



DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6777

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 3768 - 1453 1st Street, Livermore, CA 94550

December 4, 1995

Mr. Paul Larsen
1234 Depaul Wy
Livermore, CA 94550

Mr. Dennis Healy
74-075 El Paseo Ave
Palm Desert, CA 92261-3366

Ms. Teresa Jensen
Bay Bank of Commerce
1500 Washington Ave
San Leandro, CA 94577-0095

Dear Messrs Larsen and Healy, and Ms. Jensen:

This letter confirms the completion of site investigation and remedial action for the former underground storage tank (500 gallon waste oil tank) removed from the above site on April 26, 1990. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations. Please contact Ms. Eva Chu at (510) 567-6700 if you have any questions regarding this matter.

Very truly yours,

Jun Makishima, Interim Director

cc: Chief, Division of Environmental Protection
Kevin Graves, RWQCB
Mike Harper, SWRCB (with attachment)
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FORM 100-1001

95 SEP 11 11 07

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: August 18, 1995

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Pkwy**
City/State/Zip: **Alameda, CA 94502** Phone: **(510) 567-6700**
Responsible staff person: **Eva Chu** Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: **Gerald McPeak**
Site facility address: **1453 1st Street, Livermore 94550**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **3768**
URF filing date: **3/6/90** SWEEPS No: **N/A**

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
1. Paul Larsen	1234 Depaul Wy, Livermore 94550	
2. Dennis Healy	74-075 El Paseo Ave, Palm Desert 92261-3366	
3. Bay Bank of Commerce	1500 Washington Ave, San Leandro 94577-0095	

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	500	Waste Oil	Removed	4/26/90

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Unknown, however several small corrosion holes toward the top of tank.**

Site characterization complete? **YES**
Date approved by oversight agency: **3/20/95**
Monitoring Wells installed? **Yes** Number: **1**
Proper screened interval? **Adequate, 28.5 to 48.5'**
Highest GW depth below ground surface: **22.08'** Lowest depth: **>48.5'**
Flow direction: **NW**
Most sensitive current use: **Drinking water**
Are drinking water wells affected? **No** Aquifer name: **Mocho Subbasin**
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	Erickson, Richmond	4/26/90
Piping			
Free Product	405 gal rinsate	Evergreen, Newark	4/26/90
Soil	93 tons	Vasco Rd L.F. Livermore	10/13/90
Groundwater			

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before</u>	<u>After</u>	<u>Before</u>	<u>After</u>
TPH (Gas)	23	ND	ND	ND
TPH (Diesel)	458	ND	50	ND
Benzene	ND	NA ²	ND	ND
Toluene	.24	NA	ND	ND
Ethylbenzene	.11	NA	ND	ND
Xylenes	.48	NA	ND	ND
Oil & Grease	9,450	2,150 ¹	5,800	ND
Heavy metals	Total Pb	193	ND	
	Cr	231 ³	ND	
Other	Cl-HC (8240)	ND		

NOTE: 1 From well boring at 5' bgs
 2 NA = Not Analyzed
 3 From 25' bgs in well boring

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

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? **YES**
 Site management requirements: **None**
 Should corrective action be retained if land use changes? **YES**
 Monitoring wells Decommissioned: **None, pending site closure**
 Number Decommissioned: 0 Number Retained: 1
 List enforcement actions taken: **NOV issued 8/23/94**
 List enforcement actions rescinded: **NOV, in compliance**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature: *Eva Chu* Date: 8/18/95

Reviewed by

Name: Juliet Shin Title: Sr. Haz Mat Specialist

Signature: *Juliet Shin* Date: 8/18/95

Name: Amy Leech Title: Haz Mat Specialist

Signature: *Amy Leech* Date: 08/18/95

VI. RWQCB NOTIFICATION

Date Submitted to RB: 8/21/95 RB Response: *Approved*

RWQCB Staff Name: Kevin Graves Title: AWRCE

Signature: *Kevin Graves* Date: 9/5/95

VII. ADDITIONAL COMMENTS, DATA, ETC.

When a 500 gallon waste oil tank was removed on April 26, 1990, a soil sample collected from beneath the UST exhibited up to 458 ppm TPH-D, 9,450 ppm TOG, and 193 ppm total lead. Other constituents sought (TPH-G, BTEX, Cd, Cr, Zn) were found at low to non-detectable levels.

Trenches were dug to delineate the vertical and lateral extent of soil contamination. Contaminated soil was overexcavated and confirmatory soil samples did not detect TPH-G or TPH-D, but left in place up to 105 ppm TOG at 9 to 10' depth. No analysis for BTEX was performed after overexcavation.

In July 1990, a monitoring well was installed northwest of the tank pit (general flow direction in this part of Livermore). Soil collected at 5' interval detected 2,150, 440, and 300 ppm TOG at 4', 40', and 45', respectively. Chromium was detected at 90.9 ppm at 35' depth (>10x STLC). A WET test was not conducted. However, the initial groundwater sample collected on 7/13/90 exhibited 0.91 ppm TOG and did not detect TPH-G, TPH-D, BTEX, or Cd, Cr, Pb, Zn.

The well has been sampled intermittently from April 1991 thru June 1994. The well was dry from Aug to October 1991. Quarterly sampling resumed in June 1994. Analytical results have not detected TPH-G, BTEX, Cd, Cr, Pb, or Ni. Low levels of TPH-D (50 ppb) and 5.8 ppm TOG have been detected. On October 25, 1994 the groundwater sample exhibited 1,500 ppb TPH-D. This may be an anomalous result, as TPH-D was not detected in the Feb 1995 sampling event.

Groundwater has risen above the screened interval since February 1995. However, any significant contamination should still have been detected. Residual hydrocarbons in soil does not appear to have significantly impacted groundwater quality beneath the site. Continued sampling is not warranted.

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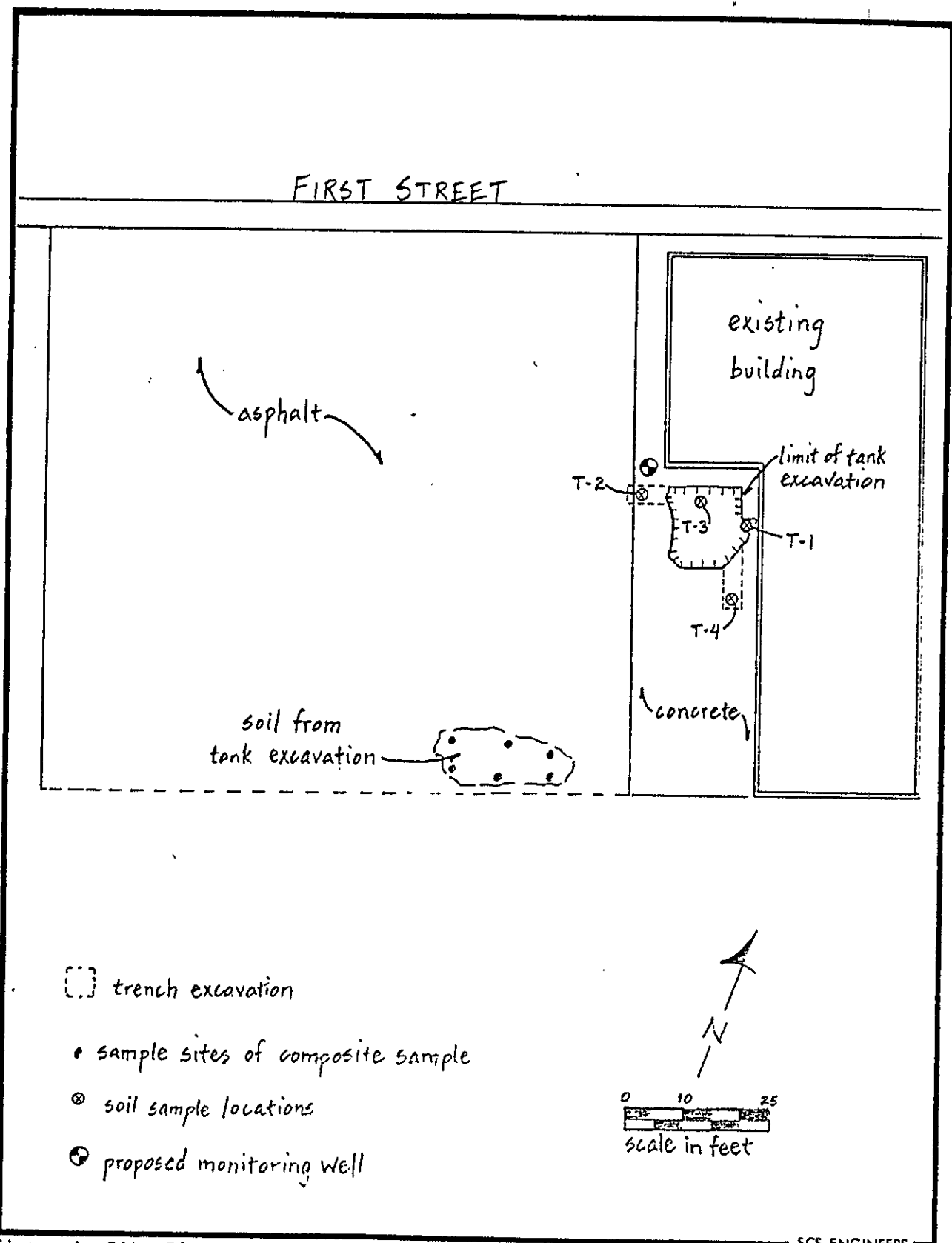


Figure 1. Site Plan - 1453 First Street, Livermore, California

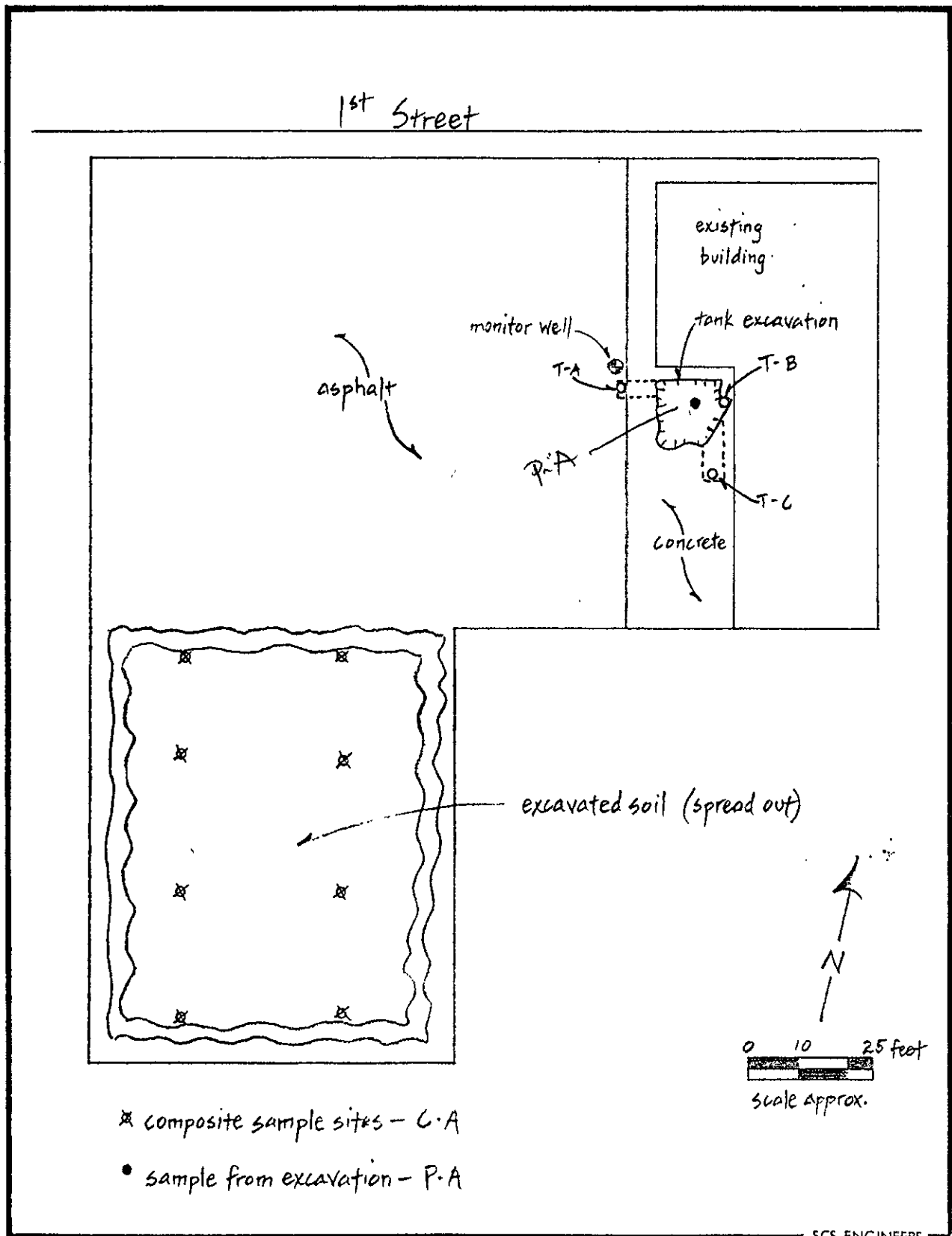


Figure 2. Sample locations, July, 1990 - 1453 First St., Livermore, California

TABLE 1. RESULTS OF SOIL SAMPLE ANALYSES FROM EXCAVATION

<u>sample</u>	<u>8015G</u> (gasoline)	<u>8015D</u> (diesel)	<u>8020</u> (BTEX)	<u>418.1</u> (oil & grease)
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(---- ppm ----)

SAMPLE DATE: June 5, 1990

T-1 (10')	ND	ND	--	--
T-2 (10')	ND	ND	--	--
T-3 (11')	ND	ND	--	--
T-4 (11')	ND	ND	--	--
C-1	ND	ND	--	--

SAMPLE DATE: July 13, 1990

C-A	ND	ND	--	483
P-A (7')	--	--	--	1070

SAMPLE DATE: July 23, 1990

T-A (8.5')	--	--	--	64
T-B (9')	--	--	--	105
T-C (10')	--	--	--	97

SAMPLE DATE: August 15, 1990

PC1 (10')	--	--	--	ND
PC2 (15')	--	--	--	16

BTEX = benzene, toluene, ethylbenzene, xylene

T = trench

C = composite from soil stockpiled on-site

P = excavation

TABLE 2. RESULTS OF SOIL SAMPLE ANALYSES FROM MONITOR WELL

SAMPLE DATE: July 27, 1990

<u>sample</u>	<u>8015G</u> (gasoline)	<u>8015D</u> (diesel)	<u>8020</u> (BTEX)	<u>503D</u> (oil & grease)	<u>Cd</u>	<u>Cr</u>	<u>Pb</u>	<u>Zn</u>
(---- ppm ----)								
S-1 (5')	ND	ND	ND	2150	ND	71.5	ND	88
S-2 (10')	ND	ND	ND	73	ND	54.6	ND	43
S-3 (15')	ND	ND	ND	ND	ND	57.1	ND	39
S-4 (20')	ND	ND	ND	106	ND	56.2	ND	58
S-5 (25')	ND	ND	ND	113	4.1	231	ND	39
S-6 (30')	ND	ND	ND	20	ND	71.6	ND	46
S-7 (35')	ND	ND	ND	93	ND	90.9	ND	47
S-8 (40')	ND	ND	ND	440	ND	53.1	ND	40
S-9 (45')	ND	ND	ND	300	ND	58.1	ND	42

NOTE: Static water depth in the monitor well is 31.5 feet

TABLE 1 - SUMMARY OF GROUNDWATER SAMPLING AND ANALYTICAL RESULTS
1453 First Street
Livermore, California

Date	Depth to Water(ft)	TPH-G (ug/L)	TPH-D (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	TOG (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Nickel (mg/L)	Zinc (mg/L)
4/17/91	25.82	ND	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.19
6/27/93	29.42	ND	ND	ND	ND	ND	ND	5.8	ND	ND	ND	ND	ND
6/27/94	30.68	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	ND
10/25/94	30.92	ND	1,500	ND	ND	ND	ND	0.6	NA	NA	NA	NA	NA
2/14/95	22.08	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA

Note: Data from 4/17/91 through 10/25/94 adopted from "Quarterly Groundwater Monitoring Well Sampling Report" BT Associates

Depth to water level measured from top of well casing in feet

NA - Not Analyzed

ND - Not Detected

ug/L - Microgram per liter (parts per billion)

mg/L - Milligram per liter (parts per million)

TPH-G - Total Petroleum Hydrocarbon as Gasoline (EPA method 8015 modified - Detection limit: 50 ug/L)

TPH-D - Total Petroleum Hydrocarbon as Diesel (EPA method 8015 modified - Detection limit: 50 ug/L)

TOG - Total Oil and Grease (EPA method 5520 - Detection limit: 5 mg/L)

Benzene, Toluene, Ethylbenzene, Total Xylenes (EPA method 8020 - Detection limit: 0.5 ug/L)