



DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6700

May 12, 1995
STID 3640

REMEDIAL ACTION COMPLETION CERTIFICATION

Ralph W., David A. & Ralyne Robb
277-27th St.
Oakland CA 94612

RE: Oakland Acura, 255-27th St, Oakland CA 94612

Dear Mr., Mr., and Mrs. Robb,

This letter confirms the completion of site investigation and remedial action for the former 100-gallon underground waste oil storage tank at the above referenced site.

Based on the available information 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.

If you have any questions regarding this letter, please contact Jennifer Eberle at (510) 567-6700, ext. 6761.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Rafat A. Shahid' with a checkmark at the end.

Rafat A. Shahid, Director

cc: Bill Raynolds, Acting Chief, Environmental Protection Division/file
Kevin Graves, RWQCB
Mike Harper, SWRCB (with attachment)
Dennis Miller, Miller Engineering, 170-F Alamo Plaza, Suite 309, Alamo CA 94507
Jennifer Eberle

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: 1/30/95

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

II. CASE INFORMATION

Site facility name: **Oakland Acura**
Site facility address: **255-27th St., Oakland CA 94612**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **3640**
URF filing date: **3/22/89** SWEEPS No: **N/A**

Responsible Parties: Addresses: Phone Numbers:
Ralph W. & David A. & Ralyne Robb, 277-27th St., Oakland CA 94612

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	100	waste oil	removed	3/16/89

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: unknown

Site characterization complete? YES
Date approved by oversight agency:

Monitoring Wells installed? YES Number: 3

Proper screened interval? YES

Highest GW depth below ground surface: 3.7'bgs Lowest depth: 5.1'bgs

Flow direction: S to SW consistently

Most sensitive current use: auto dealership currently

Are drinking water wells affected? NO Aquifer name:

Is surface water affected? This was a concern, due to the culvert contamination, but since the culvert was remediated, this is no longer a concern. The culvert probably drains to Lake Merritt.
Nearest affected SW name:

Off-site beneficial use impacts (addresses/locations):

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

Leaking Underground Fuel Storage Tank Program

List enforcement actions taken: none

List enforcement actions rescinded:

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Jennifer Eberle Title: Hazardous Materials Specialist
Signature: *J Eberle* Date: 2-7-95

Reviewed by
Name: Amy Leech Title: Hazardous Materials Specialist
Signature: *A Leech* Date: 2/7/95

Name: Eva Chu Title: Hazardous Materials Specialist
Signature: *E Chu* Date: 2/7/95

VI. RWQCB NOTIFICATION

Date Submitted to RWQCB: 2-7-95 RB Response: *Approved*
RWQCB Staff Name: Kevin Graves Title: AWRCE
Signature: *K Graves* Date: 2/16/95

VII. ADDITIONAL COMMENTS, DATA, ETC.

On 3/16/89, a 100-gal waste oil tank was removed (see attached map). One soil sample was collected from a clay layer in sidewall just above the water table. There was ND TPHd, ND benzene, some TEX, and ND O&G (See Sect. III). During tank removal, approx 5 gal sludge poured out of tank into the pit, thus contaminating the gw. A pit water sample was collected, avoiding the obvious oil contamination. In addition, 2 water samples were collected from water which appeared contaminated (as per AlCo's Gil Wistar), from an interior trench or culvert where construction was being conducted. The culvert water sample had 17,000 ppb O&G, <80 ppb TPH-d, 1.7 ppb benzene, .93 ppb toluene, 8 ppb xylene, and 72 ppb ethylbenzene. This culvert was reported to be abandoned during widening of the 27th St. corridor in 1947. However, IT Environmental reported that "new fluid entered the culvert, suggesting that the culvert is not abandoned as per the records of the City of Oakland Public Works data obtained 19 March 1989." (see the 5/30/89 Preliminary Report by IT Environmental, p.II-2)

Further culvert sampling was conducted by IT Environmental. Nine soil samples were collected along the length of the trench (see attached map). Results indicated significant contamination of Oil and Grease by SM 503D (up to 17,255 mg/kg), TPH-d by 8015 (up to 4,490 mg/kg), and heavy metals: lead (up to 1,530 mg/kg) and copper (up to 300 mg/kg). See attached table.

Leaking Underground Fuel Storage Tank Program

Both the UST pit (3 samples) and the culvert (5 samples) were subsequently overexcavated. Confirmatory results were ND for TPHg, TPHd, BTEX, and <10X the STLCs for lead and copper. In addition, the UST pit was ND for O&G by SM503D and ND for HVOCs. Thus, it appeared that all the contaminated soil was removed from both the UST pit and the culvert.

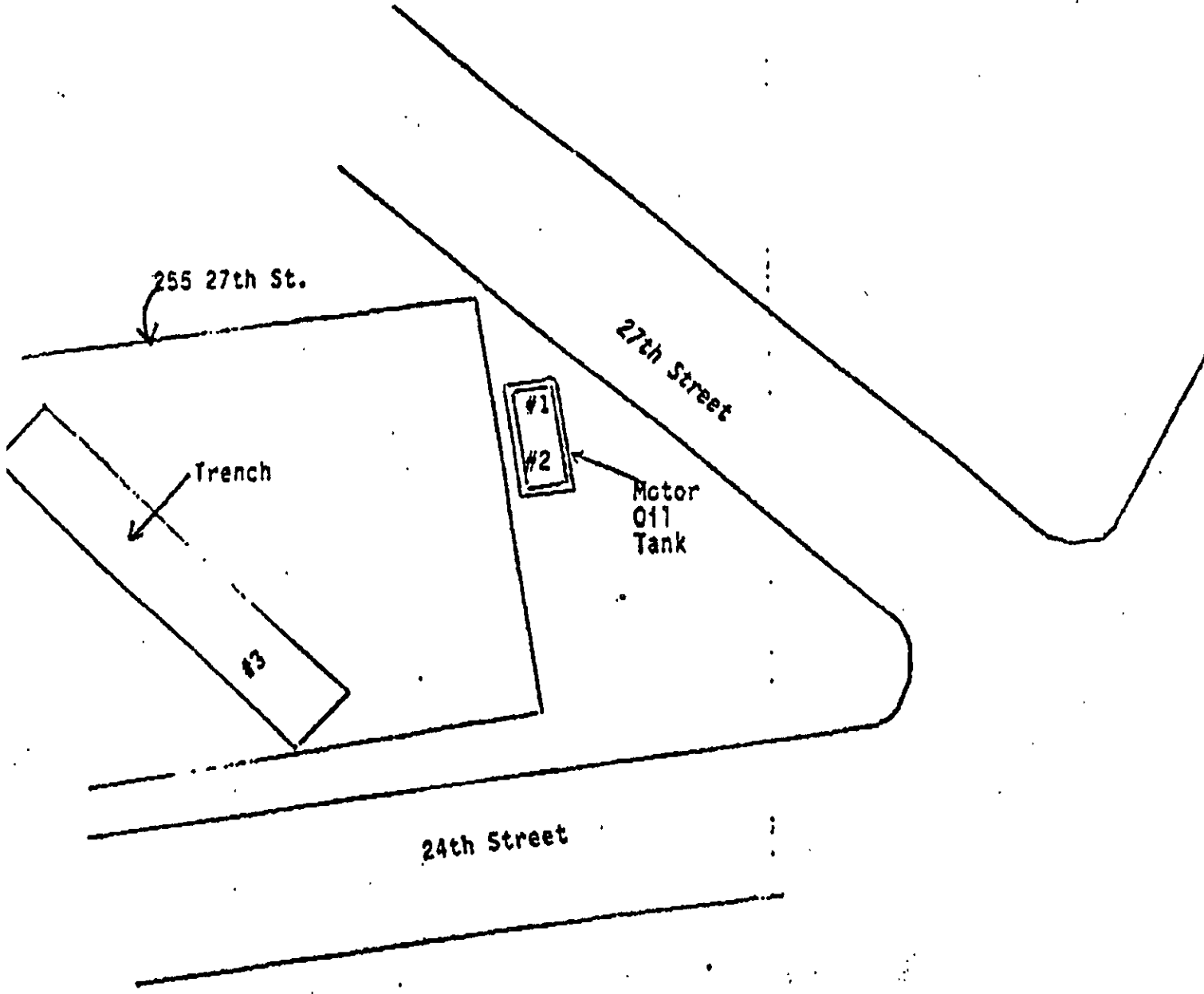
Gil Wistar (AlCo) investigated upstream businesses but could find no evidence of illegal disposal of waste oil, antifreeze, acids, or other haz mats. The culvert's pollution was therefore considered a mystery, although it may have been due to the accumulation of small discharges from the many auto-related businesses over the years in this area.

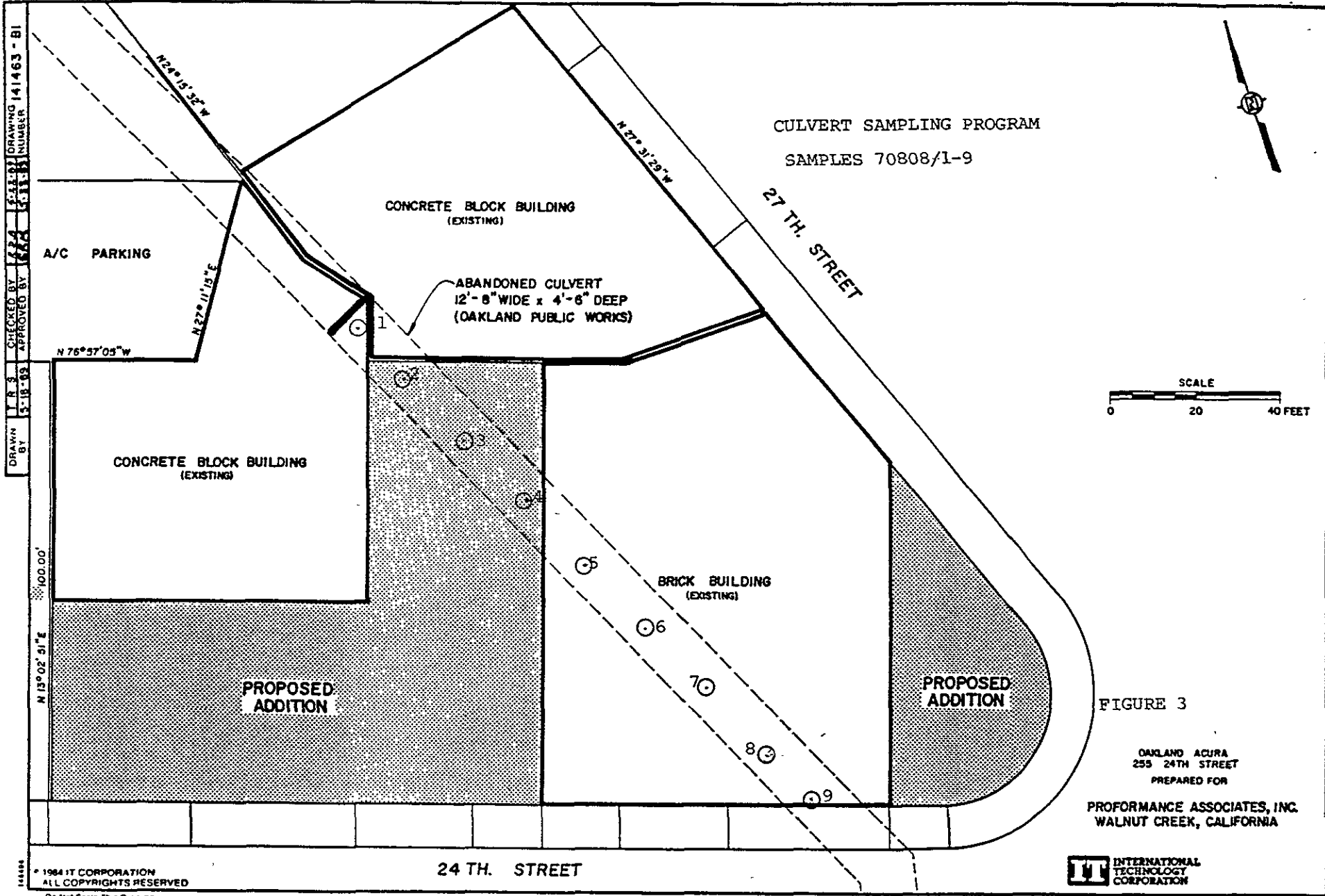
Three MWs were installed on 6/2/89. The wells were screened within a clay layer; water sample recovery was poor. Soil samples from the boreholes revealed ND for ALL constituents analyzed: TPHg, TPHd, BTEX, HVOCs. See attached map and table.

GW has been sampled for 17 rounds, beginning in 10/89. See attached tables. OW-3 has been the "problem well." For the past 8 sampling events, OW-3 has had ND for BTEX and TPHg, except for 2 hits of benzene, which were both below the MCL of 1.0 ppb. TPH-d has been detected, but at fairly low concentrations (ND to 760 ppb). Note that the field blank has a hit of 220 ppb during the 9/13/93 event, when OW-3 had a hit of 760 ppb TPH-d. Besides the hit of 760 ppb TPHd, the highest conc was 350 ppb. O&G has also been detected recently, although was ND for the past 2 events. The hit of 48,000 ppb O&G on 3/12/93 was via method 418.1. This gravimetric method could report false positives, especially considering the clays and other naturally occurring polar fats and oils associated w/the organic matter surrounding OW-3 (see attached boring log). In addition, O&G was analyzed via method 5520B (total O&G) on 9/13/93, when 8,300 ppb was detected.

The sporadic and trace concs of diesel, the sporadic concs of O&G, the absence of volatile hydrocarbons in the gw samples, and the fact that the DG well OW-2 was ND for all constituents analyzed for the past 5 consecutive quarters, suggests that the beneficial uses of gw have not been significantly affected.

Oakland Acura
255 27th Street
Oakland, CA





DRAWN BY: T. R. J. 5-18-89
 CHECKED BY: J. J. J. 5-18-89
 APPROVED BY: J. J. J. 5-18-89
 DRAWING NUMBER: 141463 - BI

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initial culvert soil (+ water) samples
 4-28-89 (pre-excitation)

<u>Sample #</u>	<u>Lead</u>	<u>Copper</u>	mod 8015 <u>TPH (diesel)</u>	SM 503 D <u>Oil and Grease</u>
1	680	110	70	450
2			75	925
3			<10	1410
4			320	930
5			900	630
6	1120	300	1820	15610
7			4220	1410
8			4490	5740
9	1530	240	N/A	17255
Water			<0.08	17

Locations of the sampling by IT Environmental Services are enclosed as Figure 3. The contents of the culvert exceeded metals contaminations limits categorized as hazardous waste.

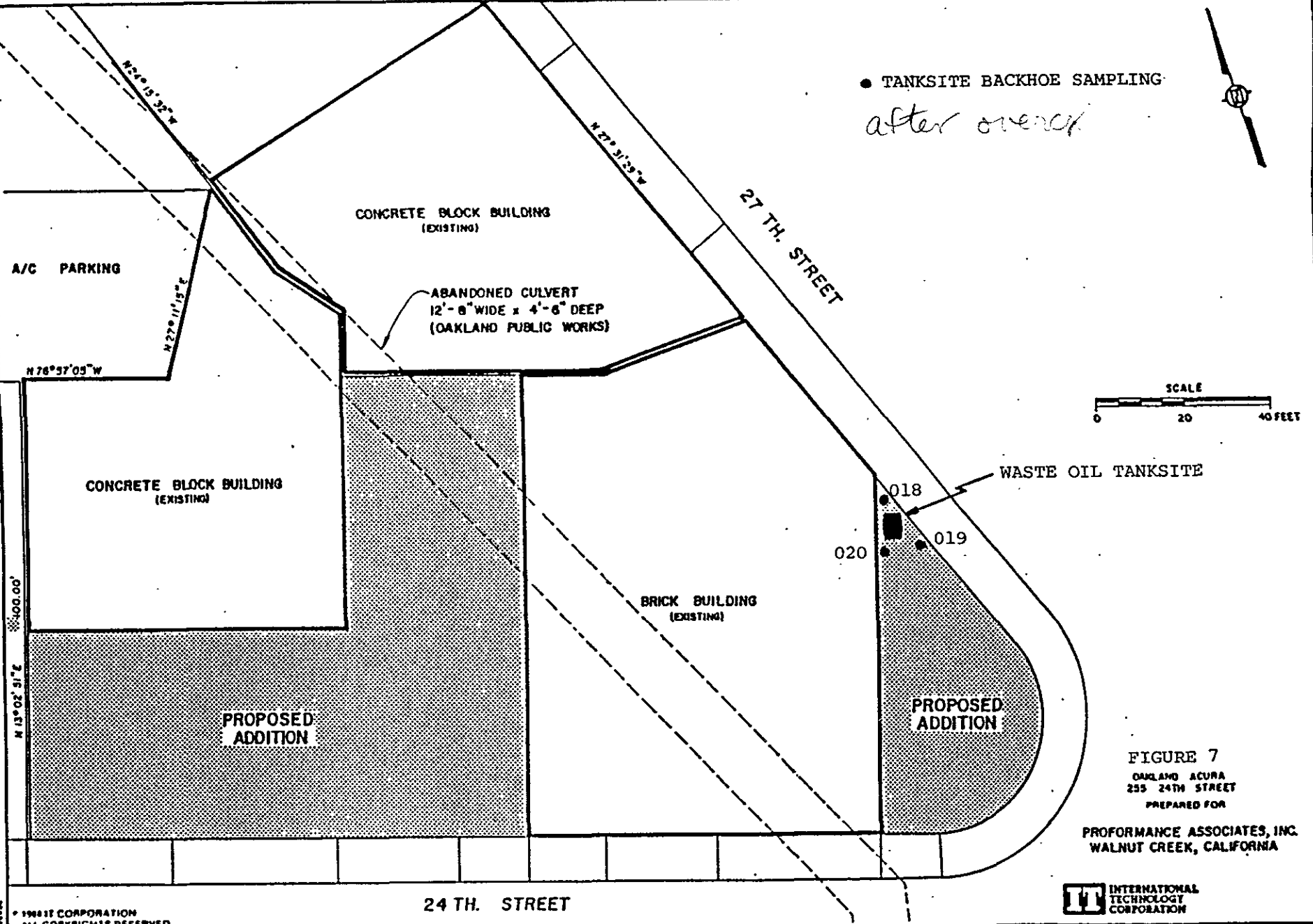
2. Unusual problems

The culvert area was drained and cleaned. However, new fluid entered the culvert suggesting that the culvert is not abandoned as per the records of the City of Oakland Public Works data obtained 19 March 1989. This data is enclosed as Figure 4.

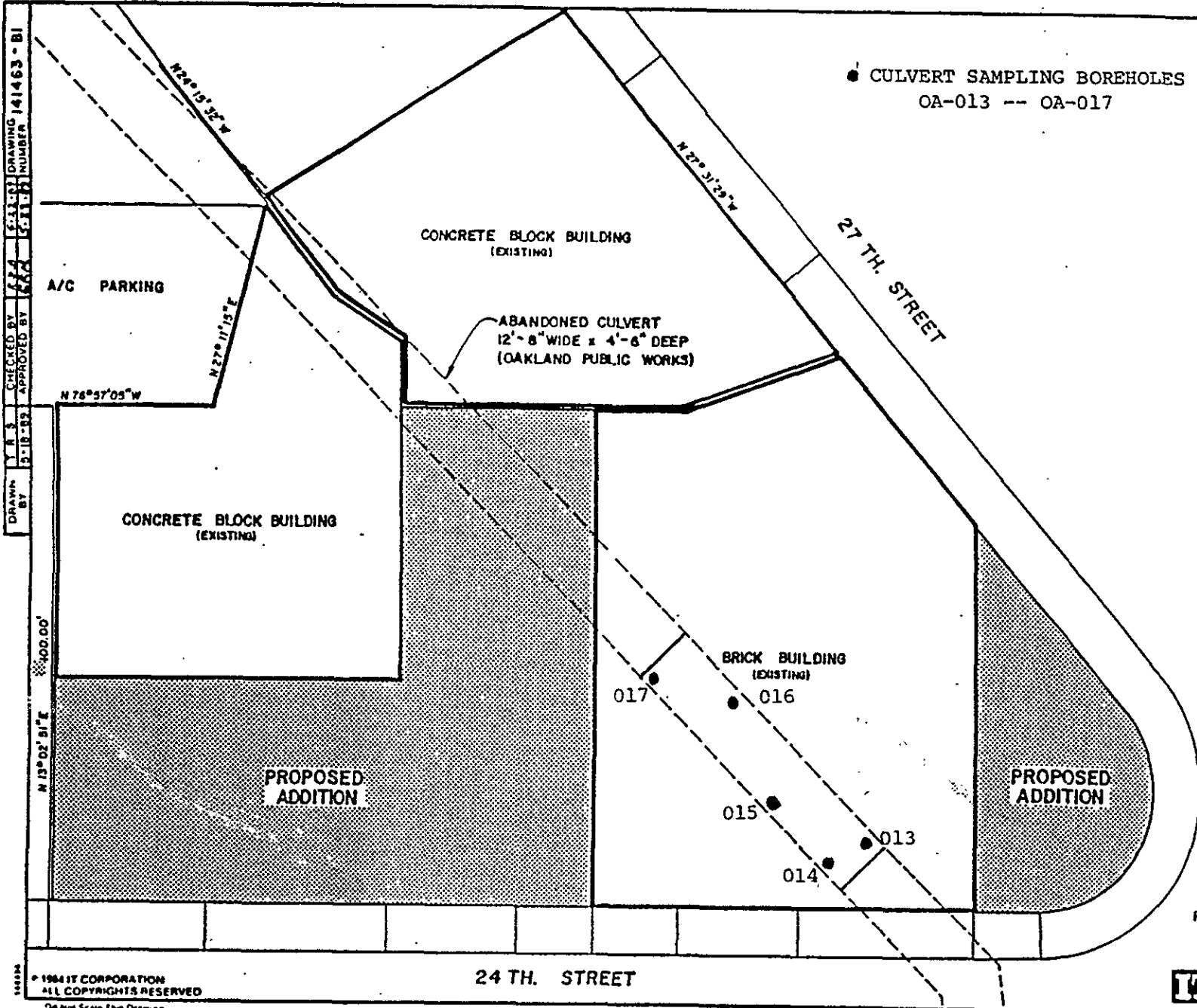
3. Contaminated soil data in the culvert area was obtained by a sampling program on 24 May 1989. The contents of the culvert (hazardous waste) have been removed to sealed containers prior to their disposal at a Class 1 Site. Liquids from the culvert are stored onsite in a Baker Tank. Contaminated liquids from the culvert washing procedure were added to those already in the Baker Tank. Following sampling of the tank, analysis of the liquids will determine their disposal method and destination. Any visibly contaminated soil in the area of the waste oil tank hole was located and stored on double sheeted plastic and covered with same prior to its disposal at a site to be determined based on concentration and chemistry of the contaminant.

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● TANKSITE BACKHOE SAMPLING
after overcap



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 DATE: 5-18-89
 DRAWING NUMBER: 141463-B1

SCALE
 0 20 40 FEET

FIGURE 5
 OAKLAND ACURA
 255 24TH STREET
 PREPARED FOR
 PERFORMANCE ASSOCIATES, INC.
 WALNUT CREEK, CALIFORNIA

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INTERNATIONAL
 TECHNOLOGY
 CORPORATION

After overexcavation

EHLER CONSTRUCTION 255-27th Street Oakland

June 8, 1989

CULVERT SOIL SAMPLES

Sample Number	Depth of take below culvert	Sample Results (PPM)							
		Lead	Copper	TPH(gas)	TPH(D)	Benzene	Toluene	Xylene	Ethylbenzene
OA-013	1ft 6in.	15.6	19.3	ND	ND	ND	ND	ND	ND
OA-014	6inches	8.2	5.6	ND	ND	ND	ND	ND	ND
OA-015	1ft.6in.	8.3	13.9	ND	ND	ND	ND	ND	ND
OA-016	2ft.6in.	5.9	18.0	ND	ND	ND	ND	ND	ND
OA-017	1ft.6in.	18.1	15.9	ND	ND	ND	ND	ND	ND

Waste Oil Tank Excavation Soil Samples

Sample Number	Depth of take (below grade)	SAMPLE RESULTS (PPM)							
		TPK(gas)	TPH(D)	O&G	Benzene	Toluene	Xylene	Ethylbenzene	Halogenated VOC's
OA-018	7 ft.	ND	ND	50	ND	ND	ND	ND	ND
OA-019	7 ft.	ND	ND	ND	ND	ND	ND	ND	ND
OA-020	7 ft.	ND	ND	50	ND	ND	ND	ND	ND

	OA-018	OA-019	OA-020
Metal	ppm	ppm	ppm
Tl	ND	ND	ND
As	ND	ND	ND
Hg	ND	ND	ND
Se	ND	ND	ND
Mo	ND	ND	ND
Sb	2.1	ND	2.2
Zn	20	18.6	21.9
Cd	1.7	1.5	1.3
Pb	9.3	6.4	7.2
Co	6.9	6.3	6.4
Ni	31.1	28.2	27.7
Cr.	20.8	17.4	17.4
V	15.1	12.1	13.8
Be	0.3	0.3	0.3
Cu	11.1	13.2	16.0
Ag	ND	ND	ND
Ba	106	98.8	106

FIGURE 2

SITE PLAN

● MONITORING WELL LOCATIONS

CONCRETE BLOCK BUILDING
(EXISTING)

ABANDONED CONVEYER
12'-0" WIDE x 4'-0" DEEP
(OAKLAND PUBLIC WORKS)

27 TH STREET

S/C PARKING

CONCRETE BLOCK BUILDING
(EXISTING)

BRICK BUILDING
(EXISTING)

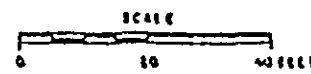
WASTE OIL TANKSITE

OW-1

OW-3

OW-2

XBM



ONE AND SEVEN
333 27TH STREET
PREPARED FOR
PERFORMANCE ASSOCIATES, INC.
WALNUT CREEK, CALIFORNIA

24 TH STREET

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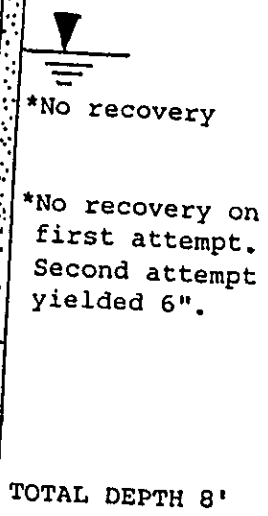
TABLE 6
MONITORING WELL SOIL BORING SAMPLE ANALYSIS (ppm)

SAMPLE #	70867-1	70867-5	70867-7
ITES ID#	06060AOW1	06060AOW2	06060AOW3
TYPE	SOIL	SOIL	SOIL
LOCATION	OW-1	OW-2	OW-3
TPH-GASOLINE	BDL	BDL	BDL
TPH-DIESEL	BDL	BDL	BDL
BENZENE	BDL	BDL	BDL
TOLUENE	BDL	BDL	BDL
E-BENZENE	BDL	BDL	BDL
XYLENE	BDL	BDL	BDL
CHLOROFORM	BDL	BDL	BDL
1,2 DICHLORO-ETHANE	BDL	BDL	BDL
1,1,1-TRICHLORO-ETHANE	BDL	BDL	BDL
CARBON TETRACHLORIDE	BDL	BDL	BDL
BROMO-DICHLORO-ETHANE	BDL	BDL	BDL
1,2-DICHLORO PROPENE	BDL	BDL	BDL
TRICHLORO-ETHENE	BDL	BDL	BDL
CHLOROMETHANE	BDL	BDL	BDL
BROMOMETHANE	BDL	BDL	BDL
VINYL CHLORIDE	BDL	BDL	BDL
CHLOROETHANE	BDL	BDL	BDL
METHYLENE CHLORIDE	BDL	BDL	BDL
1,1 DICHLORO-ETHENE	BDL	BDL	BDL
1,1 DICHLORO ETHANE	BDL	BDL	BDL
TRANS- 1,2 DICHLOROETHANE	BDL	BDL	BDL
DIBROMO-CHLORO METHANE	BDL	BDL	BDL
1,1,2-TRICHLORO-ETHANE	BDL	BDL	BDL
TRANS-1,3 DICHLORO PROPENE	BDL	BDL	BDL
2-CHLORO-ETHYL VINYL ETHER	BDL	BDL	BDL
BROMOFORM	BDL	BDL	BDL
TETRACHLORO-ETHENE	BDL	BDL	BDL
1,1,2,2-TETRA-CHLOROMETHANE	BDL	BDL	BDL
CHLOROBENZENE	BDL	BDL	BDL

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 141463	PROJECT NAME: Ehler Construction	
BORING NUMBER: OW-3	COORDINATES:	
ELEVATION: 9.40 ft	GWL: Depth 3.14 ft Date/Time 1510/6/12	DATE: 6/2/89
ENGINEER/GEOLOGIST: Don Kubik Jr.	Depth	Date/Time
DRILLING METHODS: 11" OD Hollow Stem Auger	DATE STARTED: 6/2/89	
	DATE COMPLETED: 6/2/89	
	PAGE 3	OF 3

DEPTH (ft)	SAMPLE TYPE & NO	BLOWS ON SAMPLER PER (6 in. 1	RECOVERY (ft)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
				brown FILL with traces of gravel, brick fragments, and other debris				
	SS-1	5	*	FILL ends and brownish black, damp, organic CLAY begins (no product odor or stain)	OH			
		6						
		8						
5	SS-2	3	*	brownish grayish black, damp-slightly wet, organic CLAY (no product odor or stain)	OH			
		3						
		3						
	S-1							
-10								



NOTES:

Groundwater encountered at approximately 2.25 feet below grade.

SCREEN: 6.5 feet of 4" schedule 40 PVC 0.01" screen.

CASING: 5.5 feet of schedule 40 PVC, 4 feet of which extends above grade.

TEMPORARY COMPLETION OF WELL PENDING SURFACE REGRADING

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS IN ppb
PROFORMANCE ASSOCIATES
IT Job No. 104029.1

LOCATION	DATE	TPH GASOLINE	TPH DIESEL	OIL & GREASE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES
OW-1	10/06/89	ND ₅₀	250 ₁₀₀	ND ₁₀₀₀	ND _{0.5}	ND _{1.0}	ND _{1.0}	ND _{3.0}
OW-1	12/14/89	50 ₅₀	940 ₁₀₀	ND ₅₀₀₀	0.5 _{0.5}	0.5 _{0.5}	ND _{0.5}	1.0 _{1.0}
OW-1	03/14/90	ND ₅₀	ND ₁₀₀	ND ₅₀₀₀	ND _{0.5}	ND _{0.5}	ND _{0.5}	ND _{1.0}
OW-1	06/15/90	ND ₅₀	ND ₅₀	ND ₅₀₀₀	ND _{0.5}	ND _{0.5}	ND _{0.5}	ND _{1.0}
OW-1	09/11/90	ND ₅₀	ND ₅₀	ND ₅₀₀₀	ND _{0.5}	ND _{0.5}	ND _{0.5}	ND _{0.5}
OW-1	12/11/90	ND ₅₀	ND ₅₀	N/A	ND _{0.5}	ND _{0.5}	ND _{0.5}	ND _{0.5}
OW-1	03/08/91	ND ₅₀	ND ₅₀	ND ₅₀₀₀	ND _{0.5}	ND _{0.5}	ND _{0.5}	ND _{0.5}
OW-1	06/11/91	ND ₅₀	ND ₅₀	ND ₅₀₀₀	ND _{0.5}	ND _{0.5}	ND _{0.5}	ND _{0.5}
OW-1	09/10/91	ND ₅₀	ND ₅₀	ND ₅₀₀₀	ND _{0.5}	ND _{0.5}	ND _{0.5}	ND _{0.5}
OW-1	12/11/91	ND ₅₀	ND ₅₀	ND ₅₀₀₀	ND _{0.5}	ND ₀	ND _{0.5}	ND _{0.5}
OW-1	03/11/92	ND ₅₀	ND ₅₀	ND ₅₀₀₀	ND _{0.3}	ND _{0.3}	ND _{0.3}	ND _{0.6}
OW-1	06/16/92	ND ₅₀	ND ₅₀	ND ₅₀₀₀	ND _{1.0}	ND _{1.0}	ND _{5.0}	ND _{3.0}
OW-2	10/06/89	ND ₅₀	ND ₁₀₀	ND ₁₀₀₀	ND _{0.5}	ND _{1.0}	ND _{1.0}	ND _{3.0}
OW-2	12/14/89	140 ₅₀	120 ₁₀₀	ND ₅₀₀₀	0.6 _{0.5}	0.6 _{0.5}	ND _{0.5}	2.0 _{1.0}
OW-2	03/14/90	100 ₅₀	260 ₁₀₀	ND ₅₀₀₀	ND _{0.5}	ND _{0.5}	ND _{0.5}	ND _{1.0}
OW-2	06/15/90	ND ₅₀	ND ₅₀	ND ₅₀₀₀	ND _{0.5}	ND _{0.5}	ND _{0.5}	ND _{1.0}
OW-2	09/11/90	ND ₅₀	ND ₅₀	ND ₅₀₀₀	ND _{0.5}	ND _{0.5}	ND _{0.5}	ND _{0.5}
OW-2	12/11/90	ND ₅₀	ND ₅₀	9600 ₅₀₀₀	ND _{0.5}	ND _{0.5}	ND _{0.5}	0.7 _{0.5}
OW-2	03/08/91	ND ₅₀	ND ₅₀	5200 ₅₀₀₀	ND _{0.5}	ND _{0.5}	ND _{0.5}	ND _{0.5}
OW-2	06/11/91	ND ₅₀	ND ₅₀	ND ₅₀₀₀	ND _{0.5}	ND _{0.5}	ND _{0.5}	ND _{0.5}
OW-2	09/10/91	ND ₅₀	ND ₅₀	ND ₅₀₀₀	ND _{0.5}	ND _{0.5}	ND _{0.5}	ND _{0.5}
OW-2	12/11/91	ND ₅₀	ND ₅₀	ND ₅₀₀₀	ND _{0.5}	ND _{0.5}	ND _{0.5}	ND _{0.5}
OW-2	03/11/92	ND ₅₀	ND ₅₀	ND ₅₀₀₀	ND _{0.3}	ND _{0.3}	ND _{0.3}	ND _{0.6}
OW-2	06/16/92	ND ₅₀	ND ₅₀	ND ₅₀₀₀	ND _{1.0}	ND _{1.0}	ND _{5.0}	ND _{3.0}
OW-3	10/06/89	ND ₅₀	ND ₁₀₀	ND ₁₀₀₀	ND _{0.5}	ND _{1.0}	ND _{1.0}	ND _{3.0}
OW-3	12/14/89	57 ₅₀	320 ₁₀₀	ND ₅₀₀₀	1.5 _{0.5}	1.0 _{0.5}	ND _{5.0}	4.0 _{1.0}

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS IN ppb
 PROFORMANCE ASSOCIATES
 IT Job No. 104029.1
 (Continued)

LOCATION	DATE	TPH GASOLINE	TPH DIESEL	OIL & GREASE	BENZENE	TOLUENE	ETHYL BENZENE	XYLENES
OW-3	03/14/90	50 ₅₀	2600 ₁₀₀	ND ₅₀₀₀	1.0 _{0.5}	0.9 _{0.5}	ND _{0.5}	3.0 _{1.0}
OW-3	06/15/90	88 ₅₀	6100 ₅₀	ND ₅₀₀₀	1.8 _{0.5}	0.9 _{0.5}	ND _{0.5}	3.9 _{1.0}
OW-3	09/11/90	ND ₅₀	4100 ₅₀	ND ₅₀₀₀	ND _{0.5}	ND _{0.5}	ND _{0.5}	2.2 _{0.5}
OW-3	12/11/90	ND ₅₀	N/A	21000 ₅₀₀₀	ND _{0.5}	0.91 _{0.5}	ND _{0.5}	1.9 _{0.5}
OW-3	03/08/91	ND ₅₀	4100 ₅₀	8000 ₅₀₀₀	0.6 _{0.5}	0.6 _{0.5}	0.7 _{0.5}	3.6 _{0.5}
OW-3	06/11/91	ND ₅₀	2300 ₅₀	30000 ₅₀₀₀	0.8 _{0.5}	0.6 _{0.5}	ND _{0.5}	2.2 _{0.5}
OW-3	09/10/91	0.16 ₅₀	4600 ₅₀	ND ₅₀₀₀	1.1 _{0.5}	0.6 _{0.5}	ND _{0.5}	2.8 _{0.5}
OW-3	12/11/91	ND ₅₀	3400 ₅₀	ND ₅₀₀₀	0.8 _{0.5}	ND _{0.5}	ND _{0.5}	1.7 _{0.5}
OW-3	03/11/92	ND ₅₀	80 ₅₀	ND ₅₀₀₀	ND _{0.3}	ND _{0.3}	ND _{0.3}	ND _{0.6}
OW-3	06/16/92	ND ₅₀	ND ₅₀	ND ₅₀₀₀	ND _{1.0}	ND _{1.0}	ND _{5.0}	ND _{3.0}
OW-3	09/11/92	ND ₅₀	260 ₅₀	ND ₅₀₀₀	0.3 _{0.3}	ND _{0.3}	ND _{0.3}	0.4 _{0.3}
OW-3	12/09/92	ND ₅₀	710 ₅₀ ⁷¹	ND ₅₀₀₀	ND _{0.3}	ND _{0.3}	ND _{0.3}	ND _{0.6}
OW-3	03/12/93	ND ₅₀	ND ₂₅₀	48000 ₅₀₀₀ *	ND _{1.0}	ND _{1.0}	ND _{1.0}	ND _{2.0}
OW-3	09/13/93	ND ₅₀	760 ₅₀ **	8300 ₅₀₀₀	0.5 _{0.3}	ND _{0.3}	ND _{0.5}	ND _{0.5}
OW-3	03/21/94	ND ₅₀	320 ₅₀	ND ₅₀₀₀	ND _{0.3}	ND _{0.3}	ND _{0.3}	ND _{0.5}
OW-3	09/20/94	ND ₅₀	350 ₅₀	ND ₅₀₀₀	ND _{0.5}	ND _{0.5}	ND _{0.5}	ND _{0.5}

PH = total petroleum hydrocarbons

ND_x = none detected at x method detection limit

8_x = concentration of petroleum hydrocarbon detected at x method detection limit

pb = parts per billion (micrograms/liter)

A = not analyzed

* EPA METHOD 413.1

** FIELD BLANK = 220 ppb