750 feet cross-gradient of the site. The irrigation well has an 8-inch diameter casing to a depth of 50 feet bgs. It is not known if this is an active well. MTBE in groundwater, however, appears to be naturally attenuating, thus, should not pose a risk to the irrigation well. In addition, MTBE concentration in shallow soil (up to 28ppm) did not exceed the RWQCB's RBSLs when compared with the RWQCB's Vadose-Zone Soil Screening Levels for Protection of Indoor Air Quality (390ppm for fine soils, see Table 4). It appears that residual MTBE in soil and groundwater does not pose a significant risk to human health or the environment.

In summary, case closure is recommended because:

- the leak and ongoing sources have been removed;  
*MTBE identified beneath the dispenser appears to be a one-time release, possibly at the time when the dispenser was removed.*
- the site has been adequately characterized;
- the dissolved hydrocarbon plume is not migrating;
- no preferential pathways exist at the site;
- no water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted;  
*Residual MTBE in groundwater should continue to naturally attenuate.*
- the site presents no significant risk to human health or the environment.



ENVIRONMENTAL  
BIO-SYSTEMS, INC.

REPORT DATE:  
11/3/99

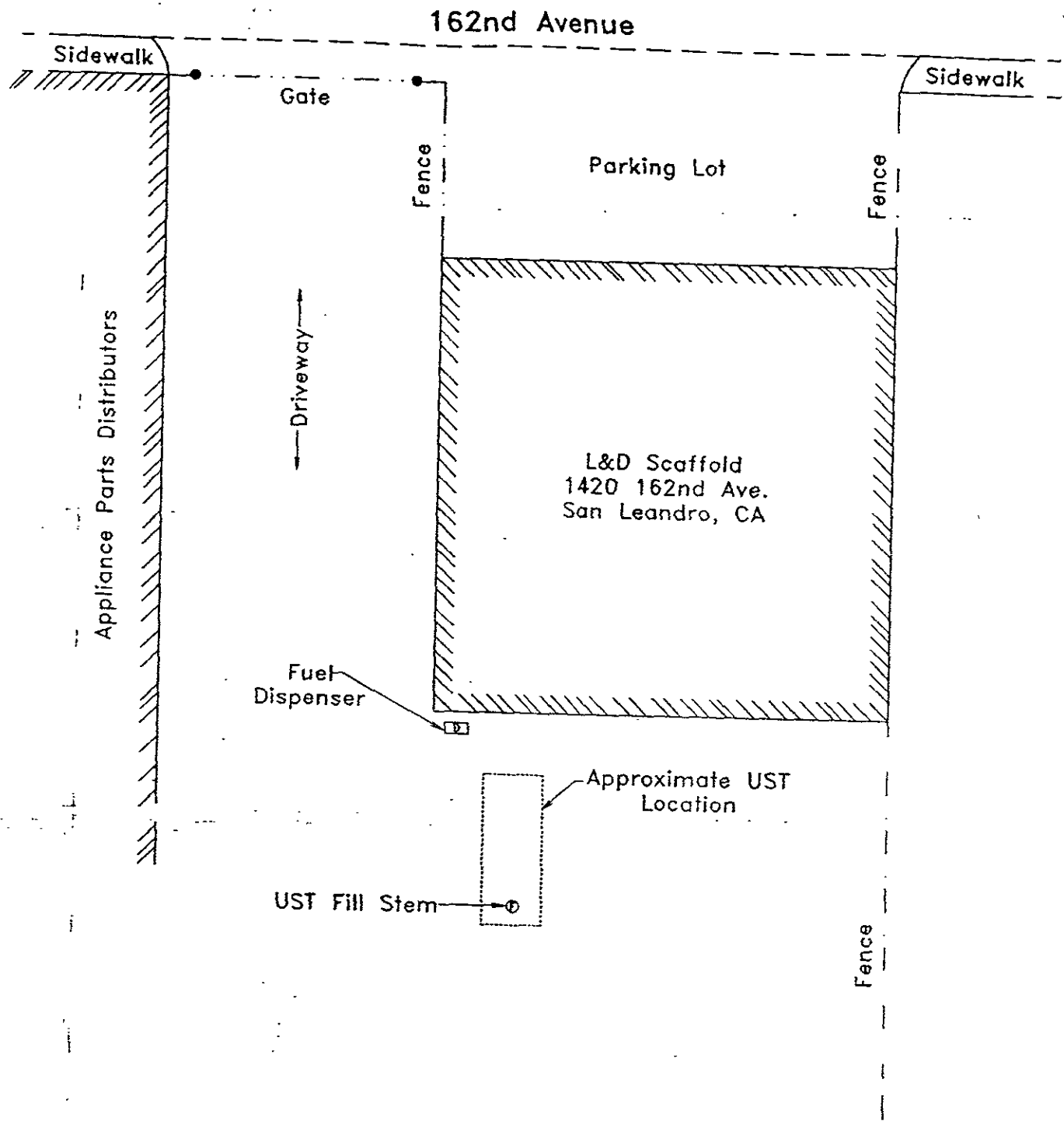
DRAWN BY:  
TMB

SCALE:  
1" = 2,000'

FIGURE 1:  
SITE LOCATION MAP

L&D SCAFFOLD, INC.  
1420 162nd AVENUE  
SAN LEONARD, CA  
EBS PROJECT #158-539A

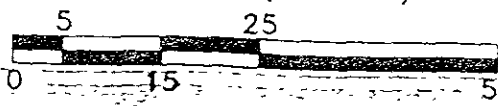
FIGURE 2: SITE MAP



ENVIRONMENTAL  
BIO-SYSTEMS, INC.



SCALE (in feet)



L&D Scaffold, Inc.  
1420 162nd Ave.  
San Leandro, CA  
EBS Project #158-539A  
Report Date: 11/3/99



# FIGURE 3: SAMPLE RESULTS

162nd Avenue

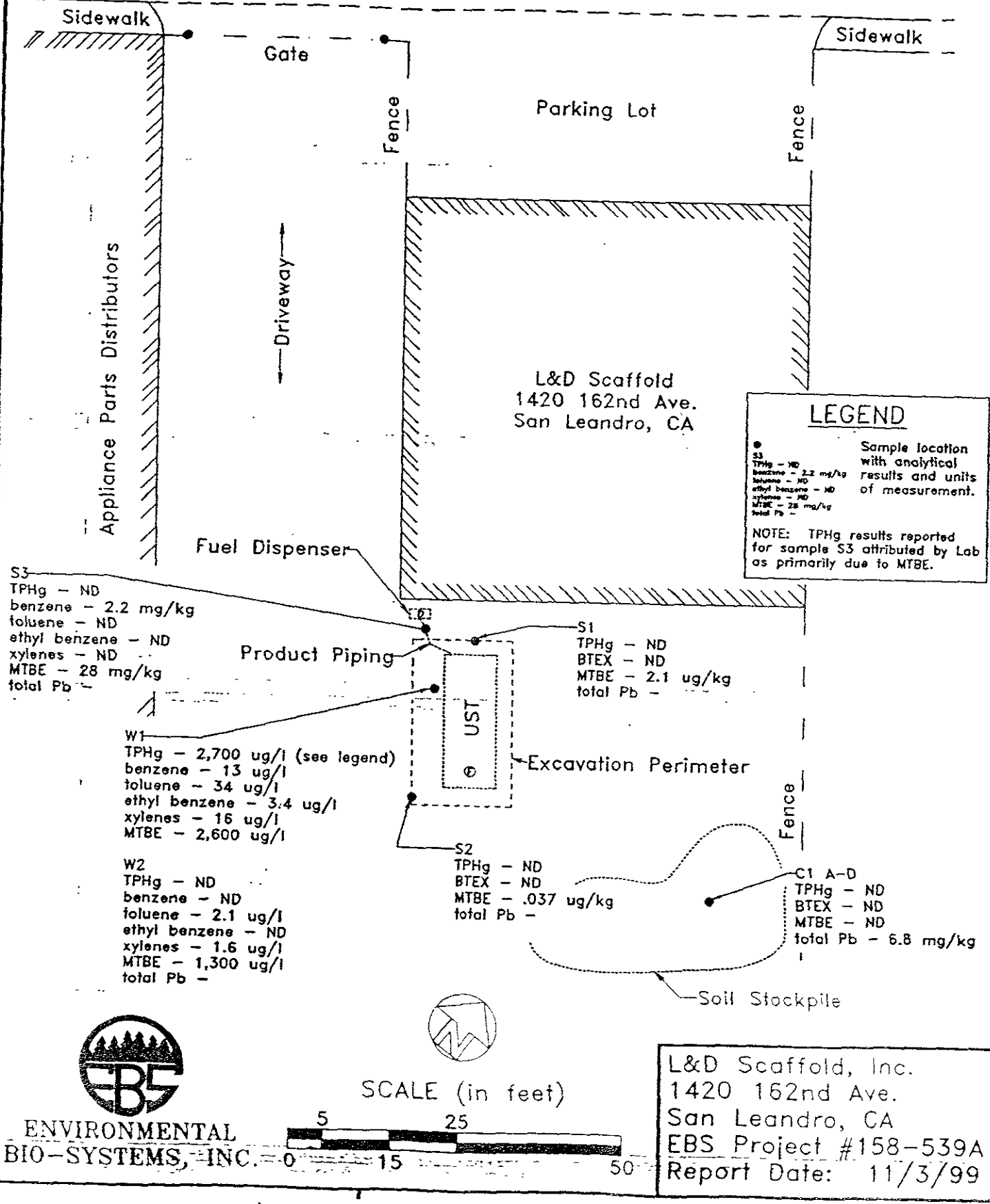
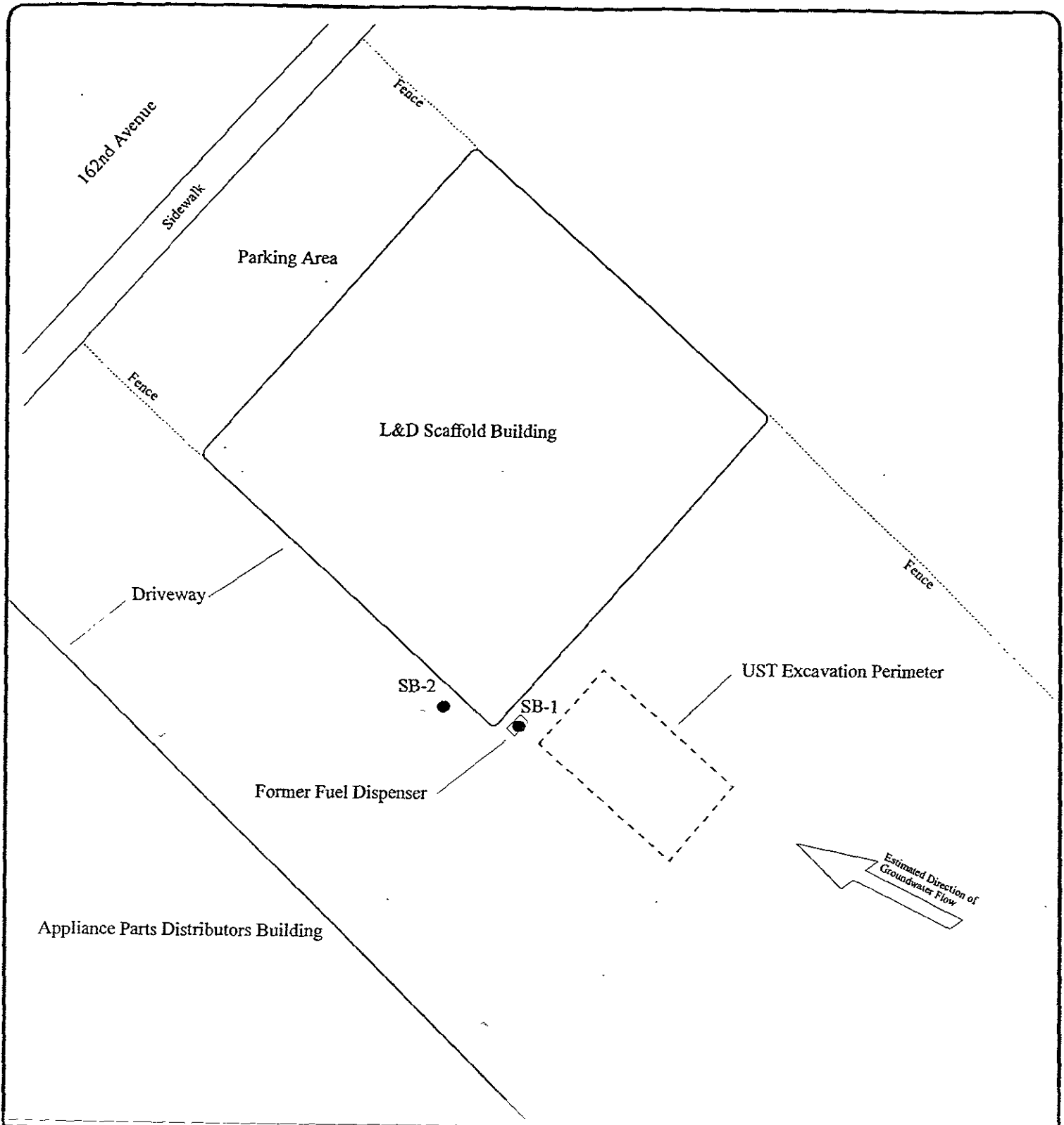


FIG 3



SB-1  
 ● Name and Location of Soil Boring

**Legend**

0 ——— 20  
 Approximate Scale (ft)



**ALLCAL ENVIRONMENTAL**

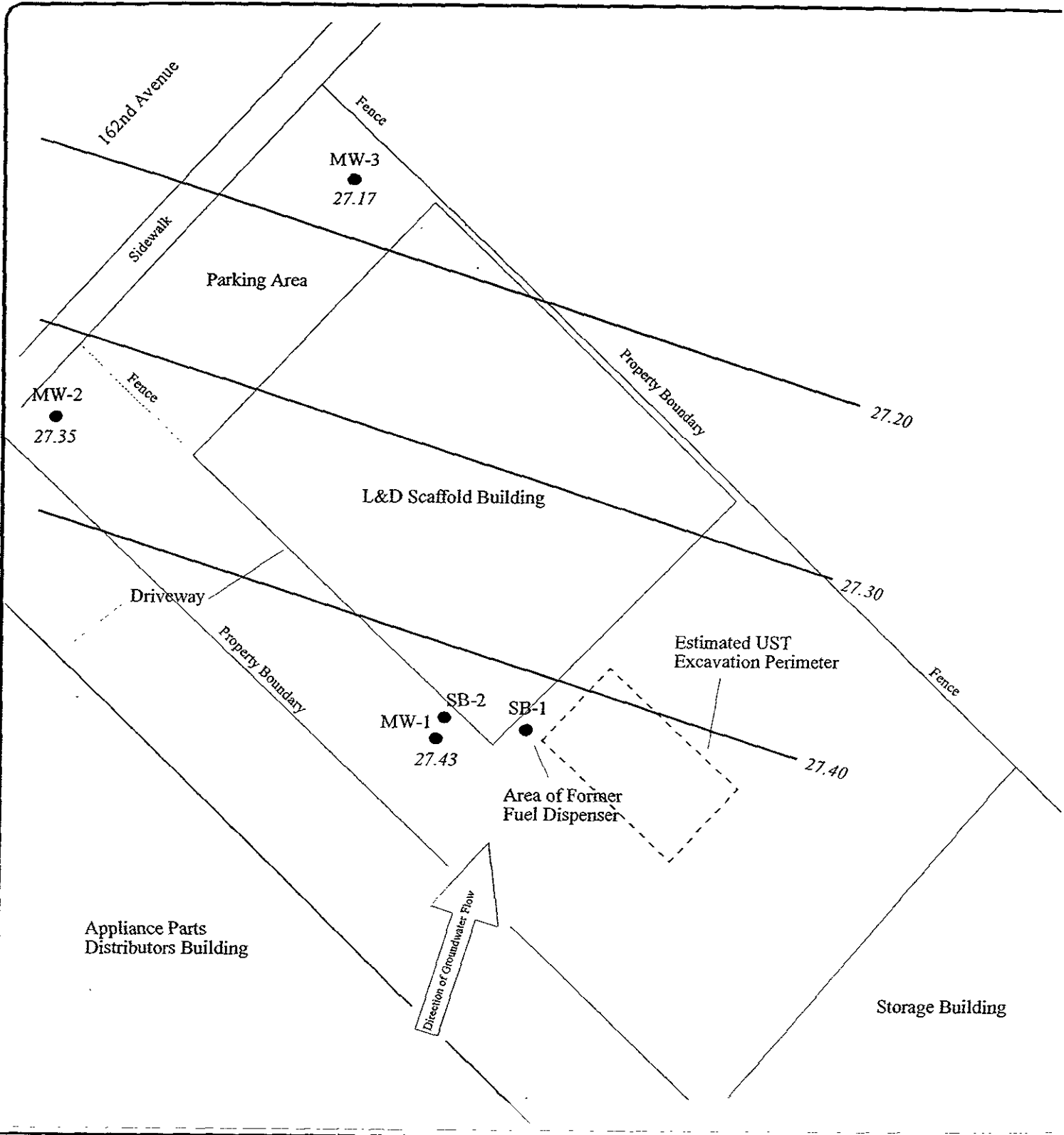
**FIGURE 2  
 SITE PLAN**

L&D SCAFFOLD, INC.  
 1420 162nd AVENUE  
 SAN LEANDRO, CA 94578



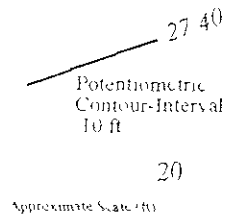






- SB-1  
● Name and Location of Soil Boring
- MW-1  
● Name and Location of Monitoring Well with Groundwater Elevation (MSL)  
27.43

**Legend**



**ALLCAL ENVIRONMENTAL**

**FIGURE 2**

GROUNDWATER GRADIENT MAP-9/6/00  
L&D SCAFFOLD, INC.  
1420 162ND AVENUE  
SAN LUIS ANDRO, CA 94578

TABLE 3

SUMMARY OF GROUNDWATER CHEMICAL ANALYSES  
(ppb)

Well	Date	Depth to Water(ft)	TPHG	MTBE <sup>1</sup>	Benzene	Toluene	Ethyl-benzene	Xylenes	Oxygenated Volatile Organics
MW-1	9/6/00	5.71	110,b	3300	<0.5	<0.5	<0.5	<0.5	NA <sup>2</sup>
	12/6/00	5.70	<50	940	<0.5	<0.5	<0.5	<0.5	1300 for MTBE
	2/28/01	4.94	<50	570	<0.5	<0.5	<0.5	<0.5	NA
	5/30/01	5.64	<50	220	<0.5	<0.5	<0.5	<0.5	NA
MW-2	9/6/00	5.185	<50	<5.0	<0.5	<0.5	<0.5	<0.5	NA
	12/6/00	5.18	<50	<5.0	<0.5	<0.5	<0.5	<0.5	NA
	2/28/01	4.42	<50	6.7	<0.5	<0.5	<0.5	<0.5	NA
	5/30/01	5.12	<50	<5.0	<0.5	<0.5	<0.5	<0.5	ND
MW-3	9/6/00	5.61	<50	<5.0	<0.5	<0.5	<0.5	<0.5	NA
	12/6/00	5.53	<50	<5.0	<0.5	<0.5	<0.5	<0.5	NA
	2/28/01	4.81	<50	<5.0	<0.5	0.5	<0.5	<0.5	NA
	5/30/01	5.49	<50	<5.0	0.5	0.5	<0.5	<0.5	NA

b = The laboratory interprets the TPH chromatogram to indicate that heavier gasoline range compounds are significant (aged gasoline<sup>2</sup>).

<sup>1</sup> - EPA method 8020. <sup>2</sup> NA - Not analyzed.

TABLE E-1. VADOSE-ZONE SOIL SCREENING LEVELS FOR PROTECTION OF INDOOR AIR QUALITY  
(volatile chemicals only)

CHEMICAL	Physical State		Molecular Weight	Henry's Law constant (atm·m <sup>3</sup> /mol)	Residential		Occupational	
					Soil (Coarse Soils)	Soil (Fine Soils)	Soil (Coarse Soils)	Soil (Fine Soils)
					(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
METHOXYCHLOR	NV	S	347	1.58E-05	-	-	-	-
METHYLENE CHLORIDE	V	L	85	2.19E-03	8.9E-01	4.2E+00	3.1E+00	1.8E+01
METHYL ETHYL KETONE	V	L	72	2.70E-05	-	-	-	-
METHYL ISOBUTYL KETONE	V	L	100	1.40E-04	-	-	-	-
METHYL MERCURY	NV	S	216	-	-	-	-	-
METHYLNAPHTHALENE, 2-(1-)	V	S	142	2.90E-04	8.2E+01	1.5E+04	2.8E+02	5.3E+04
METHYL TERT BUTYL ETHER	V	L	98	5.87E-04	2.0E+01	3.9E+02	6.9E+01	1.6E+03
MOLYBDENUM	NV	S	96	-	-	-	-	-
NAPHTHALENE	V	S	128	4.83E-04	1.7E+00	3.1E+02	5.7E+00	1.1E+03
NICKEL (soluble salts)	NV	S	59	-	-	-	-	-
PENTACHLOROPHENOL	NV	S	266	2.80E-06	-	-	-	-
PHENANTHRENE	V	S	178	3.93E-05	-	-	-	-
PHENOL	NV	S	94	1.30E-06	-	-	-	-
POLYCHLORINATED BIPHENYLS (PCBs)	NV	S	327 (ave)	5.20E-04	-	-	-	-
PYRENE	V	S	199	1.10E-05	1.3E+05	>1E+06	4.4E+05	>1E+06
SELENIUM	NV	S	79	-	-	-	-	-
SILVER COMPOUNDS	NV	S	47	-	-	-	-	-
STYRENE	V	L	104	2.80E-03	1.3E+02	1700 sat	1700 sat	1700 sat
TETRACHLOROETHANE, 1,1,1,2-	V	L	168	3.50E-04	-	-	-	-
TETRACHLOROETHANE, 1,1,2,2-	V	L	168	3.50E-04	2.4E-02	2.0E+00	9.3E-02	8.3E+00
TETRACHLOROETHYLENE	V	L	166	1.84E-02	1.5E-01	1.1E+00	5.3E-01	4.8E+00
THALLIUM	NV	S	204	-	-	-	-	-
TOLUENE	V	L	92	6.60E-03	3.0E+01	3.1E+02	8.9E+01	520 sat
TPH (gasolines)	NV	L	-	-	-	-	-	-
TPH (middle distillates)	NV	L	-	-	-	-	-	-
TPH (residual fuels)	NV	L/S	-	-	-	-	-	-

TABLE 4



# EXPLORATORY BORING LOG/ WELL CONSTRUCTION DETAIL

Project Number: 147  
 Project Name: 1420 162nd AVENUE  
 SAN LEANDRO, CALIFORNIA

Boring Number: MW-1  
 Page Number: 1 OF 1

By: ALLCAL ENVIRONMENTAL

Date: 8/28/00

Top of Casing Elevation: 33.14

RECOVERY (ft./ft.)	VAPORS (ppm)	PENETRATION (blows/ft.)	GROUND- WATER LEVEL	DEPTH (ft.)	SAMPLES	SOIL TYPE	DESCRIPTION	WELL DETAIL
						SC	0 - .33 ft. Asphalt	2-inch O.D. PC Blank Casing With Loading Cap Portland Cement No. 2/12 Sand Pack 010-Slotted, 2-inch, O.D., PVC Screen With End Cap
						CL	.33 - 2.0 ft. CLAYEY SAND (SC): red-brown, fine to medium-grained, damp, no odor.	
				5		CL	2.0 - 4.0 ft. CLAY (CL): dark grey to black, sandy, soft to firm, damp, no odor.	
1.5/1.5		4				CL	4.0 - 8.0 ft. CLAY (CL): blue-grey, sandy, soft to firm, damp, no odor.	
			▼	10		SP/ML	8.0 - 9.5 ft. SAND/SILT (SP/ML): grey-green, fine-grained, loose, damp, no odor.	
1.5/1.5		2				SP	9.5 - 11.0 ft. SAND(SP): brown, fine to medium-grained, very loose, saturated, no odor.	
						CL	11.0 - 13.5 ft. CLAY (CL): mottled dark grey and black, medium firm, damp, no odor.	
1.5/1.5		8		15		CL	13.5 - 18.0 ft. CLAY (CL): light grey, trace of fine gravel, medium firm to stiff, damp, no odor.	
				20		SC	18.0 - 24.9 ft. CLAYEY SAND (SC): brown, fine to medium-grained, very loose, saturated, no odor.	
1.5/1.5		2				CL	24.9 - 25.0 ft. CLAY (CL): mottled light brown and rust brown, medium firm, damp, no odor.	
1.5/1.5		3		25		CL		
							Total depth of boring is 25 feet.	
				30			Total depth of well is 24.7 feet.	
				35				

BORING DETAIL Drilled with continuous-flight, 8-inch O.D., hollow-stem auger. Samples collected in a California split-spoon sampler.  
 2-inch O.D. diameter well constructed inside boring.

# EXPLORATORY BORING LOG/ WELL CONSTRUCTION DETAIL

Project Number: 147  
 Project Name: 1420 162nd AVENUE  
 SAN LEANDRO, CALIFORNIA

Boring Number: MW-2  
 Page Number: 1 OF 1

By: ALLCAL ENVIRONMENTAL      Date: 8/28/00      Top of Casing Elevation: 32.53

RECOVERY (ft./ft.)	VAPORS (ppm)	PENETRATION (blows/ft.)	GROUND- WATER LEVEL	DEPTH (ft.)	SAMPLES	SOIL TYPE	DESCRIPTION	WELL DETAIL
						CL	0 - .33 ft. Asphalt	Portland Cement 2-inch O.D. PVC Blank Casing With Loading Cap
						CL	.33 - 2.0 ft. CLAY (CL): red-brown, sandy, soft to firm, damp, no odor.	
1.5/1.5		8		5		CL	2.0 - 8.0 ft. CLAY (CL): blue-grey, very sandy, firm to medium, damp, no odor.  @ 5 - 6.5 ft. grey-green.	Ber- tonite
1.5/1.5		12	▼	10		SC	8.0 - 10.0 ft. CLAYEY SAND (SC): brown, medium to fine-grained, moist, no odor.	
1.5/1.5		12		15		CL	10.0 - 13.5 ft. CLAY (CL): dark grey to black, stiff, damp, no odor. @ 12 - 14 ft., saturated zone, unknown lithology.	No. 2/12 Sand Pack 2-inch O.D. Slotted, 2-inch, O.D., PVC Screen With Eric Cap
---		---		20		SC	13.5 - 18.5 ft. CLAY (CL): mottled grey and white, stiff, sandy, trace of gravel to .25 inch diameter, damp, no odor.	
---		---		25		SC	18.5 - 26.0 ft. CLAYEY SAND (SC): light brown, fine to medium-grained, loose, interlayered with above clay, gravelly seams, saturated, no odor.	
				30			Total depth of boring is 26 feet.  Total depth of well is 24 feet.	
				35				

BORING DETAIL Drilled with continuous-flight, 8-inch O.D., hollow-stem auger. Samples collected in a California split-spoon sampler.  
  
2-inch O.D. diameter well constructed inside boring.

# EXPLORATORY BORING LOG/ WELL CONSTRUCTION DETAIL

Project Number: 147  
 Project Name: 1420 162nd AVENUE  
 SAN LEANDRO, CALIFORNIA

Boring Number: MW-3  
 Page Number: 1 OF 1

By: ALLCAL ENVIRONMENTAL      Date: 8/28/00      Top of Casing Elevation: 32.78

RECOVERY (ft./ft.)	VAPORS (ppm)	PENETRATION (blows/ft.)	GROUND- WATER LEVEL	DEPTH (ft.)	SAMPLES	SOIL TYPE	DESCRIPTION	WELL DETAIL
						SP	0 - .33 ft. Asphalt	Lock Nut Box Portland Cement 2-inch O.D. PVC Blank Casing With Locking Cap
							.33 - 2.0 ft. SAND (SP): red-brown, fine to medium-grained, damp, no odor.	
1.0/1.5		8		5		CL	2.0 - 12.0 ft. CLAY (CL): dark grey, sandy, stiff, damp, no odor.  @ 5 - 6.5 ft., sandy layers.	Bentonite No. 2/12 Sand Pack 0-10-Slotted, 2-inch, O.D., PVC Screen With End Cap
			▼	10			@ 12 ft., Saturated. Lithology unknown.	
1.5/1.5		7		12		CL	12.0 - 14.5 ft. CLAY (CL): mottled dark and light grey, stiff, sandy, damp, no odor.	
1.5/1.5		8		15		CL	14.5 - 16.0 ft. CLAY (CL): dark grey to black, stiff, sandy, damp, no odor.	
				16		CL	16.0 - 18.5 ft. CLAY (CL): light grey, stiff, sandy, damp, no odor.	
1.5/1.5		4		20		CL	18.5 - 22.5 ft. CLAY (CL): brown, sandy, firm, damp, no odor.	
1.0/1.0		7		25		SP	22.5 - 24.5 ft. SAND (SP): brown, fine to medium-grained, saturated, no odor.	
				25		CL	24.5 - 25.0 ft. CLAY (CL): brown, firm, sandy, damp, no odor.	
				30			Total depth of boring and well is 25.3 feet.	
				35				

BORING DETAIL Drilled with continuous-flight, 8-inch O.D. hollow-stem auger. Samples collected in a California split-spoon sampler.

2-inch O.D. diameter well constructed inside boring.

# EXPLORATORY BORING LOG

Project Number: 147

Boring Number: SB-1

Project Name: L&D Scaffold, Inc.  
1420 162nd Avenue  
San Leandro, CA

Page Number: 1 of 1

By: ALLCAL ENVIRONMENTAL

Date: 3/28/00

Surface Elevation: NA

RECOVERY (in/in.)	VAPORS (ppm)	PENETRATION (blows/ft.)	GROUND-WATER LEVEL	DEPTH (ft.)	SAMPLES ANALYZED	SOIL TYPE	DESCRIPTION
						CL	0 - .5 FT.: AGGREGATE BASE MATERIAL
36/48						CL	.5 - 1.0 FT.: CLAY (CL), BROWN, SILTY, FIRM, DAMP, NO ODOR.
				5		CL	1.0 - 3.5 FT.: CLAY (CL), BLACK, SILTY, SOFT TO FIRM, DAMP, NO ODOR.
						ML	3.5 - 4.5 FT.: CLAY (CL), GREY, VERY SILTY, SOFT, DAMP, NO ODOR.
48/48						CL	4.5 - 6.0 FT.: SILT (ML), GREY, VERY CLAYEY, DAMP TO WET, NO ODOR.
						CL	6.0 - 6.5 FT.: CLAY (CL), GREY, SILTY, SOFT TO FIRM, DAMP, NO ODOR.
						CL	6.5 - 9.0 FT.: CLAY (CL), BROWN, SILTY, FIRM, DAMP, NO ODOR.
30/30				10		CL	9.0 - 10.0 FT.: CLAY (CL), GREY, SILTY, HARD, MOIST TO WET, NO ODOR.
						ML	10.0 - 10.5 FT.: SILT (ML), MOTTLED GREY AND BROWN, VERY CLAYEY, DAMP, NO ODOR.
				15			CONTINUOUSLY CORED TO 10.5 FT.

Remarks: BORING CONTINUOUSLY CORED WITH 2.0 - INCH O. D. DIRECT-PUSH, GEOPROBE SYSTEM. SAMPLES COLLECTED IN 1.75 - BY 48 - INCH PETG LINER. BORING SEALED TO GROUND SURFACE WITH PORTLAND TYPE II CEMENT SLURRY.

# EXPLORATORY BORING LOG

Project Number: 147

Boring Number: SB-2

Project Name: L&D Scaffold, Inc.  
1420 162nd Avenue  
San Leandro, CA

Page Number: 1 of 1

By: ALLCAL ENVIRONMENTAL

Date: 3/28/00

Surface Elevation: NA

RECOVERY (in/in.)	VAPORS (ppm)	PENETRATION (blows/ft.)	GROUND- WATER LEVEL	DEPTH (ft.)	SAMPLES ANALYZED	SOIL TYPE	DESCRIPTION
							0 - .17 FT.: ASPHALT
48/48						CL	.17 - 4.0 FT.: CLAY (CL), BLACK, SILTY, FIRM, ROOTLETS, DAMP, NO ODOR.
				5		CL	4.0 - 5.5 FT.: CLAY (CL), GREY, VERY SILTY, FIRM, DAMP, NO ODOR.
48/48						SP CL SP	5.5 - 5.8 FT.: SAND (SP), GREY, FINE TO MEDIUM-GRAINED, SILTY, DAMP, NO ODOR.
						CL	5.8 - 6.2 FT.: CLAY (CL), GREY, VERY SILTY, FIRM, DAMP, NO ODOR.
							6.2 - 6.8 FT.: SAND (SP), GREY, CLAYEY, FINE-GRAINED, DAMP, NO ODOR.
48/48				10		ML	6.8 - 9.0 FT.: CLAY (CL), MOTTLED BROWN AND GREY, SILTY, FIRM, DAMP, NO ODOR.
						SP	9.0 - 10.0 FT.: SILT (ML), BROWN, VERY CLAYEY, DAMP, NO ODOR.
						CL	10.0 - 11.0 FT.: SAND (SP), BROWN, FINE TO MEDIUM-GRAINED, CLAYEY, MOIST, NO ODOR.
0/24						?	11.0 - 12.0 FT.: CLAY (CL), DARK BROWN TO BLACK, SILTY, FIRM, SATURATED @ 12 FT., NO ODOR.
				15			12.0 - 14.0 FT.: NO RECOVERY.
							CONTINUOUSLY CORED TO 14 FT.

Remarks: BORING CONTINUOUSLY CORED WITH 2 0 - INCH O. D., DIRECT-PUSH, GEOPROBE SYSTEM. SAMPLES COLLECTED IN 1 75 - BY 48 - INCH PETG LINER. BORING SEALED TO GROUND SURFACE WITH PORTLAND TYPE II CEMENT SLURRY.