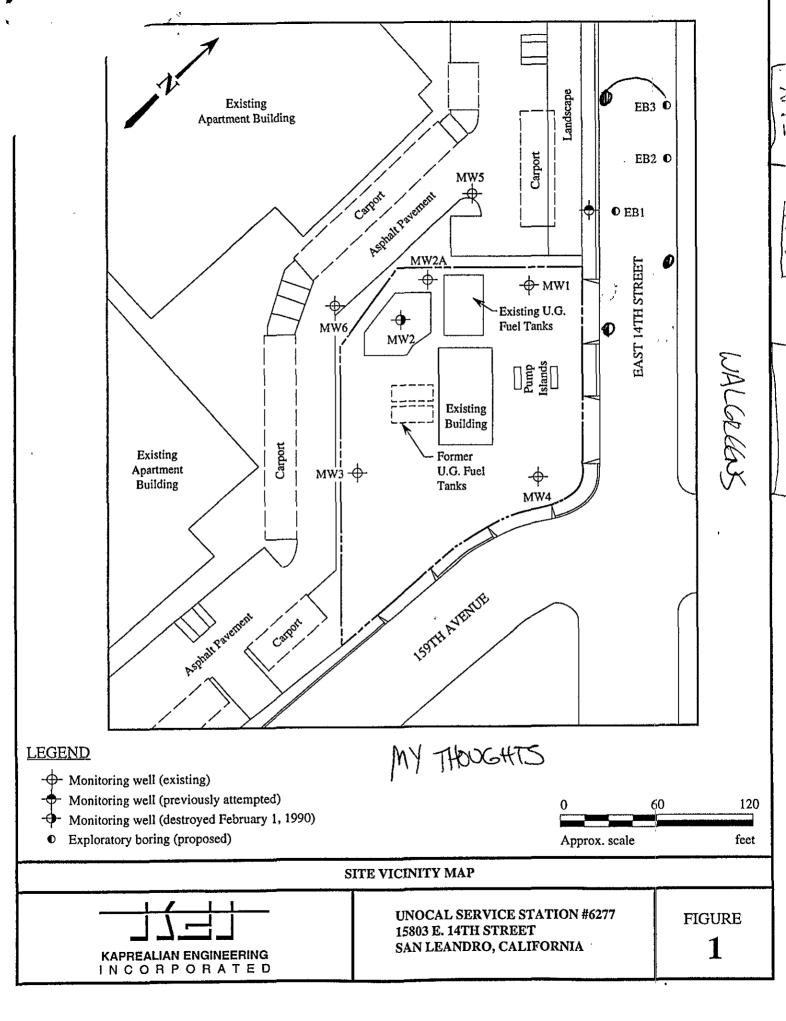
ALAMEDA COUNTY ENVIRONMENTAL HEALTH SERVICES

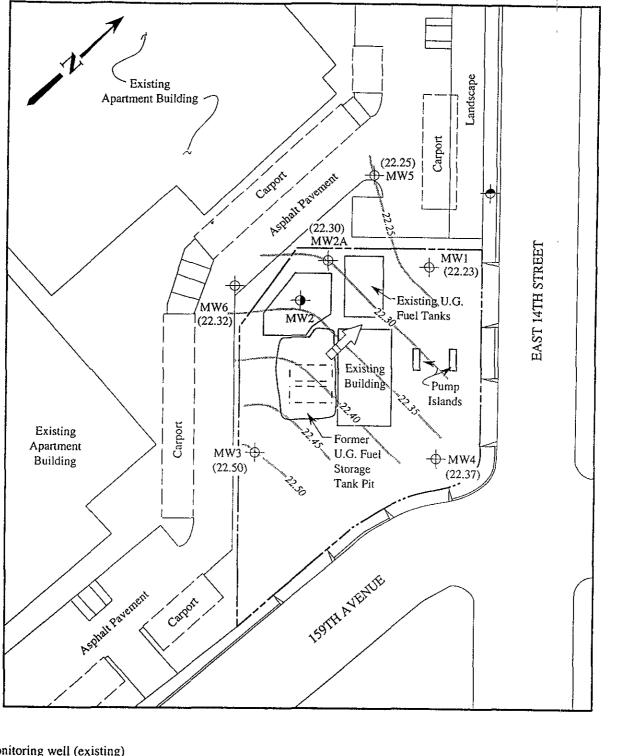
ENVIRONMENTAL PROTECTION DIVISION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 Telephone (510) 567-6700 Fax (510) 337-9335

FAX COVER SHEET

DATE: 6/18 , 19_96
TO: DOUGUEL
ICEI
FAX#(510) 687-0602
Total number of pages including cover sheet
FROM: DAVE K. CETTILE
NOTE:
PLEASE RESPOND BY FAX ONLY.
7
(SMILE) HAVE A NICE DAY DO SOMETHING FOR OUR ENVIRONMENT

JDSB/0396





LEGEND

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Monitoring well (existing)

Monitoring well (previously attempted)

Monitoring well (destroyed February 1, 1990)

() Ground water elevation in feet above Mean Sea Level

Direction of ground water flow

Contours of ground water elevation



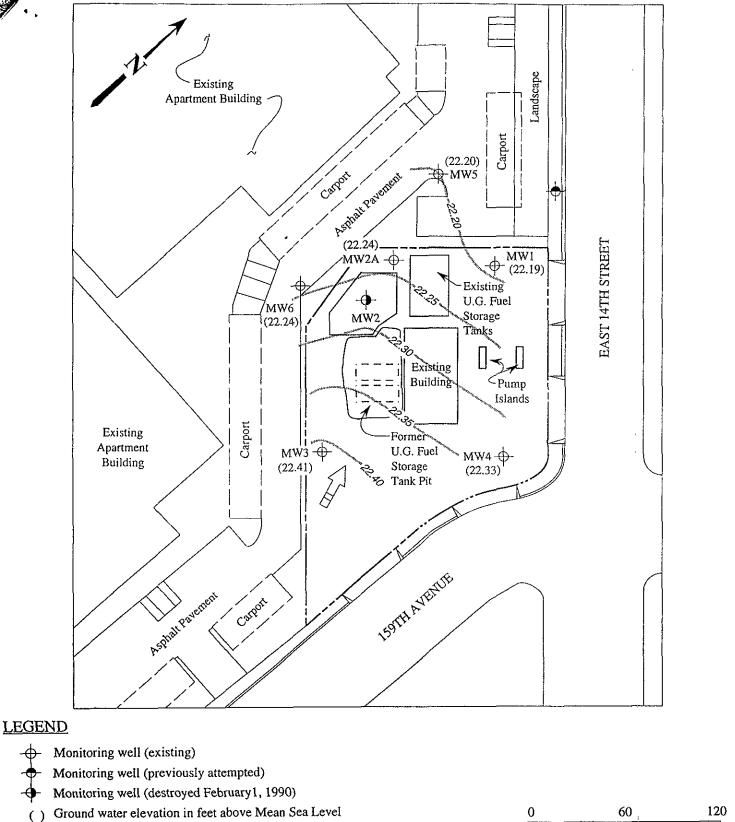
POTENTIOMETRIC SURFACE MAP FOR THE APRIL 4, 1994 MONITORING EVENT

MPDS

SERVICES, INCORPORATED

UNOCAL SERVICE STATION #6277 15803 E. 14TH STREET SAN LEANDRO, CALIFORNIA

FIGURE



Direction of ground water flow

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Contours of ground water elevation

feet Approx. scale

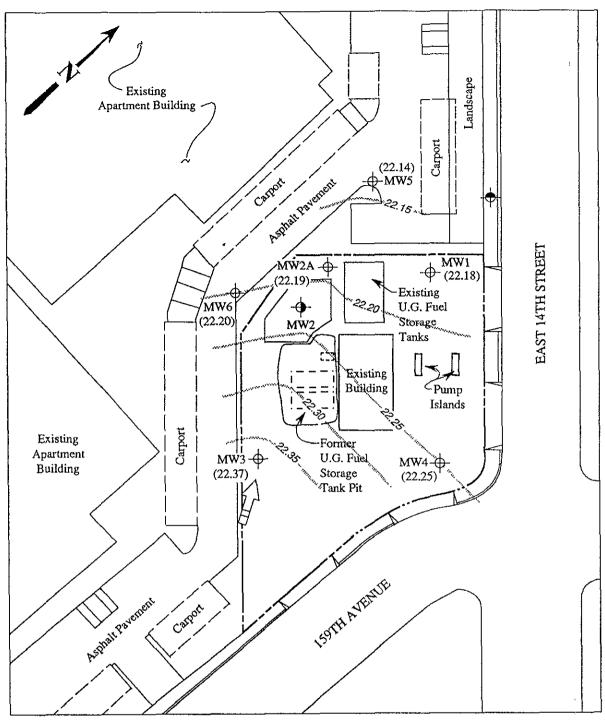
POTENTIOMETRIC SURFACE MAP FOR THE JANUARY 6, 1994 MONITORING EVENT

MPDS

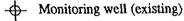
SERVICES, INCORPORATED

UNOCAL SERVICE STATION #6277 15803 E. 14TH STREET SAN LEANDRO, CALIFORNIA

FIGURE



LEGEND



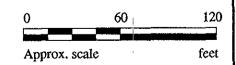
Monitoring well (previously attempted)

Monitoring well (destroyed February 1, 1990)

) Ground water elevation in feet above Mean Sea Level

Direction of ground water flow

Contours of ground water elevation

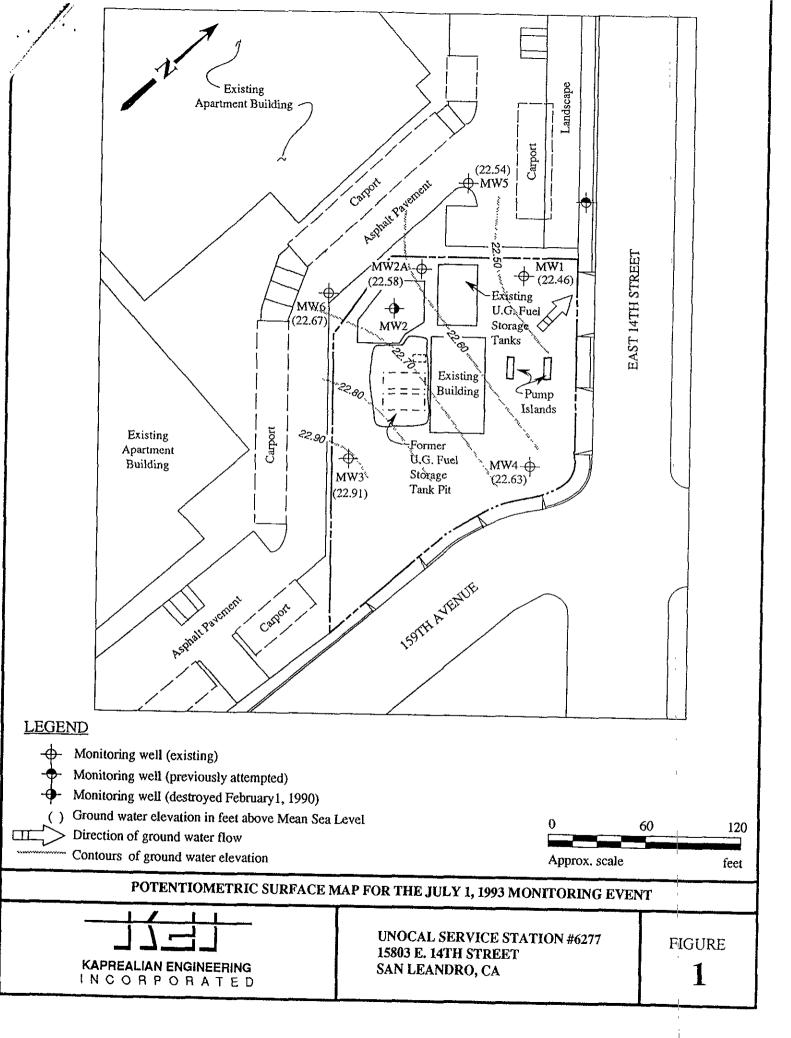


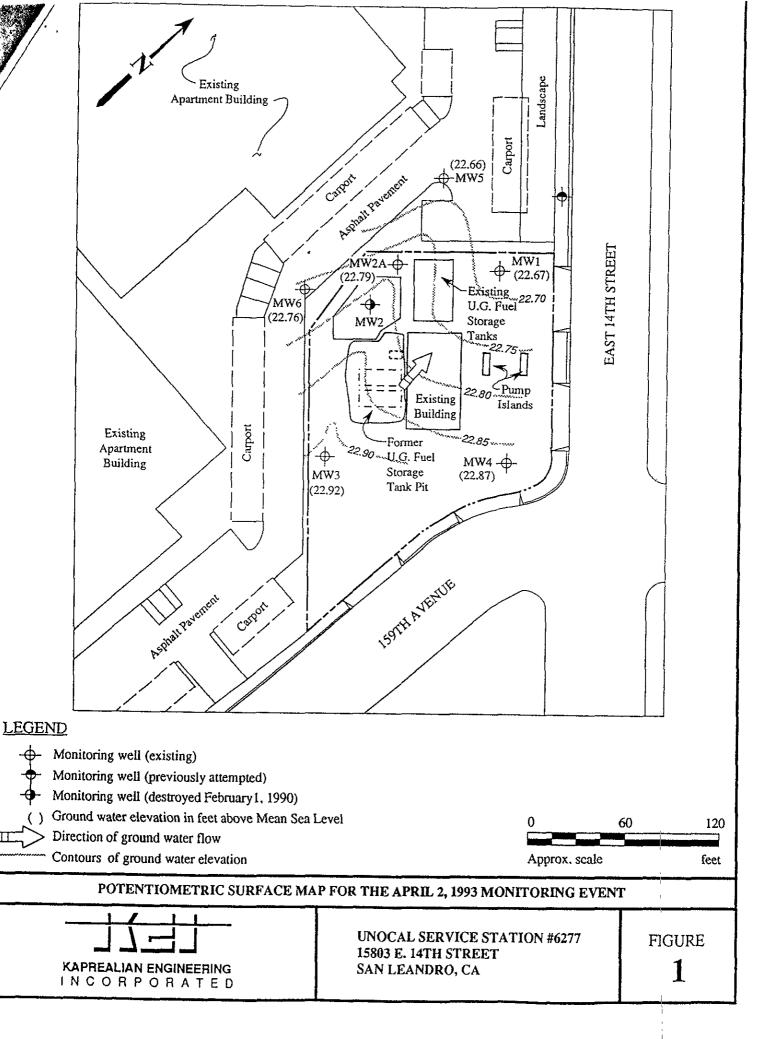
POTENTIOMETRIC SURFACE MAP FOR THE OCTOBER 6, 1993 MONITORING EVENT

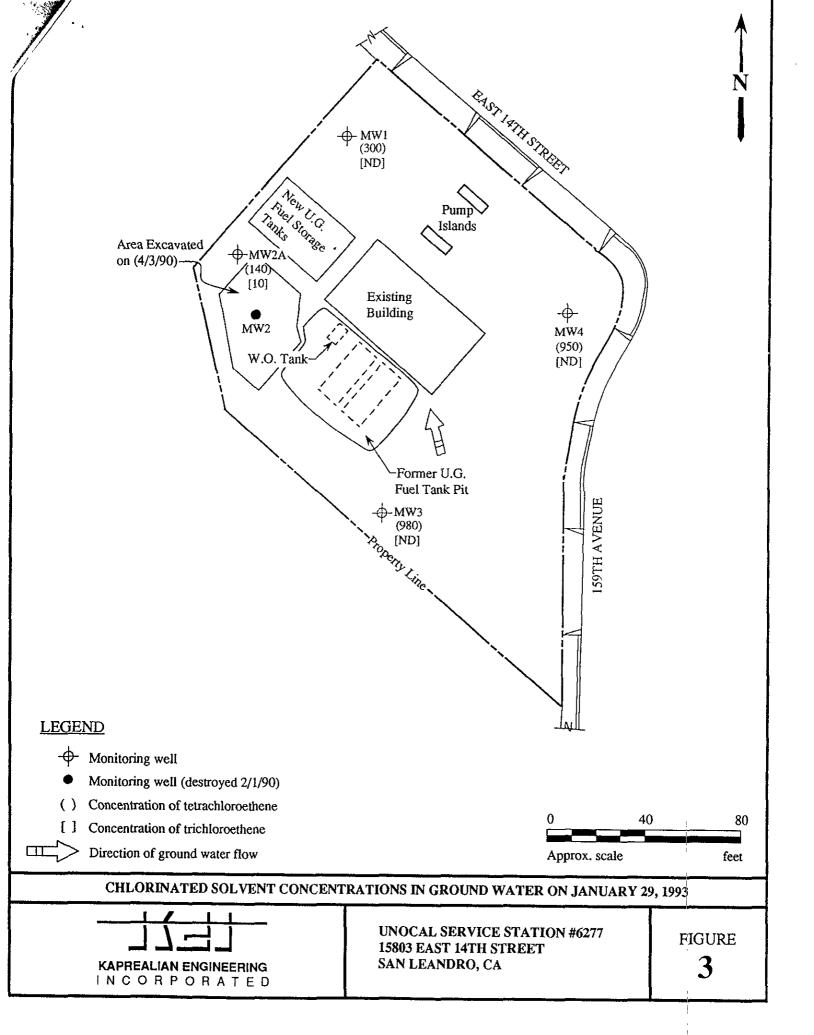


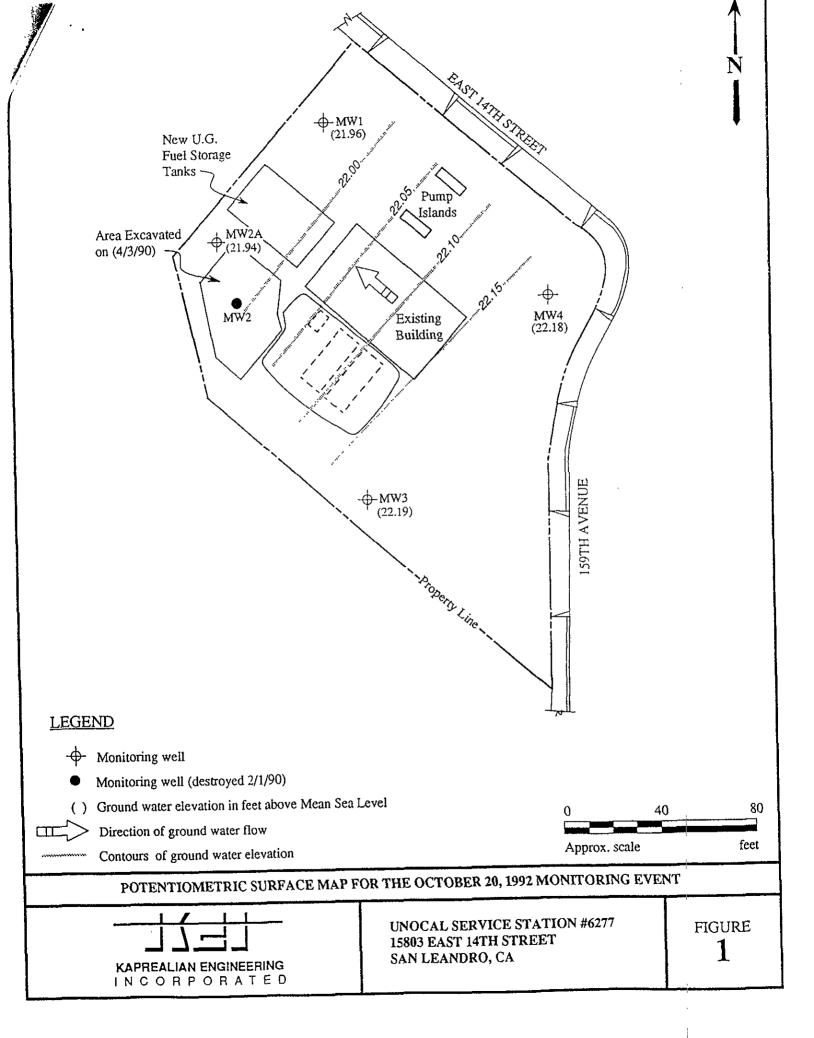
UNOCAL SERVICE STATION #6277 15803 E. 14TH STREET SAN LEANDRO, CALIFORNIA **FIGURE**

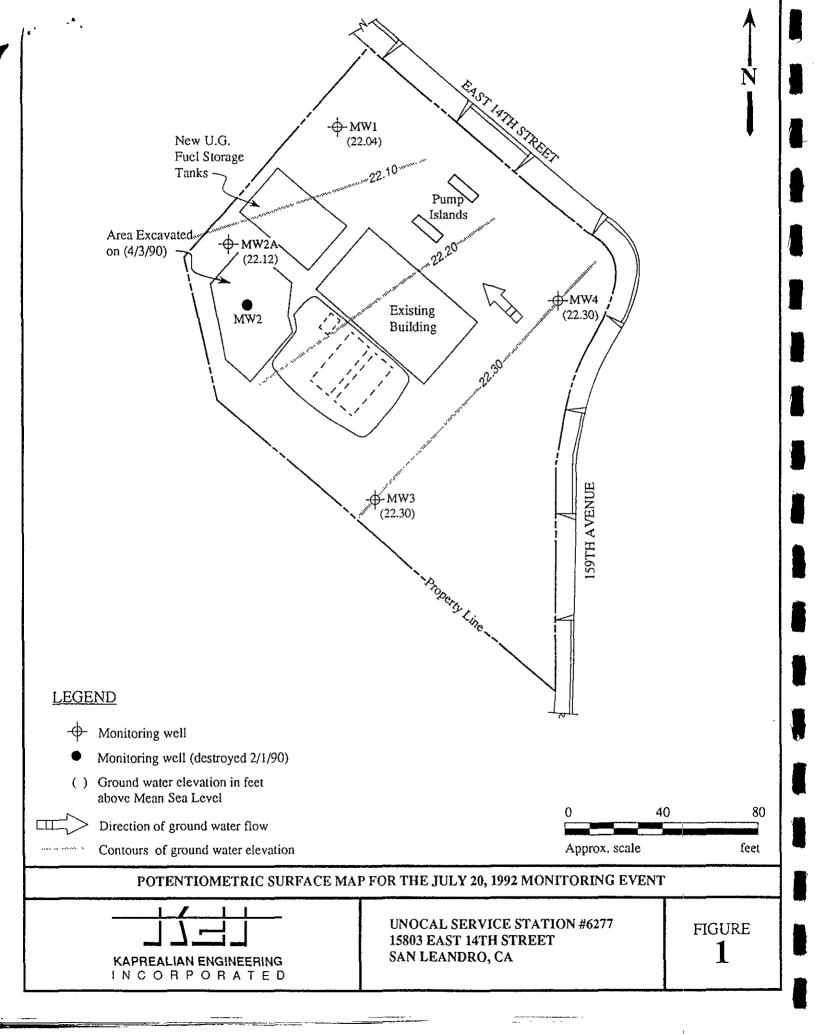
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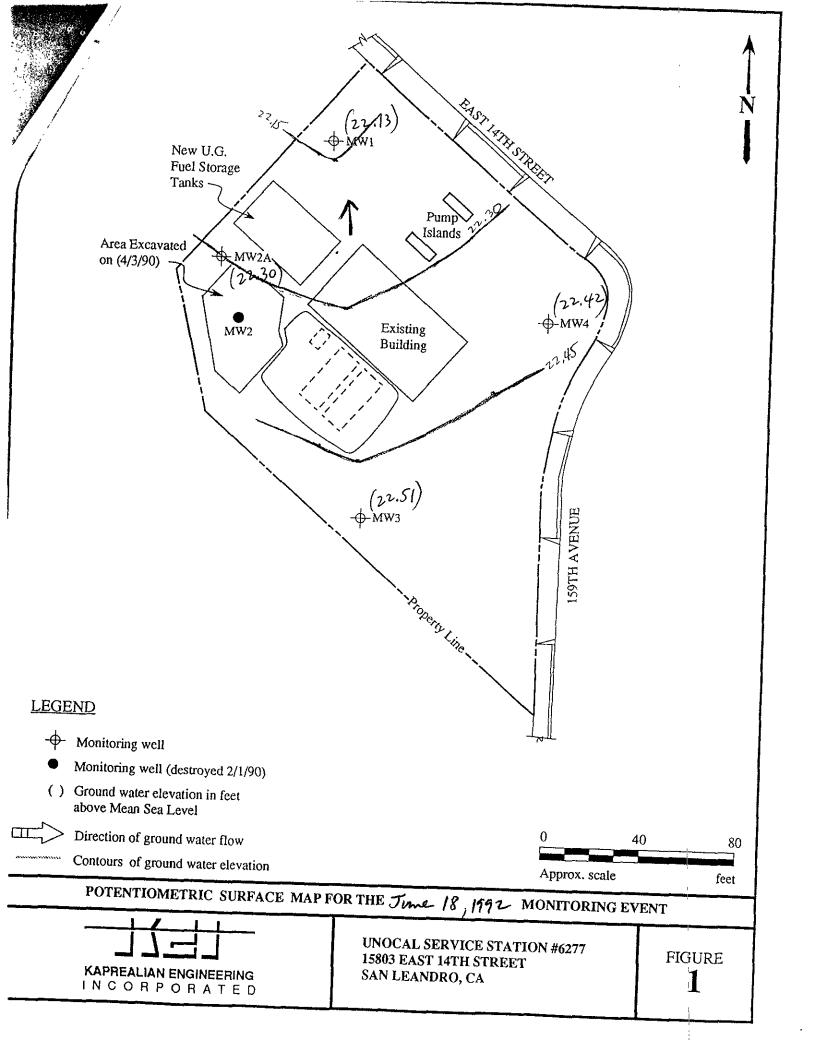
REPORT SUMMARY ANAMETRIX, INC. (408)432-8192

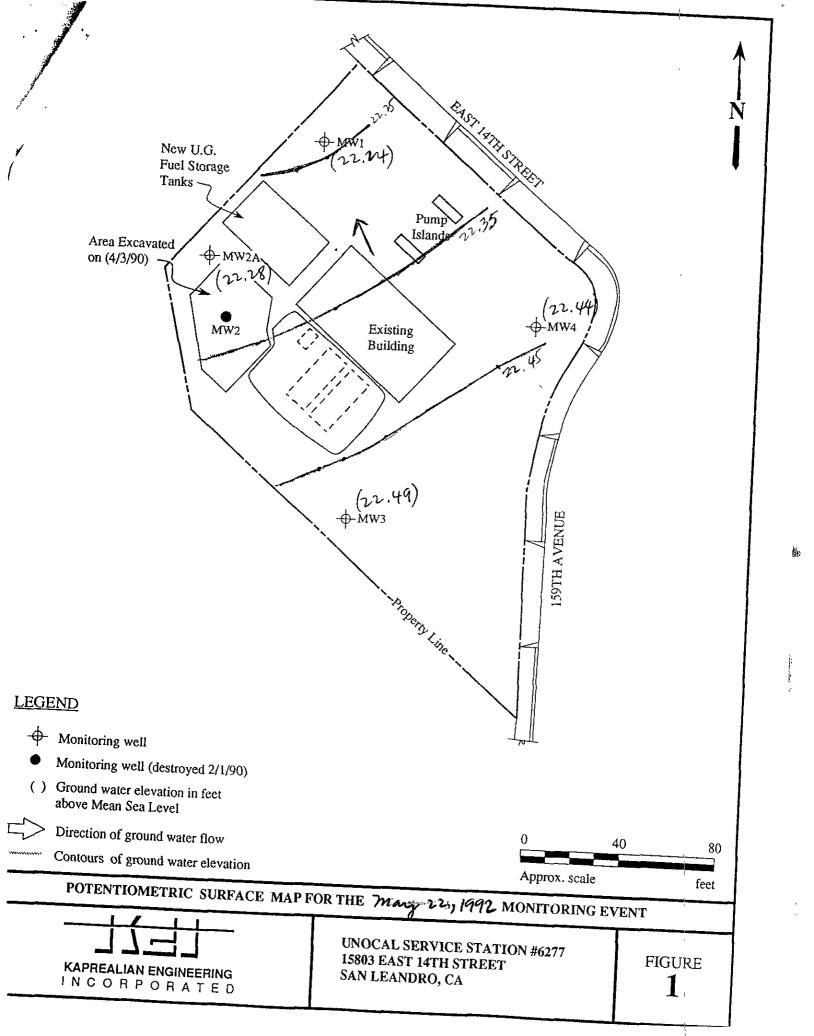
MR. GARY ZACCOR ZACCOR CORP. 791 HAMILTON AVE. MENLO PARK, CA 94025

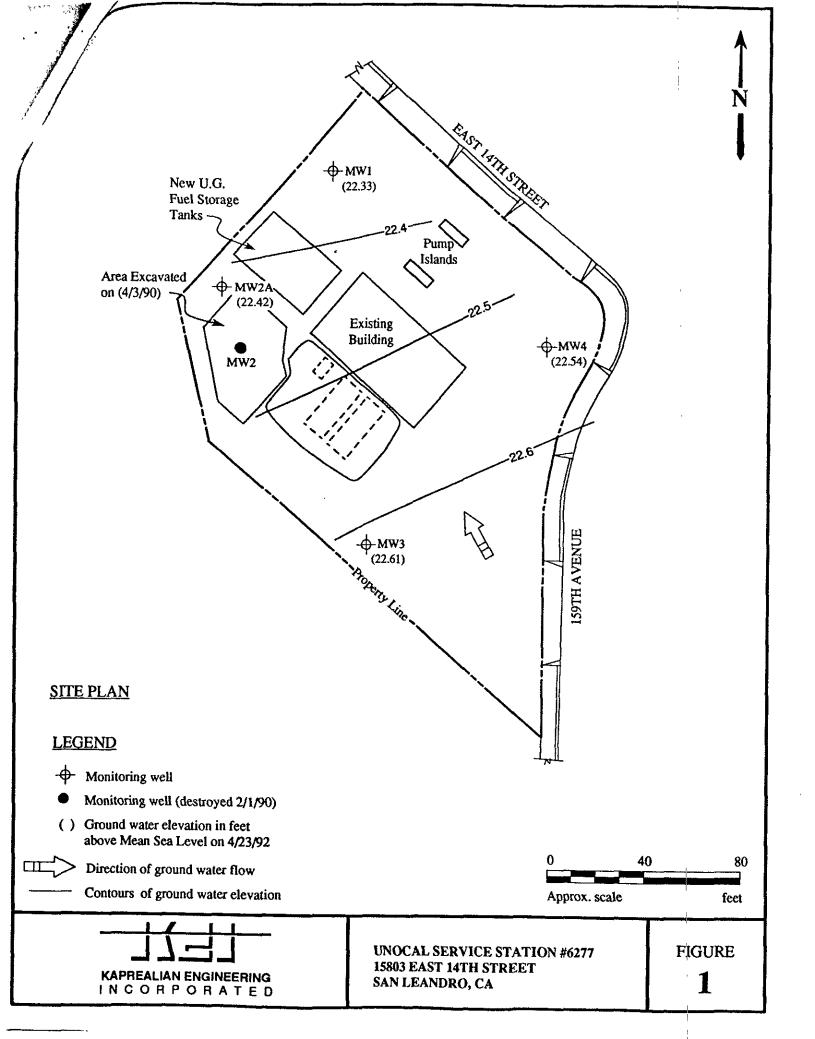
Workorder # : 9101055
Date Received : 01/08/91
Project ID : 2244 SANTA CLARA
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

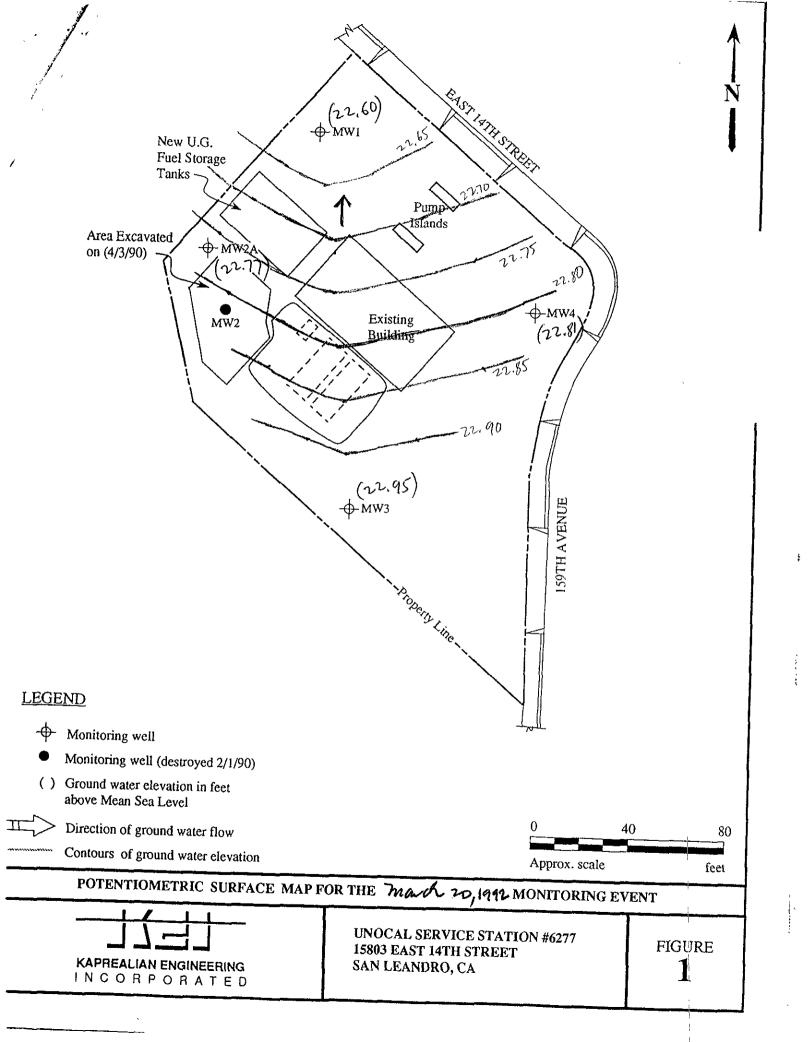
SAMPLE INFORMATION:

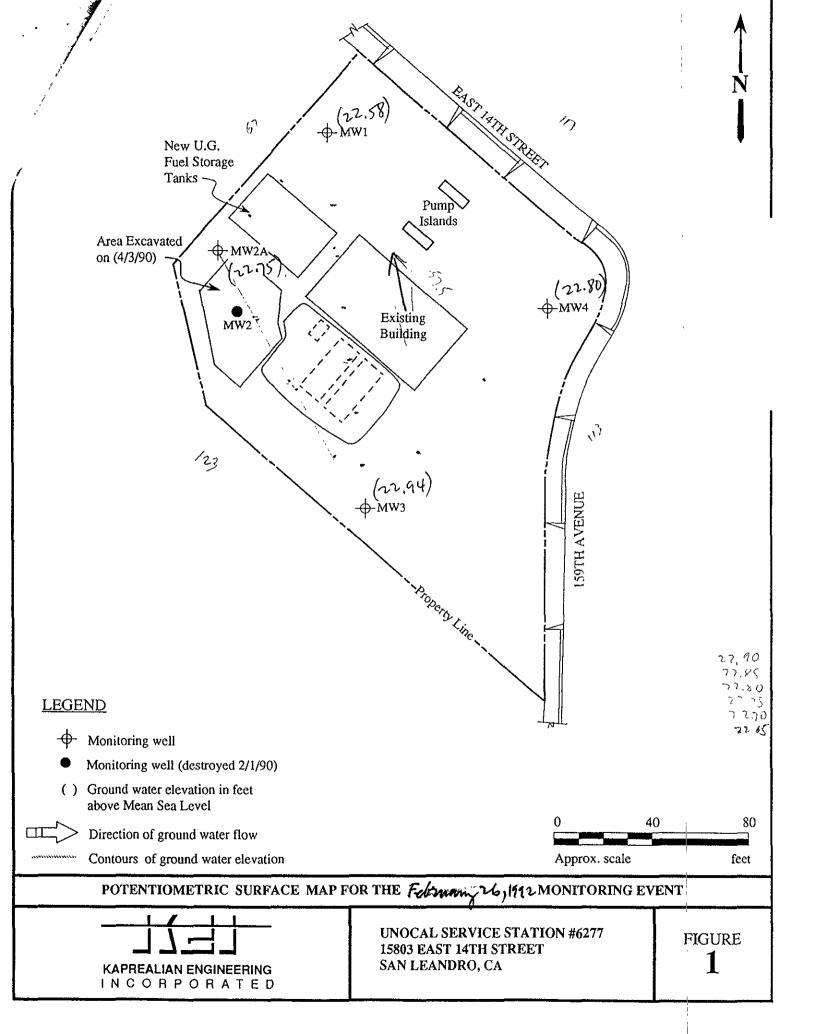
ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9101055- 1	#1	SOIL	01/08/91	5520EF
9101055- 2	# 2	SOIL	01/08/91	5520EF









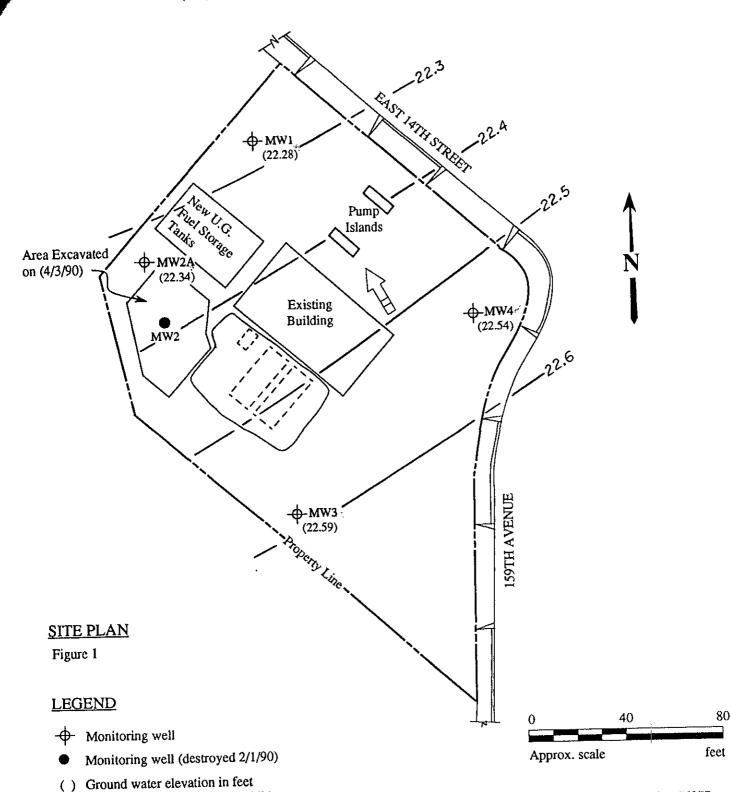




KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P.O. BOX 996 • BENICIA, CA 94510 (707) 746-6915 • (707) 746-6916 • FAX (707) 746-5581



Unocal Service Station #6277 15803 East 14th Street San Leandro, CA

Direction of ground water flow

Contours of ground water elevation

above Mean Sea Level on 1/13/92

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9101055

Project Number: 2244 Santa Clara Date released: 01/11/91

SOIL Matrix Date Sampled: 01/08/91 Date Extracted: 01/09/91 Instrument I.D.: HP19

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9101055-01	#1	01/09/91	10	ND
9101055-02	#2	01/09/91	10	ND
DSBL010991	Method Blank	01/09/91	10	ND

ND - Not detected at or above the practical quantitation limit for the method.

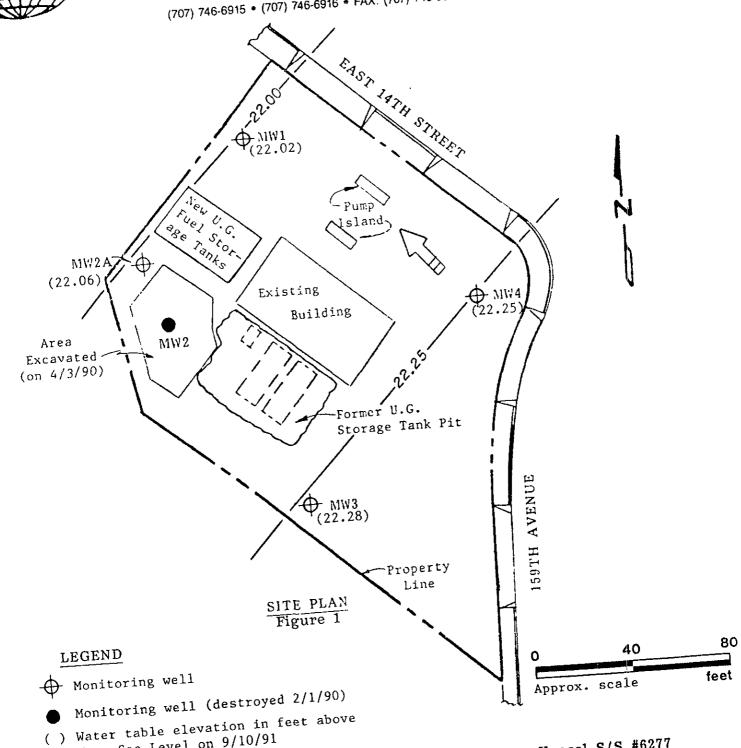
TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following sample extraction by EPA Method 3550.

All testing procedures follow California Department of Health Services (Cal-DHS), approved methods.

KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P.O. BOX 996 • BENICIA, CA 94510 (707) 746-6915 • (707) 746-6916 • FAX: (707) 746-5581



Mean Sea Level on 9/10/91 - Contours of water table elevation

> Ground water flow direction

Unocal S/S #6277 15803 E. 14th Street San Leandro, CA

34.0 to 34.5 ft GRAVELLY SAND- coarse sand, poorly sorted, flat clasts to 1/2"

35.2 to 35.8 ft SILTY CLAY- non sticky, non plastic to v.slightly plastic, mottled

34.5 to 35.2 ft SAND- medium sand, well sorted, dk. gray

tna/brown and gray, stiff, homogenous

35 -

No hydrocarbon odor

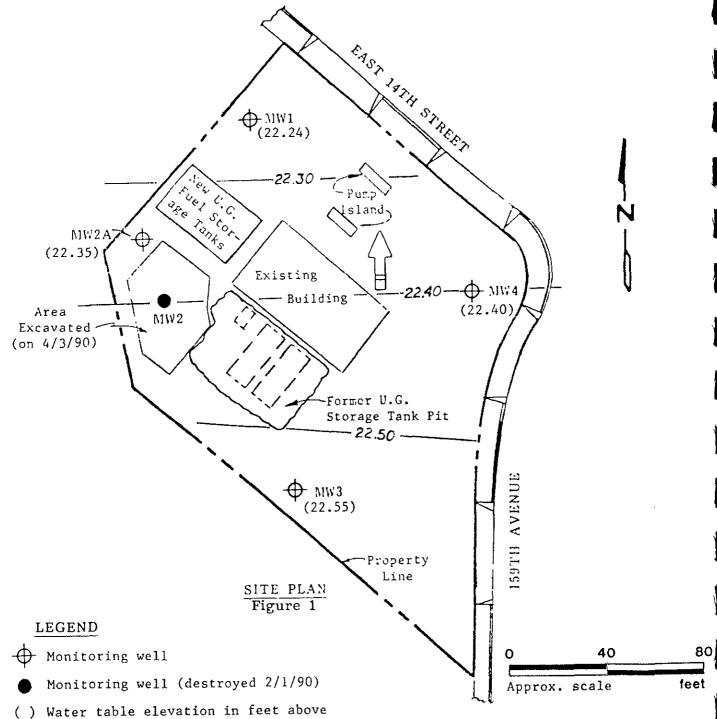
H Nu = 0 pom

KE

KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P.O. BOX 996 • BENICIA, CA 94510 (707) 746-6915 • (707) 746-6916 • FAX: (707) 746-5581



Mean Sea Level on 6/10/91

Contours of water table elevation

Ground water flow direction

 \coprod

Unocal S/S #6277 15803 E. 14th Street San Leandro, CA

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9101055

Project Number: 2244

: SOIL Matrix

Santa Clara

Date Sampled: 01/08/91 Date Released : 01/11/91

	Reporting Limit	Sample I.D.# #1	Sample I.D.# #2	Sample I.D.# 21B0109B	
COMPOUNDS	(mg/Kg)	-01	-02	BLANK	
Benzene Toluene Ethylbenzene Total Xylenes	0.005 0.005 0.005 0.005	ND ND ND	ND ND ND	ND ND ND	
<pre>% Surrogate Red Instrument I Date Analyzed RIMF</pre>	.D	124% HP21 01/09/91 1	77% HP21 01/09/91 1	101% HP21 01/09/91	

ND - Not detected at or above the practical quantitation limit for the method.

Iuna Shor 1/4/91

Results - TPH - Page 1

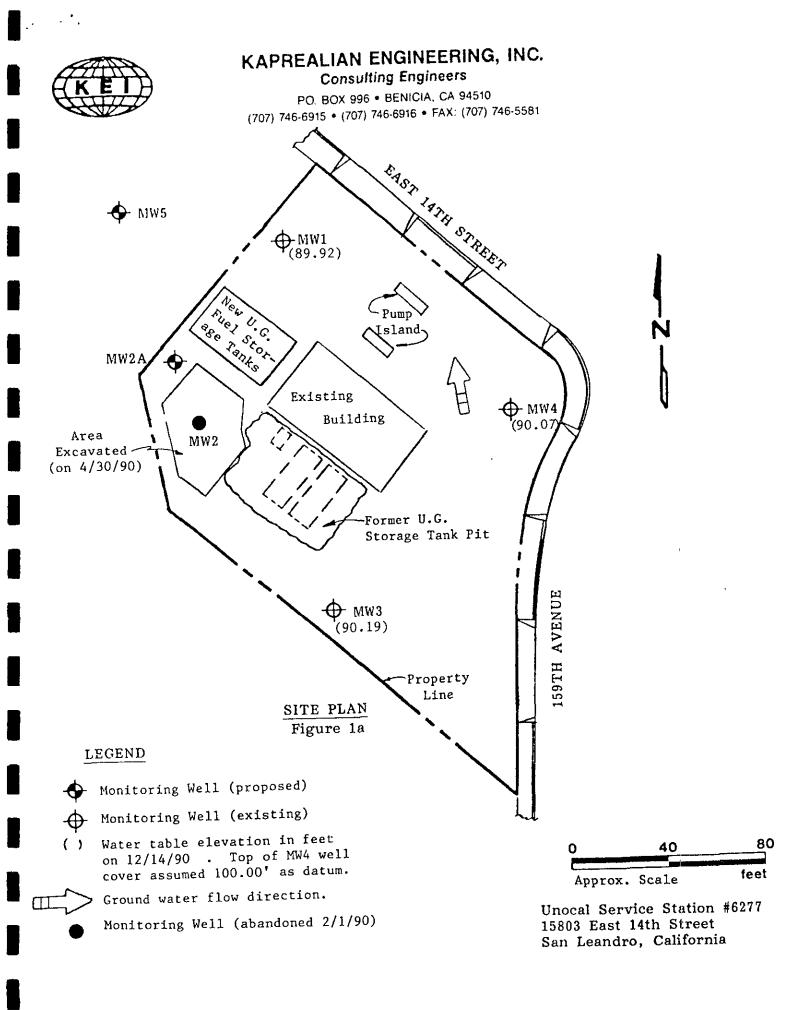
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined

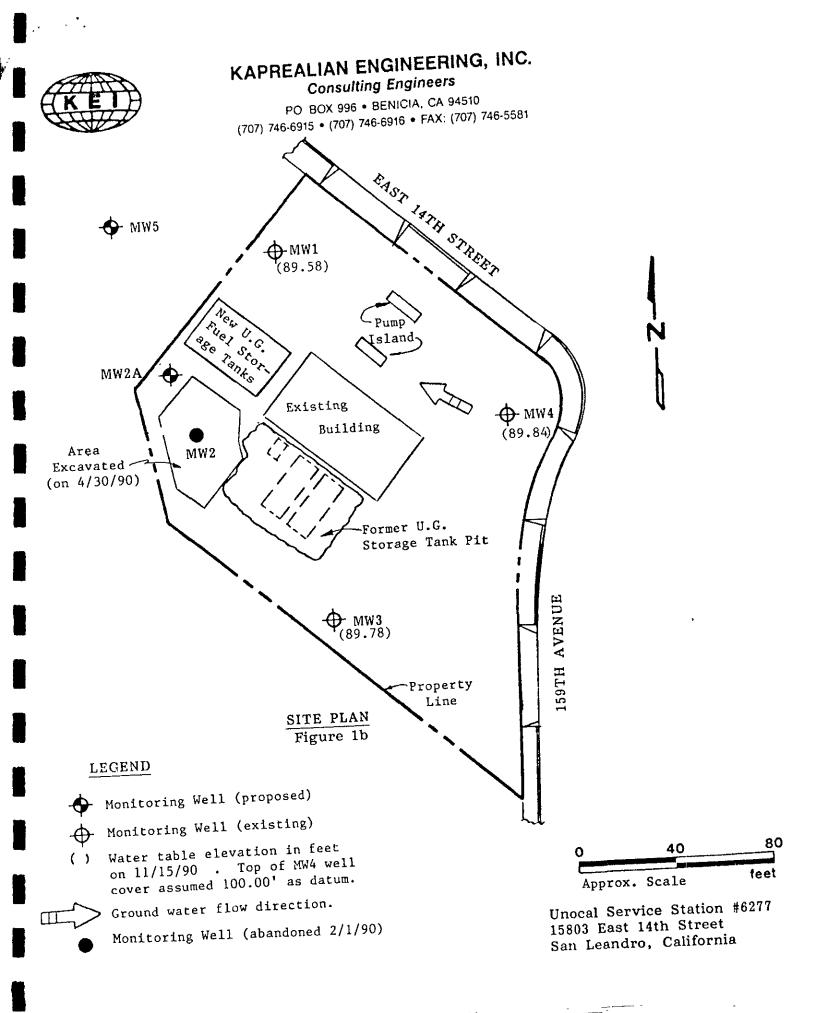
by modified EPA 8020.

RLMF - Reporting Limit Multiplication Factor. Anametrix control limits for surrogate recovery are 50-150%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.



(feet)	Samples	Blows	MATERIAL DESCRIPTION	nscs	Moisture Content	Dry Density
40 -	8		39.0 to 39.5 it- disturbed, resoliditied material from driling 39.5 to 41.5 ft CLAY- with some silt, sticky and plastic, firm, med-dk gray with very local tan No hydrocarbon odor mottling, homogenous throughout H Nu = 0 ppm			
45 - -	9		44.0 to 45.6 ft CLAYEY SILT- non sticky, moderately plastic, massive, blue-gray, mottled w/ tan v. stiff 45.6 to 46.8 ft CLAYEY SILT- more plastic, small rubbly ped structures, filamentous CaCO3 H Nu = 0 ppm along rootlet burrows, olive gray 46.8 to 48.0 ft SILT- olive gray, some clay, massive, slightly plastic, small CaCO3 blebs, becomes more mottled w/ dk. red brown with depth 48.0 to 48.7 ft SILT- as above, mottled dk. olive green & dk. red brown, small CaCO3 blebs			
50 -	10		49.0 to 49.5 ft CLAYEY SILT- slightly sticky, mod. plastic, mod. stiff, olive brown, some small CaCO3 blebs gray mottling, none of red-brown as seen above 49.5 to 50.5 ft CLAYEY SILT- as above, olive gray, with faint small scale It brown mottling, nonsticky slightly plastic, no CaCO3 50.5 to 51.0 ft CLAYEY SILT- as above, mottling increases to tan-brown vertical, irregular streaks 1/2" wide very fine sand in silt at bottom of sample interval, non plastic, non sticky 51.0 to 51.8 ft CLAYEY SILT- as above, mottling consists of gray, ellipsoidal blebs 1/4" across surrounded by tan-brown v. fine grained sand 51.8 to 52.0 ft GRAVELLY SAND- med. sand, well sorted, small gravel clasts to 1/4", dk. brown			
55 -	11		54.0 to 58.6 ft SAND- med. grained, dk. brown, well sorted, massive, cohesionless, grain size increases to coarse sand and gravel at bottom of sampled interval, broken clasts to 2" No hydrocarbon odor H Nu - 0 ppm			
0 -	12		59.0 to 60.0 ft SAND- medium grained, coarsening downwards to coarse sand, dk. brown 60.0 to 60.6 ft SANDY GRAVEL- coarse sand, gravel to 1/2", clean, well sorted No hydrocarbon odor H No - 0 ppm 61.2 to 62.7 ft SAND- coarse to v. coarse grained sand, moderately sorted, pebbles (3/8"), pebbles (1/4") towards bottom well sorted, some gravel to 1" at bottom			
5 -			Total Depth = 62 7 feet			
0 -			- -			
5 -						
30 -						



Woodward-Clyde Consultants PROJECT NAME SHELL BASS NO. 8910011A/0700 **BORING LOCATION** Shell Station, 4695 Thornton Ave., Fremont CA, (S-B) **ELEVATION AND DATUM** 41.9' MSL DATE STARTED 1/19/89 J. Condrey DRILLER **DRILLING AGENCY Datum Exploration** DATE FINISHED 5' Core COMPLETION SAMPLER 49 **CME - 75** DRILLING EQUIPMENT Barrel DEPTH UNDIST. NO. OF DIST. continuous DRILL BIT Carbide **DRILLING METHOD** 8" Hollow stem auger SAMPLES COMPL. 24 HRS. WATER FIRST 39 D. Jorgenson LOGGED BY: LEVEL CHECKED BY: M Bonkowski Moisture Content Dry Density pcf Blows Depth (feet) **MATERIAL DESCRIPTION** 3" Concrete and Silty Clay Fill Base N/A SILTY CLAY dark brown, low plasticity, firm to stiff with rootholes, moist H Nu = 0 ppmNo Hydrocarbon odor H Nu = 0 ppm CL No Hydrocarbon odor H Nu = 0 ppm No Hydrocarbon odor H Nu = 0 ppm No Hydrocarbon odor H Nu = 0 ppm 5* 10 CLAYEY SILT No Hydrocarbon odor dark brown with gray mottling, low plasticity, firm to stiff with 6 H Nu = 0 ppm trace of very fine sand with rootholes, moist No Hydrocarbon odor 7 H Nu = 0 ppm8 No Hydrocarbon odor H Nu = 0 ppmNo Hydrocarbon odor ML H Nu = 0 ppm15 -19 No Hydrocarbon odor ۱o H Nu = 0 ppm No Hydrocarbon odor H Nu = 0 ppm 12 No Hydrocarbon odor H Nu = 0 ppm No Hydrocarbon odor 20 -**–**|13° maa 0 = uN ff SILTY CLAY No Hydrocarbon odor CL H Nu = 0 ppmdark brown, medium plasticity, stiff, moist, rootholes No Hydrocarbon odor H Nu = 0 ppmCLAYEY SILT ML. 15 No Hydrocarbon odor dark brown, low plasticity, stiff, moist H Nu = 0 ppm16 No Hydrocarbon odor ML SANDY SILT 25 17 H Nu = 0 ppm dark brown, fine grained, poorly graded with traces of coarse No Hydrocarbon odor sand and gravel H Nu = 0 ppm 18 No Hydrocarbon odol H Nu = 0 ppmSAND No Hydrocarbon odor dark gray brown, fine grained, poorly graded with traces of H N u = 0 ppmcoarse sand and gravel, medium dense, moist No Hydrocarbon odor 30 SP H Nu = 0 ppm No Hydrocarbon odor H Nu = 0 ppm No Hydrocarbon odor H Nu = 4 ppm

becoming greenish gray

dark brown, fine grained, medium plasticity with a 6" seam of

dark greenish gray, medium plastic, moist becoming a

SANDY CLAY

SILTY CLAY

Sifty Sand at 36'

CLAYEY SAND

35

CL

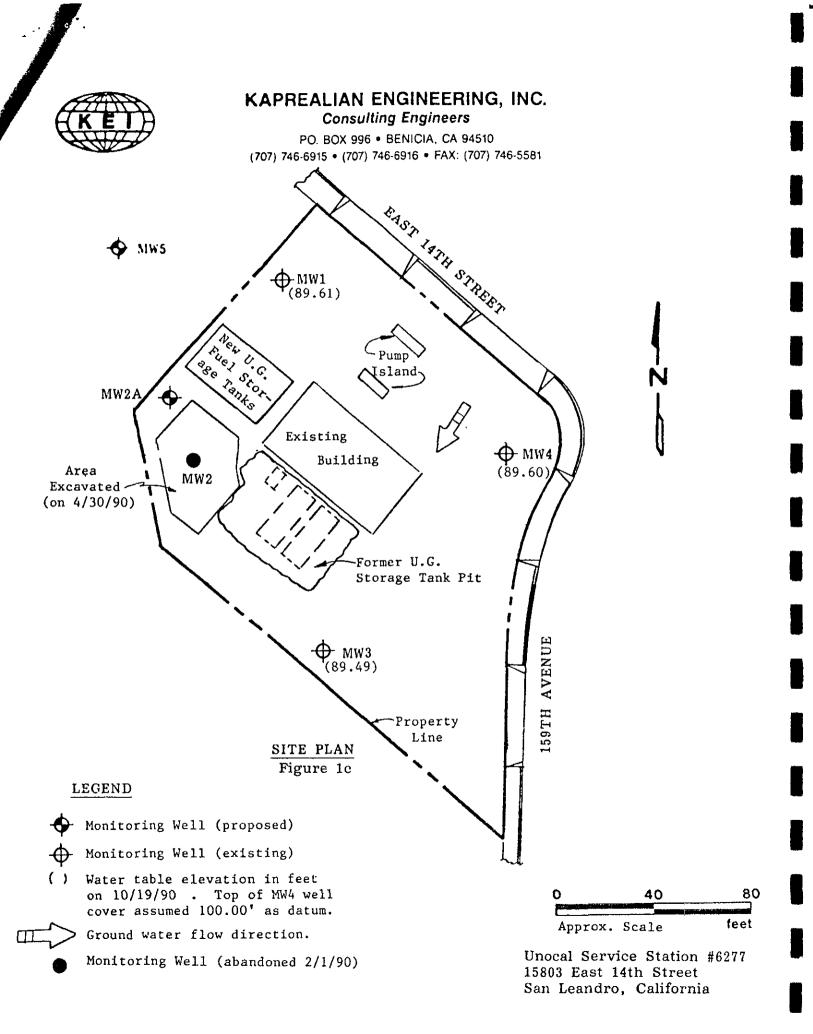
CL.

SC

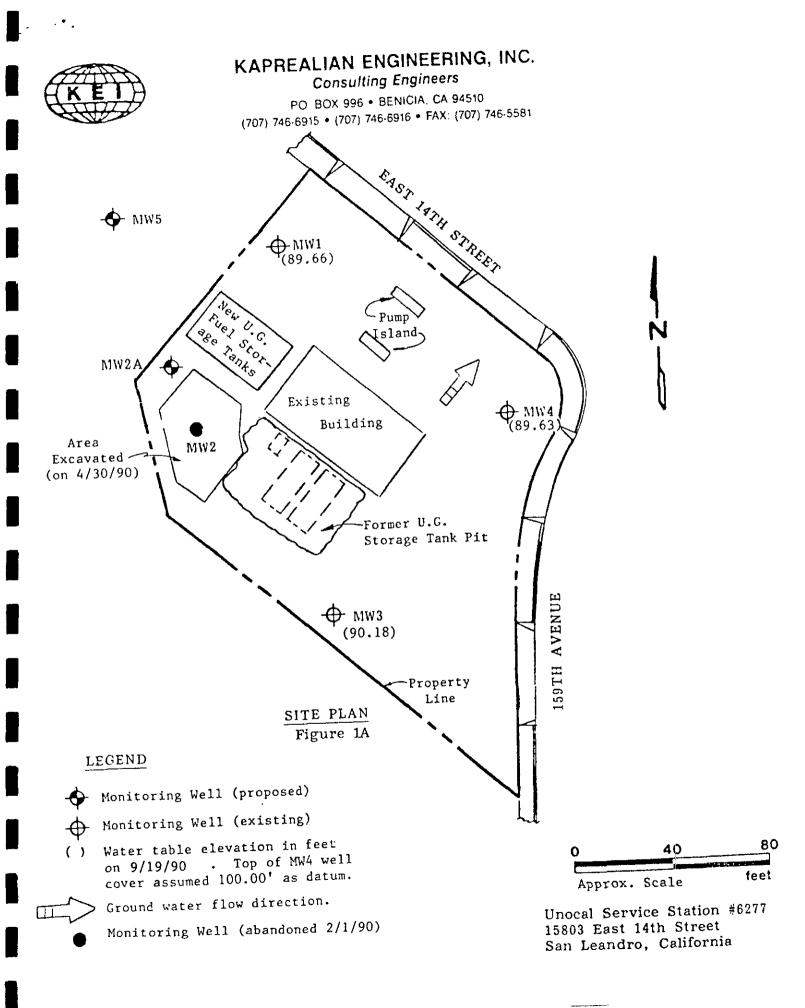
Hydrocarbon odor

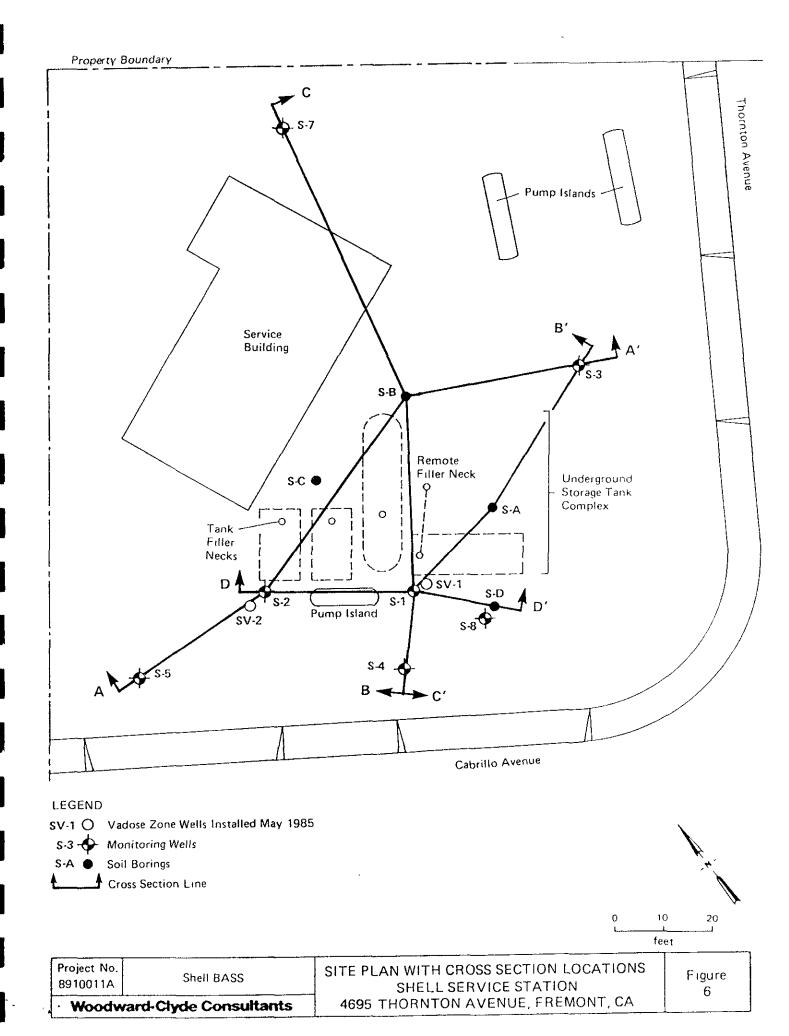
No Hydrocarbon odor

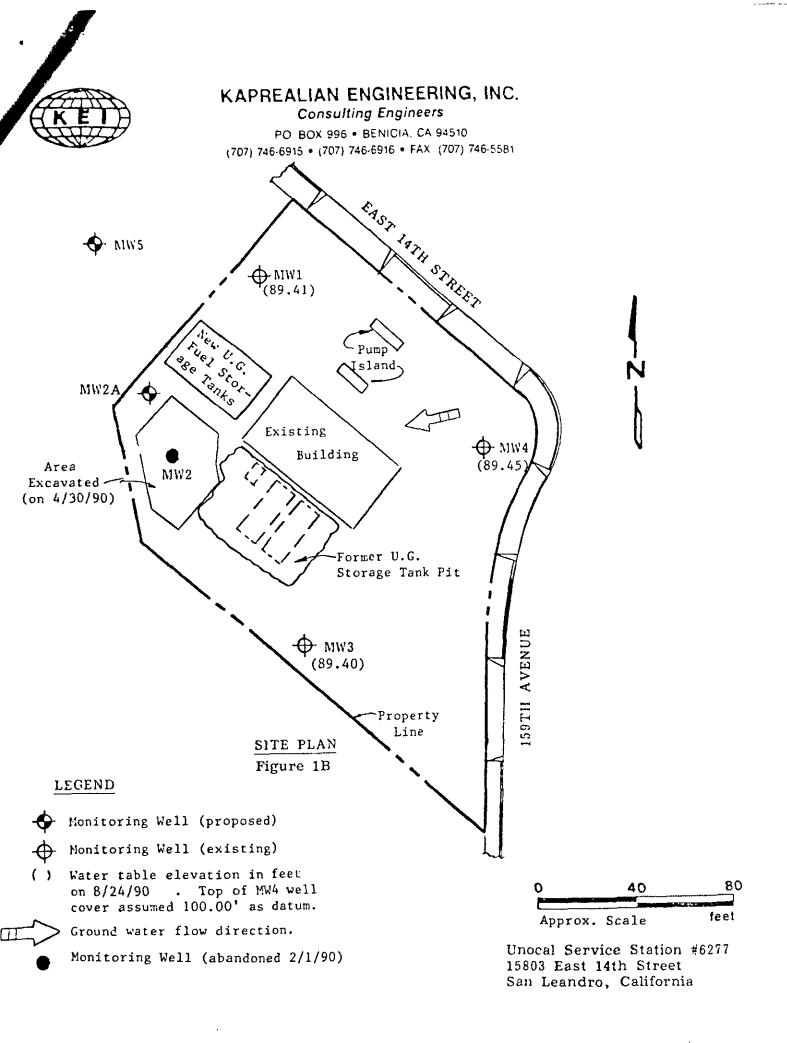
H Nu = 0 ppm

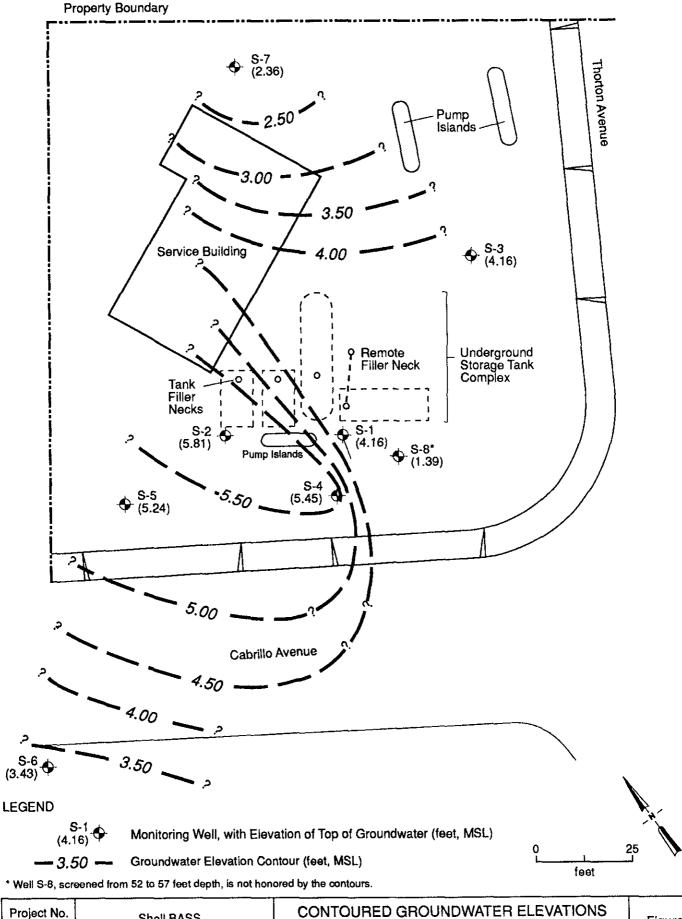


(teet)	Samples	Blows	MATERIAL DESCRIPTION		Moisture Content	Dry Density
			same as above	CL SC	_	
	25 26*		CLAYEY SAND greenish gray, fine to medium grained, poorly graded, saturated H Nu = 0 ppm No Hydrocarbon odor saturated	sc		
5 -	27		SANDY CLAY dark gray, fine grained, medium plasticity, wet	CL		
1	28 29		SILTY CLAY H Nu = 0 ppm No Hydrocarbon odor dark gray, medium plasticity, very stiff, wet	CL		
	30*		becoming light gray, moist			
0 -			Total Depth = 49 feet			
1			* = Sample sent to Laboratory			
1			•			
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			•			
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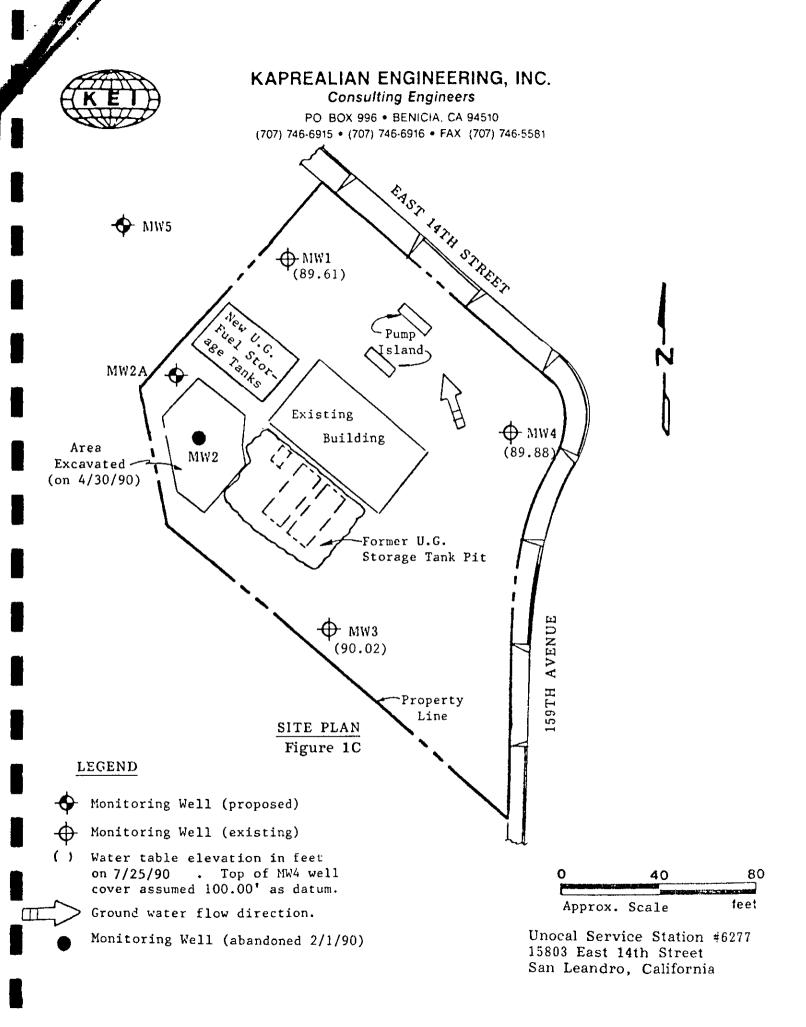


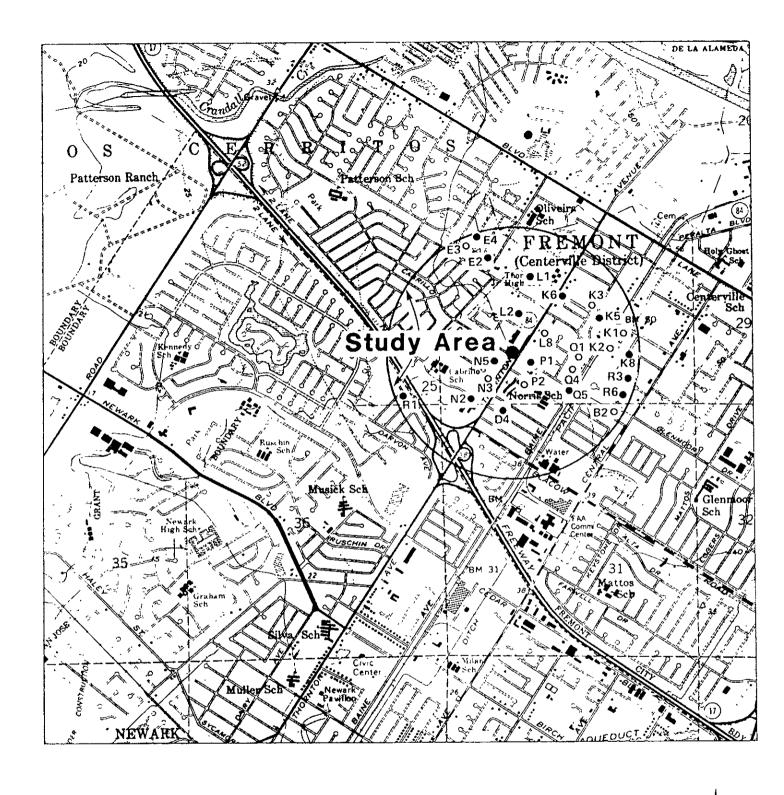






Project No. 8910011A Shell BASS CONTOURED GROUNDWATER ELEVATIONS OCTOBER 23, 1990, SHELL SERVICE STATION 4695 THORTON AVENUE, FREMONT, CA





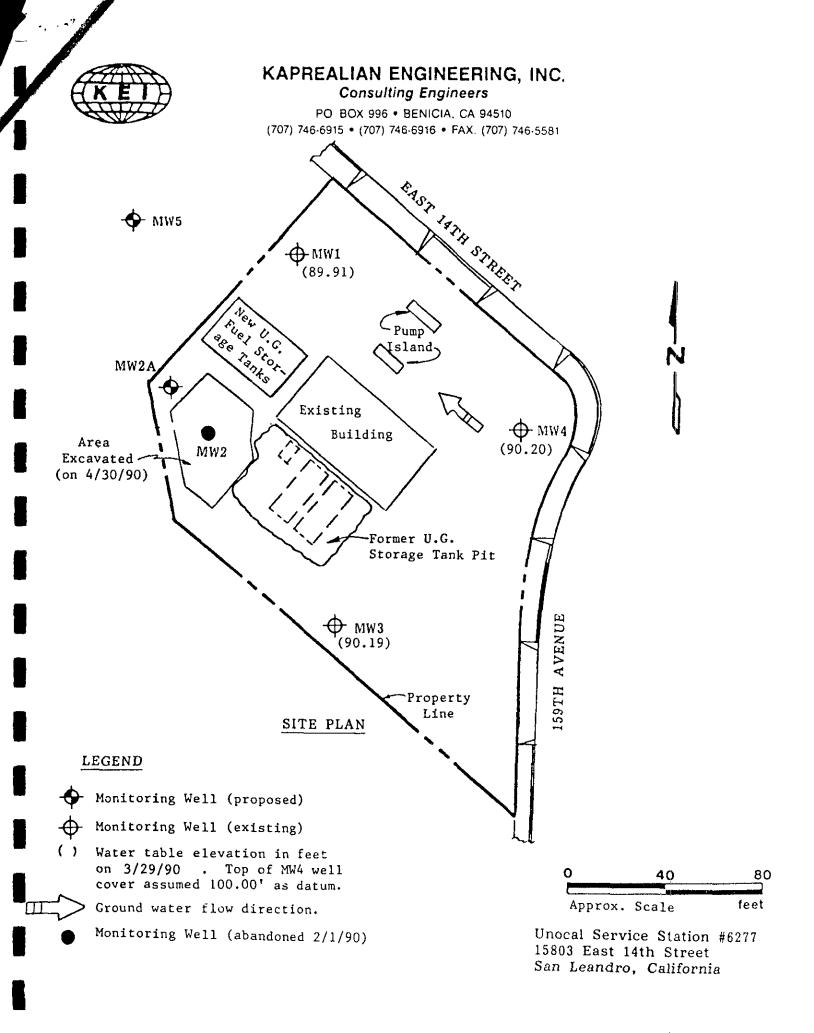


Project No. 8910011A

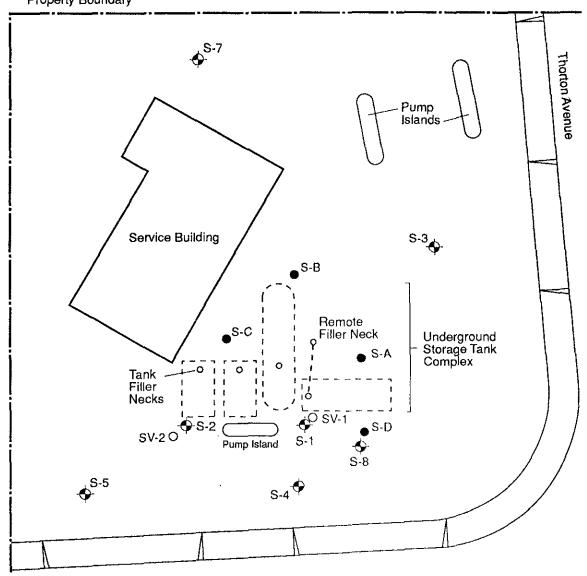
Shell Bass
WELL SURVEY MAP WITH WELL LOCATIONS
SHELL SERVICE STATION
4

Woodward-Clyde Consultants

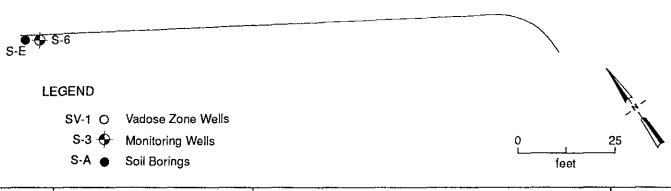
WELSURVEY MAP WITH WELL LOCATIONS
SHELL SERVICE STATION
4



Property Boundary



Cabrillo Avenue



Project No. 8910011A	Shell BASS	SITE PLAN SHELL SERVICE STATION	Figure
Woodw	ard-Clyde Consultants	4695 THORTON AVENUE, FREMONT, CA	3