DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, Director

August 25, 1995

### REMEDIAL ACTION COMPLETION CERTIFICATION

Attn: Bob Boust Unocal Corp. PO Box 5155 San Ramon CA 94583 DEPARTMENT OF ENVIRONMENTAL HEALTH Environmental Protection Division 1131 Harbor Bay Parkway, #250 Alameda, CA 94502-6577 (510) 567-6700

STO 219

Howard Schwartz 100 St. James Dr. Piedmont CA 94611

RE: Former Unocal service station #0064, 200 East 18th St., Oakland CA 94606

Dear Mr. Boust,

This letter confirms the completion of site investigation and remedial action for the following four underground storage tanks at the above referenced site: 280-gallon waste oil, two 10,000-gallon gasoline, and 50-gallon waste oil. 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 a change in land use is proposed, the owner must promptly notify this agency.

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

Very truly yours,

Jun Makishima, Acting Director

Jen Wakishima

cc: Leroy Todd, Acting Chief, Environmental Protection Division/file

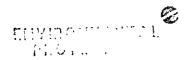
Kevin Graves, RWQCB

Mike Harper, SWRCB (with attachment

Greg Gurss, GeoStrategies, Inc., 3035 Prospect Park Dr., Suite 110, Rancho Cordova CA 95670

Jennifer Eberle

LOP/Completion je.219clos.let



## CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

#### T. AGENCY INFORMATION

Date: 6/19/95

Alameda County-HazMat Address: 1131 Harbor Bay Pky Agency name:

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: former Unocal service station #0064 Site facility address: 200 East 18th St., Oakland CA 94606 RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 219

URF filing date: 4/22/93 SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:

Attn: Bob Boust, Unocal Corp., PO Box 5155, San Ramon CA 94583

Howard Schwartz, 100 St. James Dr., Piedmont CA 94611

Tank No:	<u>Size in</u> <u>gal.:</u>	<u>Contents:</u>	<pre>Closed in-place or removed?:</pre>	Date:
1	280	waste oil	removed	4/21/93
2	10,000	gasoline	removed	3/16/95
3	10,000	gasoline	removed	3/16/95
4	50	waste oil	removed	4/14/95

#### RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: historical use of site as service station (since 1920s)

Site characterization complete? YES

Date approved by oversight agency: n/a

Monitoring Wells installed? YES Number: 3

Proper screened interval? YES

Highest GW depth below ground surface: 0.38'bgs (U1 on 11/11/94)

Lowest depth: 5.92'bgs (U2 on 8/12/94)

Flow direction: variable: S on 2/5/94 at 0.006 ft/ft, W on 5/7/94 at 0.004 ft/ft, N on 8/12/94 at 0.02 ft/ft, N at 0,003 ft/ft on 11/11/94, W on 2/9/95 at 0.002 ft/ft, SW on 5/4/95 at 0.02 ft/ft.

Most sensitive current use: vacant lot at present

Are drinking water wells affected? NO Aquifer name:

Page 1 of 5

Is surface water affected? Probably not Nearest SW name: Lake Merritt is approx 300' NW of the site

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

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

Treatment and Disposal of Affected Material:

Material	Amount	Action (Treatment	<u>Date</u>
	(include units)	of Disposal w/destination)	

Tank 280 gal disposed to H&H (#92217119) 4/21/93 two 10,000 gal disposed to Erickson (#95204860) 3/16/95 50 gal disposed to Erickson (#95204884) 4/19/95

Soil 2,850 yd3 disposed to Forward Landfill 3/31 to 5/10/95

Groundwater 49,000 gal disposed at Unocal's Richmond Refinery April 95

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)
Maximum Documented Contaminant Concentrations - - Before and After Cleanup

#### 280-GAL WASTE OIL UST

Contaminant	Soil (ppm Before Af		Water Before	(ppm) After
TPH (Gas)	90	0.67	18	NA
TPH (Diesel)	ND	ND	ND	NA
Benzene	ND	ND	.0093	NA
Toluene	2.2	ND	.020	NA
Xylene	11	ND	.440	NA
Ethylbenzene	1.6	ND	.068	NA
Oil & Grease	4,700	670	100#	NA
TPH-motor oil	7,600**	220	3,700	NA
Heavy metals	<10X the STLCs	3***		ched Table 2

\*after overexcavation on 4/26/93 \*\*but stockpile had 18,000 ppm \*\*\*except 210 ppm total lead in stockpile (6.2 ppm WET lead) #230 ppm in replicate sample

TWO 10,000-GAL GASOLINE USTS

Contaminant	<b>Soil</b> () Before	opm) After	Water Before	(ppm) ##
TPH (Gas)	100			
, ,		4200	ND	ND
TPH (Diesel)	NA	730	ND	
Benzene	0.20	7.5	ND	ND
Toluene	0.13	2.0	ND	ND
Xylene	1.2	44	ND	ND
Ethylbenzene	0.40	31	ND	ND
Oil & Grease	NA	74	ND	
total lead	28	28	NA	

## from the 3 wells onsite

#### IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined

Does corrective action protect public health for current land use? Site management requirements: NA

Should corrective action be reviewed if land use changes? YES NO Monitoring wells Decommisioned: Not yet Number Decommisioned: Number Retained: List enforcement actions taken: none

List enforcement actions rescinded:

#### v. LOCAL AGENCY REPRESENTATIVE DATA

Name: Jennifer Eberle Signature: /

Title: Hazardous Materials Specialist

1-7-95 Date:

Reviewed by

Name: Eva Chu Signature:

Title: Hazardous Materials Specialist

Date: 2/7/95

Name: Dale Klettke Signature:

Title: Hazardous Materials Specialist

Date: 7-7-95

RWOCE NOTIFICATION VI.

Date Submitted to RB: RWQCB Staff Name: Keyin Graves

RB Response: Title: AWRCE

#### VII. ADDITIONAL COMMENTS, DATA, ETC.

On 4/21/93, a 280-gallon waste oil UST was removed. The UST had holes near the bottom. Groundwater appeared in the excavation at approximately 5'bgs. Two wall samples were taken at 4'bgs (see Plate 1). Results indicated 7600 ppm TPH-oil, 4667 ppm O&G, 90 ppm TPHg, ND benzene, ND TPHd, some TEX, metals below 10 X the STLCs, and ND 8270 (semi-VOCs) (See Table 1). The stockpile had 18,000 ppm TPH-oil, 13,763 ppm O&G, 320 ppm TPHg, ND benzene, ND TPHd. And metals below 10X the STLCs except 210 ppm total lead. On 4/26/93, the pit was overexcavated and the walls (3 locations) were resampled at 3'bgs. Results indicated 670 ppm O&G, 220 ppm TPH-oil, and ND for the other constituents (See Table 1). These concentrations were left in place. A water sample was taken from the open pit on 4/28/93. Results indicated 18,000 ppb TPHg, 9.3 ppb benzene, some TEX, ND TPHd, 3,700,000 ppb TPH-oil, and 100,000 ppb O&G (230,000 ppb O&G from a replicate sample), as well as the 5 metals, and ND semi-volatiles (see Table 2).

Three Mws were installed onsite in January 1994 (see Plate 2). Soil sampled from the boreholes were ND in wells U2 and U3, but well U1 had 820 ppm TPHg, 2.2 ppm benzene, some TEX, and ND O&G (see Table 3).

On 3/16/95, two 10,000-gal gasoline USTs were removed (see Plate 3). Groundwater was entering the excavation at approximately 4'bgs. There were no obvious holes in the USTs; they were tar-wrapped. The tank inverts were approximately 12'bgs. However, samples were taken at approx 4'bgs because the soil was saturated below that depth. The East end was excavated slightly further than the West end, due to apparent soil contamination. Four wall samples were taken, and were all ND for TPHg and BTEX except sample TP1-S-4, taken from the East end: 100 ppm TPHg, 0.20 ppm benzene, and some TEX (see Table 4).

Subsequent excavation and sampling included the pump islands, the station building area (which included two hydraulic hoists), the former product line which led from the 10,000-gal USTs towards East 18th St. (where USTs were apparently located back in 1920), the former UST pit area located immediately N-NE of the 10,000-gal USTs (where USTs were apparently located back in 1939), the former car wash area, the former oil/water separator, the former wooden structure, and another 50-gallon waste oil UST which was discovered on 4/14/95 during these excavation activities (see Plates 3, 4, 5 and Table 4).

A total of 2,850 cubic yards of soil was removed, as well as a total of 49,000 gal of water purged from the excavations.

Residual concentrations were left in place. Up to 4200 ppm TPHq, 7.5 ppm benzene, 31 ppm ethylbenzene, and 44 ppm xylenes were detected in a soil sample collected from the sewer trench at Athol St. (sample 26 aka T9-S-4). Up to 730 ppm TPHd (sample 37 aka T28-S-4.5), and up to 210 ppm O&G (sample 33 aka T24-S-4.5) were detected in soil samples collected from the S-SW side of the site, along East 18th St. However, they were located at the property boundaries at the sidewalk interface, with the exception of an insignificant concentration of 74 ppm O&G (left onsite). This means that any future development onsite (even residential), should not be affected; these concentrations are below the sidewalk, not onsite (see Plates 4 and 5 and Table 4). The highest concentrations of volatile hydrocarbons remaining in place exist in sample 26 (aka T9-S-4). In light of the enormous amount of soil excavation and offsite disposal (approximately 3,000 yd3), and considering the non-detectable concentrations of TPHgasoline and benzene in nearby samples 3 and 12, the concentrations remaining in sample 26 represent a relatively insignificant mass of hydrocarbons.

Six consecutive quarters of groundwater monitoring have shown ND concentrations of TPHg and BTEX, as well as one quarter of ND TPHd, and two quarters of ND O&G (See Table 5). It appears that groundwater has NOT been affected by the soil contamination, even though groundwater is very shallow.

The groundwater flow direction has been variable and very flat. The variation may be either due to its flatness or tidal influence from Lake Merritt, which is located approximately 300 feet NW of the site.

	SAMPLE	, .				And the second		County Area County Area		1 18 79				<u>.</u>	ús!	WET Pb
SAMPLE	DEPTH:	SAMPLE DATE	7	BENZENE	TOLUENE	ETHYLBENZENE PPM)	XYLENES PPM)	TPH-D	TPH-MOTOR:	O&G A	Cd (PPM)	(PPM)	PF (PPM)	Zn PPMI /	(PPM)	(PPM)
UW-1	4	21-Apr-93	90 🗸	<.50	2.2 1	1.8	11	<250 j	7800	4700M	0.31	30,	30	34	27~	
UW-2A-B	4	21-Apr-93	<.50 V	<.00501	<.0050	<.0000	<.0050	<10b	<10	<50 V	0.23	32	10 2	27 5	ے 20	
UX-3	3	20 No. 3	<.50	<.0060	<.0060 -	<.0050	<.0060	<10	-220 A	200	0.21	34/	10 /	21/	41 /	
UX-4	3	28-Apr-93	<.50	<.0050	<.0050	<.0000	<.0060	<10	<10	<50	0.48	46 /	6.3	20 /	60 _	
UX-6	3	26-Apr-03	.67•	<.0050	<.0050	<.0000	<.0050	<10/	<10/	<60 /	0.40	32	26	36	26 /	
UT-1A-B	_	21-Apr-93	2004/m	<.50	<.50	<.50	<.50	<10 :	< 10	<501	س 0.68	س. 41 -	س 9.7	61	- 86	
UWS-1A-D		21-Apr-93	320-6	<.501	<.50	<.50	1.2	<1300 <b>V</b>	180004	14000 <i>i/</i>	0.57	سسد 37	<b>12101</b>	170	40	6.2 ~
								<del></del>		C+1	0 1.0	5	5	250	ي ش	
M	=	Parts Per M	lillion.							>16	1.0	•	Ų			

PPM	=	Parts Per Million.
TPH-G	=	Total Petroleum Hydrocarbons calculated as Gasoline.
TPH-D	=	Total Petroleum Hydrocarbons calculated as Diesel.
TPH-Motor Oil	=	Total Petroleum Hydrocarbons calculated as Motor Oil.
O&G	=	Oil and Grease.
Notes:	1.	High reporting limits due to dilution factor.
	2.	All data shown as <x (none="" are="" as="" detected).<="" nd="" reported="" td=""></x>
	3.	Laboratory values are reported in units of mg/kg which are generally synonymous with parts per million (ppm).
WET	=	Waste Extraction Test for Lead.
*	=	Product is not typical gasoline: Sample UWS-1A-D has a chromatographic pattern similar to aged gasoline.

# ALAMEDA COUNTY HEALTH CARE SERVICES - ENVIRONMENTAL PROTECTION MEMORANDUM

DATE: May 30, 1995

TO: EPD SUPPORT STAFF

FROM: JB & MEE LING TUNG

SUBJ: SUPPORT STAFF MEMETING

PLEASE PLACE ON YOUR CALANDER FOR TOMORROW MAY 31, 1995 AT 1:30 PM THE WILL BE A SUPPORT STAFF MEETING. Tentatively the place will be rm 201 if nothing changes. See you there.

## TABLE 2

12 = 10,00 pp-

Semi-vol.

SAMPLE (.D.	SAMPLE DATE	TPH-G BENZ (PPB) (PF	 UENE PB)	ETHYLBENZENE (PPB)	XYLENES (PPB)	TPH-D (PPB)	TPH-MOTOR		Cd (PPB)	Cr (PPS)	Pb (PPB)	Zn (PPB) (P	[] E25
UH-2	28-Apr-93	9000	20	68	440	<.00431		STOOM !	150	2400	20000	34000 / 30	

and replicate)

0&G	=	Oil and Grease.
TPH-G	=	Total Petroleum Hydrocarbons calculated as Gasoline.
TPH-D	=	Total Petroleum Hydrocarbons calculated as Diesel.
TPH-Motor Oil	=	Total Petroleum Hydrocarbons calculated as Motor Oil.
PP8	=	Parts Per Billion (ug/L).
(%)	#	PPB - 10'; see Certified Analytical Report for explanation.
•	=	Product is not typical standard gasoline. Chromatographic pattern is similar to Stoddard solvent.
Notes:	1.	All data shown as <x (none="" are="" as="" detected).<="" nd="" reported="" td=""></x>
	2.	Laboratory values are reported in units of ug/L, which are generally synonymous with parts per billion.

787701-1

# TABLE 3 SOIL ANALYTICAL DATA

SAMPLE I.D.	SAMPLE DATE	TPH-G IPPMI	BENZENE (PPM)	TOLUENE (PPM)	ETHYLBENZENE IPPMI	XYLENES (PPM)	O&G (PPM)
U-1-3,0	26-Jan-94 -	820 🗼	2.2	3.5	5.8	6.0	<50 /
U-2-5.0	26-Jan-94	<1.0	<0.005 /	<0.005 /	<0.005	<0.005 /	<50 /
U-3-4.5	26-Jan-94 V	<1.0 /	<0.005	<0.005	<0.005	<0.005 —	<50

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline.

O&G = Oil and Grease
PPM = Parts Per Million.

Notes:

1. All data shown as <x are reported as ND (none detected).

2. The second number of the sample ID corresponds to the depth the sample was collected.

correlate w/Fig.3

## TABLEX 4

#### LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES FROM EXCAVATIONS Unocal Service Station No. 0064 200 East 18th Street Oakland, California

55,00 648

	<u> </u>			<del></del>			<u> </u>					
		AMPLE					ETHYL					F30000000
SAMPLE LO		ien	SAMPLE DATE	TPHg IPPMi	BENZENE	TOLUENE (PPM)	BENZENE (PPMI	XYLENES (PPM)	TPHa (PPM)	O&G (PPMI	TPHmo (PPM)	Pb (PPM)
Self Hilliam	<u></u>	4.0	16-Mar-95	1001	0,20	0.13	0.40	1.2	NA	NA NA	NA	6.4
TP1-S-4	2	4.0	16-Mar-95	<1.0	< 0.0050	0.0067	<0.0050	0.045	NA	NA	NA	28
TP2-S-4	3		16-Mar-95	<1.0	< 0.0050	< 0.0050	<0.0050	<0.0050	NA	NA	NA	25
трз-S-4	<i>5</i> 4	4.0		<1.0	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA	NA NA
TP4-S-8.5		8.5	16-Mar-95									
TR1-S-4	5	4.0	20-Mar-95	420	0.41	1.3	2.1	2.2	NA	NA 	NA	10
TR2-S-4	6	4.0	20-Mar-95	6.4	0.015	0.023	0.050	0.017	NA	NA	NA	7.1
TR3-5-4	7	4.0	20-Mar-95	55	<0.05	< 0.05	<0.05	0.35	NA	NA	NA	15
TR4-S-5	85	4.0	20-Mar-95	12001	<1.25	5.5	2.6	38	NA	2,600	NA	5.9
TR5-S-4	10	4.0	20-Mar-95	660	1.2	2.3	4.2	18	160²	NA 	NA	16
T1-Ŝ-6 \	. ` `^	6.0	03-Apr-95	<1.0	< 0.0050	< 0.0050	<0.0050	< 0.0050	NA	NA	NA	NA
T2-S-6	st acs	6.0	03-Apr-95	< 1.0	<0.0050	< 0.0050	< 0.0050	< 0.0050	NA	NA	NA	NA
₹3-S-6	J	6.0 j ~	03-Apr-95	<1.0	< 0.0050	< 0.0050	< 0 0050	< 0.0050	NA	NA	NA	NA
T4-S-6		6.0 15	03-Apr-95	<1.0	< 0.0050	<0.0050	< 0.0050	0.011	NA	NA	NA	NA
T5-S-6	near	6.0 16	03-Apr-95	4.6³	< 0.0050	0 066	0.044	0.088	5.14	340	205	NA
T6-S-6	e.Ish	5.859	703-Apr-95	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<1.0	<50	< 10	NA
T7-S-8		8.0 9	03-Apr-95	<1.0	< 0.0050	<0.0050	<0.0050	< 0.0050	104	98	625	NA
T8-S-4 5	[[	4.5	14-Apr-95	690 <sup>6</sup>	<0.50	2.0	1.2	1.4	2504	200	NA	NA
T9-S-4	26	4.0	14-Apr-95	4200 <sup>6</sup>	7.5	< 2.5	31	44	NA	NA	NA	NA
T10-S-6	18	6.0	14-Apr-95	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA	< 50	NA	NA
T11-S-6	id	6.0	14-Арг-95	1.37	< 0.0050	< 0.0050	< 0.0050	0.023	NA	< 50	NA	NA
T12-S-6	ဥ၁	6.0	14-Apr-95	2507	<0.12	<0 12	< 0.12	1.7	NА	<50	ΝA	NA
T13-S-4	21	4.0	14-Apr-95	8.37	<0.0050	< 0.0050	< 0.0050	0.11	NA	180	NA	AN
T14-S-6	22	6.0	14-Apr-95	180 <sup>7</sup>	< 0.12	< 0.12	0.45	1.8	980⁴	3500	NA	NA
T15-S-6	23	6.0	14-Apr-95	1207	<0.050	< 0.050	0.13	0.49	NA	< 50	NA	NA
T16-S-6	24.	6.0	14-Apr-95	500 <sup>7</sup>	< 0.50	< 0.50	0.75	3.6	3604	240	NA	NA
T17-S-5	65	5.0	14-Apr-95	<1.0	<0.0050	0.0080	<0.0050	0.0089	NA	81	NA	NA
T18-S-6	27	6.0	24-Apr-95	<1.0	<0.0050	< 0.0050	< 0.0050	< 0.0050	NA	< 50	NA	NA
T19-S-6	·	6.0	24-Apr-95	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA	< 50	NA	NA
T20-S-6	29	6.0	24-Apr-95	<1.0	<0.0050	< 0.0050	< 0.0050	<0.0050	NA	74	NA	NA
T21-S-6	•		26-Apr-95	<1.0	<0.0050	< 0.0050	<0.0050	<0.0050	<1.0	< 50	NA	NA
						<del></del>				<del></del>	<del> </del>	<del></del>

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TABLEX 4 (Con't)

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#### LABORATORY ANALYTICAL RESULTS FOR SOIL SAMPLES FROM EXCAVATIONS Unocal Service Station No. 0064

200 East 18th Street Oakland, California

\$AMPLE 1,0 122-S-4.5 123-S-4.5 124-S-4.5		SAMPLE DEPTH (FT)	SAMPLE DATE	TPHg (PPM)	BENŻENE (PPM)	TOLUENE (PPM)	ETHYL BENZENE (PPM)	XYLENES (PPM)	TPHd (PPM):	O&G (PPM)	TPHme (PPM)	Pb (PPM)
T22-S-4.5	31	4.5	02-May-95	1.87	<0.0050	< 0.0050	< 0.0050	0.0062	1.84	NA	NA	NA
T23-S-4.5	37	4.5	02-May-95	<1.0	< 0.0050	< 0.0050	< 0.0050	<0.0050	1.24	NA	NA	NA
T24-\$-4.5	33	4.5	02-May-95	33"	0.038	< 0.025	0.040	0.062	53 <sup>4</sup>	210	NA	NA
T25-S-6	34	6.0	03-May-95	<1.0	< 0.0050	< 0.0050	<0.0050	<0.0050	NA	NA	NA	NA
T26-S-5.5	35	5.5	03-May-95	<1.0	<0.0050	< 0.0050	<0.0050	<0.0050	NA	NA	NA	NA
T27-S-6	36	6.0	03-May-95	<1.0	<0.0050	<0.0050	< 0.0050	<0.0050	<1.0	71	NA	NA
T28-S-4.5	31	4.5	04-May-95	3707	<0.12	<0.12	<0.12	1.2	730 <sup>4</sup>	NA	NA	NA NA
T29-\$-6	38	6.0	04-May-95	<1.0	< 0.0050	< 0.0050	<0.0050	<0.0050	<1.0	NA	NA	NA
	39	6.0	04-May-95	<1.0	<0.0050	<0.0050	< 0.0050	< 0.0050	<1.0	NA	NA	NA
T31-S-4.5	40	4.5	04-May-95	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	< 50	NA	NA

TPHg = Total Petroleum Hydrocarbons calculated as Gasoline.

TPHd = Total Petroleum Hydrocarbons calculated as Diesel.

O&G = Oil and Grease.

TPHmo = Total Petroleum Hydrocarbons calculated as Motor Oil.

Po ≕ Lead

PPM = Parts Per Million.

NA = Not Analyzed.

□ Gasoline and unidentified hydrocarbons > C9.

Unidentified hydrocarbons <C13.</li>

Weathered gasoline,

Unidentified hydrocarbons C9-C24.

Unidentified hydrocarbons C16-C36.

Unidentified hydrocarbons C6-C12.

Unidentified hydrocarbons C8-C12.

= Unidentified hydrocarbons < C8 and weathered gasoline C8-C12.

Notes:

All data shown as <x are reported as ND (none detected).</li>

2. Laboratory values are reported in units of mg/kg which are generally synonymous with parts per million (ppm).

TABLE X 5
SUMMARY OF LABORATORY ANALYSES
WATER

Date	Well #	TPH as Diesel	TPH as Gasoline	<u>Benzene</u>	<u>Toluene</u>	Ethyl- benzene	Xylenes	TOG (mg/L)
5/04/95	U-1		ND	ND	ND	ND	ND	
	U-2		ND	ND	ND	ND	ND	
	U-3		ND	ND	ND	ND	ND	
2/09/95	U-1		ND	ND	ND	ND	ND	
	U-2		ND	ND	ND	ND	ND	
	U-3	<b>-</b> -	ND	ND	ND	ND	ND	
11/11/94	U-1		ND	ND	ND	ND	ND	
	U-2		$n_D$	ND	ND	ND	ND	
	U-3		ND	ND	ND	ND	ND	
8/12/94	U-1		ND	ND	ND	ND	1.9	
	U-2		ND	ND	1.9	ND	3.1	
	U-3		ND	ND	1.1	ND	0.79	
5/07/94	U-1▲	ND	ND	ND	ND	ND	ND	ND
	U-2		ND	ND	ND	ND	ND	
	U-3		ND	ND	ND	ND	ND	
2/05/94	U-1		ND	ND	ND	ND	ND	ND
	U-2	-	ND	ND	ND	ND	ND	ND
	U-3		ND	ND	ND	ND	· ND	ND

### TABLE X (Continued)

## SUMMARY OF LABORATORY ANALYSES WATER

▲ Total extractable petroleum hydrocarbons as motor oil was non-detectable.

TOG = Total Oil & Grease.

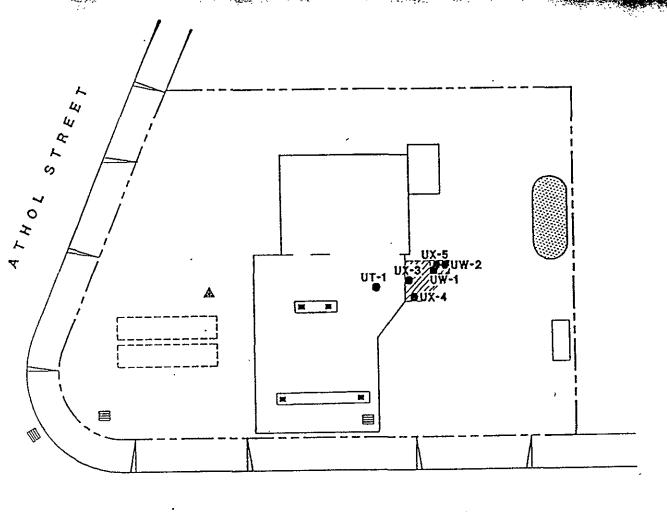
mg/L = milligrams per liter.

ND = Non-detectable.

-- Indicates that analysis was not performed.

Results are in micrograms per liter ( $\mu g/L$ ), unless otherwise indicated.

Note: Laboratory analyses data prior to May 7, 1994, were provided by GeoStrategies, Inc.



Observation well

Soil Sample

Excavation

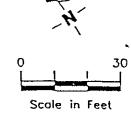
Stockpile

18th STREET EAST

Base Map:

Robert H. Lee & Associates, Inc. Site Plan (9-2-92) Field observations (5-6-93)

REMEWED BY



OB NUMBER

787701-1

GeoStrategies Inc.

SOIL SAMPLE & STOCKPILE MAP UNOCAL Service Station #0064 200 East 18th Street

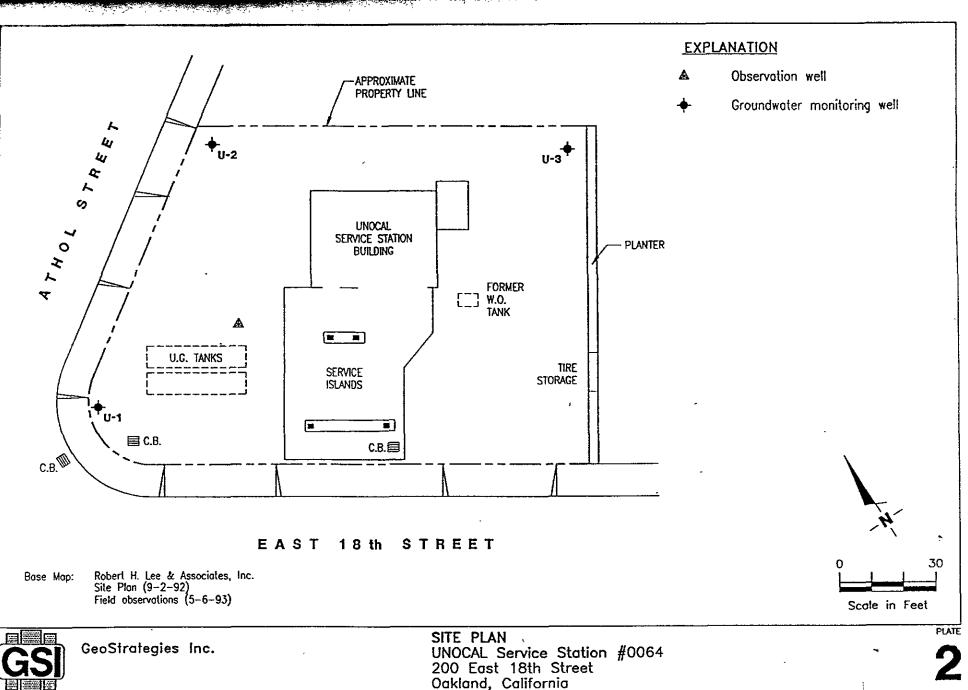
Oakland, California

DATE

5/93

REVISED DATE 7/93

PLATE



DATE

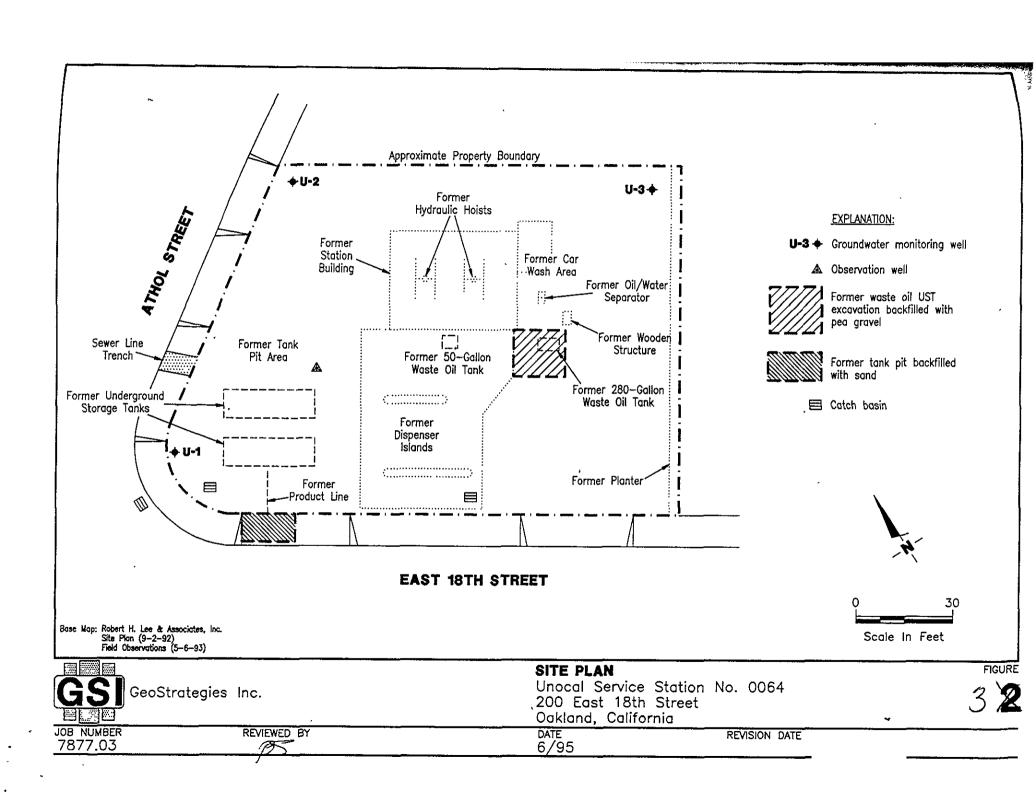
2/94

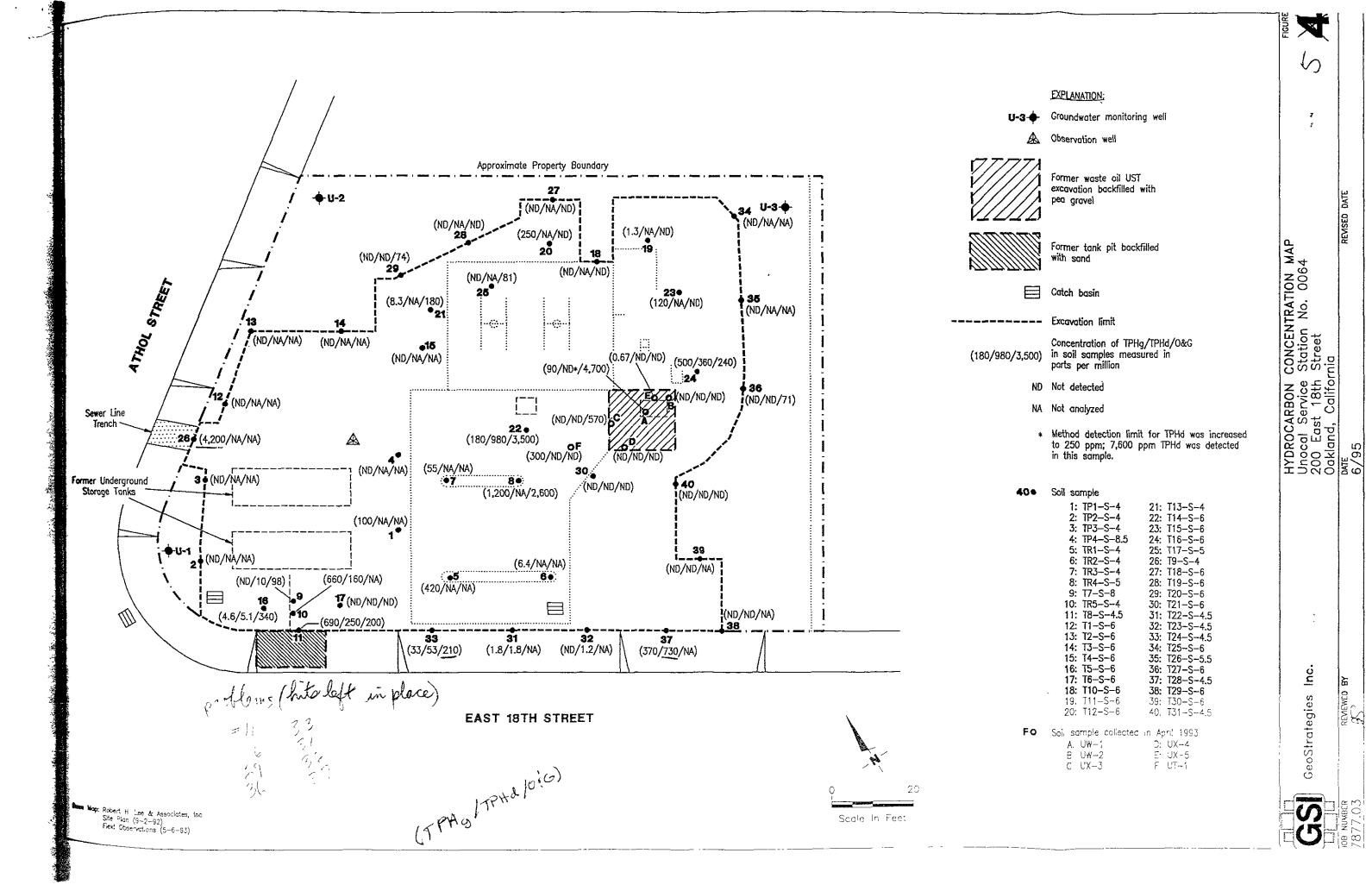
JOB NUMBER

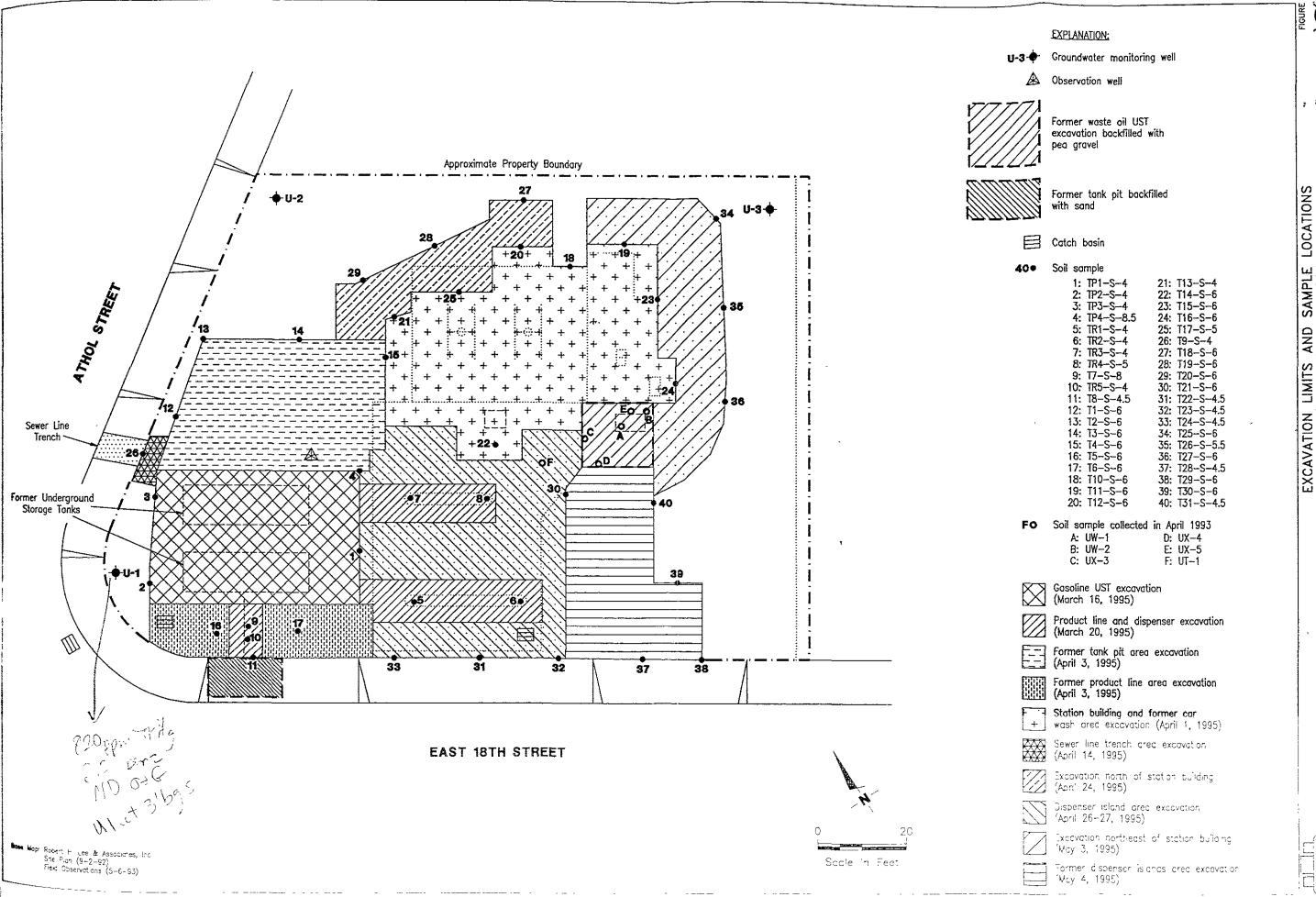
7877

REVIEWED BY

REVISED DATE







1

EXCAVATION LIMITS AND SAMPLE LOUNDCAL Service Station No. 0064 200 East 18th Street Oakland, California Date 6/95

nc. GeoStrategies