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

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

October 28, 1996

STID 752

REMEDIAL ACTION COMPLETION CERTIFICATION

Barry Prince
O.K. Intermodal, Inc.
13700 Catalina Street
San Leandro, CA 94577

Carlisle Peet
Rollins Leasing Corporation
2200 Concord Pike
Wilmington, DE 19803

Tracy L. Rand et al
5 Sleepy Hollow Court
Orinda, CA 94563

RE: O.K. TRUCKING, 13700 CATALINA STREET, SAN LEANDRO, ALAMEDA COUNTY, CALIFORNIA

Dear Messrs. Prince, Peet, and Rand:

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including 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 storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e). If a change in land use is proposed, the owner must promptly notify this agency.

Please contact Scott Seery at (510) 567-6783 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung
Director of Environmental Services

enclosures

cc: Gordon Coleman, Acting Chief, Env. Protection Division
Kevin Graves, RWQCB
Lori Casias, SWRCB
Mike Bakaldin, San Leandro Hazardous Materials Program
Ralph E. Grant, Rollins Leasing Corp., One Rollins Plaza
P.O. Box 1791, Wilmington, DE 19803
Joseph J. Armao, Esq., Heller, Ehrman, White & McAuliffe
333 Bush St., S.F., CA 94104-2878

SIGNED COPY

01-0488

CALIFORNIA REGIONAL WATER

MAR 1 8 1996

QUALITY CONTROL BOARD

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: 01/30/96

Agency name: **Alameda County-EPD** Address: **1131 Harbor Bay Pkwy #250**
City/State/Zip: **Alameda, CA 94502** Phone: **(510) 567-6700**
Responsible staff person: **Scott Seery** Title: **Sr. Haz. Materials Spec.**

II. CASE INFORMATION

Site facility name: **O.K. Trucking**
Site facility address: **13700 Catalina Street, San Leandro 94577**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **752**
URF filing date: **08/21/95** SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
Barry Prince O.K. Trucking	13700 Catalina St. San Leandro, CA 94577	
Carlisle Peet Rollins Leasing Corp.	2200 Concord Pike Wilmington, DE 19803	(302) 426-2789
Tracy L. Rand et al %Tracy L. Rand	5 Sleepy Hollow Ct. Orinda, CA 94563	

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	10,000 gals	gasoline	removed	10/28/91
2	10,000 "	diesel	"	"
3	10,000 "	"	"	"
4	10,000 "	"	"	"
5	1,000 "	motor oil	"	11/22/91
6	1,000 "	waste oil	"	"

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: corroded / improperly constructed product lines

Site characterization complete? YES

Date approved by oversight agency: 5/8/95

Monitoring Wells installed? YES Number: 3 compliance (1986)
2 extraction (1991)
4 monitoring (1992)

Proper screened interval? YES

Highest GW depth below ground surface: 2.72' Lowest depth: 7.25

Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

Flow direction: predominantly to SW

Most sensitive current use: industrial

Are drinking water wells affected? NO Aquifer name: San Leandro Cone

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 filed? **Alameda County**
1131 Harbor Bay Pkwy
Alameda CA 94502

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment or Disposal w/destination)	Date
Tank	(4 x 10K; 2 x 1K)	treatment/disposal-Erickson/ LMC Metals, Richmond, CA	10/28/91 to 11/15/91
Piping	UNK	presumed as above	
Free Product	UNK	(presumed) recycled	UNK
Soil	~ 520 yds^3	dispose - BFI landfill Livermore, CA	4/21/92 - 4/22/92
Groundwater	20,000 gals.	recycle - Gibson Pilot Redwood City, CA	11/21/91

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)[1]		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	800	490	39,000	55
TPH (Diesel)	7400	6600	92,000	10,000
Benzene	ND	ND	ND	ND
Toluene	0.38	"	190	"
Xylene	1.9	1.4	210	"
Ethylbenzene	0.31	ND	ND	"
Oil & Grease	460	550	120	NA
Heavy metals	NA	NA	NA	"
Other **HVOC**	ND[2]	"	"	"

Note:

1) "After" soil O & G conc. is from boring 3 from 5 foot depth; "After" TPH-D conc. from initial post-UST closure sample LS-2 collected below product line; all other soil sample conc. are from initial ("Before") or overexcavation ("After") UST pit bottom or sidewall samples, except where otherwise indicated.

2) Methylene chloride was detected @ a concentration of 4 ug/kg in sample 01-WO-EAST, which is below the lab reporting limit (5 ug/kg), and likely represents lab contamination.

Leaking Underground Fuel Storage Tank Program

Comments (Depth of Remediation, etc.):

Product piping associated with the 10,000 gal fuel USTs was removed September 23, 1991. UST removal activities occurred between October 28 and November 15, 1991. The motor oil UST was located within the *western*-most excavation, shared with a gasoline and diesel UST. The waste oil UST was located on the opposite side of the business offices. The remaining diesel USTs shared the *eastern*-most excavation.

According to the contractor, KTW & Associates, product piping appeared to be improperly constructed, resulting in the presence of multiple throughgoing holes and obvious leaks. Soil around the noted piping reportedly exhibited strong hydrocarbon (HC) odor and discoloration. Soil samples (3) were collected from below this piping.

Upon removal, the USTs per se were reportedly sound. At least one of the submersible pump risers (which one is unknown), however, was reportedly corroded, with holes evident; all fuel UST fill risers were reportedly corroded. The western-most excavation (formerly holding 1 x 10,000 gasoline, 1 x 10,000 diesel, and 1 x 1000 motor oil UST) reportedly exhibited strong HC odors and discolored overburden, particularly around the fill tubes of the fuel USTs.

Shallow ground water (GW) was present in both the western- and eastern-most excavations. Hence, four (4) sidewall samples were collected from each of the two large UST excavations at the GW interface @ a depth of 7' below grade (BG). Two (2) soil samples were collected from below the waste oil UST, and one (1) sample from below the motor oil UST.

Initial soil sample results revealed up to 7400 ppm TPH-D (western-most pit) and 800 ppm TPH-G (product lines). BTEX concentrations were not particularly noteworthy. Waste oil UST samples were "ND" for all targeted compounds. Only 460 ppm oil and grease was detected in the sample collected from below the motor oil UST.

Overexcavation of the eastern- and western-most UST pits ensued following receipt of the initial sample results; compliance well RTL-1 was destroyed in the process. Additional sidewall samples were collected from the resultant UST pit excavations; however, remaining soil concentrations were not appreciably reduced over those noted in initial samples. Up to 4100 ppm TPH-D, the most significant contaminant, remains in place around the *western*-most excavation. No additional excavation of the area around the product lines was reportedly performed.

Excavated soil (~ 520 yds^3) was sampled during December 1991 to determine disposal options. Based on laboratory results, the soil was transported under Bill-of-Lading to the BFI Vasco Road landfill, Livermore, CA.

Both UST pits were purged of GW prior to sampling; ~20,000 gallons were removed in the process. Up to 92,000 ug/l TPH-D, 39,000 ug/l TPH-G, 190 ug/l toluene, and 210 ug/l xylenes were noted in GW initially sampled from the western-most UST excavation. Only 1100 ug/l TPH-D was found in GW sampled from the eastern-most excavation. "Extraction" wells X1 and X2 were installed in the backfilled UST excavation during site restoration.

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? YES

Site management requirements: NA

Should corrective action be reviewed if land use changes? YES

Monitoring wells Decommisioned: NO (pending case closure)

Number Decommisioned: 1 (compliance) Number Retained: 8 (pending closure)

List enforcement actions taken: Alameda Co. District Attorney 10/1/93 notice to Rollins Leasing re: 23CCR violations

List enforcement actions rescinded: NONE - case (to be) settled

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Scott Seery Title: Sr. Haz Mat Specialist
Signature: Date: 1-30-96

Reviewed by
Name: Barney Chan Title: Haz Mat Specialist
Signature: Barney Chan Date: 2/7/96

Name: Dale Klettke Title: Haz Mat Specialist
Signature: Dale Klettke Date: 1-30-96

Leaking Underground Fuel Storage Tank Program

VI. RWQCB NOTIFICATION

Date Submitted to RB: 3-11-96 RB Response: Approved

RWQCB Staff Name: Kevin Graves Title: San. Engineering Asso. Date: 3/26/96

VII. ADDITIONAL COMMENTS, DATA, ETC.

During the installation of UST compliance monitoring wells during September 1986, 34" of free product (FP) was discovered in one of the completed wells, RTL-1. In December 1986, 29½" of FP was again noted in the same well. FP was reportedly bailed from RTL-1 periodically by Rollins personnel, and (likely) placed into the waste oil UST. No documented assessment, remediation, or repair work occurred at the site between 1/87 and 6/90 when the property was sold to O.K Intermodel. UST/piping removals occurred between 9/91 and 11/91 after O.K. took over the site.

During April 1992, twelve (12) soil borings were advanced about the site, four of which (6, 9, 10, 12) were converted later into GW monitoring wells. Up to 5200 ppm TPH-D was detected in soil from boring #3 at 5' BG, located between the office building and western-most UST pit. Up to 2500 ppm TPH-D was also noted at 2½' BG in boring #5, located adjacent to the north dispenser island. It appears from review of boring logs that GW was initially encountered at ~ 5' BG during boring advancement. Encountered lithologies are predominantly silty CLAY w/ occasional silty sandy CLAY. These data, in addition to subjective evidence noted during boring advancement (i.e., depth at which HC odors are detected) and stabilized GW levels, suggest the presence of soil contamination identified near the UST pit is a result of capillary action.

Wells 6, 9, 10, and 12 were monitored/sampled over the course of ~ 2½ years (5/92 - 10/94). Approximately one year passed between the initial and subsequent event (5/92 and 5/93). Sampling/monitoring continued quarterly thereafter. (Former) compliance well RTL-2, located next to the eastern-most fuel UST pit, and extraction wells X1 and X2 were sampled/monitored quarterly from 10/93 to 10/94, five events in total.

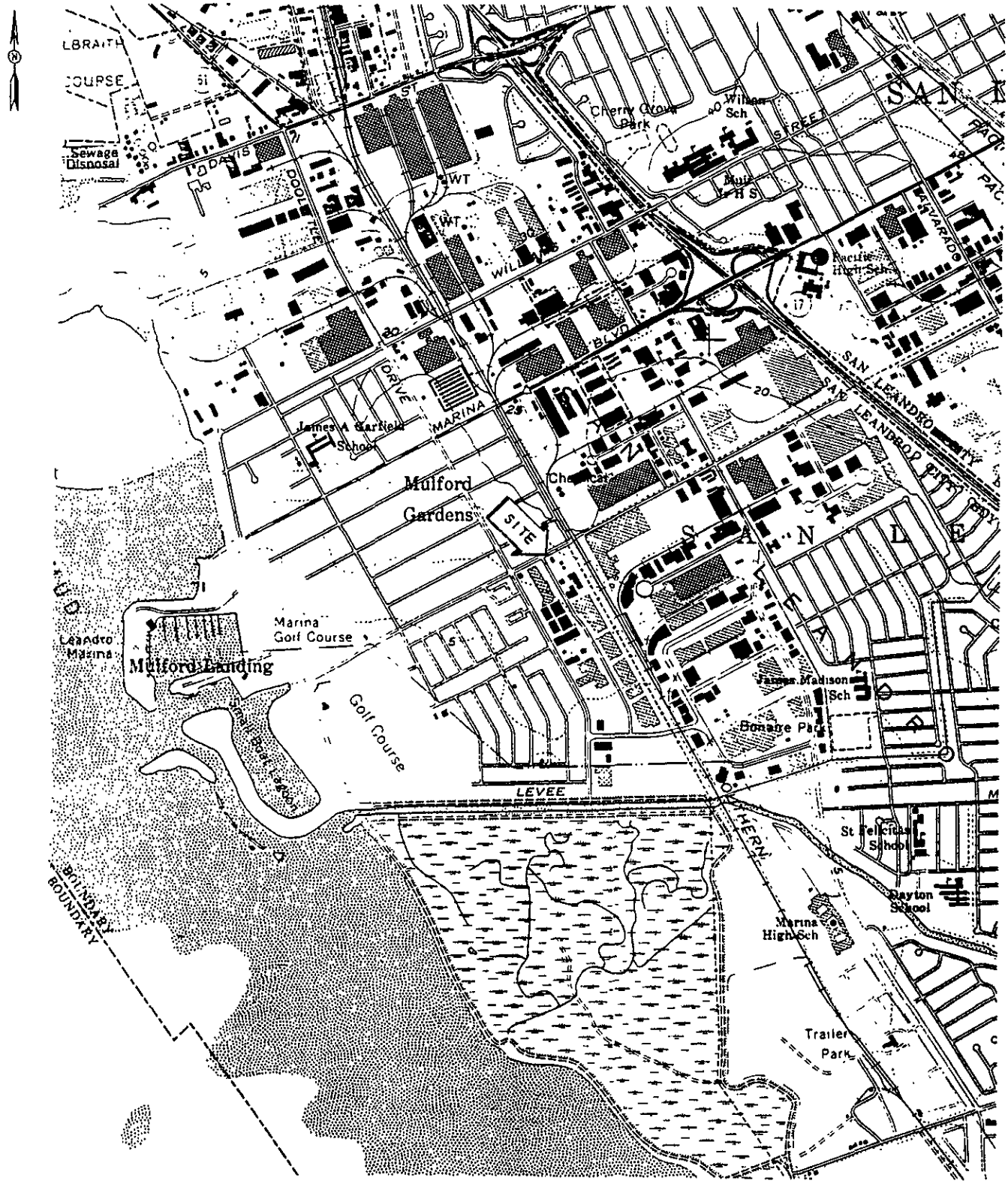
Ground water has been shown to predominantly flow towards the southwest.

Of the target compounds sought (TPH-D/-G, BTEX), only TPH as diesel has appeared in sampled GW at noteworthy concentrations. The highest historical concentrations of TPH-D have been found in GW sampled from wells affiliated with the western-most fuel UST pit, wells 6 and X1. During the last sampling event (10/94), TPH-D concentrations were 10,000 and 3200 ug/l, respectively, for wells 6 and X1. Benzene has not been detected in <u>any</u> but well 6 (1.5 ug/l), and only during the initial sampling event of 5/92. Downgradient well 12 has shown only the presence of TPH-D in sampled GW (≤ 920 ug/l) with no aromatics.

The data clearly indicate the presence of some latent soil contamination, primarily in shallow soil in the area of the former dispenser islands (boring 5,) and that encountered in borings 3 and 6 (north side of the western-most fuel UST pit), directly adjacent to the office building, but within the apparent capillary fringe. Such contamination may extend beneath the building within this capillary zone. In addition, soil contamination was encountered in boring 12, located ~ 40' SSW of the western-most UST pit, although it is unclear whether its presence is due to leaching from the adjacent storm water collection sump, or through capillary action associated with GW transport of dissolved fuel constituents.

WCM Group calculated an acceptable human health-based maximum TPH-D GW concentration of 30 mg/l, reportedly with respect to both carcinogenic and noncarcinogenic health effects. Present TPH-D levels are below this value.

FIGURES



APPROXIMATE SCALE - 1 IN. = 2000 FT.

SOURCE: USGS San Leandro Quadrangle, 1980

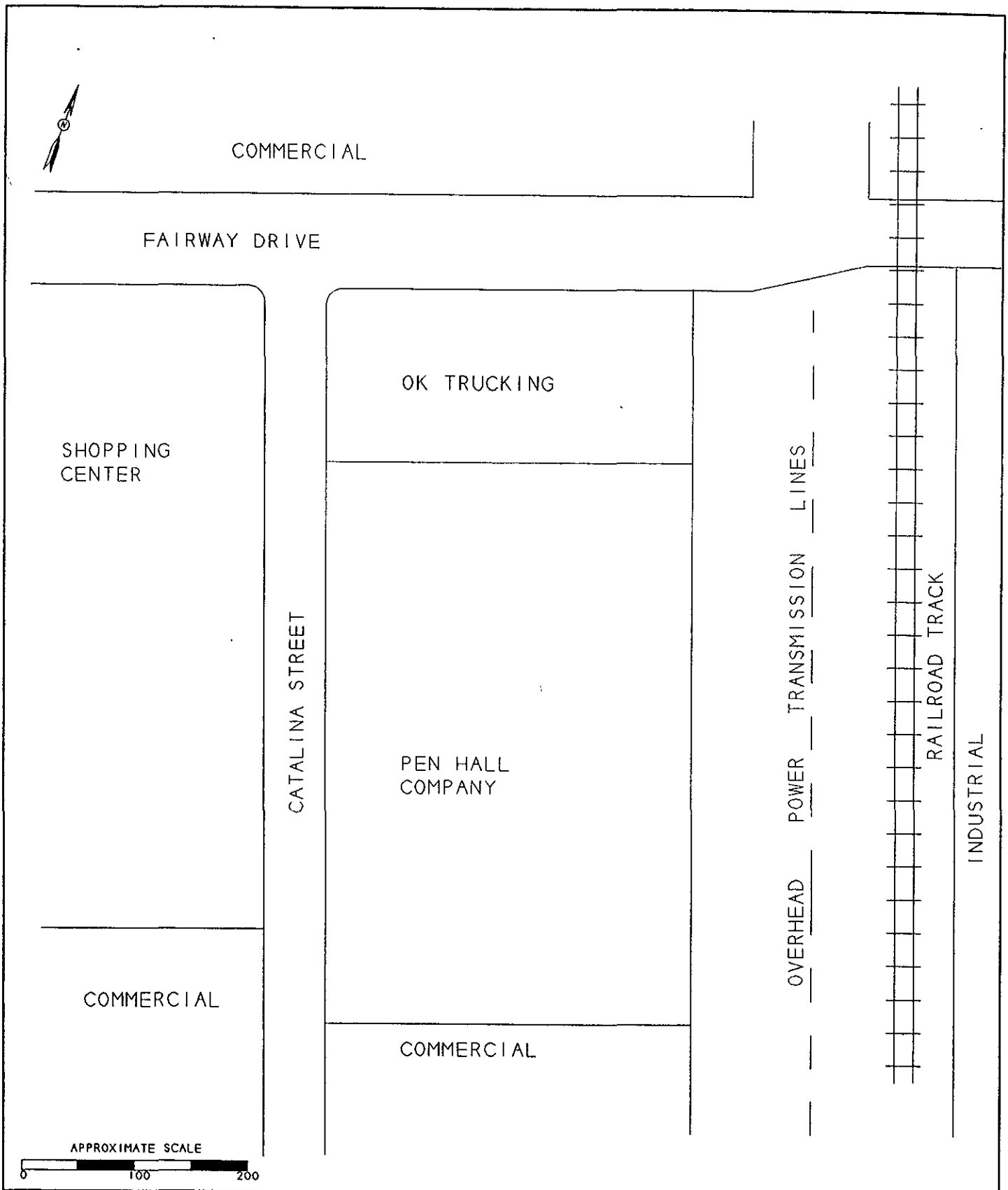
The WCM Group, Inc.

P.O. Box 3247 Humble, TX 77347

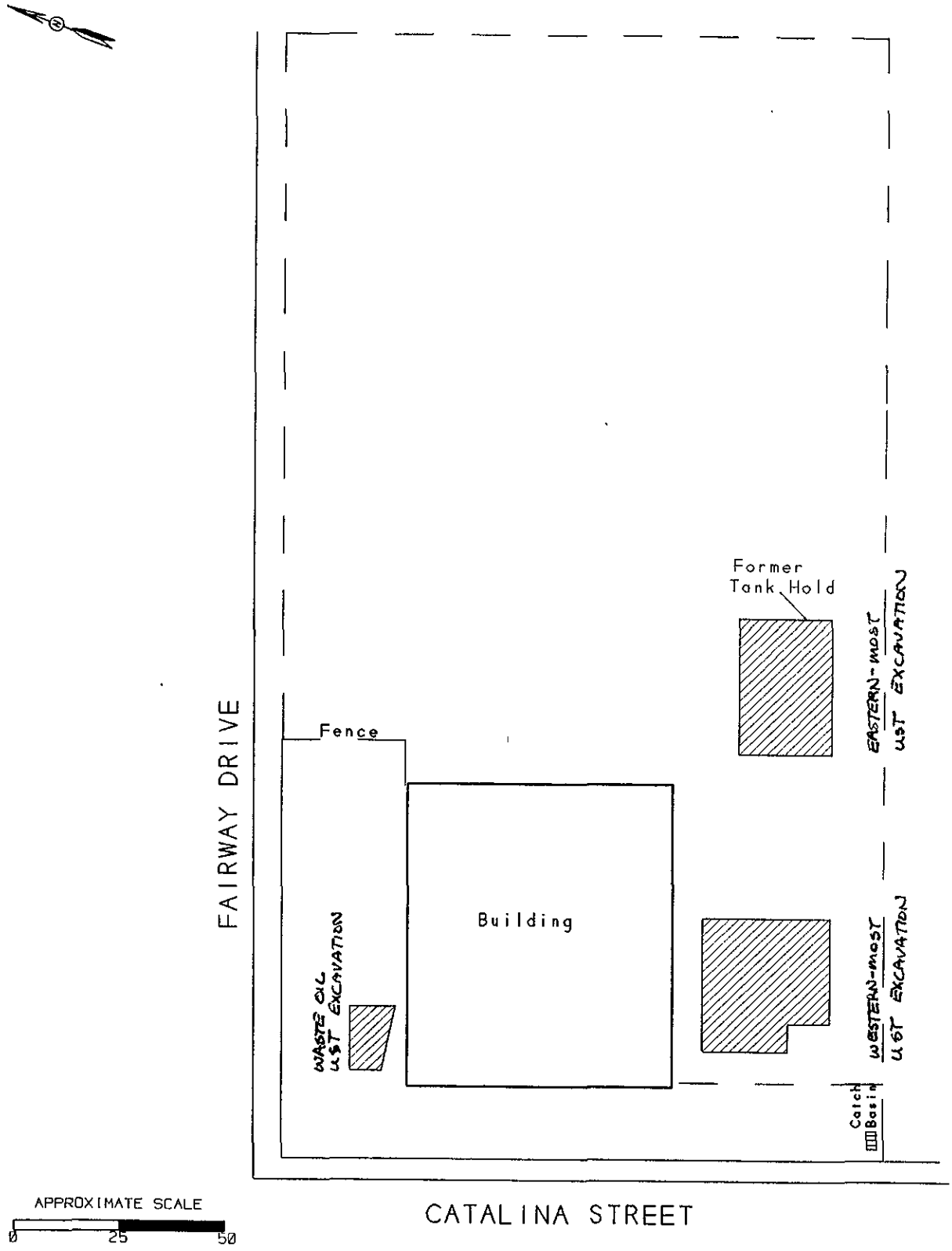
TOPOGRAPHIC MAP
OK TRUCKING
SAN LEANDRO, CALIFORINA

FIGURE 3

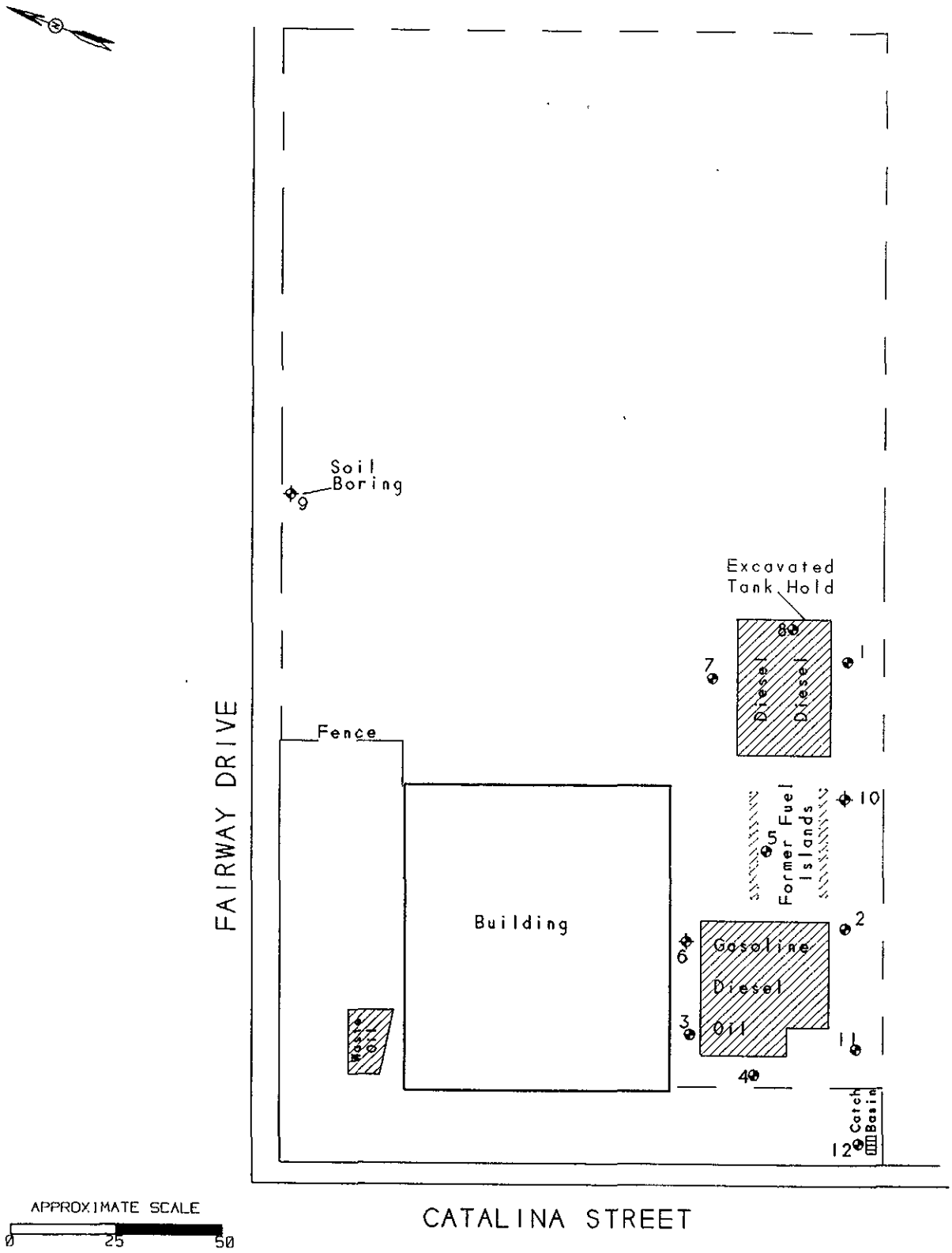
DRAWN BY	DATE	REVISED	DRAWING I D
VJW	11/11/94		RLCSAN03.GCD



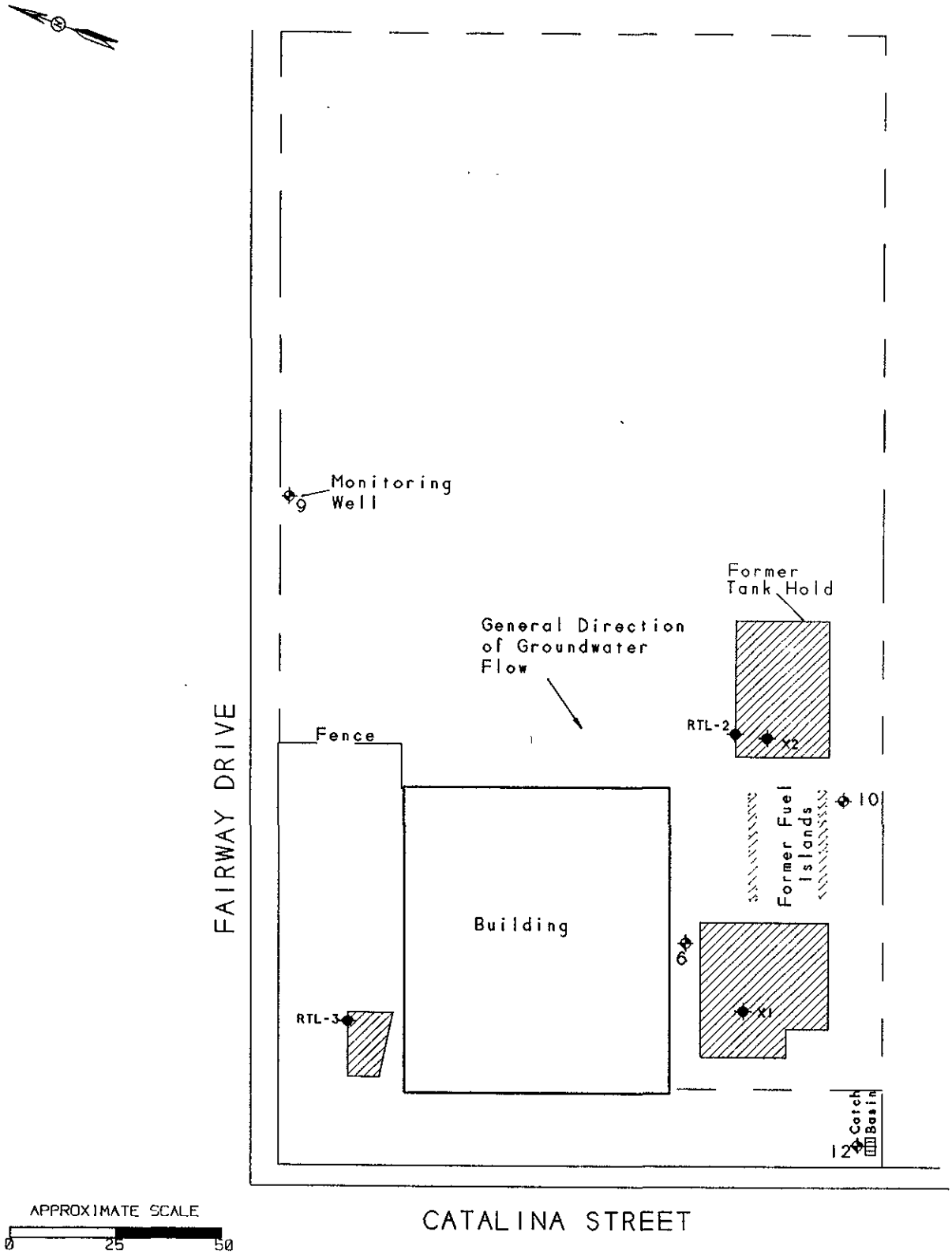
The WCM Group, Inc. P.O. Box 3247, Humble, TX 77347	ADJACENT PROPERTIES OK TRUCKING SAN LEANDRO, CALIFORINA			FIGURE 2
	DRAWN BY VJW	DATE 11/11/94	REVISED	DRAWING I D RLCSAN02.GCD



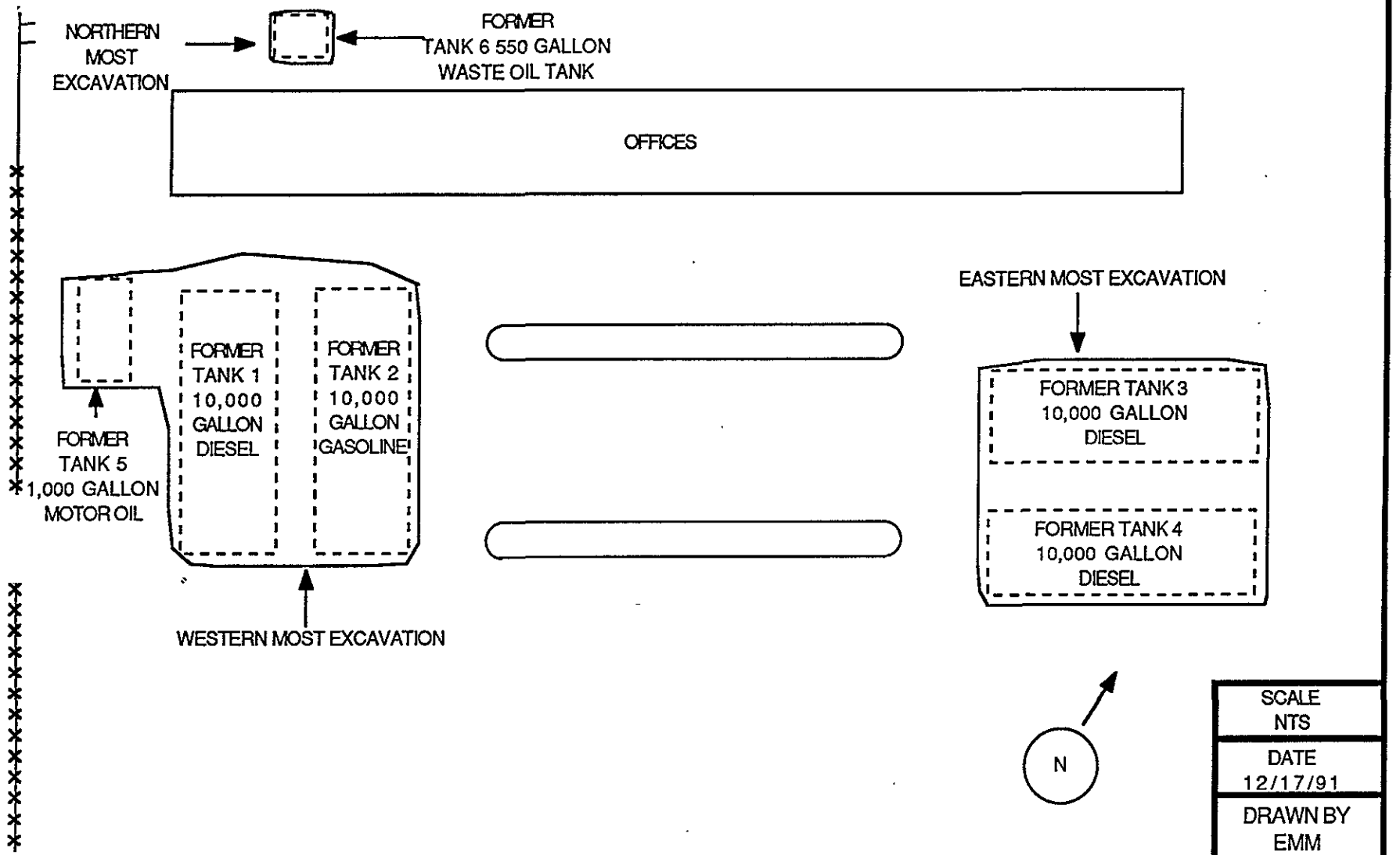
The WCM Group, Inc. P.O. Box 3247, Humble, TX 77347	SITE PLAN OK TRUCKING SAN LEANDRO, CALIFORNIA			FIGURE 1
	DRAWN BY VJW	DATE 11/11/94	REVISED	DRAWING I.D. RLCSAN01.GCD



The WCM Group, Inc. P.O. Box 3247, Humble, TX 77347	UST AND SOIL BORING LOCATIONS OK TRUCKING SAN LEANDRO, CALIFORNIA			FIGURE 4
	DRAWN BY VJW	DATE 11/11/94	REVISED	DRAWING I D RLCSAN04.GCD



The WCM Group, Inc. P.O. Box 3247, Humble, TX 77347	MONITORING WELL LOCATIONS OK TRUCKING SAN LEANDRO, CALIFORNIA			FIGURE 5
	DRAWN BY VJW	DATE 11/11/94	REVISED	DRAWING I.D RLCSAN05.GCD



SCALE	NTS
DATE	12/17/91
DRAWN BY	EMM

KTN & ASSOCIATES

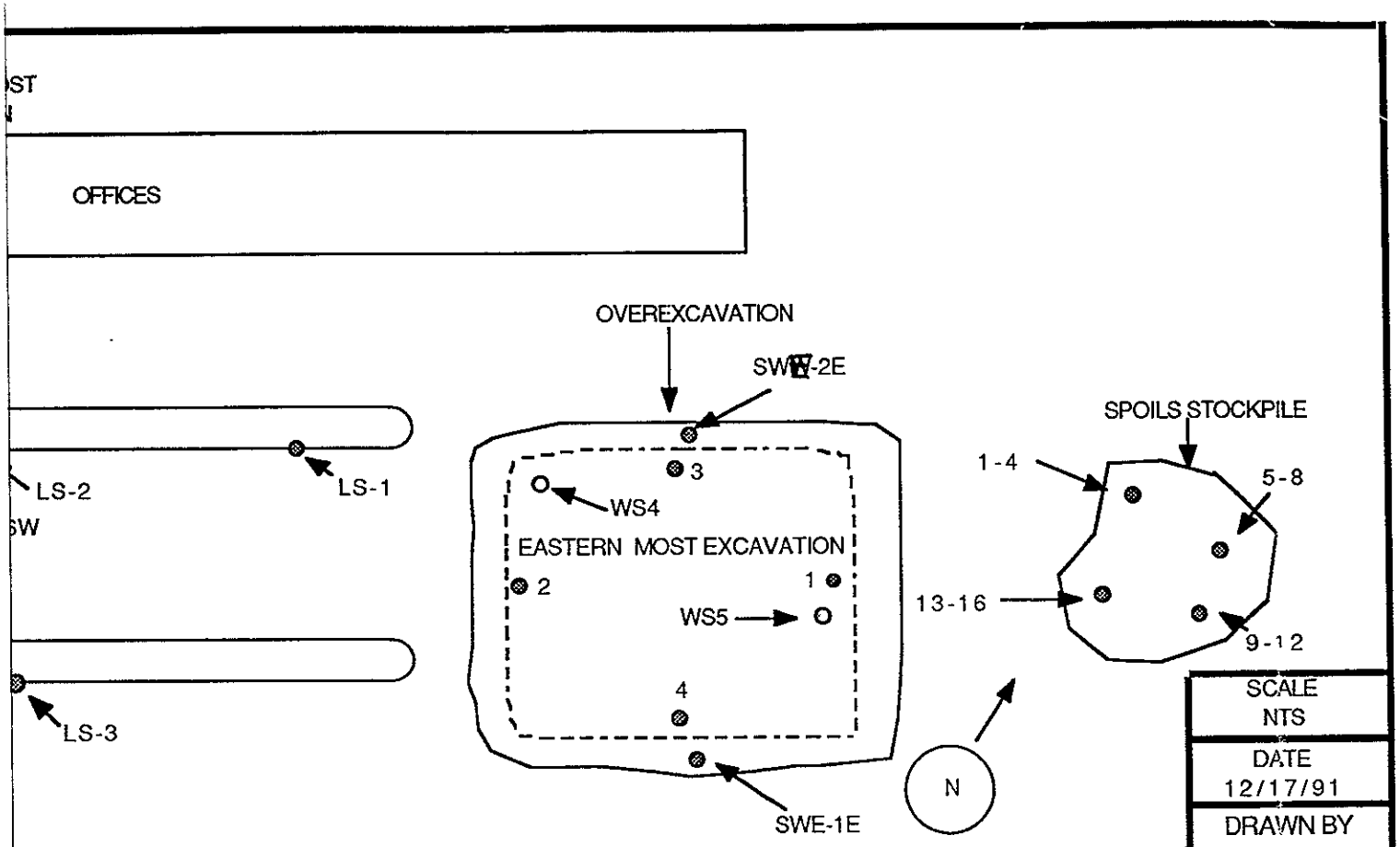
PROJECT NO.:1208 & 1214

GENERALIZED SITE MAP

O.K. Trucking
137000 Catalina
San Leandro, California

PLATE

2



LEGEND & NOTES E: WATER SAMPLES WERE EN VIA BAILER SOIL SAMPLES WATER SAMPLES	UST CLOSURE SAMPLES GENERALIZED SAMPLING MAP O.K. Trucking 137000 Catalina San Leandro, California	SCALE NTS DATE 12/17/91 DRAWN BY EMM PLATE 3

TABLES

OK TRUCKING TABLE I

UST CLOSURE SAMPLES

[redacted] ES		DATE	TPH-G	TPH-D	B	T	X	E	TOG	8240	R	C	I
LINES	LS-1	9/27/91	800	3100	N.D.	N.D.	1.9	0.31	N/A	N/A	N/A	N/A	N/A
	LS-2	9/27/91	600	6600	N.D.	N.D.	1.5	0.28	N/A	N/A	N/A	N/A	N/A
	LS-3	9/27/91	270	3200	N.D.	N.D.	0.5	N.D	N/A	N/A	N/A	N/A	N/A
EAST PIT	1	10/28/91	210	1400	N.D.	N.D.	0.48	N.D.	N/A	N/A	N/A	N/A	N/A
	2	10/28/91	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A
	3	10/28/91	380	1800	N.D.	0.38	1.2	N.D.	N/A	N/A	N/A	N/A	N/A
	4	10/28/91	4.1	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A
WEST PIT	TX2NORTH	10/30/91	280	2800	N.D.	N.D.	0.58	N.D.	N/A	N/A	N/A	N/A	N/A
	TX2SOUTH	10/30/91	580	3100	N.D.	N.D.	1.8	0.3	N/A	N/A	N/A	N/A	N/A
	TX2 EAST	10/30/91	210	1300	N.D.	N.D.	0.96	N.D.	N/A	N/A	N/A	N/A	N/A
	TX2 WEST	10/30/91	460	7400	N.D.	N.D.	0.54	N.D.	N/A	N/A	N/A	N/A	N/A
W.O. PIT	01-WO-EAST	11/15/91	N.D.	N.D.	N/A	N/A	N/A	N/A	N.D.	N.D	N/A	N/A	N/A
	02-WO-WEST	11/15/91	N.D.	N.D.	N/A	N/A	N/A	N/A	N.D.	N.D.	N/A	N/A	N/A
	03-MO-MIDDLE	11/15/91	N/A	N/A	N/A	N/A	N/A	N/A	460	N/A	N/A	N/A	N/A
MOTOR OIL PIT	SWE-1E	11/22/91	N/A	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A
EAST PIT OVEREX	SWE-2E	11/22/91	N/A	13	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A
WEST PIT OVEREX	SW-E-3W	11/22/91	240	2400	N.D.	N.D.	0.47	N.D.	N/A	N/A	N/A	N/A	N/A
	SW-W-4W	11/22/91	310	2900	N.D.	N.D.	0.43	N.D.	N/A	N/A	N/A	N/A	N/A
	SW-S-5W	11/22/91	380	3700	N.D.	N.D.	0.52	N.D.	N/A	N/A	N/A	N/A	N/A
	SW-N-6W	11/22/91	490	4100	N.D.	N.D.	1.4	N.D.	N/A	N/A	N/A	N/A	N/A
STOCKPILE	1-4	12/3/91	N/A	500	N.D.	N.D.	8.9	N.D.	N/A	N/A	NO	8.2	NO
	5-8	12/3/91	N/A	450	N.D.	N.D.	4.8	N.D.	N/A	N/A	NO	8.0	NO
	9-12	12/3/91	N/A	990	N.D.	N.D.	40	N.D.	N/A	N/A	NO	8.1	NO
	13-16	12/3/91	N/A	180	N.D.	N.D.	5.2	N.D.	N/A	N/A	NO	8.1	NO
[redacted] ER SAMPLES													
west	WS1	12/3/91	39000	N/A	N.D.	190	210	N.D.	N/A	N/A	N/A	N/A	N/A
	WS2	12/3/91	N/A	92000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	WS3	12/3/91	N/A	N/A	N/A	N/A	N/A	N/A	120	N/A	N/A	N/A	N/A
east	WS4	12/3/91	N/A	1100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	WS5	12/3/91	N.D.	N/A	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A

ABBREVIATIONS

TPH-G	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
TPH-D	TOTAL PETROLEUM HYDROCARBONS AS DIESEL
B	BENZENE
T	TOLUENE
X	XYLENES
E	ETHYLBENZENE
TOG	TOTAL OIL AND GREASE
8240	VOLATILE ORGANICS
RCI	REACTIVITY, CORROSIVITY, IGNITABILITY

NOTE: ALL SOIL SAMPLES ARE MEASURED IN PARTS PER MILLION (PPM)
ALL WATER SAMPLES ARE MEASURED IN PARTS PER BILLION (PPB)
CORROSIVITY IS IN pH BALANCE

NOTE: ALL SOIL SAMPLES ACQUIRED DURING TANK REMOVAL ACTIVITES AND OVEREXCAVATION ACTIVITIES WERE TAKEN AT THE GROUNDWATER INTERFACE (+/- 7.0 FEET)

TABLE 1

SOIL SAMPLE ANALYTICAL DATA

BORING Sample ID	TVH mg/kg	TEH mg/kg	O&G mg/kg	B ug/kg	T ug/kg	E ug/kg	X ug/kg
1 @ 4.5'	--	<1	--	<5	<5	<5	<5
1 @ 7.5'	--	410	--	<5	<5	<5	<5
1 @ 11.0'	--	<1	--	<5	<5	<5	<5
2 @ 5.0'	34	730	--	<5	<5	37	180
2 @ 9.5'	<1	26	--	<5	<5	<5	<5
3 @ 5.0'	32	5,200	550	<5	10	75	150
3 @ 7.5'	20	1,700	380	<5	<5	33	130
4 @ 4.0'	8	410	120	<5	<5	<5	30
4 @ 8.0'	<1	52	<50	<5	<5	<5	<5
5 @ 2.5'	30	2,500	--	<5	<5	<5	<5
5 @ 4.5'	13	950	--	<5	<5	15	52
5 @ 9.0'	1	38	--	<5	<5	94	100
6 @ 4.0'	9	1,100	360	<5	<5	6	14
6 @ 7.5'	25	2,000	180	<5	<5	38	260
7 @ 4.5'	--	<1	--	<5	<5	<5	<5
8 @ 8.0'	--	79	--	<5	<5	<5	<5
8 @ 11.0'	--	<1	--	<5	<5	<5	<5
10 @ 4.5'	7	380	--	<5	<5	<5	23
10 @ 10.0'	<1	1	--	<5	<5	<5	<5
11 @ 4.0'	<1	15	<50	<5	<5	<5	<5
11 @ 9.0'	<1	37	<50	<5	<5	<5	<5
12 @ 4.5'	22	1,300	230	<5	7	18	43
12 @ 7.0'	<1	80	<50	<5	<5	<5	<5

1	TVH	=	Total volatile hydrocarbons
2	TEH	=	Total extractable hydrocarbons
3	O&G	=	Oil and Grease
4	B	=	Benzene
5	T	=	Toluene
6	E	=	Ethylbenzene
7	X	=	Xylenes
8	mg/kg	=	milligrams per kilogram = parts per million = ppm
9	ug/kg	=	micrograms per kilogram = parts per billion = ppb
10	--	=	Test not performed

TABLE 2
GROUNDWATER SAMPLE ANALYTICAL DATA

WELL Sample Name	Date Sampled	TPH-Gasoline (ug/L)	TPH-Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	TDS (mg/L)
6	5/5/92	290	4,000	1.5	ND	ND	ND	780
	5/20/93	490	2,800	ND	ND	0.5	2.3	NA
	10/29/93	170	4,900	ND	ND	ND	3	980
	1/19/94	ND	6,800	ND	ND	ND	ND	NA
	4/20/94	ND	17,000	ND	ND	ND	ND	NA
	7/11/94	54*	3,100	ND	ND	ND	1.2	NA
	10/13/94	55*	10,000	ND	ND	ND	ND	NA
9	5/5/92	ND	ND	ND	ND	ND	ND	NA
	5/20/93	ND	ND	ND	ND	ND	ND	NA
	10/29/93	ND	ND	ND	ND	ND	ND	820
	1/19/94	ND	ND	ND	ND	ND	ND	250
	4/20/94	ND	ND	ND	ND	ND	ND	690
	7/11/94	ND	ND	ND	ND	ND	ND	820
	10/13/94	ND	ND	ND	ND	ND	ND	820
10	5/5/92	ND	1,200	ND	ND	ND	ND	NA
	5/20/93	50	1,900	ND	ND	ND	ND	NA
	10/29/93	ND	ND	ND	ND	ND	ND	600
	1/19/94	ND	ND	ND	ND	ND	ND	NA
	4/20/94	ND	68	ND	ND	ND	ND	NA
	7/11/94	ND	ND	ND	ND	ND	ND	NA
	10/13/94	ND	840	ND	ND	ND	ND	NA
12	5/5/92	ND	340	ND	ND	ND	ND	NA
	5/20/93	ND	920	ND	ND	ND	ND	NA
	10/29/93	ND	ND	ND	ND	ND	ND	980
	1/19/94	ND	ND	ND	ND	ND	ND	NA
	4/20/94	ND	ND	ND	ND	ND	ND	NA
	7/11/94	ND	ND	ND	ND	ND	ND	NA
	10/13/94	ND	600	ND	ND	ND	ND	NA
RTL-2	10/29/93	150	ND	ND	ND	ND	1.3	700
	1/19/94	ND	ND	ND	ND	ND	ND	NA
	4/20/94	ND	ND	ND	ND	ND	ND	NA
	7/11/94	ND	ND	ND	ND	ND	ND	NA
	10/13/94	ND	ND	ND	ND	ND	ND	NA
X1	10/29/93	82	2,900	ND	0.3	ND	ND	NA
	1/19/94	ND	2,200	ND	ND	ND	0.7	NA
	4/20/94	ND	1,600	ND	ND	ND	ND	790
	7/11/94	ND	170	ND	ND	ND	ND	860
	10/13/94	ND	3,200	ND	ND	ND	ND	1,600
X2	10/29/93	ND	ND	ND	ND	ND	ND	450
	1/19/94	ND	ND	ND	ND	ND	ND	NA
	4/20/94	ND	ND	ND	ND	ND	ND	NA
	7/11/94	ND	ND	ND	ND	ND	ND	NA
	10/13/94	ND	ND	ND	ND	ND	ND	NA

* The analytical laboratory reported that this does not match a typical gasoline pattern. Heavier hydrocarbons are present.

TABLE 3

GROUNDWATER ELEVATION DATA

Date	6	9	10	12	RTL-2	RTL-3	X1	X2
4/29/92	4.65	5.25	4.64	4.51	NA	NA	NA	NA
5/20/93	4.98	5.41	4.25	4.44	NA	NA	NA	NA
10/29/93	4.83	5.28	4.84	4.80	4.89	4.99	4.80	4.92
11/22/93	4.90	5.36	4.89	4.79	5.04	5.07	4.83	5.26
12/15/93	5.80	5.92	5.28	5.17	5.85	6.00	5.69	6.02
1/19/94	5.18	5.68	5.14	5.05	5.27	5.46	5.16	5.28
2/24/94	6.42	6.12	6.38	5.40	6.45	6.59	6.75	6.66
3/17/94	5.77	6.31	6.12	5.56	5.89	6.12	5.70	5.93
4/20/94	5.36	6.02	5.40	5.31	5.53	4.97	5.40	5.57
5/19/94	5.59	6.05	5.56	5.45	5.75	5.81	5.62	5.89
6/30/94	5.09	5.64	5.19	4.95	5.14	5.30	5.15	5.21
7/11/94	4.82	5.52	4.98	4.88	5.07	5.22	4.92	5.12
8/15/94	4.80	5.28	4.68	4.74	4.88	4.99	4.80	4.91
9/20/94	4.70	5.14	4.67	4.54	4.74	4.86	4.67	4.76
10/13/94	4.69	5.13	4.67	4.60	4.75	4.84	4.68	4.79

NGVD - National Geodetic Vertical Datum
NA - Not available

TABLE 7

Domestic Water Supply Wells Within a 1-Mile Radius

Direction From Site	Distance From Site (Feet)	Address	Diameter (Inches)	Depth (Feet)	Date Drilled
SW	~1,300	2320 W. 136th Avenue	10	69	Unknown
WSW	~2,200	13640 Aurora Drive	6	55	Nov. 1950
WSW	~2,200	13505 Aurora Drive	20	210	Unknown
WSW	~2,200	13516 Aurora Drive	6	100	Unknown
WSW	~3,200	2662 W. 133rd Avenue	Unknown	56	Unknown

ATTACHMENT A

SCI's SOIL BORING LOGS

LOG OF TEST BORING 1

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/21/92
ELEVATION --

LABORATORY TESTS	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
				0			CONCRETE SLAB - 6" thick
							RED BROWN CLAYEY SAND (SC) medium dense, moist (fill)
			5			9	MOTTLED BROWN SILTY CLAY (CL) medium stiff, moist, with some lenses of clayey sand
			5	5		9"	color change to olive gray below 5 feet
			6			9"	
			40			15"	moderately strong petroleum odor from 7 to 9 feet
			20				
			3			13"	
				10			
			3			15"	Boring backfilled with grout before a stabilized groundwater level was recorded.
				15			

SAMPLER TYPES:
MODIFIED CALIFORNIA DRIVE
O.D.: 3.0 inches
I.D.: 2.5 inches
*CALIFORNIA DRIVE
O.D.: 2.5 inches
I.D.: 2.0 inches

HAMMER WEIGHT: 140 pounds
HAMMER DROP: 30 inches

LOG OF TEST BORING 2

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/21/92
ELEVATION --

LABORATORY TESTS	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
				0			CONCRETE SLAB - 6" thick
							RED BROWN CLAYEY SAND (SC) medium dense, moist (fill)
			10			10	GRAY SILTY CLAY (CL) medium stiff, moist
			220	5		12"	color change to olive gray below 4 feet
			65			16"	moderately strong petroleum odor from 4 to 8 feet
				10		12"	
						14	MOTTLED LIGHT BROWN GRAY SILTY CLAY (CL) medium stiff, moist
				15			Boring backfilled with grout before a stabilized groundwater level was recorded.

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	JOB NUMBER	DATE	APPROVED	5
	447.031	4/29/92		

LOG OF TEST BORING 3

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/21/92
ELEVATION - -

LABORATORY TESTS	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
				0			CONCRETE SLAB - 6" thick
							RED BROWN CLAYEY SAND (SC) medium dense, moist (fill)
			300			9	MOTTLED BROWN GRAY SILTY CLAY (CL) medium stiff, moist (fill)
			500	5		8"	GRAY CLAYEY SANDY SILT (ML) medium stiff, moist
			250				OLIVE GRAY SILTY CLAY (CL) medium stiff, moist
			90			15	moderate petroleum odor from 5 to 7 feet
							slight petroleum odor at 8 feet
			20	10		13"	Boring backfilled with grout before a stabilized groundwater level was recorded.
				15			

LOG OF TEST BORING 4

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/21/92
ELEVATION - -

LABORATORY TESTS	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
				0			CONCRETE SLAB - 6" thick
						16"	RED BROWN CLAYEY SAND (SC) medium dense, moist (fill)
			380			20	MOTTLED BROWN GRAY SILTY CLAY (CL) medium stiff, moist
				5 ▼		10"	Groundwater level during drilling
			140				color change to olive gray below 4 feet
							moderate petroleum odor at 5 feet
			35			15	
			10	10		20"	
							MOTTLED LIGHT BROWN SILTY CLAY (CL) medium stiff, moist
			9			15	Boring backfilled with grout before a stabilized groundwater level was recorded.
				15			

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JOB NUMBER 447.031 | DATE 4/29/92 | APPROVED

PLATE 6

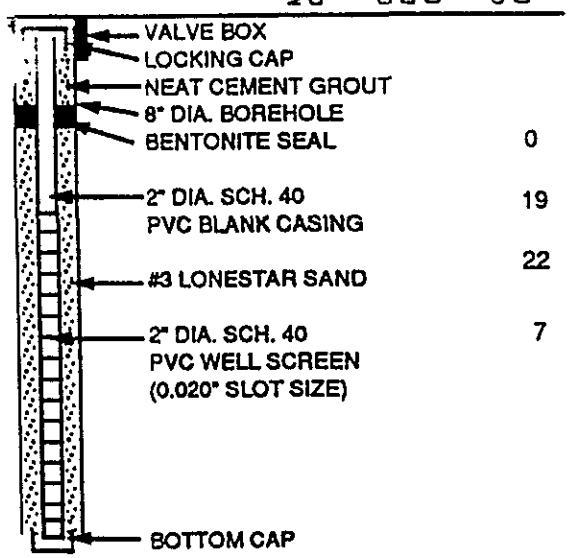
LOG OF TEST BORING 5

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/21/92
ELEVATION - -

LABORATORY TESTS	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
				0			BROWN SILTY GRAVEL (GM) loose, moist (fill)
			1200			7	RED BROWN CLAYEY SAND (SC) medium dense, moist (fill)
			390	5		13"	OLIVE GRAY SILTY CLAY (CL) medium stiff, moist strong petroleum odor from 2 to 6 feet
						17	
			50			15	
				10			MOTTLED LIGHT BROWN SILTY CLAY (CL) medium stiff, moist
			3			14"	Boring backfilled with grout before a stabilized groundwater level was recorded.
				15			

LOG OF TEST BORING 6

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/22/92
ELEVATION 9.98 feet*



MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
			0			CONCRETE SLAB - 6" thick
						RED BROWN CLAYEY SAND (SC) medium dense, moist (fill)
		0			13	MOTTLED BROWN GRAY SILTY CLAY (CL) medium stiff, moist
		19			11"	color change to olive green below 4 feet
			5			GROUNDWATER LEVEL 4/29/92
		22			10"	SILTY SAND layer from 4 to 5 feet moderate petroleum odor from 4 to 6 feet
		7			16	
			10			slight petroleum odor from 7 to 9 feet
					16"	
						LIGHT BROWN SILTY CLAY (CL) medium stiff, moist
			15		8"	

*Elevation referenced to City of San Leandro benchmark in street, elevation 10.36 NGSVD Datum.

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JOB NUMBER 447.031 | DATE 4/29/92 | APPROVED

PLATE 7

LOG OF TEST BORING 7

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/22/92
ELEVATION - -

LABORATORY TESTS	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
				0			ASPHALT CONCRETE -3 inches thick RED BROWN CLAYEY SAND (SC) medium dense, moist (fill)
						6	
			0	5		5"	LIGHT BROWN BROWN SILTY CLAY(CL) medium stiff, moist MOTTLED GRAY BROWN SILTY CLAY (CL)
			0			9"	medium stiff, moist
							OLIVE GRAY SILTY CLAY (CL) medium stiff, moist
			0	10		18"	
				15			Boring backfilled with grout before a stabilized groundwater level was recorded.

LOG OF TEST BORING 8

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/22/92
ELEVATION - -

LABORATORY TESTS	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
				0			MOTTLED BROWN CLAYEY SAND (SC) loose, moist, fill
			0			10	BROWN SILTY SAND (SM) medium dense, moist (fill)
				5		11"	MOTTLED GRAY BROWN SILTY CLAY (CL) medium stiff, moist color change to olive gray below 6 feet
			0			14"	moderate petroleum odor from 7 to 8 feet
			0	10		13"	
				15			Boring backfilled with grout before a stabilized groundwater level was recorded.

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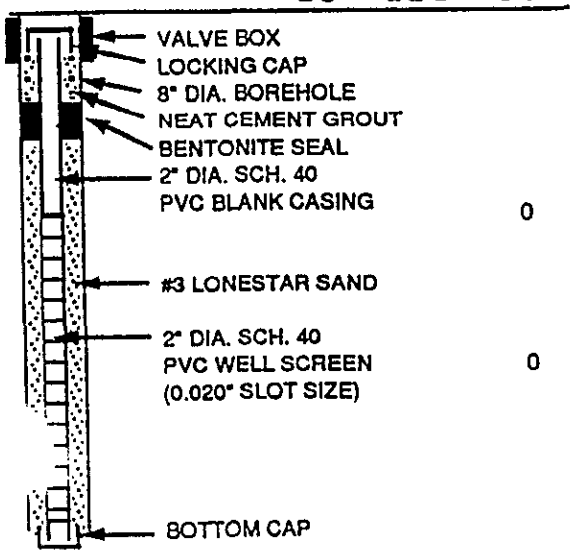
JOB NUMBER DATE APPROVED

PLATE 8

LOG OF TEST BORING 9

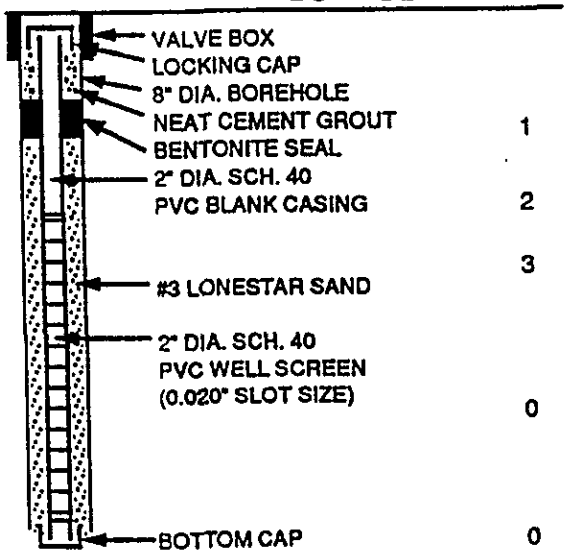
EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/22/92
ELEVATION 12.38 feet*



MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
			0			ASPHALT CONCRETE - 3 inches thick
						RED BROWN CLAYEY SAND (SC)
						medium dense, moist (fill)
					27"	OLIVE GRAY SILTY CLAY (CL)
						medium stiff, moist (fill)
		0	5		9"	BROWN SILTY CLAY (CL)
						medium stiff, moist
						GROUNDWATER LEVEL 4/29/92
					14"	
		0				
			10			OLIVE GRAY SILTY CLAY (CL)
						medium stiff, moist
					16"	
			15			

LOG OF TEST BORING 10

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/23/92
ELEVATION 9.77 feet*



MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
			0			CONCRETE SLAB - 6 inches thick
						GRAY BROWN CLAYEY SAND (SC)
		1				medium dense, moist (fill)
					13"	MOTTLED GRAY BROWN SILTY SANDY
						CLAY (CL)
		2	5		11"	medium stiff, moist (fill)
						GROUNDWATER LEVEL 4/29/92
		3			push	OLIVE GRAY SILTY CLAY (CL)
						medium stiff, moist
						moderate petroleum odor from 4 to 8 feet
		0	10		push	
						MOTTLED LIGHT BROWN SILTY CLAY (CL)
						medium stiff, moist
		0			push	
			15			

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JOB NUMBER DATE APPROVED

PLATE 9

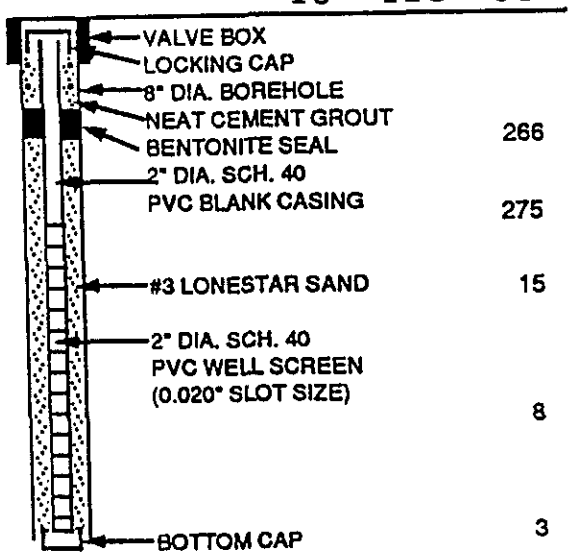
LOG OF TEST BORING 11

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/23/92
ELEVATION - -

LABORATORY TESTS	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
				0			CONCRETE SLAB - 6 inches thick
			12			13	GRAY BROWN CLAYEY SAND (SC) medium dense, moist (fill)
			315	5		10"	MOTTLED GRAY BROWN SILTY SANDY CLAY (CL) medium stiff, moist (fill)
			3			13"	OLIVE GRAY SILTY CLAY (CL) medium stiff, moist moderate petroleum odor from 4 to 8 feet
			5	10		17"	MOTTLED LIGHT BROWN SILTY CLAY (CL) medium stiff, moist
			15			6"	Boring backfilled with grout before a stabilized groundwater level was recorded.
				15			

LOG OF TEST BORING 12

EQUIPMENT 8" Hollow Stem Auger
DATE DRILLED 4/24/92
ELEVATION 8.28 feet*



MOISTURE CONTENT (%)	DRY DENSITY (PCF)	OVM (PPM)	DEPTH (FEET)	SAMPLE	BLOWS PER FOOT	
			0			CONCRETE SLAB - 6 inches thick
		266			9	RED BROWN CLAYEY SAND (SC) medium dense, moist (fill)
		275	5		18	MOTTLED GRAY BROWN SILTY SANDY CLAY (CL) medium stiff, moist (fill)
		15			18	GROUNDWATER LEVEL 4/29/92 OLIVE GRAY SILTY CLAY (CL) medium stiff, moist moderate petroleum odor
		8	10		15	
		3			10	LIGHT BROWN SILTY CLAY (CL) medium stiff, moist
			15			

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13700 CATALINA STREET - SAN LEANDRO, CA

JOB NUMBER DATE APPROVED

PLATE 10

GENERAL SOIL CATEGORIES			SYMBOLS	TYPICAL SOIL TYPES
COARSE GRAINED SOILS More than half is larger than No. 200 selve	GRAVEL More than half coarse fraction is larger than No. 4 selve size	Clean Gravel with little or no fines	GW	Well Graded Gravel, Gravel-Sand Mixtures
			GP	Poorly Graded Gravel, Gravel-Sand Mixtures
		Gravel with more than 12% fines	GM	Silty Gravel, Poorly Graded Gravel-Sand-Silt Mixtures
			GC	Clayey Gravel, Poorly Graded Gravel-Sand-Clay Mixtures
	SAND More than half coarse fraction is smaller than No. 4 selve size	Clean Sand with little or no fines	SW	Well Graded Sand, Gravelly Sand
			SP	Poorly Graded Sand, Gravelly Sand
		Sand with more than 12% fines	SM	Silty Sand, Poorly Graded Sand-Silt Mixtures
			SC	Clayey Sand, Poorly Graded Sand-Clay Mixtures
FINE GRAINED SOILS More than half is smaller than No. 200 selve	SILT AND CLAY Liquid Limit Less than 50%		ML	Inorganic Silt and Very Fine Sand, Rock Flour, Silty or Clayey Fine Sand, or Clayey Silt with Slight Plasticity
			CL	Inorganic Clay of Low to Medium Plasticity, Gravelly Clay, Sandy Clay, Silty Clay, Lean Clay
			OL	Organic Clay and Organic Silty Clay of Low Plasticity
	SILT AND CLAY Liquid Limit Greater than 50%		MH	Inorganic Silt, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silt
			CH	Inorganic Clay of High Plasticity, Fat Clay
			OH	Organic Clay of Medium to High Plasticity, Organic Silt
HIGHLY ORGANIC SOILS			PT	Peat and Other Highly Organic Soils

UNIFIED SOIL CLASSIFICATION SYSTEM

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13700 CATALINA STREET - SAN LEANDRO, CA

JOB NUMBER 447.001 DATE 5/22/02 APPROVED

PLATE 11

ATTACHMENT B

HISTORICAL GROUNDWATER CONTOUR MAPS

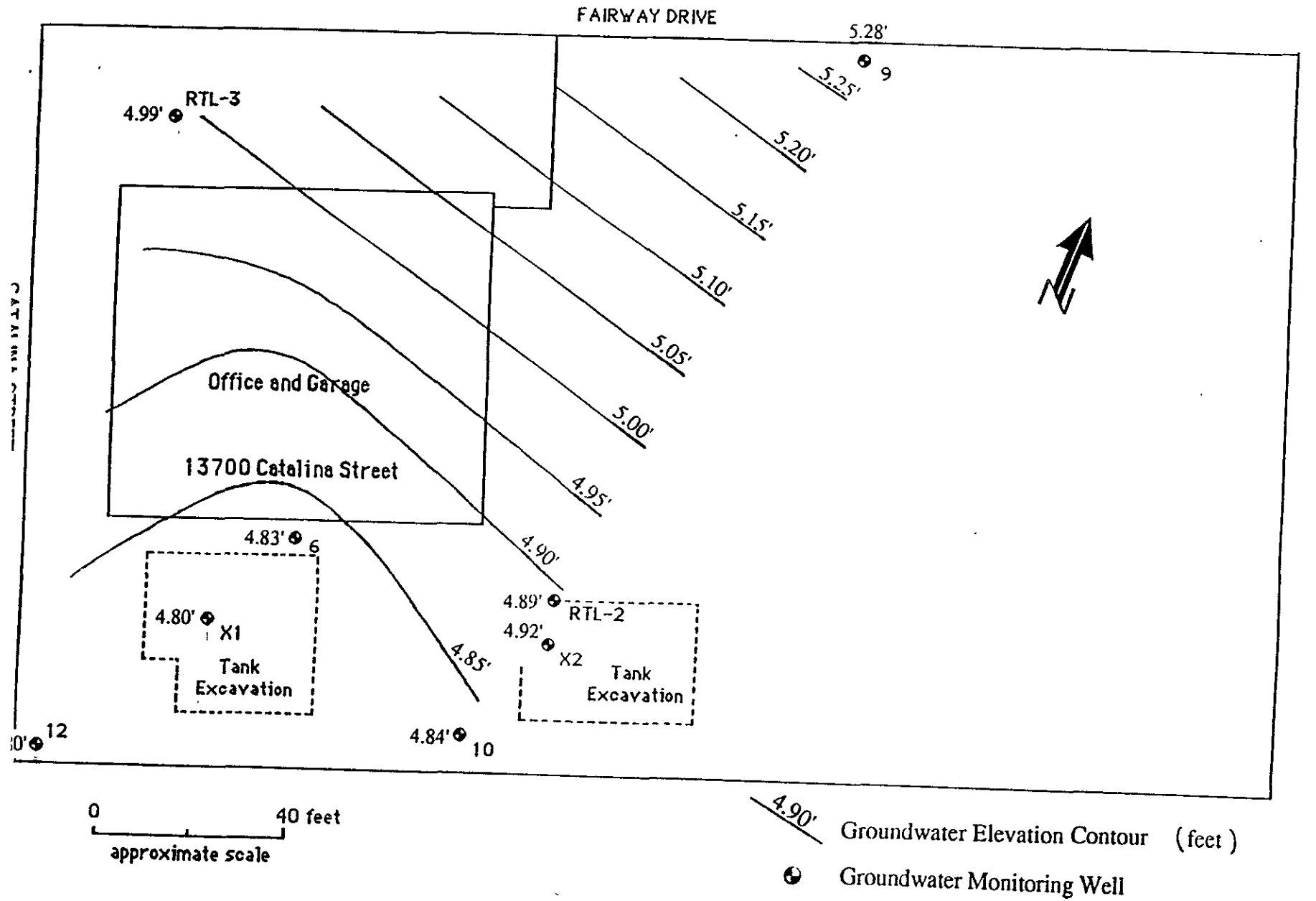

Figure 2. POTENTIOMETRIC SURFACE - 10/29/93
13700 Catalina Street, San Leandro, California

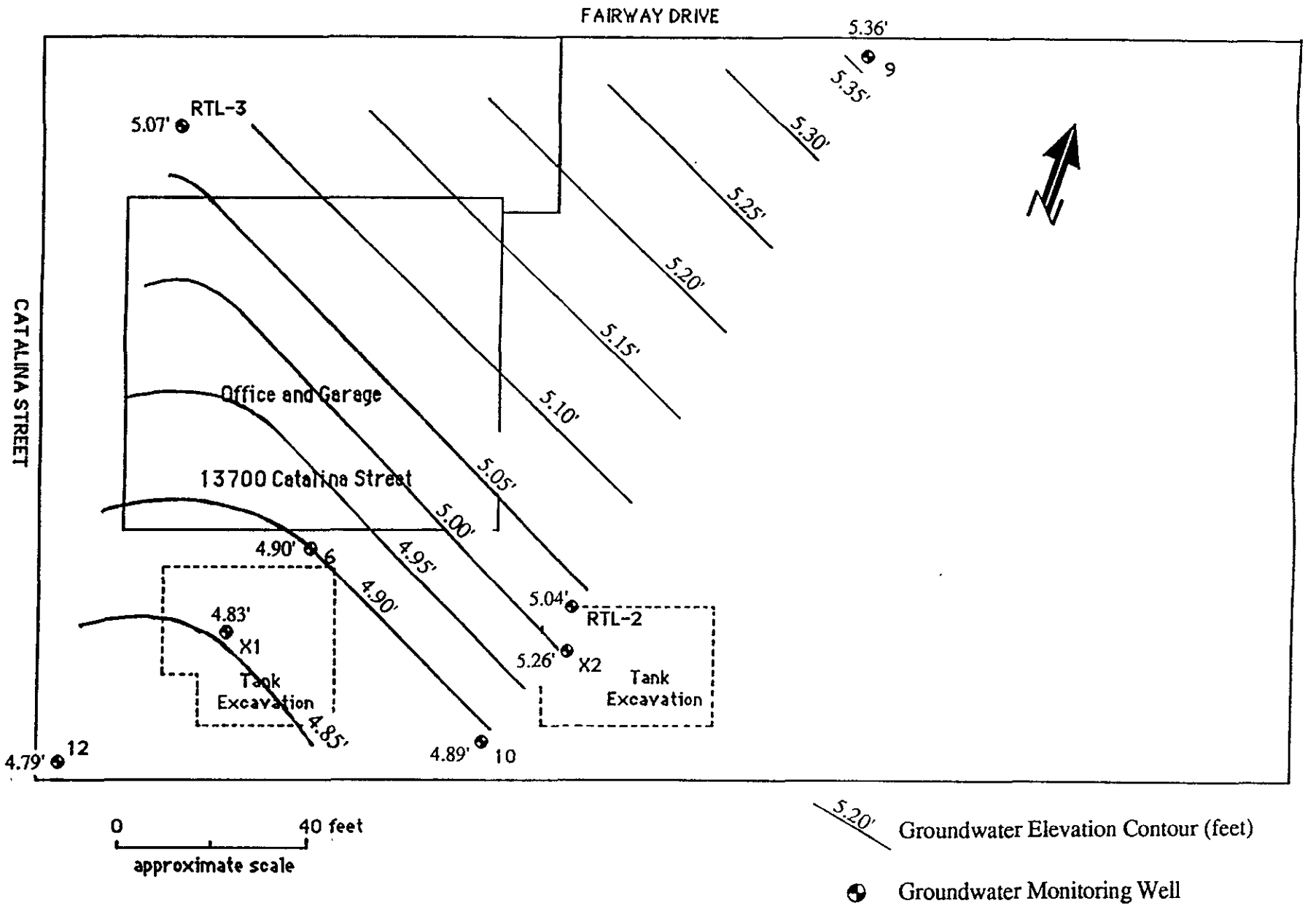

Figure 2. POTENTIOMETRIC SURFACE - 11/22/93
13700 Catalina Street, San Leandro, California

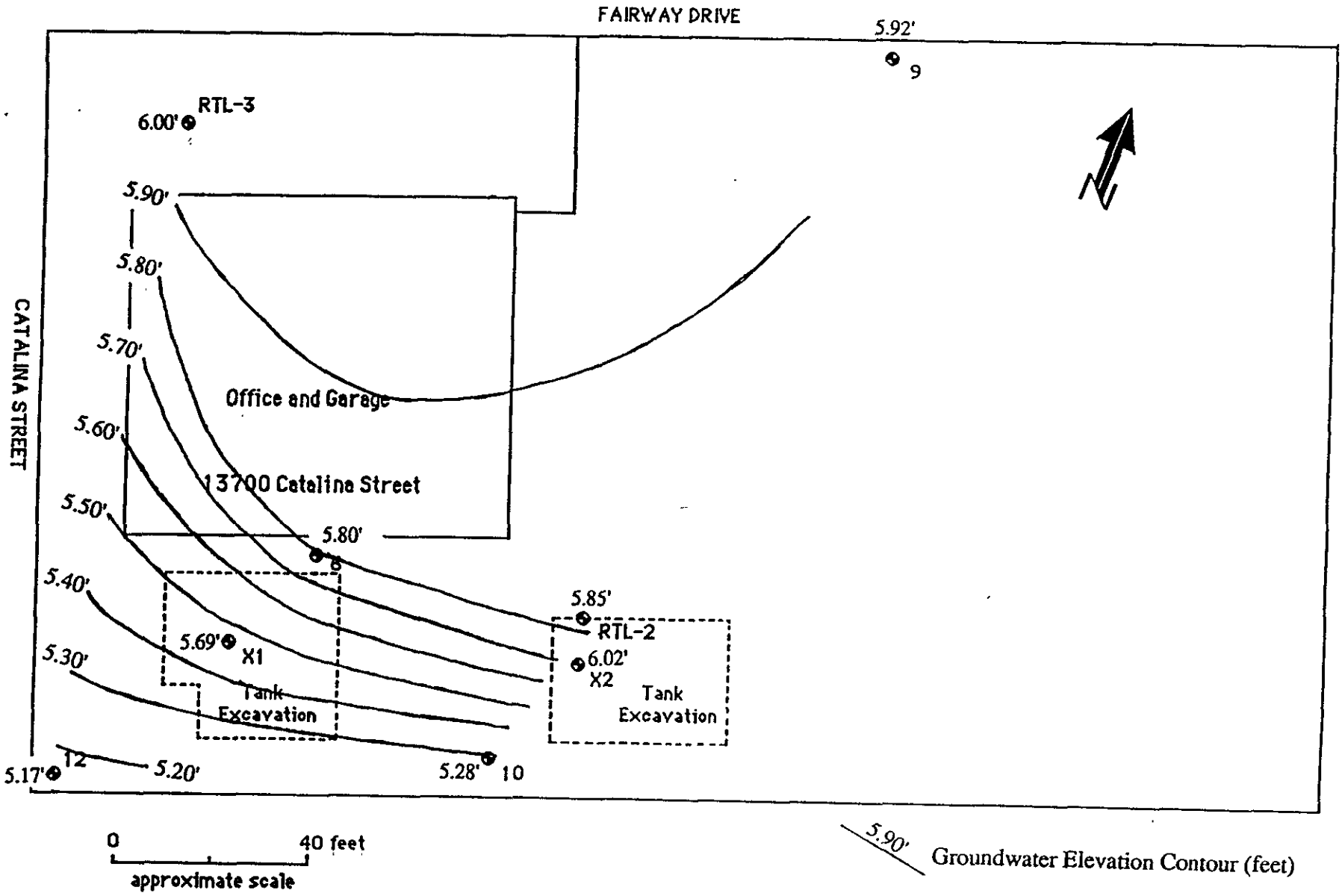

Figure 3. POTENTIOMETRIC SURFACE - 12/15/93
13700 Catalina Street, San Leandro, California

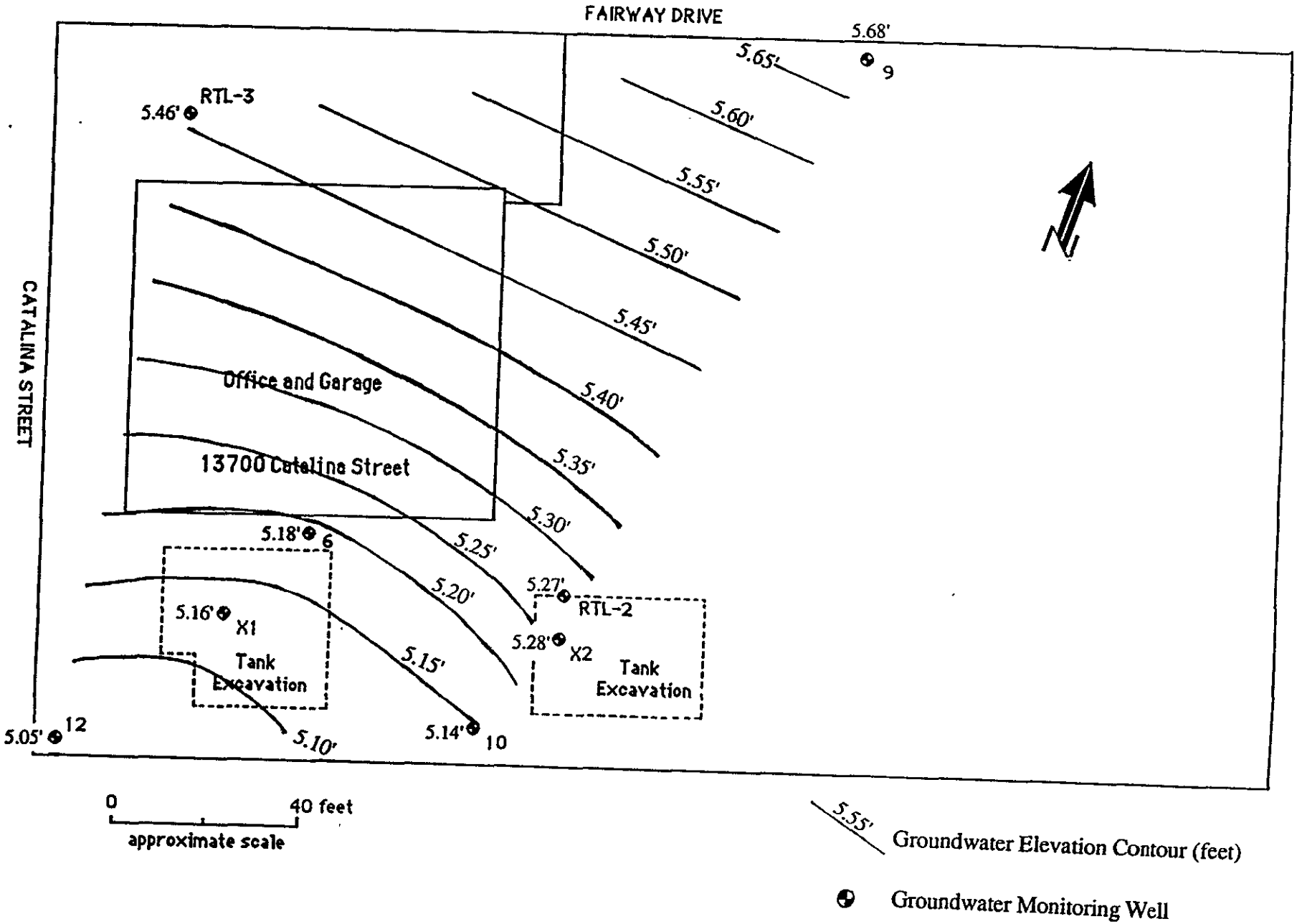

Figure 4. POTENTIOMETRIC SURFACE - 1/19/94
13700 Catalina Street, San Leandro, California

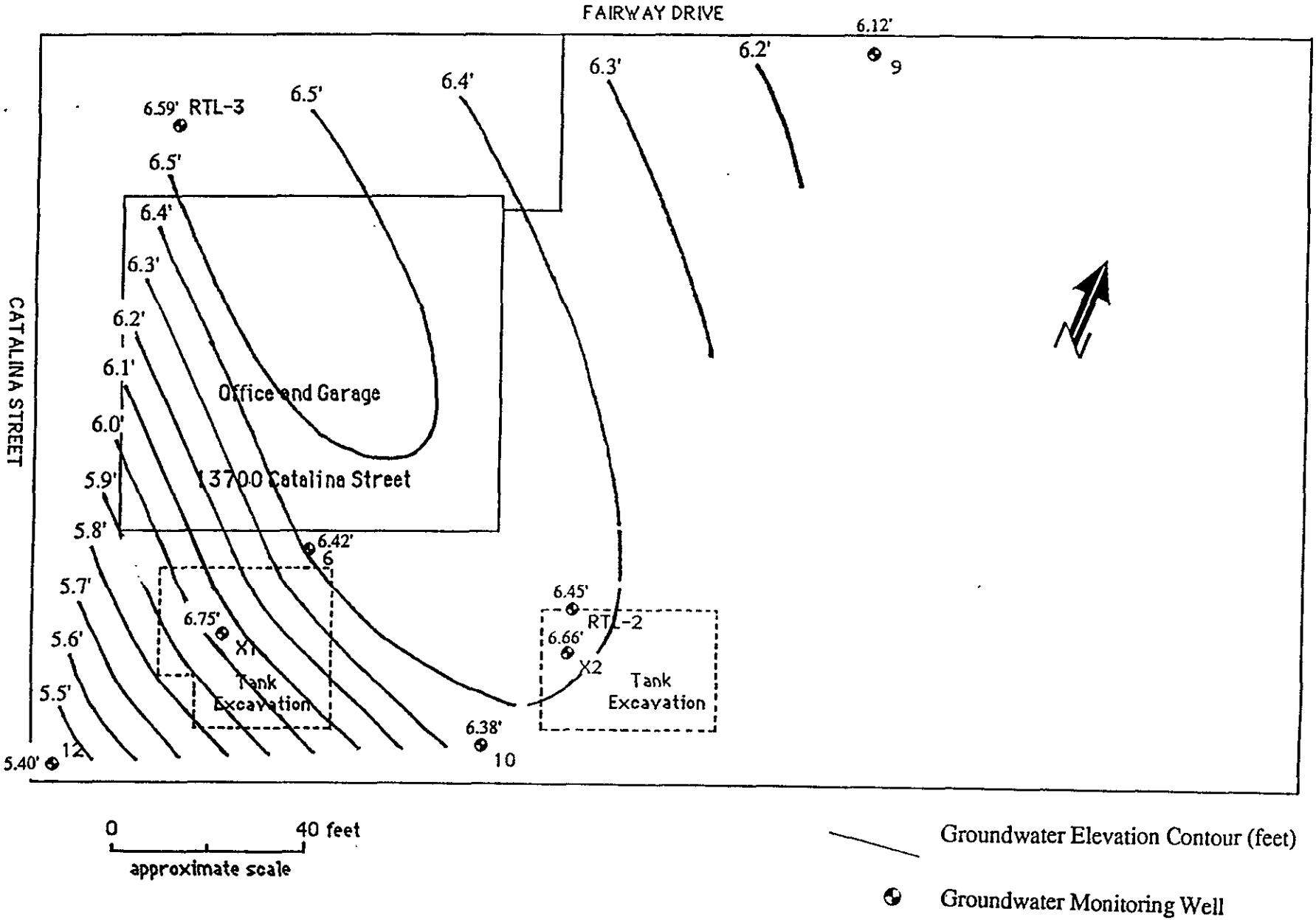

Figure 2. POTENTIOMETRIC SURFACE - 2/24/94
13700 Catalina Street, San Leandro, California

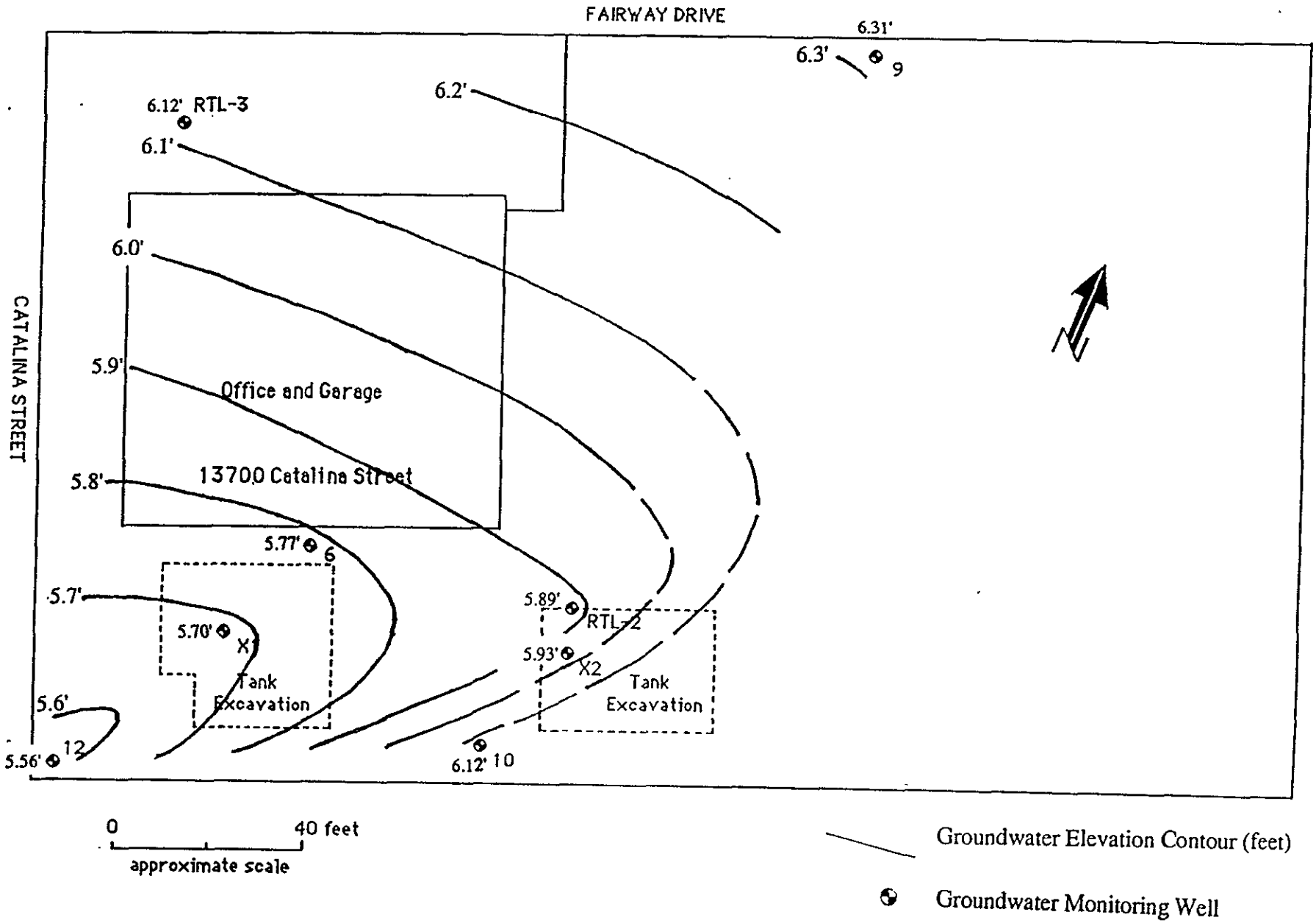

Figure 3. POTENTIOMETRIC SURFACE - 3/17/94
13700 Catalina Street, San Leandro, California

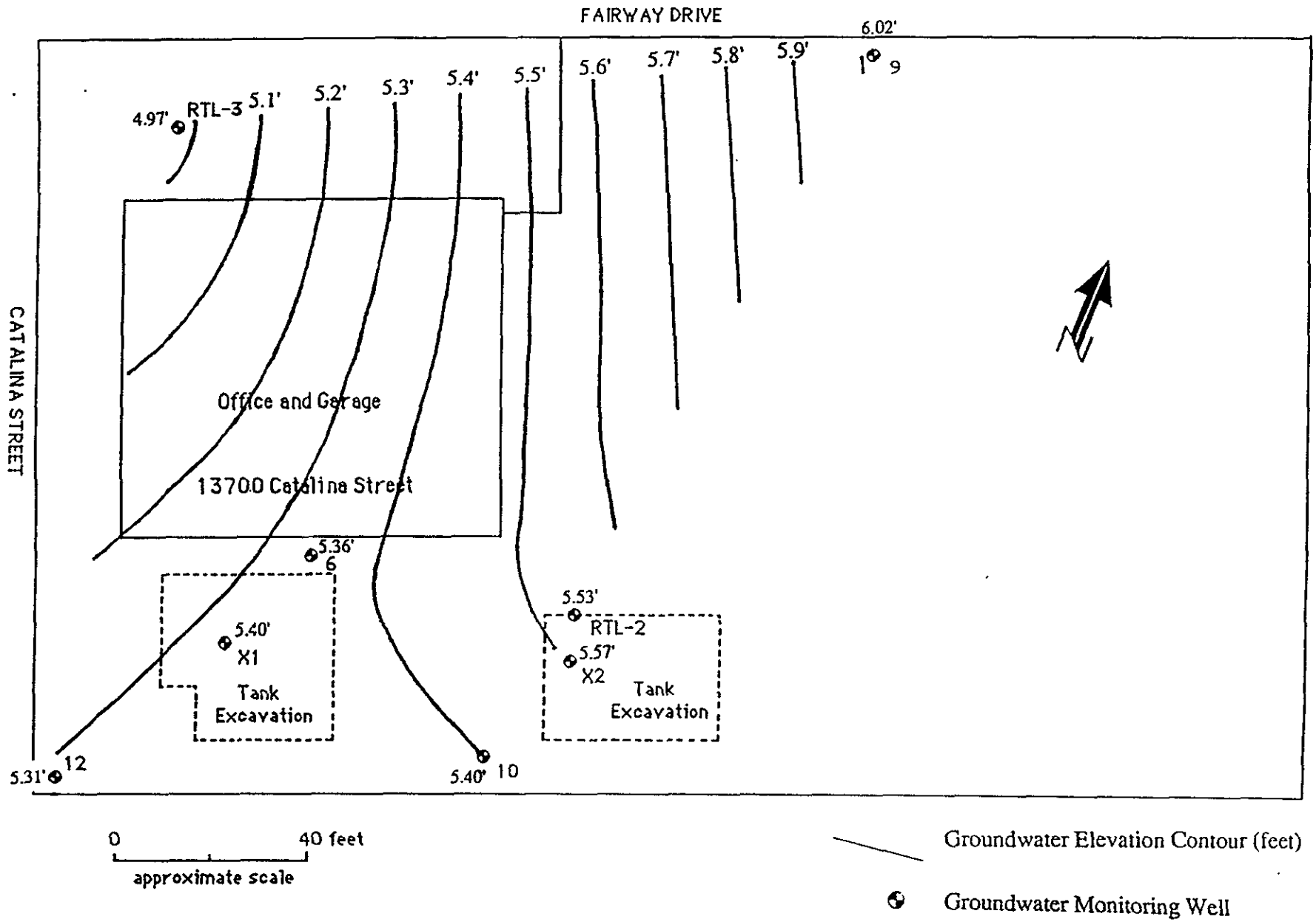

Figure 4. POTENTIOMETRIC SURFACE - 4/20/94
13700 Catalina Street, San Leandro, California

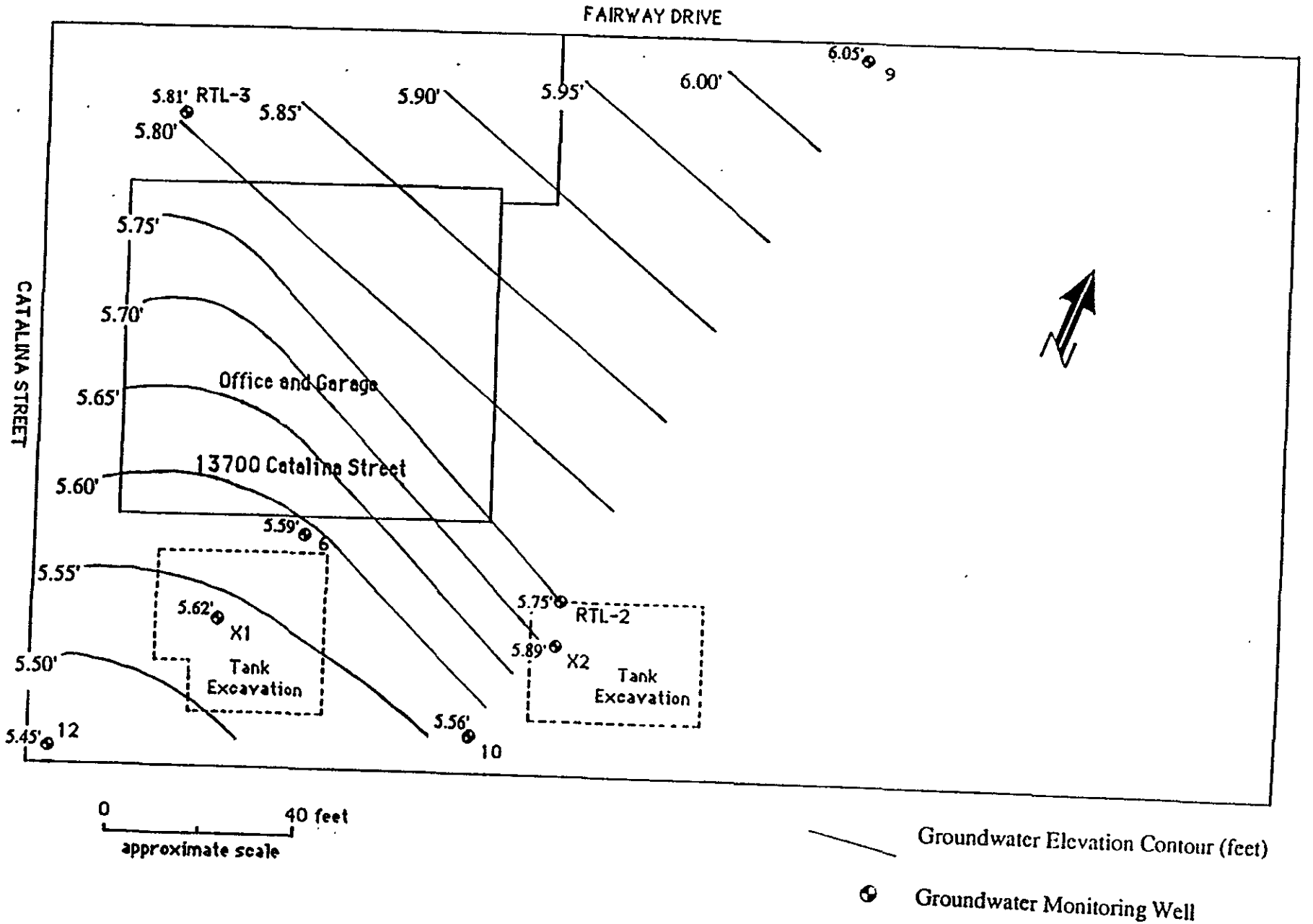

Figure 2. POTENTIOMETRIC SURFACE - 5/19/94
13700 Catalina Street, San Leandro, California

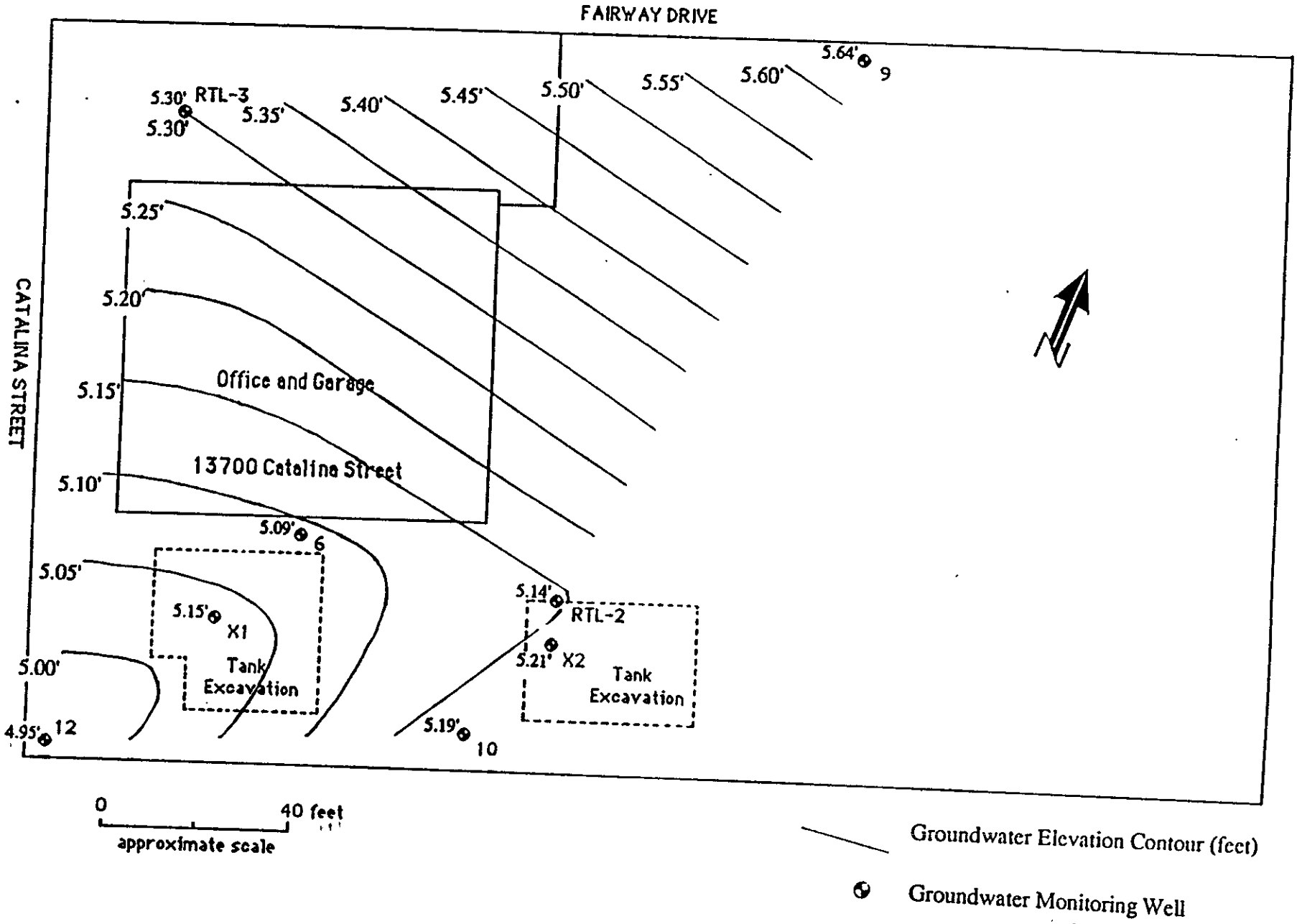

Figure 3. POTENTIOMETRIC SURFACE - 6/30/94
13700 Catalina Street, San Leandro, California

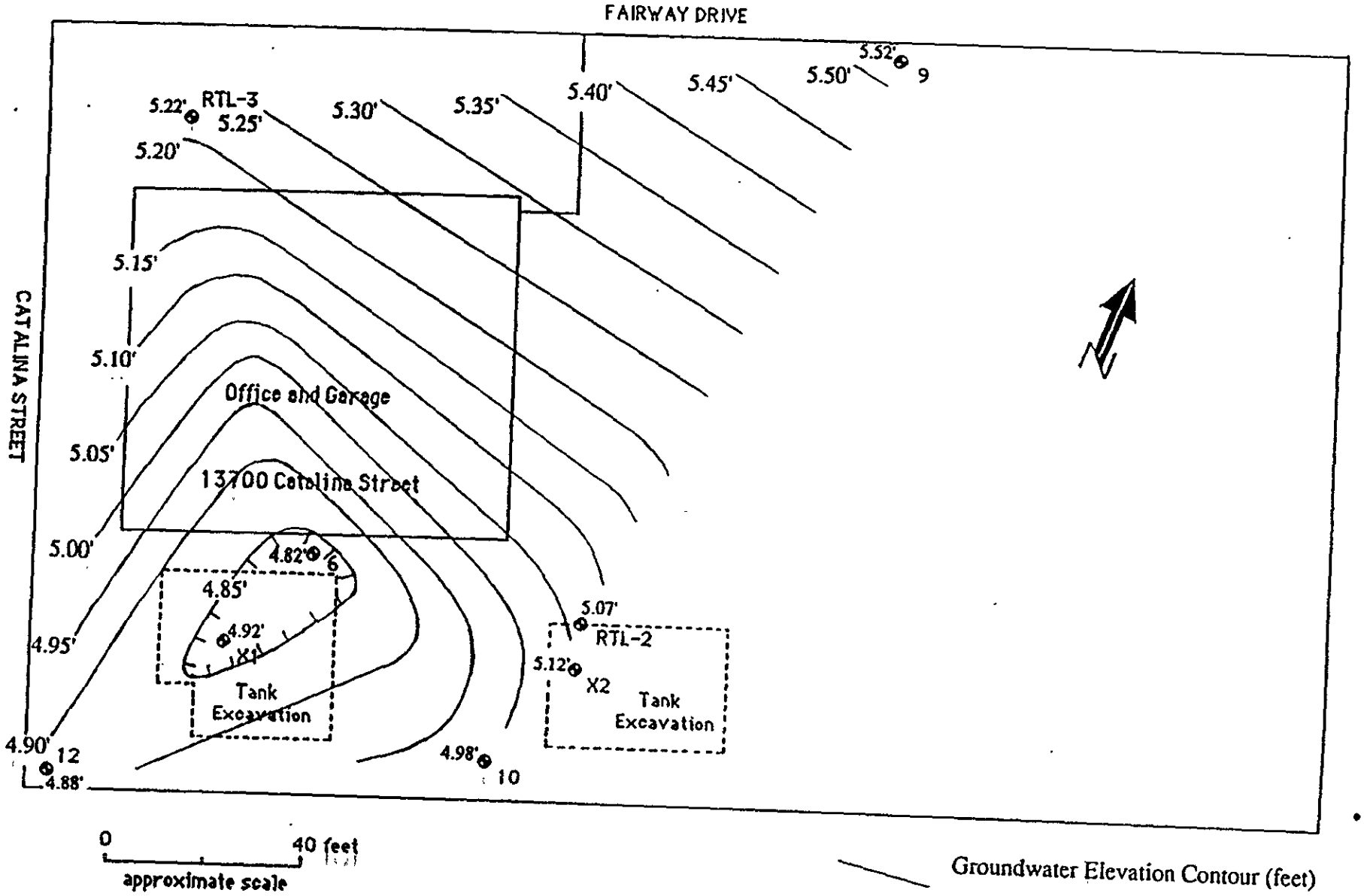

Figure 4. POTENTIOMETRIC SURFACE - 7/11/94
13700 Catalina Street, San Leandro, California