

A P P E N D I X C

HAZARDOUS MATERIALS
DATABASES

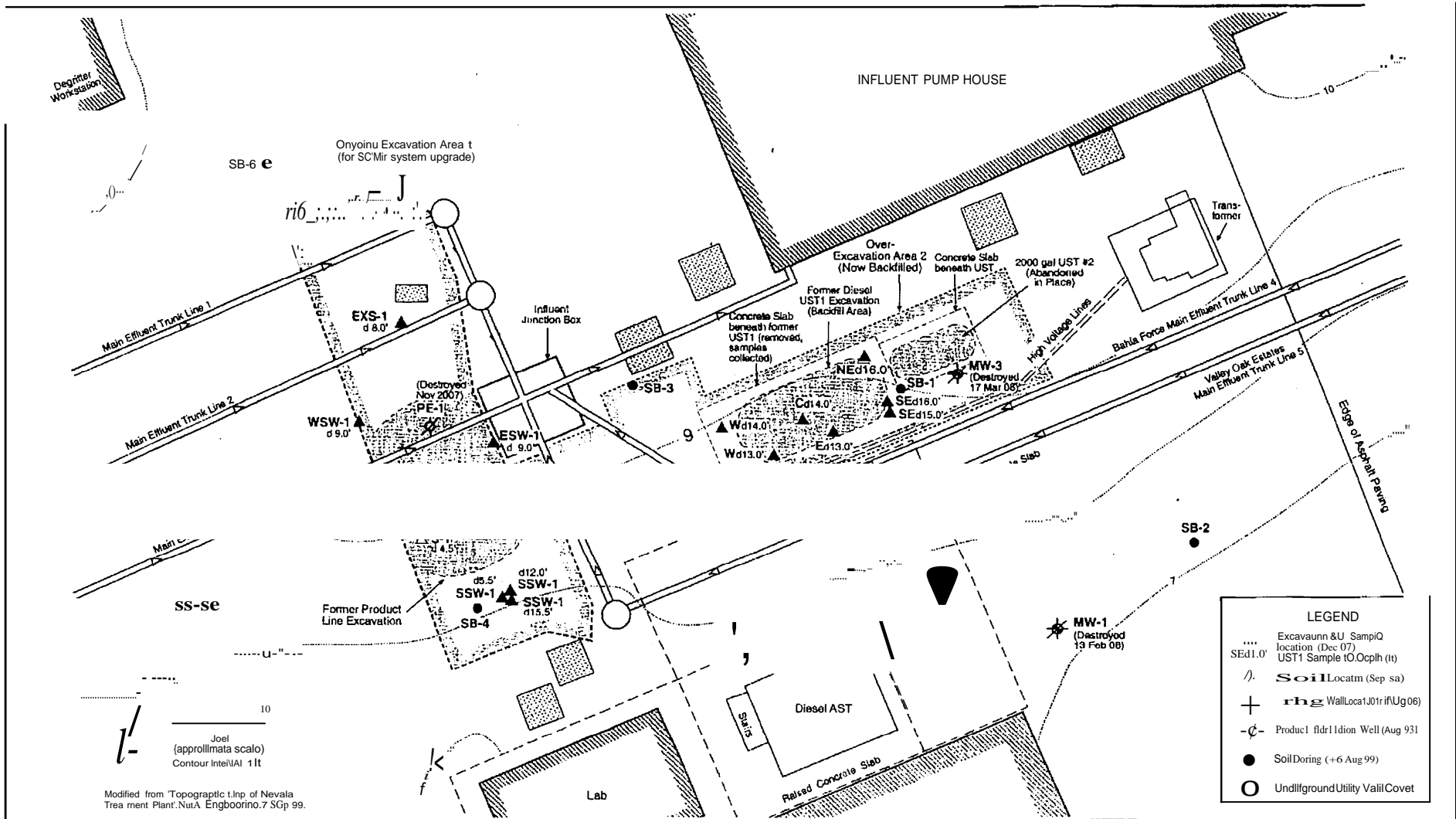


APPENDIX C
HAZARDOUS MATERIALS DATABASES

TABLE C-1 Primary Databases Searched

Database	Type of Records	Agency	Listed Sites
ERNS	Emergency Response Notification System	EPA	26
FTTS	Pesticide Enforcement Actions and Compliance	EPA	1
RCRA-LQG	Resource Conservation and Recovery Act Large Quantity Generator	EPA	3
RCRA-SQG	Resource Conservation and Recovery Act Small Quantity Generator	EPA	72
FINDS	Pointer to other more detailed databases	EPA	129
FUDS	Formerly Used Defense Site Properties	USACE	3
DOT OPS	Office of Pipeline Safety Incident and Accident Report	DOT	2
SCH	School sites being evaluated for hazmat contamination	DTSC	1
VCP	Low threat level properties	DTSC	1
RESPONSE	Sites undergoing active remediation	DTSC	1
HAZNET	Sites generating hazardous waste manifests	DTSC	1
ENVIROSTOR	Sites with known contamination or that have need for further investigation	DTSC	8
LUST	Leaking Underground Storage Tanks	SWRCB	50
SCP	Site Cleanup Program	SWRCB	12
UST	Active Underground Storage Tank Sites	SWRCB	126
AST	Active Aboveground Storage Tank Sites	SWRCB	9
Notify 65	Facility notification involving a release which could impact groundwater	SWRCB	7
CHMIRS	Hazardous material incidents, releases and spills	CA Office of Emergency Services	41
EMI	Toxics and criteria pollutant emissions data	ARB	51

Source: Stellar Environmental Services.



Modified from Topographic Map of Nevada
Treatment Plant, Nevada Engineering 7 SGp 99.

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

SITE PLAN
Novato Water District
Wastewater Treatment Facility
500 Davidson Street

NCDR#

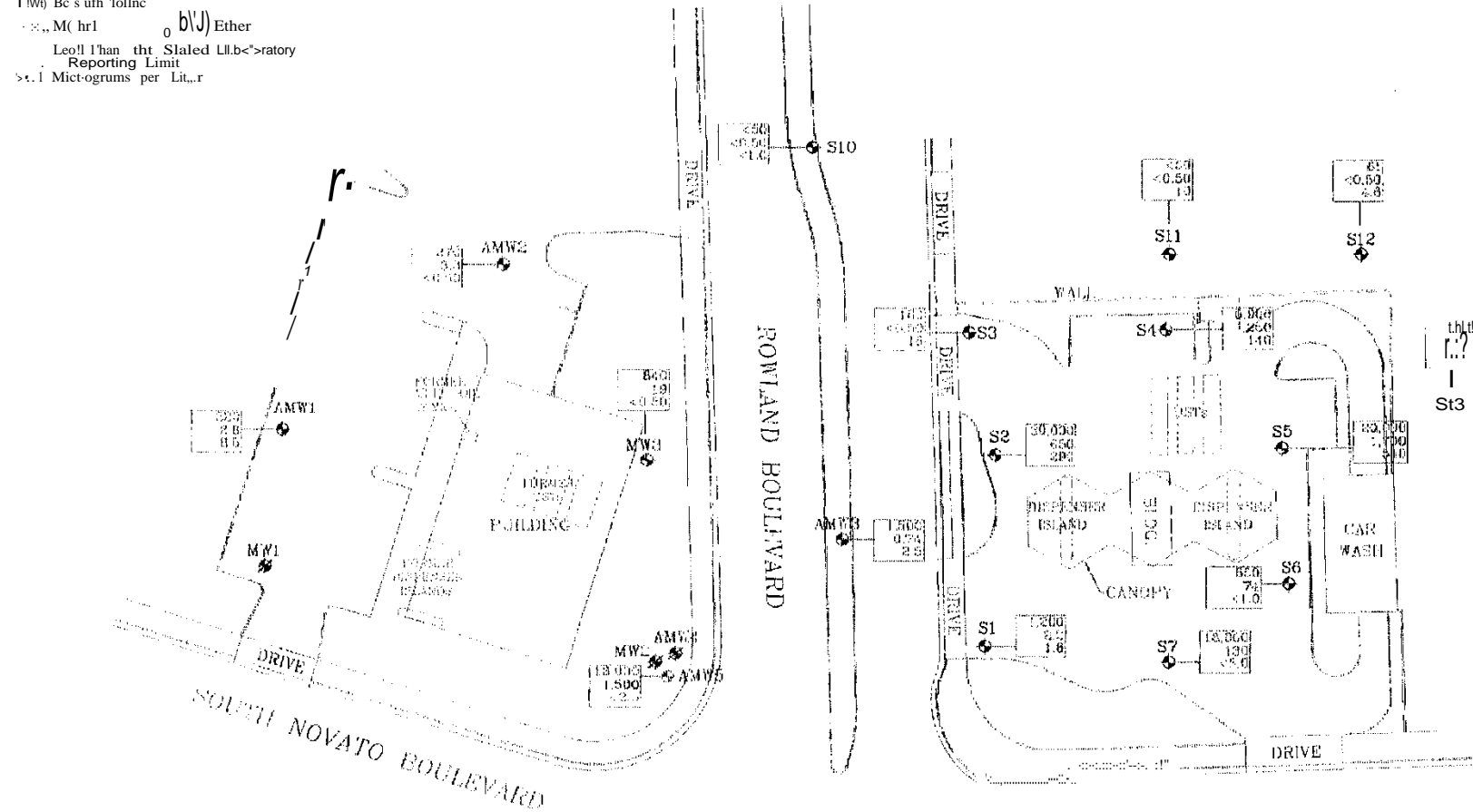
2

Analyte Concentrations in ug/L
 Sampled April 4, 2008

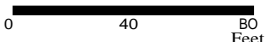
☐ Total Petroleum Hydrocarbons
 ☐ Benzene

☐ Methyl Ethyl Ether

☐ Reporting Limit
 ☐ Micrograms per Liter



APPROXIMATE SCALE



ERIC
 FN 2588 08 2QTLQM

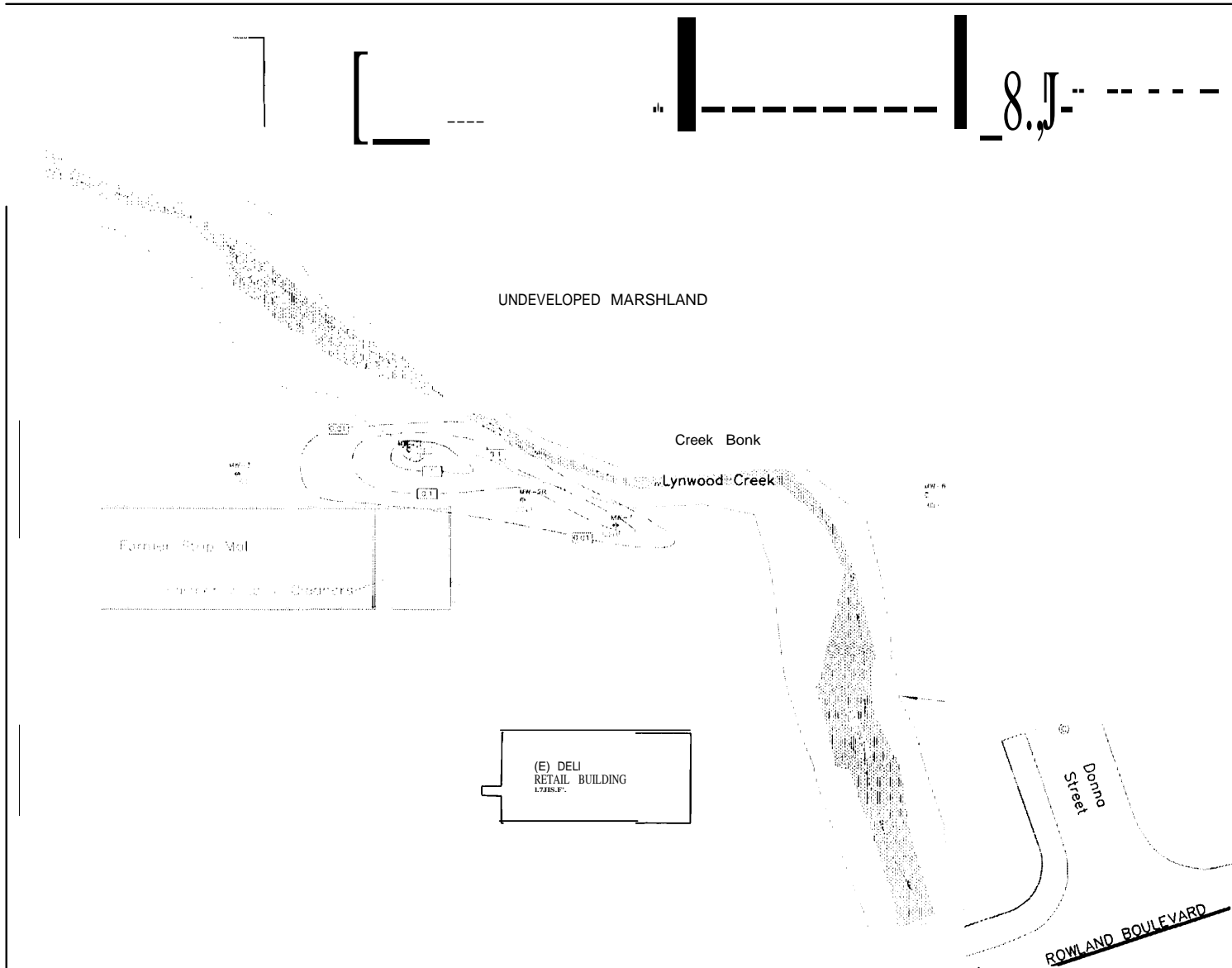


SELECT ANALYTICAL RESULTS
April 4, 2008
 FORMER
 MOBIL SERVICE STATION 04HTH
 1400 South Novato Boulevard
 Novato, California

100:1ANAJ.LQN
 AWW5
 Groundwater Monitoring Well

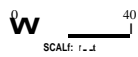
S13
 Groundwater Monitoring Well
 by Other
 AWW4
 Groundwater Monitoring Well

PROJECT NO.
 2588
 PLATE
 2



1.0 mg/L (100 ppb) VOC (as defined in 40 CFR 300.10) (100 parts per billion (ppb))
 2.0 mg/L (200 ppb) VOC (as defined in 40 CFR 300.10) (200 parts per billion (ppb))
 3.0 mg/L (300 ppb) VOC (as defined in 40 CFR 300.10) (300 parts per billion (ppb))

NOTES:
 Isopleths are approximate only.



LEGEND

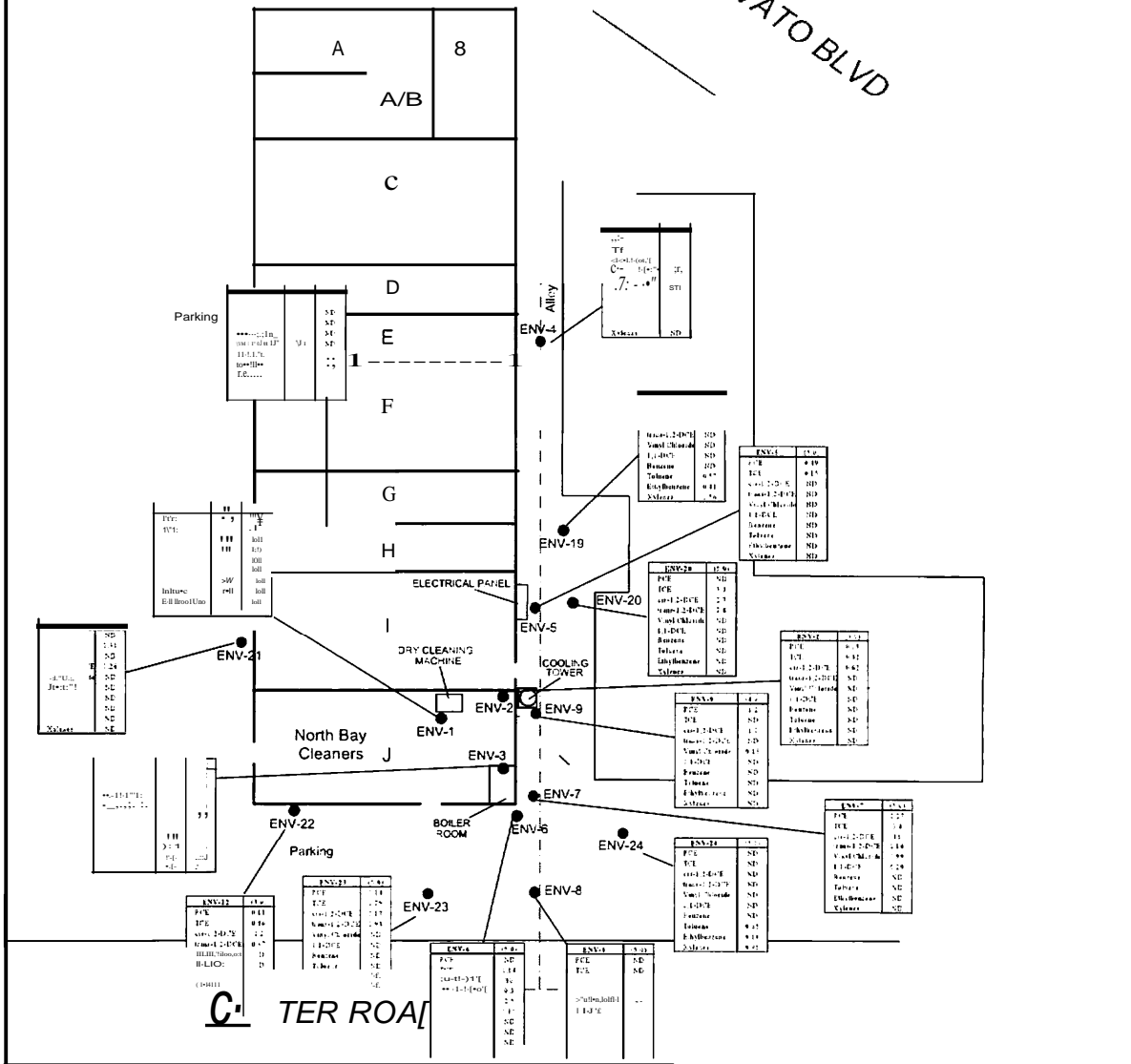
utVOCGUltra.wat" Ptulill
 (December 20, 2007)
 FORMER / TO 1 CLEANERS
 1430 South Novato Boulevard
 Novato, California
 MACTEC Project No. - 4088-07-54 76.02

Figure
4
 1122/08
 4088075476001.dwg

rMACTEC

1557- 1559
S. Novato Blvd.

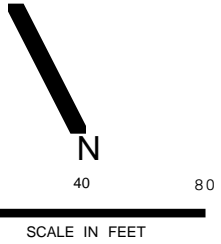
SOUTH NOVATO BLVD



LEGEND:
 ● SOIL GAS SAMPLE
 - SEWER LINE

NOTES:
 1. Only detected analytes shown.
 2. NO= Not Detected above laboratory reporting limit
 3. Concentrations reported in micrograms per liter (g./l.)

Sample	Sample Collection Dn pth (ft bgs)	Analyte	Concentration
ENV-1	1.0	U-D(E)	ND
ENV-2	1.0	U-D(E)	ND
ENV-3	1.0	U-D(E)	ND
ENV-4	1.0	U-D(E)	ND
ENV-5	1.0	U-D(E)	ND
ENV-6	1.0	U-D(E)	ND
ENV-7	1.0	U-D(E)	ND
ENV-8	1.0	U-D(E)	ND
ENV-9	1.0	U-D(E)	ND
ENV-19	1.0	U-D(E)	ND
ENV-20	1.0	U-D(E)	ND
ENV-21	1.0	U-D(E)	ND
ENV-22	1.0	U-D(E)	ND
ENV-23	1.0	U-D(E)	ND
ENV-24	1.0	U-D(E)	ND



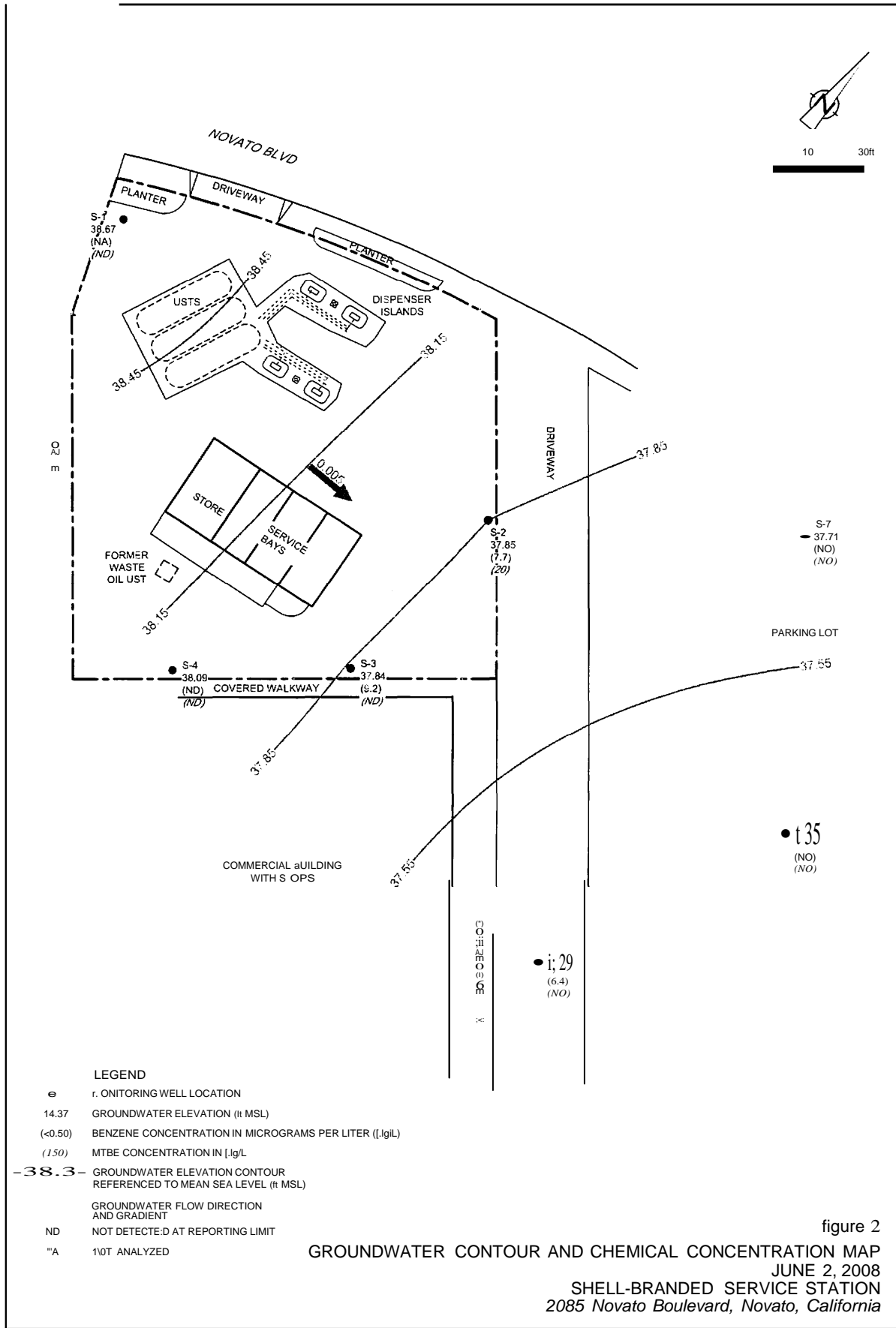
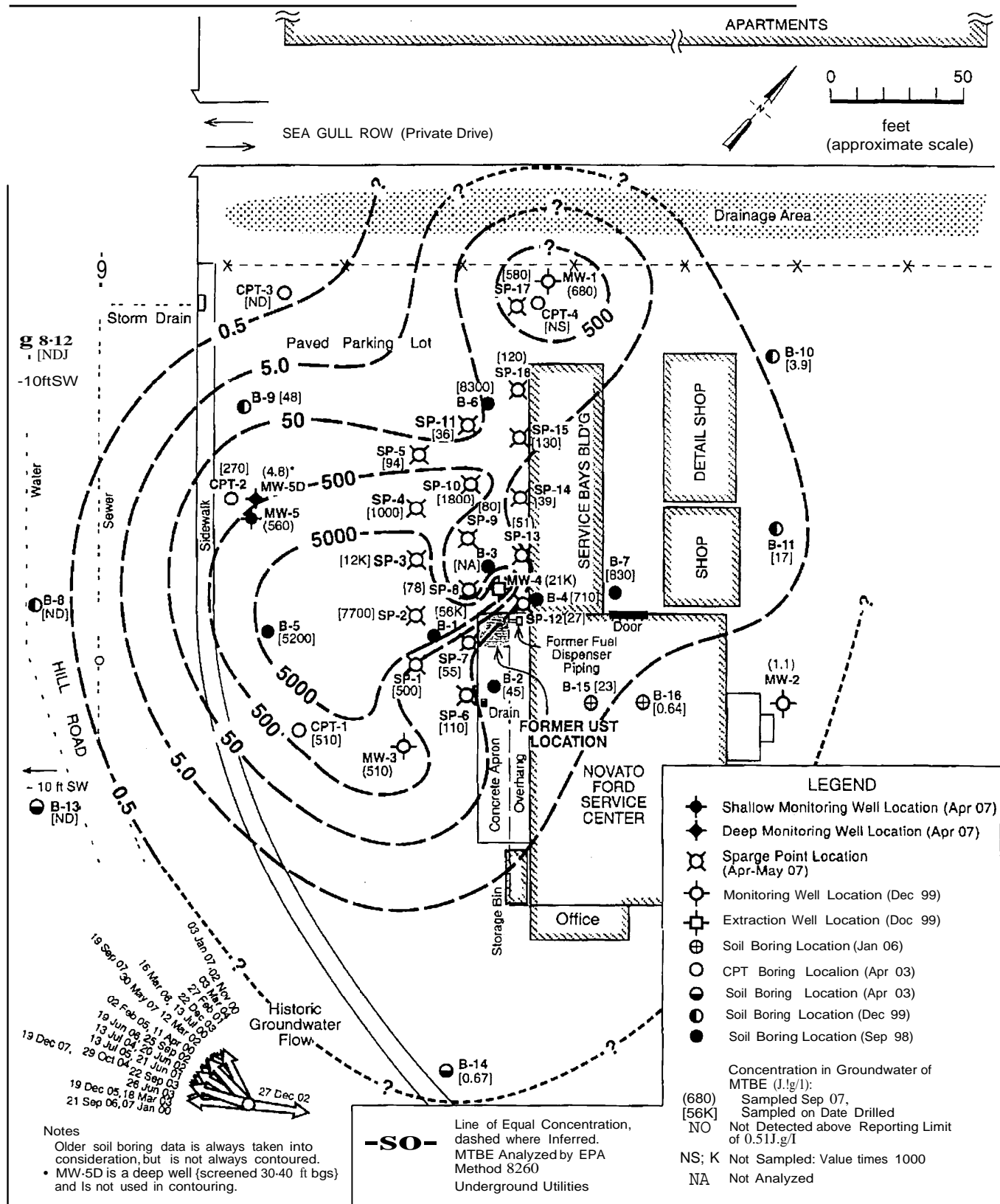


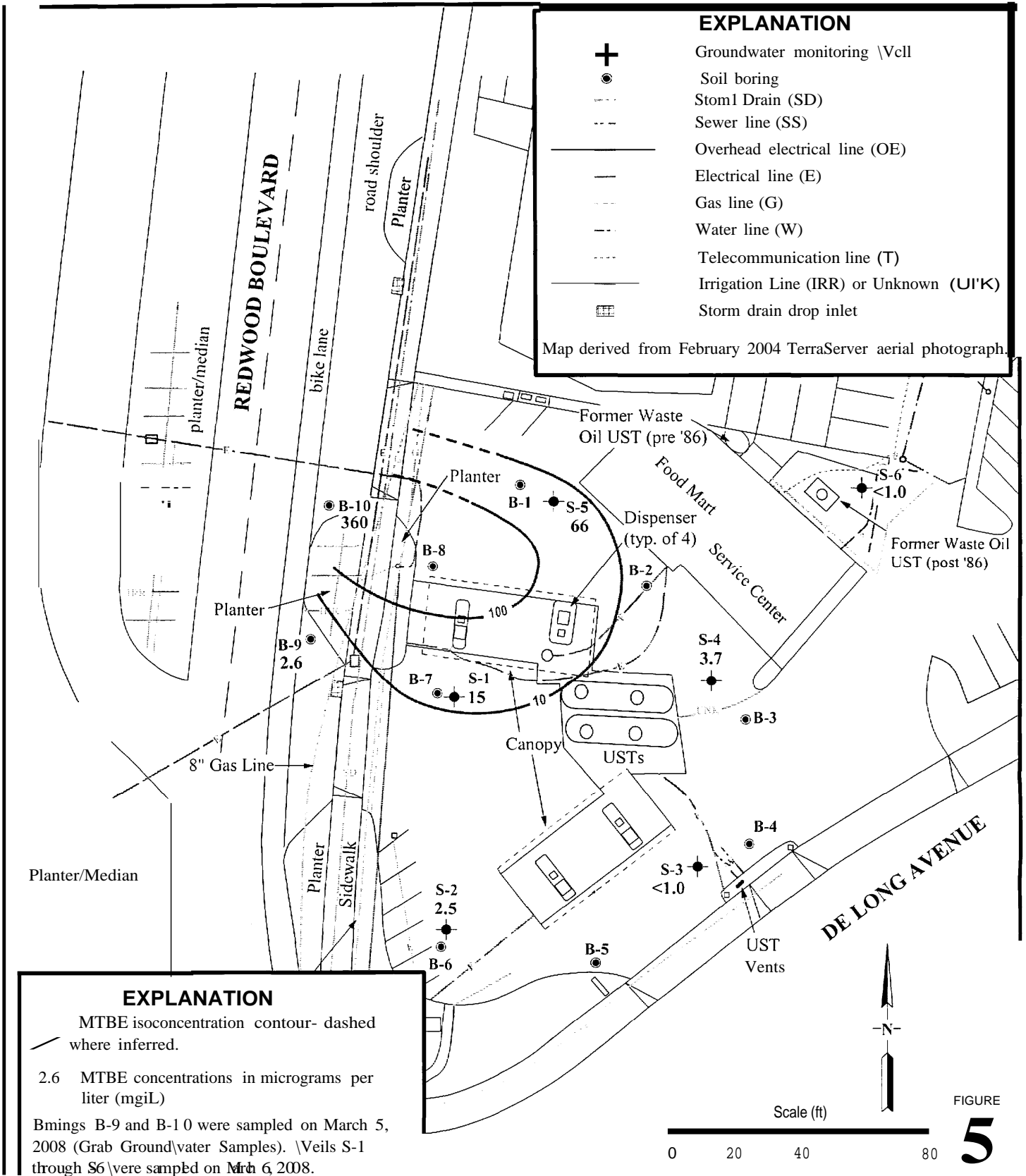
figure 2
GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP
 JUNE 2, 2008
 SHELL-BRANDED SERVICE STATION
 2085 Novato Boulevard, Novato, California



EDD CLARK & ASSOCIATES, INC.
 ENVIRONMENTAL CONSULTANTS

MTBE ISOCONCENTRATION IAP,
 SHALLOW GROUNDWATER, 19 December 2007
 Novato Ford
 6995 Redwood Boulevard

FIGURE
 28



Shell-branded Service Station
 7300 Redwood Boulevard
 Novato, California

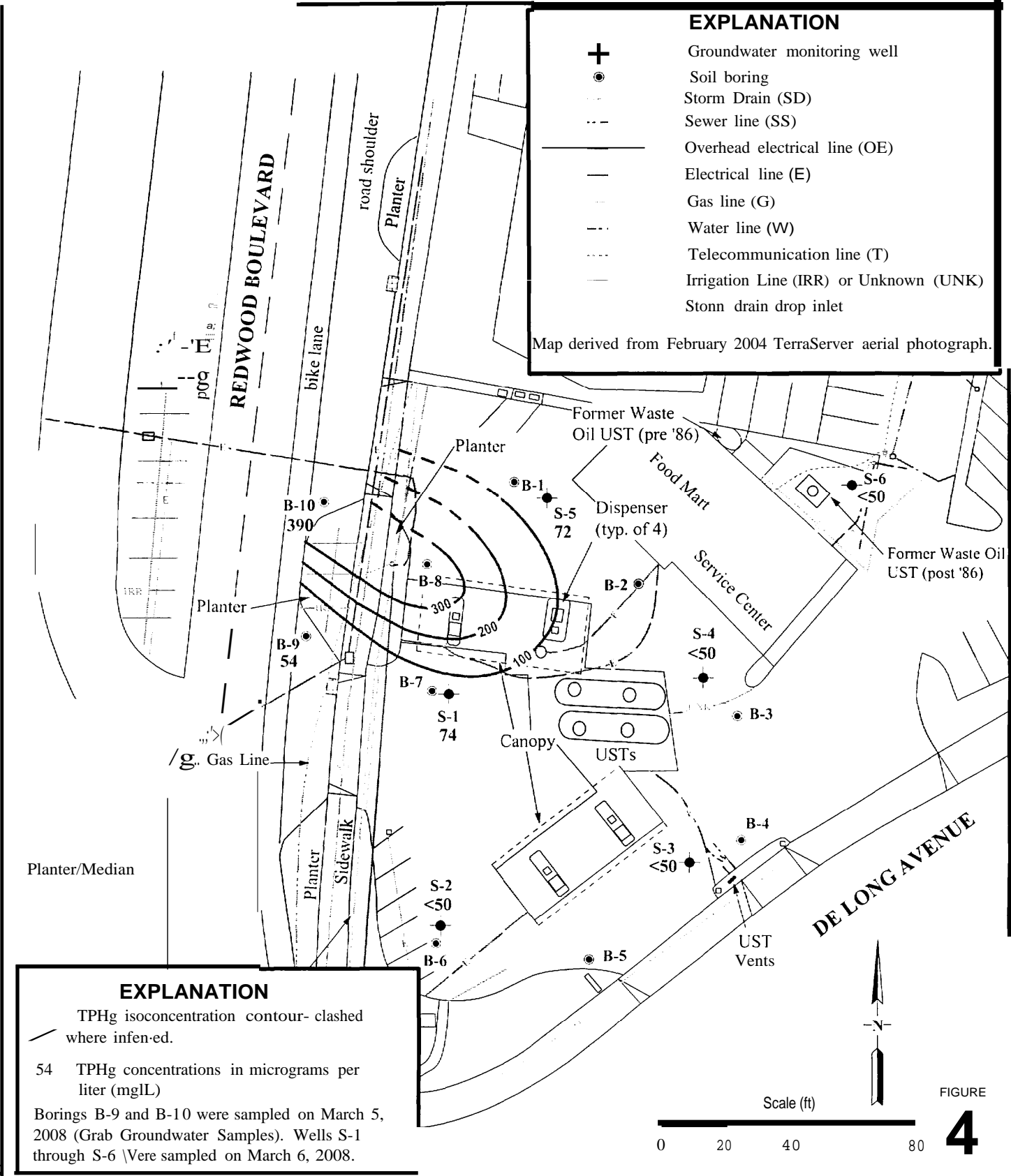
MTBE Isoconcentration Contour Map

March 5 and 6, 2008

EXPLANATION

- Groundwater monitoring well
- Soil boring
- Storm Drain (SD)
- Sewer line (SS)
- Overhead electrical line (OE)
- Electrical line (E)
- Gas line (G)
- Water line (W)
- Telecommunication line (T)
- Irrigation Line (IRR) or Unknown (UNK)
- Stonn drain drop inlet

Map derived from February 2004 TerraServer aerial photograph.



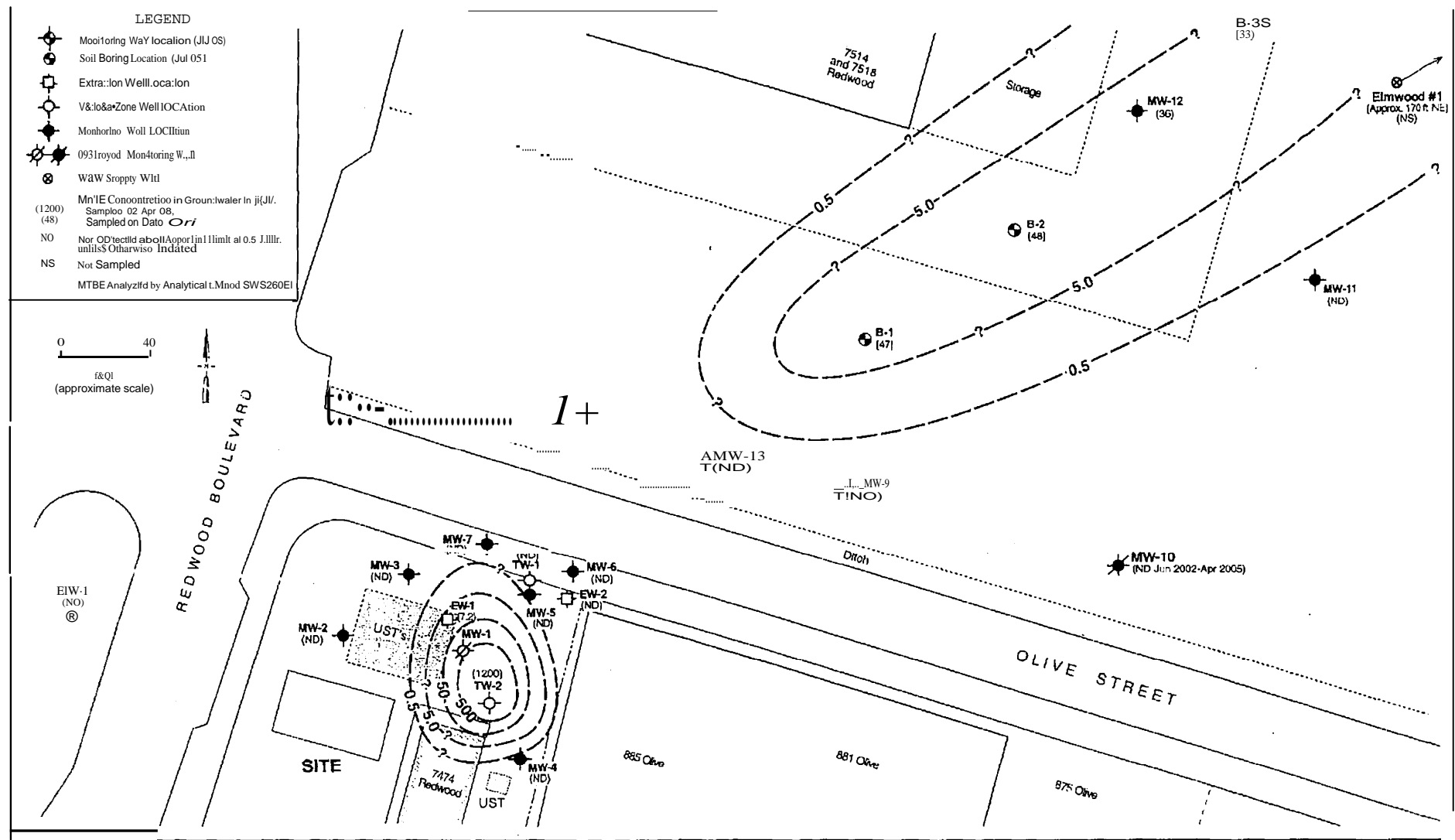
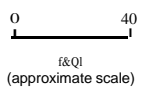
Shell-branded Service Station
 7300 Redwood Boulevard
 Novato, California

TPHg Isoconcentration Contour Map

March 5 and 6, 2008

LEGEND

- Monitoring Well Location (JUL 05)
 - Soil Boring Location (Jul 05)
 - Extraction Well Location
 - Vapor Zone Well Location
 - Monitoring Well Location
 - 0931royod Monitoring Well
 - WAW Sproppy Well
 - MTBE Concentration in Groundwater in (JUL)
(1200) Sampled 02 Apr 08,
(48) Sampled on Date *Ori*
 - NO Not Detected about Appor limit at 0.5 J.L.I.I.Ir. unless Otherwise Indated
 - NS Not Sampled
- MTBE Analyzfd by Analytical t.Mnod SWS260E1

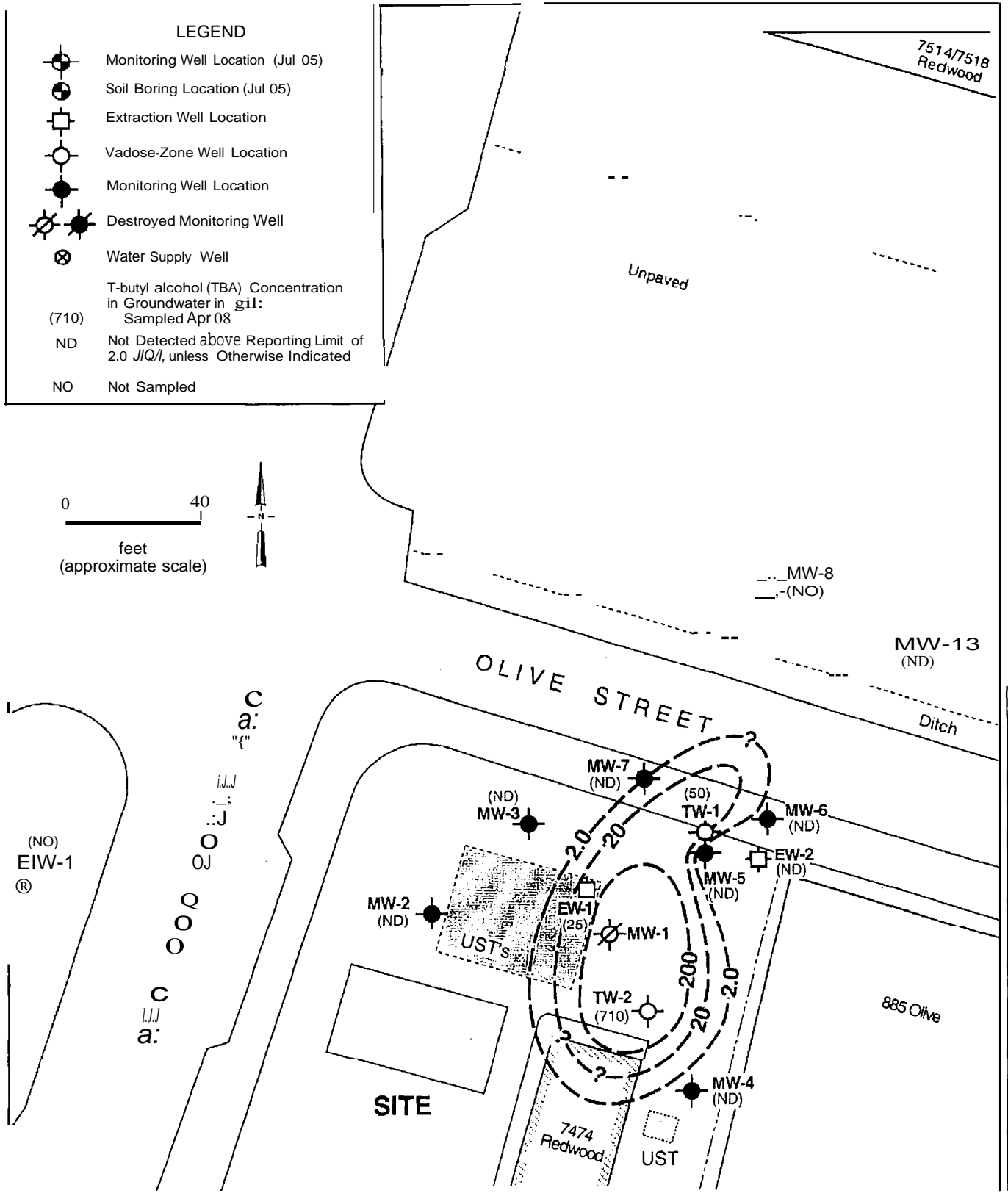


EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

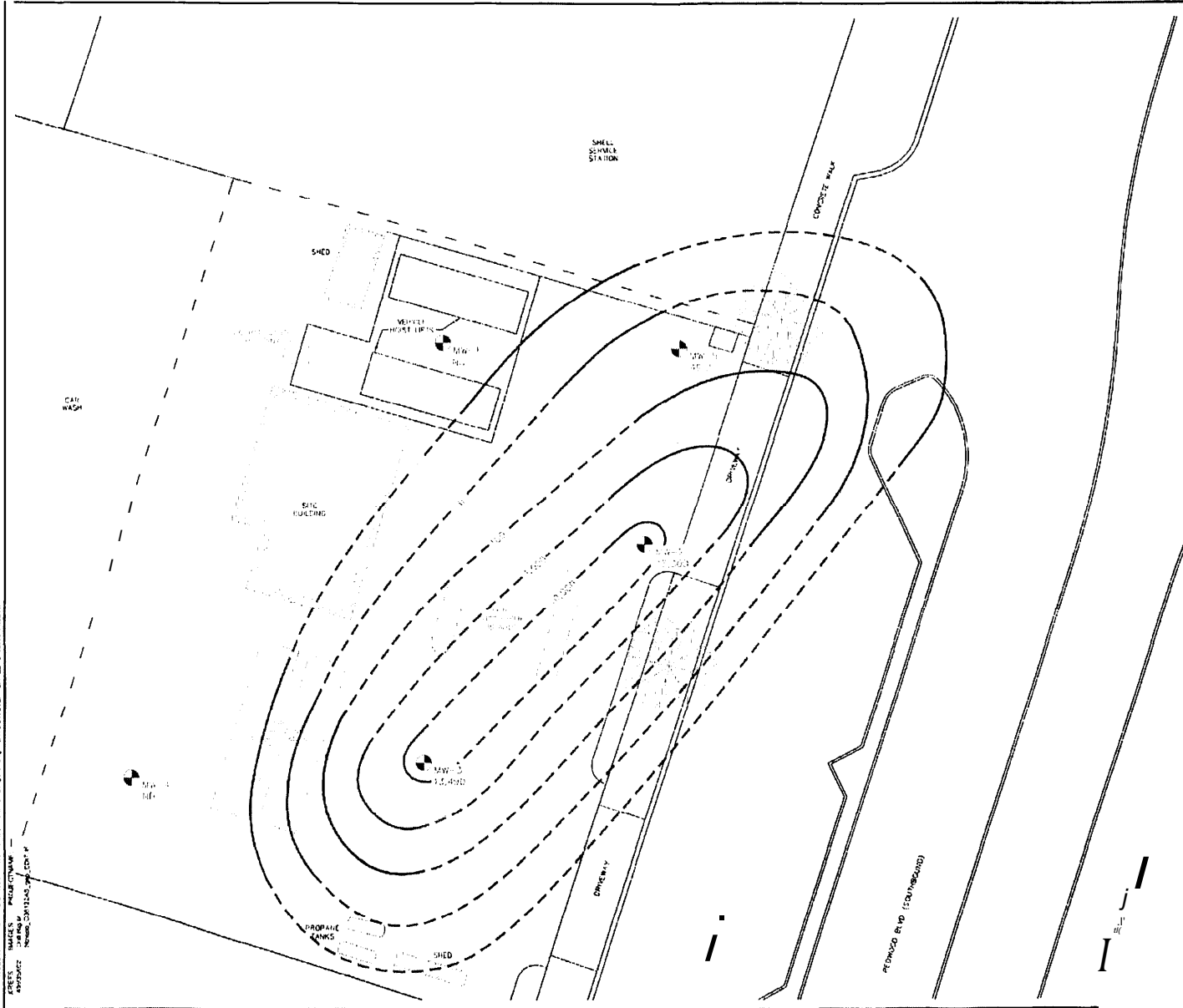
MTBE ISOCONCENTRATION MAP,
v. 03 April 2008
7474 Redwood Boulevard

FIGURE
4

NOVATO, CALIFORNIA
TIN 01.94.004.97
REVISED DATE: JUN 2008



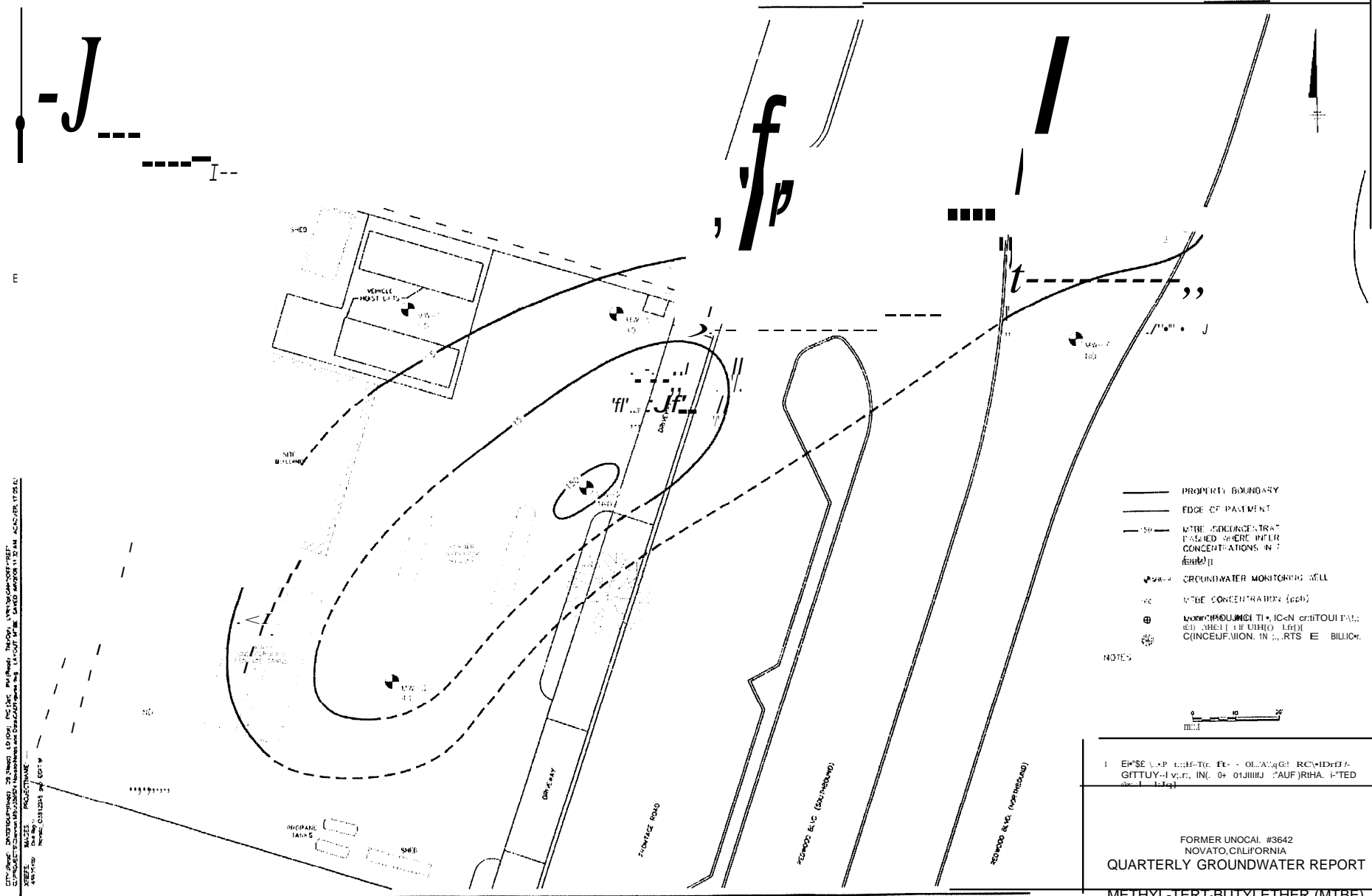
CITY OF...
 PROJECT...
 DATE...
 DRAWN BY...
 CHECKED BY...



- ILLINO.
 --- PROPERTY BOUNDARY
 --- EDGE OF PAVEMENT
 --- 1000
 --- 2000
 --- 3000
 --- 4000
 --- 5000
 --- 6000
 --- 7000
 --- 8000
 --- 9000
 --- 10000
 MW-1
 MW-2
 MW-3
 MW-4
 TREE

NOTES
 1. ISOCENTERS ADAPTED FROM DRAWINGS PROVIDED BY THE CLIENT AND ARE BASED ON DATA FROM THE FOLLOWING MONITORING WELLS: MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24, MW-25, MW-26, MW-27, MW-28, MW-29, MW-30, MW-31, MW-32, MW-33, MW-34, MW-35, MW-36, MW-37, MW-38, MW-39, MW-40, MW-41, MW-42, MW-43, MW-44, MW-45, MW-46, MW-47, MW-48, MW-49, MW-50, MW-51, MW-52, MW-53, MW-54, MW-55, MW-56, MW-57, MW-58, MW-59, MW-60, MW-61, MW-62, MW-63, MW-64, MW-65, MW-66, MW-67, MW-68, MW-69, MW-70, MW-71, MW-72, MW-73, MW-74, MW-75, MW-76, MW-77, MW-78, MW-79, MW-80, MW-81, MW-82, MW-83, MW-84, MW-85, MW-86, MW-87, MW-88, MW-89, MW-90, MW-91, MW-92, MW-93, MW-94, MW-95, MW-96, MW-97, MW-98, MW-99, MW-100.

FORMER UNOCAL #3542
 NOVATO, CALIFORNIA
QUARTERLY GROUNDWATER REPORT
 TOTAL BENZENE, TOLUENE
 ETHYLBENZENE, AND XYLENES (IHEX)
 --- -ISO_-; -O- C- --- -A;-; -N_M_AP_- "



CITY OF ARCADIS, INVESTIGATING 20 YEARS, 10' (SEE PLAN) FOR THE PROPERTY. THIS REPORT IS FOR THE PROPERTY ONLY. THE CITY OF ARCADIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THE DATA PROVIDED BY THE CLIENT. THE CITY OF ARCADIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THE DATA PROVIDED BY THE CLIENT. THE CITY OF ARCADIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THE DATA PROVIDED BY THE CLIENT.

- PROPERTY BOUNDARY
- EDGE OF PAVEMENT
- - - MTBE CONCENTRATION BASED SPHERE INTER CONCENTRATIONS IN 1' (SEE PLAN)
- GROUNDWATER MONITORING WELL
- MTBE CONCENTRATION (ppb)
- MTBE CONCENTRATION (ppb) (SEE PLAN)
- MTBE CONCENTRATION (ppb) (SEE PLAN)

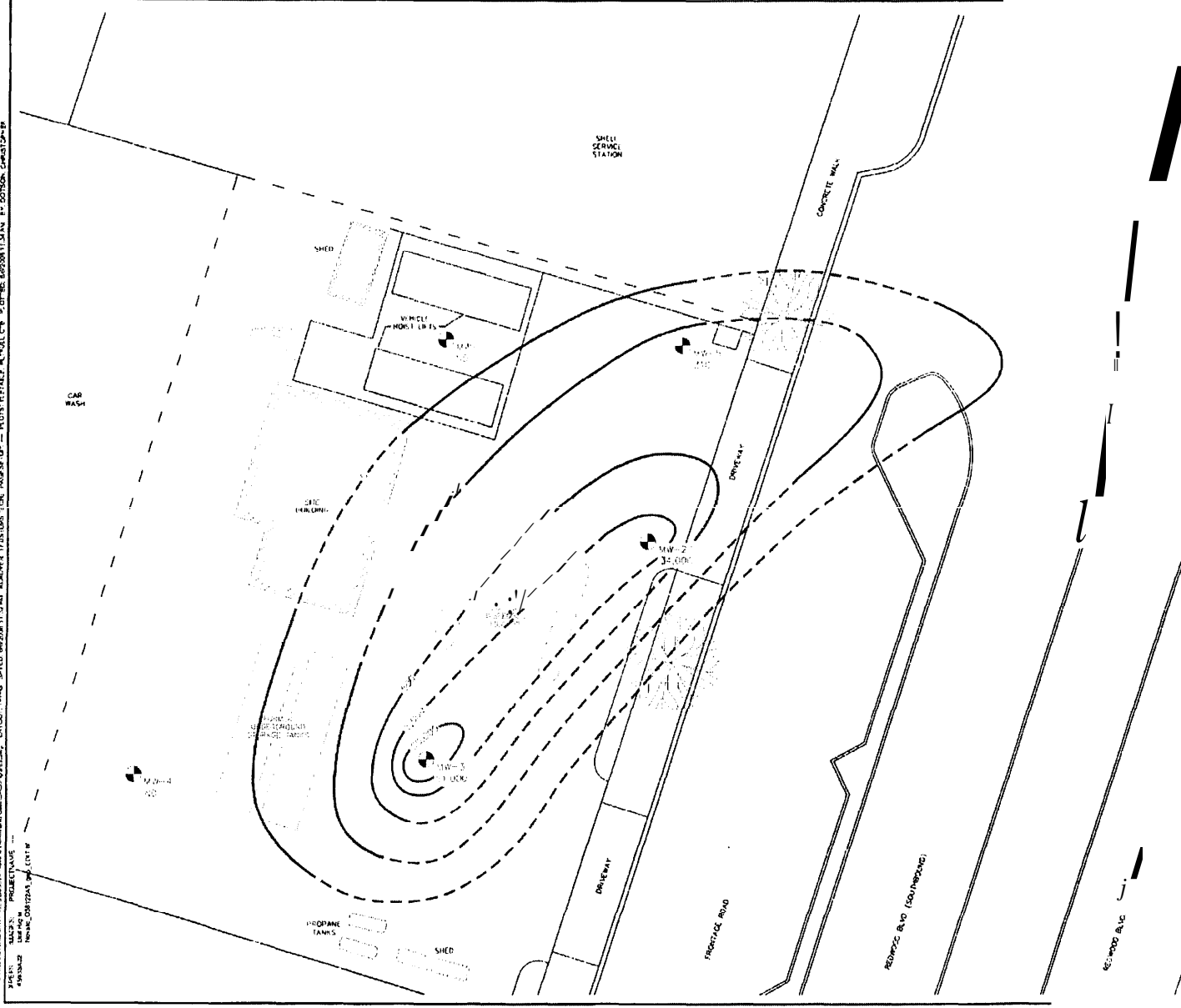
NOTES:
 1. 0 10 20 FEET
 SCALE

FORMER UNOCAL #3642
 NOVATO, CALIFORNIA
 QUARTERLY GROUNDWATER REPORT

METHYL-TERT-BUTYLETHER (MTBE)
 JSOCONCENTRATION MAP
 FIGURE 6

If "ARCADIS

NOVATO, CALIFORNIA
UNOCAL #3642
FORMER UNOCAL #3642
NOVATO, CALIFORNIA
QUARTERLY GROUNDWATER REPORT
TOTAL PETROLEUM HYDROCARBONS
AS GASOLINE (TPH-g)
ISOCONCENTRATION MAP



LEGEND

- PROPERTY BOUNDARY
- EDGE OF PAVEMENT
- IP11-9 (TUC) 1st-ENR-1 (JULY 2007) CONJUR
II (SUG) V.H.E. JURU-1 (1-10-10)
CONC-1 (TR/UNS-1) F. (rS) PEP (JULY 14
2007)
- MONITORING WELL
- TPH-g CONCENTRATION (ppb)
- ELI (LUBRIP) WELL
- EIP (RU)

VALUES

- 0.00
- 5.00
- 10.00
- 15.00
- 20.00
- 25.00
- 30.00
- 35.00

FORMER UNOCAL #3642
NOVATO, CALIFORNIA
QUARTERLY GROUNDWATER REPORT

**TOTAL PETROLEUM HYDROCARBONS
AS GASOLINE (TPH-g)
ISOCONCENTRATION MAP**

ARCADIS

FIGURE: **4**

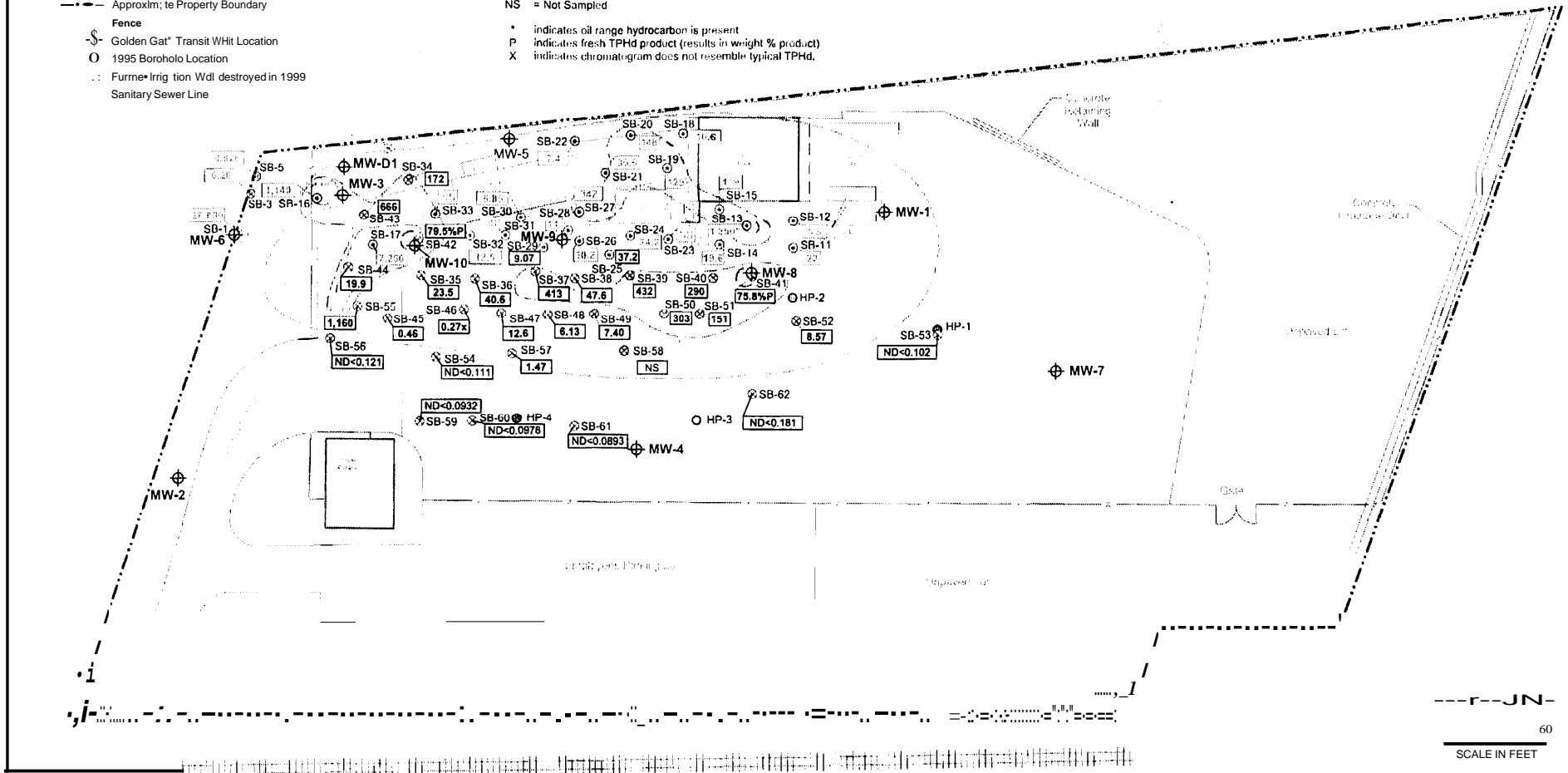
Explanation

- SB-5 (V) Soil/Groundwater Ass'n* Sample Location, June 16, 2006
- SB-111 (O) Soil/Groundwater Assessment Sample Location, June 27-29, 2006 with TPHd Groundwater Concentration, mg/L
- SB-340 Soil/Groundwater Assessment Sample Location, October 18-20, 2006 with TPHd Groundwater Concentration, mg/L
- - - - - Approximate Property Boundary
- Fence
- ⊕ Golden Gate Transit WHit Location
- 1995 Boroholo Location
- ⋯ Former Irrigation Well destroyed in 1999
- Sanitary Sewer Line

- 172 TPHd Groundwater Concentration, mg/L
- TPHD = Total Petroleum Hydrocarbons as diesel
- ND = Not Detected
- mg/L = milligrams per liter
- NS = Not Sampled

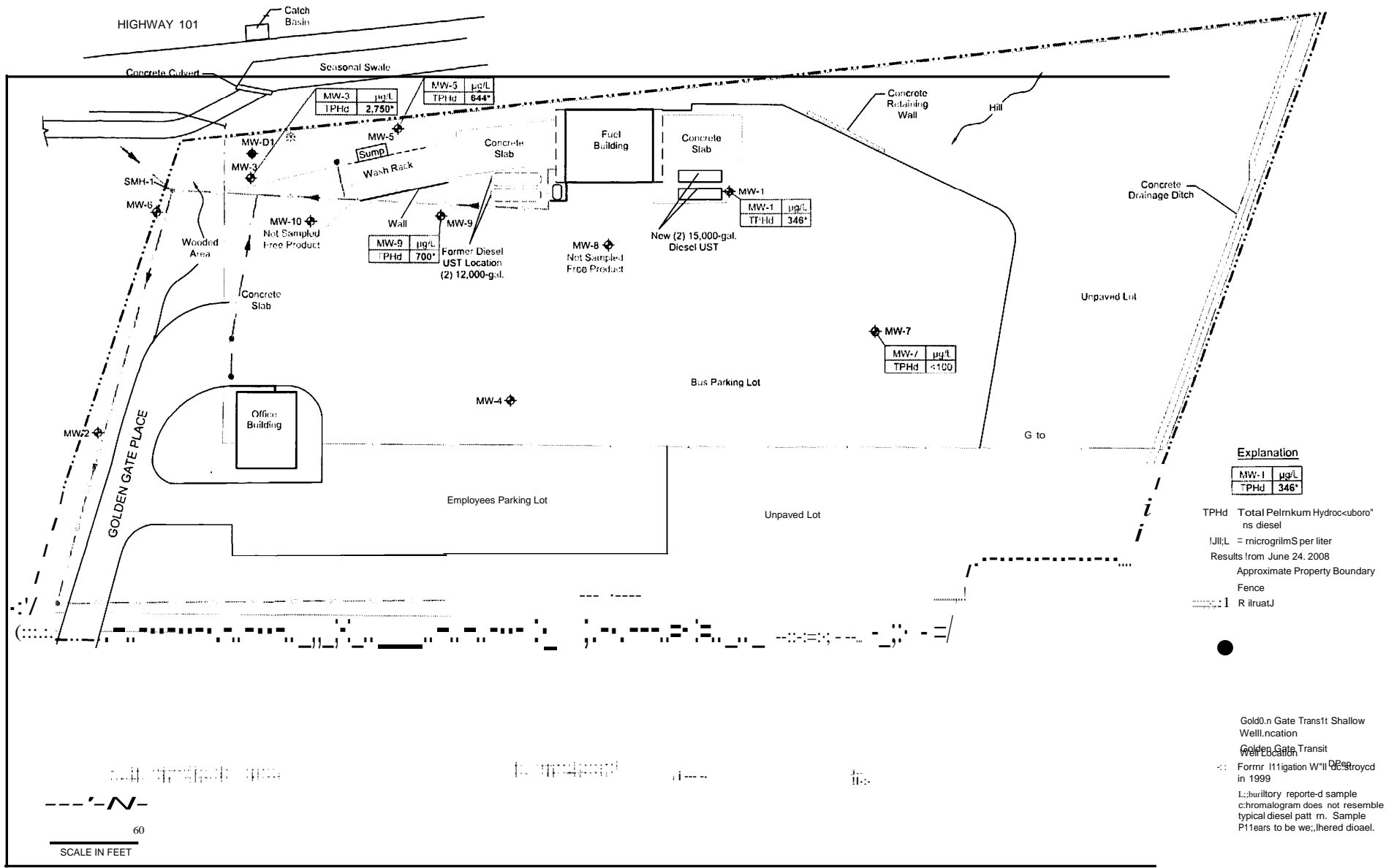
- indicates oil range hydrocarbon is present
- P indicates fresh TPHd product (results in weight % product)
- X indicates chromatogram does not resemble typical TPHd.

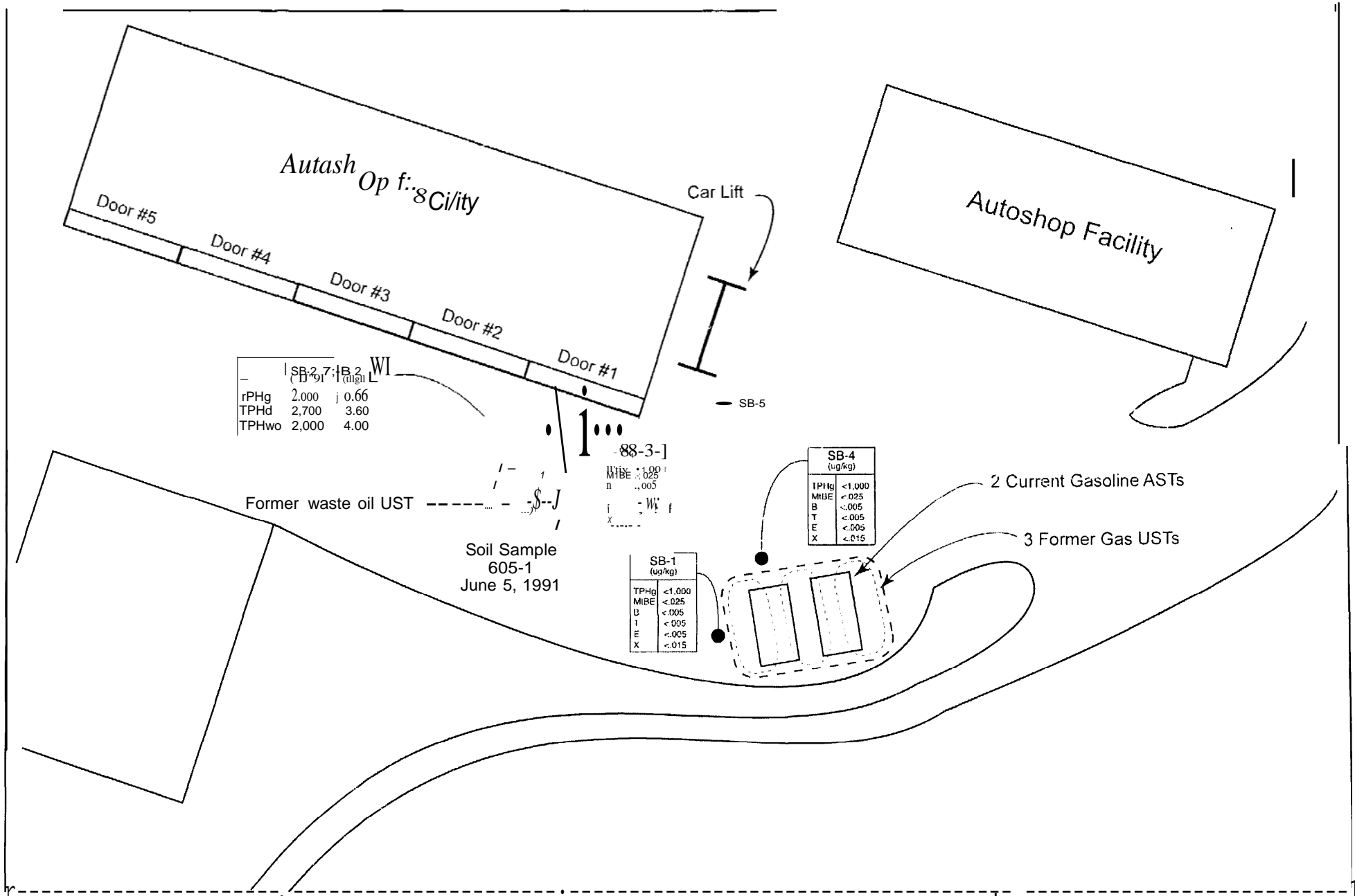
- P — Fresh Product Iso-contour
- 1,000 mg/L TPHd Iso-contour
- 100 mg/L TPHd Iso-contour
- ND<0.100 mg/L TPHd Iso-contour



PES: Environmental, Inc.
Engineering & Environmental Services

2006 TPHd Iso-concentration Groundwater Contours
Golden Gate Bridge Highway and Transportation District
Novato Bus Facility
801 Golden Gate Place
Novato, California





ERG

Environmental Resource Group

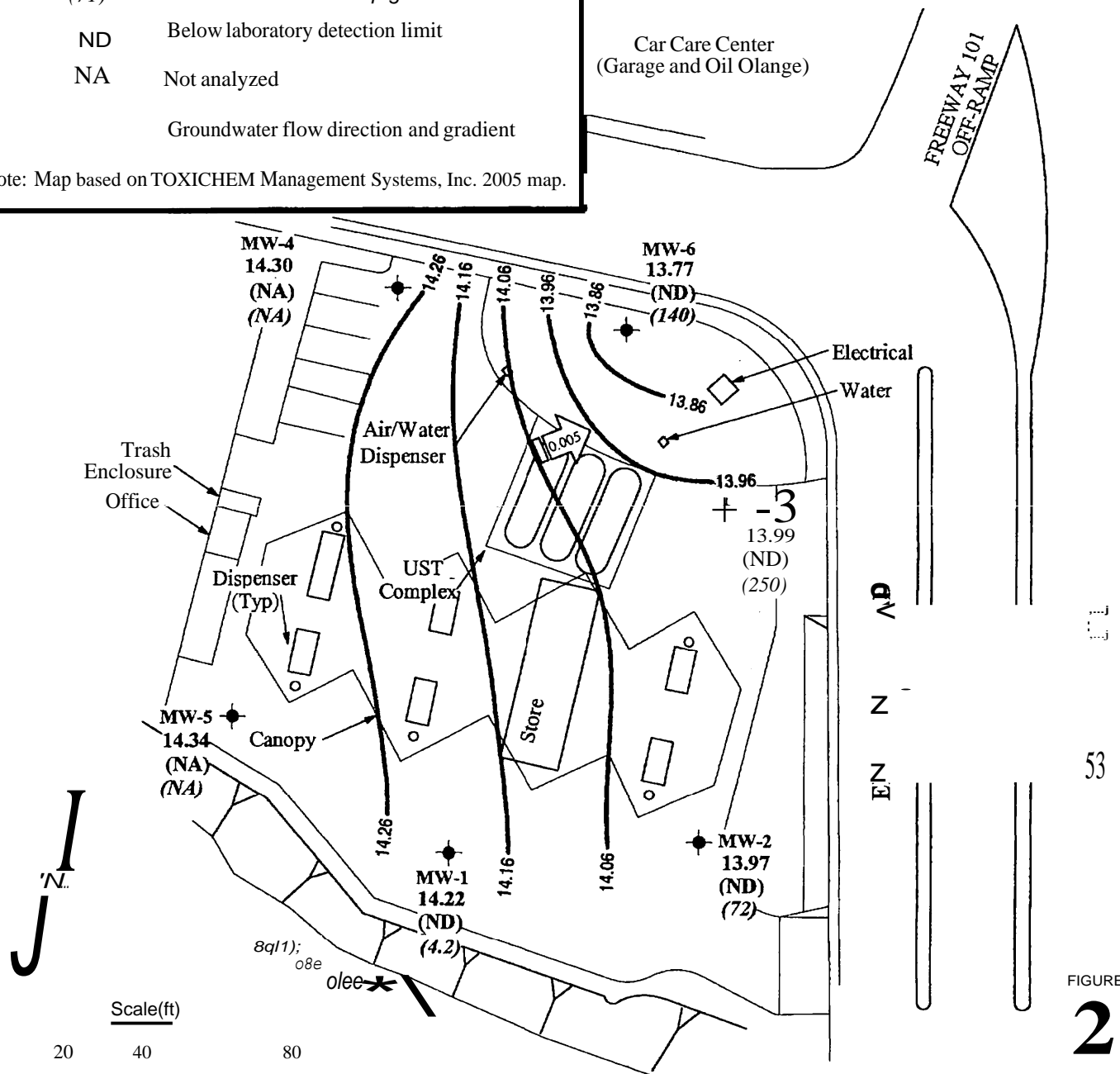
INDIAN VALLEY COLLEGE
Auto Shop Yard
Ignacio, California

Plate 2
Boring Locations and
Soil & Ground Water Results

EXPLANATION

- +** Groundwater monitoring well
- Groundwater elevation contour in feet referenced to mean sea level (ft msl).
- 14.27 Groundwater elevation in ft msl
- (ND) Benzene concentration in micrograms per liter (µg/L)
- (71) MTBE concentration in µg/L
- ND Below laboratory detection limit
- NA Not analyzed
- Groundwater flow direction and gradient

Note: Map based on TOXICHEM Management Systems, Inc. 2005 map.



ND
 Z
 EN
 53

FIGURE
2

Shell-branded Service Station

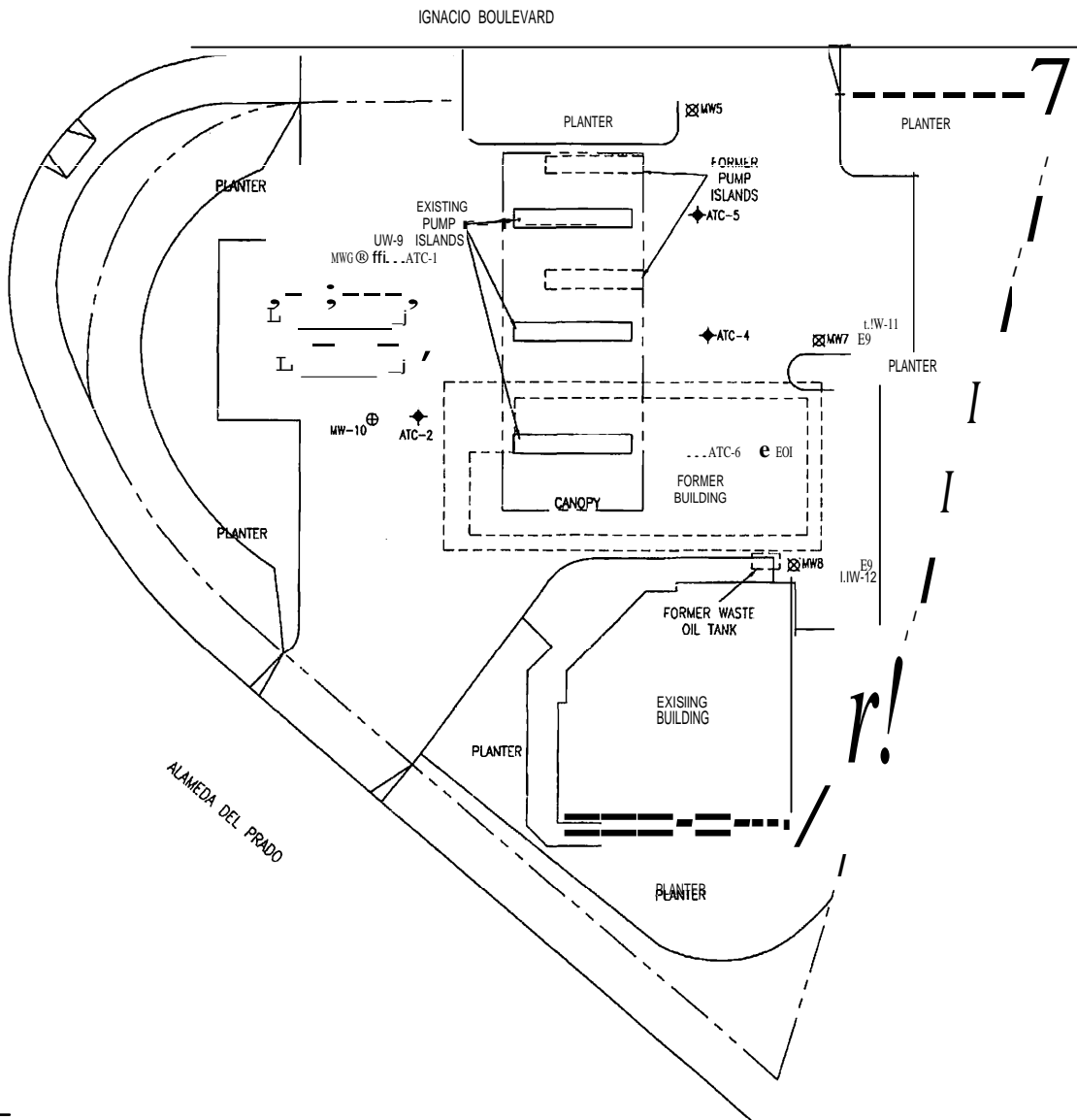
401 Enfronte Road
Novato, California



CONESTOGA-ROVERS
P. ASSOCIATES

**Groundwater Contour and
Chemical Concentration Map**

June 10, 2008



- ⊗ MW MONITORING WELL (ABANDONED)
- EOI EXPLORATORY BORING (KEI)
- ◆ ATC- SOIL BORING (ATC)
- ⊕ MW- PROPOSED MONITORING WELL

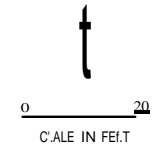
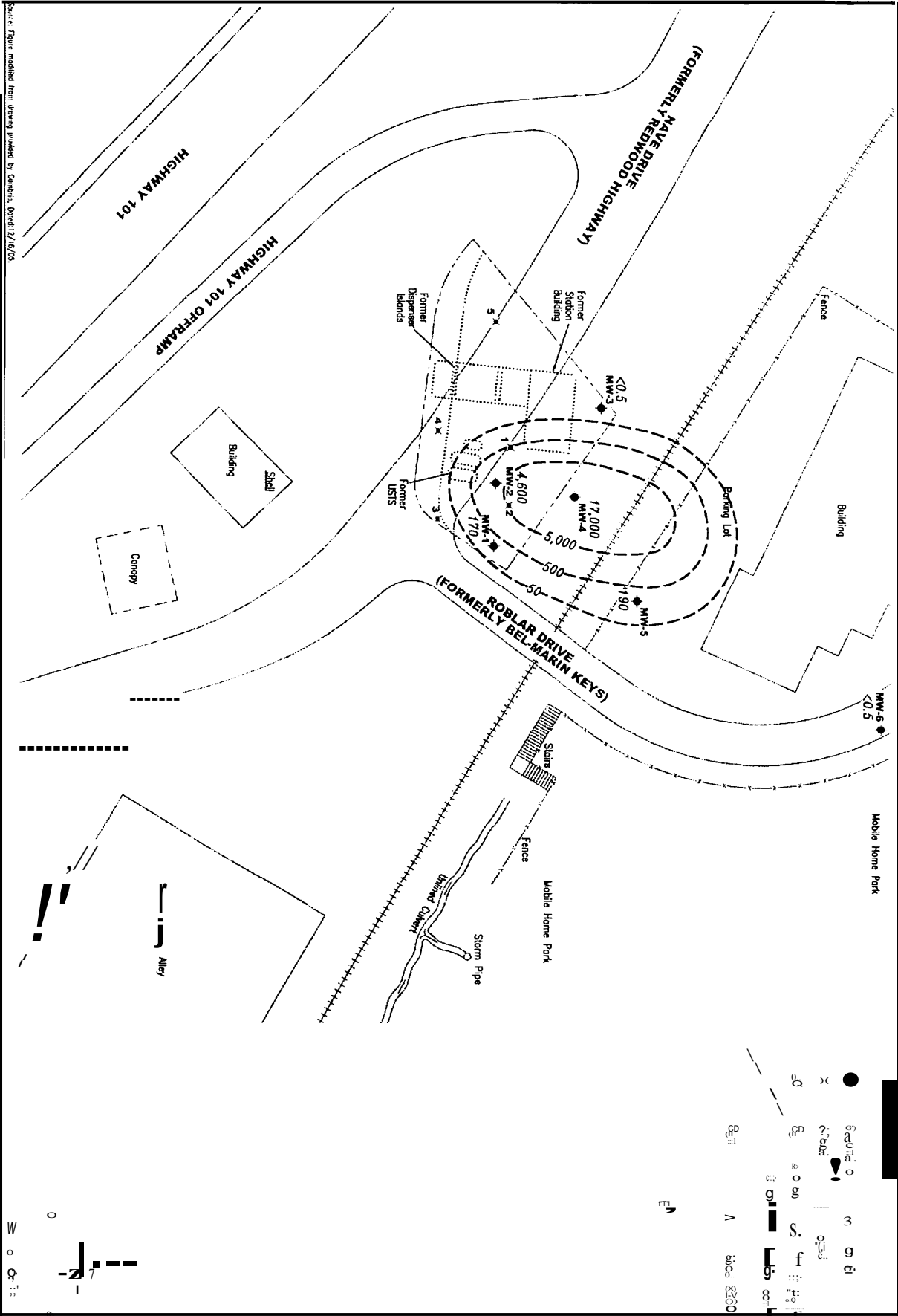


FIGURE 2
SITE MAP

76 STATION NO. 5727
375 IGNACIO BOULEVARD
NOVATO, CALIFORNIA

PROJECT NO. C1057-2700-1	PREPARED BY DO	DRAWN BY OR	DELTA
= - - - -	REVISION	DATE	
5/25/08		5727.m	





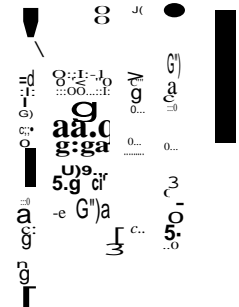
PROJECT NUMBER
386377

REVIEWED BY (S):

TPH-G ISOCONCENTRATION MAP
Former Chevron Service Station #9-6151
5810 Nave Drive
Novato, California

DATE
July 10, 2008

REVISED DATE



FIGURE

2

Source: Figure 1
File: \\enviro\chevron\3-6151\028-8-0151.dwg | Layout: 15.dwg
Plotted from drawing provided by Chevron, Date: 2/16/05

