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

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

September 12, 2000
StID # 1068

REMEDIAL ACTION COMPLETION CERTIFICATION

Exxon-Mobil Co.
Mr. Darin Rouse
P.O. Box 4032
Concord, CA 94524-4032

Resources for Community Development
Ms. Lisa Motoyama
2131 University Ave., Ste. 224
Berkeley, CA 94704

RE: 6600 E. 14th St., Oakland 94621

Dear Mr. Rouse and Ms. Motoyama:

This letter confirms the completion of site investigation and remedial action for the one (1) 550 waste oil and the three (3) 10,000 gallon gasoline tanks formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground tank is greatly appreciated.

Based on information in the above-referenced file and with provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of this Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) as the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code.

Please contact Barney Chan at (510) 567-6765 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung
Director, Environmental Health

c: B. Chan, Hazardous Materials Division-files
Mr. Chuck Headlee, RWQCB
Mr. Allan Patton, SWRCB Cleanup Fund
Mr. Leroy Griffin, City of Oakland OES, 1605 Martin Luther King Dr., Oakland CA 94612

RACC6600E14thSt

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

September 14, 2000
StID# 1068

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

Mr. Darin Rouse
Exxon-Mobil Co.
P.O. Box 4032
Concord CA 94524-4032

Ms. Lisa Motoyama
Resources for Community Development
2131 University Ave., Ste. 224
Berkeley, CA 94704

RE: Fuel Leak Site Case Closure, 6600 E. 14th St., Oakland CA 94621

Dear Mr. Rouse and Ms. Motoyama:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with the Health and Safety Code, Chapter 6.75 (Article 4, Section 25299.37 h). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Health Services, Local Oversight Program (LOP) is required to use this case closure letter. We are also enclosing the case closure summary. This document confirms the completion of the investigation and cleanup of the reported release at the subject site.

Site Investigation and Cleanup Summary:

Please be advised that the following conditions exist at the site:

* 13 parts per million (ppm) Total Petroleum Hydrocarbons as gasoline (TPHg), 25 ppm TPH as diesel, and 0.037 and 0.075 ppm toluene and xylenes, respectively remain in the soil at the site.

- 160 parts per billion (ppb) TPH as gasoline, 180 ppb TPH as diesel, 12 ppb benzene and 420 ppb MTBE remain in the groundwater at the site.

This site should be included in the City's permit tracking system. You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M Chan

Barney M. Chan
Hazardous Materials Specialist

enclosures: Case Closure Letter, Case Closure Summary

c: Mr. L. Griffin, City of Oakland OES, 1605 MLK Jr. Way, Oakland CA 94612
✓B. Chan, files (letter only) Trlt6600E14thSt

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION **Date: June 16,2000**

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Parkway Rm 250, Alameda CA 94502**

City/State/Zip: **Alameda** Phone: **(510) 567-6700**

Responsible staff person:**Barney Chan** Title: **Hazardous Materials Spec.**

II. CASE INFORMATION

Site facility name: Former Exxon Station

Site facility address: 6600 E. 14th St., Oakland CA 94621

RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: 1068

ULR filing date: 4/3/91 SWEEPS No: **N/A**

Responsible Parties:	Addresses:	Phone Numbers:
1. Exxon-Mobil Co. c/o Mr. Darin Rouse	P.O. Box 4032 Concord, CA 94524-4032	925-246-8768
2. Resources for Community Development c/o Ms. Lisa Motoyama	2131 University Ave. Suite224 Berkeley, CA 94704	510-841-2210 x19

Tank No:	Size in gal.:	Contents:	Closed in-place or removed?:	Date:
1	550	waste oil	removed	12/20/96
2	10,000	gasoline	removed	"
3	10,000	gasoline	removed	"
4	10,000	gasoline	removed	"

III RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: possibly from releases from the dispenser

Site characterization complete? Yes

Date approved by oversight agency:

Monitoring Wells installed? Yes Number: 14: 11 monitoring, 3 VEWs

III RELEASE AND SITE CHARACTERIZATION INFORMATION

Proper screened interval? Yes, generally screened from 3-25' bgs

Highest GW depth: 4.4'bgs Lowest GW depth: 13.0' bgs

Flow direction: from south-45 degrees west

Most sensitive current use: commercial/industrial, however residential housing is planned on the site

Are drinking water wells affected? No Aquifer name: NA

Is surface water affected? No Nearest affected SW name: NA

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

Report(s) on file? Yes Where is report(s)? Alameda County
1131 Harbor Bay Parkway,
Room 250, Alameda CA 94502-6577

and City of Oakland, OES
1605 Martin Luther King Dr.
Oakland CA 94612

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment of Disposal w/destination)	Date
Tanks	3- 10,000	Disposed @ Erickson, Richmond	12/20/96
	1- 550	" " "	"
	2- hydraulic lift	" " "	"
Soil	511 tons	Disposed @ BFI Landfill	2/6/97
	18 tons	" " "	2/25/97
	197 tons	" " "	12/97
	151 tons	" " "	4/98

Leaking Underground Fuel Storage Program

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	1Before	2After	3Before	After 4
TPH (Gas)	350	13		160
TPH (Diesel)	56	25		180
Benzene	1.4	ND		12
Toluene	0.22	0.037		ND
Ethylbenzene	2.7	ND		ND
Xylenes	18	0.075		ND
TRPH (418.1)	590			
HVOC's	ND			
Semi-volatiles	ND			
MTBE	1.2			420
Heavy metals (Cd,Cr,Pb,Ni,Zn)	ND,69,13,120,70			

Comments (Depth of Remediation, etc.):
1 Samples from tank removals on 12/20/96
2 Samples from over-excavation of the dispenser area, no over-excavation of the hydraulic lift area was performed
3 no groundwater was encountered during the tank removals
4 1/27/00 monitoring results for MW2

IV. **CLOSURE**

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

Does corrective action protect public health for current land use? YES

Site management requirements: site should be included in the City of Oakland Permit Tracking System. A site health and safety plan will be required for any subsurface work.

Should corrective action be reviewed if land use changes? Yes

Monitoring wells Decommisioned?: No

Number Decommisioned: 8 Number Retained: 6

List enforcement actions taken: None

List enforcement actions rescinded: NA

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Barney M. Chan Title: Hazardous Materials Specialist

Signature: Barney M Chan Date: 6-26-00

Reviewed by

Name: Tom Peacock Title: Manager

Signature: Tom Peacock Date: 6-26-00

Name: Eva Chu Title: Hazardous Materials Specialist

Signature: Eva Chu Date: 6/20/00

VI. RWQCB NOTIFICATION

Date Submitted to RB: RB Response:

RWQCB Staff Name: C. Headlee Title: AEG Date:

VII. ADDITIONAL COMMENTS, DATA, ETC.

See attached site summary.

Site Summary for 6600 E. 14th St., Oakland CA 94621
StID # 1068

This site is located on the north side of E. 14th St. (International Blvd.), between 66th Ave. and Havenscourt Blvd. This block consists of two parcels, 6600 E. 14th St., the western parcel that was a former Exxon service station and 6630 E. 14th St., the eastern parcel, that was a former Texaco station. **See Figures 1 and 2.** The two parcels are tied because Exxon assumed responsibility for all environmental issues for both parcels.

It addition, because of the presence of former USTs on both parcels, there's a possibilty of commingling of releases from the sites. It is believed that the USTs on 6630 E. 14th St. were removed in 1966, when the Texaco station was torn down, however, there are no reports documenting this. There are also no records on the number or locations of USTs on this parcel. A summary of the documented environmental investigations conducted at the two parcels is detailed below.

June 14, 1988- Texaco installed monitoring wells MW-7A through MW-7C, see Plate 6. No monitoring information was obtained from these wells and it appears that these wells were closed by Texaco in September 1988, although no formal closure report was provided. Exxon later assumed site liability and initiated their own investigation.

March 1991- Exxon installed three monitoring wells, MW1 through MW3, to investigate potential releases from the USTs on 6600 E. 14th St.. MW1 was located just on the 6630 E. 14th St. parcel, MW2 was located down-gradient of the USTs and dispensers and MW3 was located cross-gradient of the USTs on 6600 E. 14th St. **See Figure 2, Table 1 and accompanying well logs.** Soil samples from the borings contained up to 98 ppm TPHg and 0.074, 0.12, 0.24, 0.19 ppm BTEX, respectively. Groundwater exhibited up to 3100 ppb TPHg , 160 ppb TPHd and 190, 2.6, 100, 84 ppb, BTEX, respectively. Since this time to the present, the highest groundwater contamination has been found in MW-2.

May 1992- Exxon installed four additional groundwater monitoring wells, MW4- MW7 both on and off-site, to further delineate the plume. Little to no petroleum contamination was observed in the borings from these wells. Subsurface soils were similar to that encountered in wells MW1 through MW3. Beneath the asphalt cap, one encountered silty clay to about 14' bgs where groundwater was encountered in sandy clay. Groundwater rises to about 8-10'bgs. Groundwater monitoring has consistently detected TPHd, TPHg and BTEX only in MW-2 and MW-3. **See Figure 3 for the monitoring well locations, Figure 4 for a cross-section diagram from MW-4 to MW-7, Table 2 for analytical and accompanying well logs.** MW-5 was located approximately 160' down-gradient of MW-2, the most impacted well.

November 1993- Exxon installed three soil vapor extraction wells, VE1 through VE3 and two borings, B-1 and B-2. One of the vapor wells (VE-2) and one of the borings (B-2) were advanced below groundwater (about 12' bgs), where a grab water sample was taken. Soil samples were taken from all five borings. Low levels of TPH were detected in the soil samples. The highest groundwater sample was from S-B-2, cross-gradient to the dispensers. **See Plate 1 & Table 3.**

December 1993- Exxon performed a SVE feasibility test and a groundwater extraction feasibility test. The SVE consisted of the three vapor extraction wells and wells MW-1 and MW-2. A step-drawdown test was performed on MW-2 at three rates. SVE and groundwater extraction were determined not to be feasible alternatives.

February 1996- Exxon submitted a CAP recommending passive bio-remediation based upon fate and transport estimation for site contaminants. Excavation was not recommended since this was an on-going operating station, but would be considered upon the closure of the station or removal of the tanks. It is noted, however, that Exxon's evaluation was using a model for the migration and attenuation of benzene, not MTBE. To enhance natural attenuation, in September 1996, Exxon installed ORC socks in wells MW1, MW2, MW3 and MW6.

December 1996- The existing service station was destroyed, the three 10, 000 gallon gasoline fuel tanks and one 550 gallon used oil tank were removed along with the product lines and two hydraulic hoists. Soil samples were taken from a depth of 9-9.5'bgs along the sidewalls of UST pit. One soil sample from beneath the waste oil tank pit was taken, as were samples from beneath the two hydraulic hoists and from beneath each of the dispensers. **See Plate 2 and Tables 4 & 5 for the results of these samples.** Generally, very low levels of TPHg, BTEX and MTBE were found in the samples from the tank pit. The highest TPHg contamination was exhibited in soil samples from beneath the southernmost dispensers, D2 and D3. Up to 350 ppm TPHg and 1.4, 0.13, 2.7 and 18 ppm, BTEX, respectively was found. Based upon these results, over-excavation was later performed.

January 1997- Exxon destroyed two off-site wells (MW1 and MW7) and three on-site SVE wells (VE1 through VE3) and installed one replacement monitoring well, MW8 on 6600 E. 14th St., near the northernmost dispenser. The monitoring wells were destroyed to allow Exxon to divest their interest in 6630 E. 14th St. **See Plate 3, Table 6 and accompanying well log.**

February 1997- Exxon performed a geophysical survey on 6630 E. 14th St., parcel 1, searching for additional USTs. Three areas were discovered with magnetic anomalies. The contractor stated that the anomalies were not large enough to be a group of underground fuel tanks, however, it was possible that one of the anomalies could be a small UST such as a waste oil tank, as was recently confirmed. **See drawing 3 indicating the three areas.**

May 1997- The two of the three magnetic anomaly areas were excavated and no additional USTs were discovered. The third area was located adjacent to the boundary of the two parcels and was not probed due to its proximity to the sidewalk. Apparently, the probing missed the recently detected UST near the boundary of 6600 and 6630 E. 14th St..

December 1997- Exxon excavated approximately 197 tons of soil from the former dispenser areas, D2 and D6, and adjacent to MW8. Soil was excavated to a depth of 10' bgs and confirmation soil samples were taken at the limits of the excavation. **See Plate 4 & Table 7.**

January 1998- Exxon drilled two soil borings SB1 and SB2 and collected soil samples. The purpose of these borings was to determine the lateral extent of the contamination found in boring S-9-D6 in the easterly direction. The soil samples collected at a depth of 6' exhibited ND for TPHg, BTEX and TPHd.

April 1998- Exxon excavated approximately 151 tons of soil in the area between the former northernmost dispenser and SB1 and SB2. **See Plate 4 and Table 7 for the results of both excavations**. Both excavation soil piles, approximately 348 cubic yards, were disposed at BFI Landfill in Livermore.

April 1999- Exxon performed a sensitive receptor and underground utility survey to primarily determine the potential migration and impact of the MTBE release. No municipal or private wells were located within a 2,000 feet radius of the site. No domestic water wells were located within 1000 feet of the site. No surface water bodies were identified within a 2500 feet radius of the site and no basements were observed in buildings within a 1000 feet radius of the site.

The utility survey identified electric, gas, sewer, telephone, storm drain, cable TV and water lines lying either on the sidewalk or within E. 14th St., however, since the first encountered groundwater lies approximately 16' bgs, only a sewer interceptor lying 22' bgs, might act as a pathway for groundwater.

October 1999- Exxon performed an off-site investigation to determine the extent of the MTBE in soil and groundwater. Borings SB1 through SB3 were drilled immediately down-gradient of MW2: within the property boundary, within the median and within the southern curb on E. 14th St., respectively. These borings were hand augered to approximately two feet below first-encountered groundwater and sampled using a disposable bailer. At the same time a water sample from MW2 was also collected for chemical analysis. The groundwater sample from SB1, approximately 15' down-gradient of MW2, exhibited 18,000 ppb TPHg, 46, ND, 1200, 64, 1900 ppb BTEX and MTBE, respectively. The groundwater samples from SB2 and SB3 did not detect any analytes. MW2 exhibited 1800 ppb TPHg, 8.6,ND,ND, ND, 1300 ppb BTEX and MTBE, respectively. The results from SB1 indicate the petroleum release has migrated down-gradient, however, the results from SB2 and SB3 indicate that the plume has not migrated significantly off-site. **See Plate 5 and Table 8. A couple of cross-sections on and off-site are also provided.**

The MTBE release appears confined to an area near MW-2. An iso-concentration map of MTBE is provided, **See Plate 7,** as well as a similar map for benzene seen on **Plate 8.** A rose diagram provided indicates a fairly consistent south-southwest gradient. **See Plate 9. Table 10 provides the cumulative groundwater monitoring data.**

December 1999- Exxon submitted a RBCA and requested site closure. The RBCA used the maximum value for BTEX in soil and groundwater to determine risk. The exposure pathways considered viable were:

- Surface soil direct ingestion and dermal contact (residential receptor)
- Surface soil volatilization to indoor air (inhalation: residential receptor)
- Surface soil volatilization to outdoor air (inhalation: residential receptor)
- Subsurface soil volatilization to outdoor air (inhalation: residential receptor)
- Subsurface soil volatilization to indoor air (inhalation: residential receptor)
- Groundwater volatilization to indoor air (inhalation: residential receptor)
- Groundwater volatilization to outdoor air (inhalation: residential receptor)

All surface soil samples were taken from the February 21, 2000 Clayton Phase II Site Assessment. **See Figure 5 and Table 9.** The surface soil samples were shallow composite samples from borings B-3, B-11, B-12, B-13 and B-14. Only sample B-12 detected any TEX, while all samples were ND for benzene. The highest subsurface soil, S-9-D6, with a benzene concentration of 0.62 ppm, was used to evaluate subsurface soil risk. The maximum benzene concentration within the past year, 0.1 ppm from MW-2, was used to evaluate risk from groundwater. Neither of these maximum concentration values exceeded their respective SSTL **Please refer to the GSI input table, work sheets and summary of data points.**

February 18, 2000- Spoke with Ms. L. Motoyama of RCD (Resources for Community Development) the new property owner of both 6600 and 6630 E. 14th St., and was notified that their consultant, Clayton Environmental, had discovered an apparent waste oil tank on 6630 E. 14th St. property. Clayton also performed a Phase II investigation for RCD who plan a multi-unit housing complex on the combined parcels. This investigation consisted of two elements. One was performing an extensive geophysical survey using vertical magnetic gradient (VMG), terrain conductivity (TC), metal detection (MD) and ground penetrating radar (GPR), all in an attempt to identify the existence of UST, piping or back-filled excavations. **See Table 11 and Plates 8 and 9.** Table 11 lists the six magnetic anomalies identified by VMG and the results of physical probing in these areas. **These six locations are shown on Plate 9. Plate 8 shows the results of the TC survey.** It is interesting that two areas labeled A & B are noted as possible zones of backfill. Area a is the area of the former USTs and the over-excavation, while area B is most likely the area of the former Texaco USTs.

The second element consisted of advancing 14 temporary borings and sampling soil and groundwater from these borings. Six select soil samples (based upon PID readings) were analyzed for TPH as motor oil, as diesel and as gasoline, BTEX, MTBE, volatile organics and the five heavy metals analyzed for waste oil tanks. The two-point composite soil samples were taken from 2 and 4 feet bgs. Very little contaminants were found in the shallow soil samples. The only significant contaminants was the presence of TPHmo,d and g in the grab groundwater samples from borings B-2 through B-5. Up to 1600, 1300 and 1700 ppb TPHmo,d,g , respectively was found in these samples. No benzene or toluene was found. Up to 8.7 ppb ethylbenzene, 1.5 ppb xylenes and 18 ppb MTBE were also reported in groundwater. **See Tables 9,12 and Figure 5.**

The source of the release may be from former USTs on Parcel 1, (6630 E. 14th St.) or from both Parcel 1 and Parcel 2 ,(6600 E. 14th St.). The concentrations in these grab groundwater samples are similar to that found in MW-2 on Parcel 2, the well down-gradient of the former USTs and dispensers. Extensive monitoring of MW-2 indicates that the fuel release is limited in extent and no risk to human health or environment is expected. The petroleum release on Parcel 1 is either from the former USTs on Parcel 1, assumed to have been removed in 1966, or from the former USTs on Parcel 2, removed in 1996. Therefore, it is safe to say that the release to groundwater on Parcel 1 is no more a threat as that from Parcel 2, which we know is not a threat. In addition, the City of Oakland has recently issued a no further action for the waste oil tank removal.

In summary, site closure is recommended for 6600 E. 14th St. and no further action for 6630 E. 14th St. based upon:

- Adequate source removal has occurred. The underground tanks have been removed from both sites and extensive over-excavation of soil has occurred on 6600 and to lesser degree at 6630 E. 14th St.
- Both parcels have been adequately characterized. Although less sampling has occurred on 6630 E. 14th St., the site has had a thorough geophysical examination. No underground tanks appear to remain and a large area of possible backfill was identified from where the former underground tanks likely were removed. Low levels of dissolved petroleum hydrocarbons were identified down-gradient to this area. Although subsurface sampling was not done in this area, based upon the concentration of petroleum hydrocarbons detected in groundwater on Parcel 1, it is not likely that high concentrations of hydrocarbon remain in soil.
- The groundwater plume is not migrating. The down-gradient well, MW-7, has not been impacted over many years of monitoring. The MTBE found on-site has not been found off-site.
- No sensitive receptors are likely to be impacted.
- The site poses no significant risk to human health or the environment. The proposed residential development will be built on a concrete slab foundation, therefore the lack of subsurface soil data on Parcel 1 is not as critical.

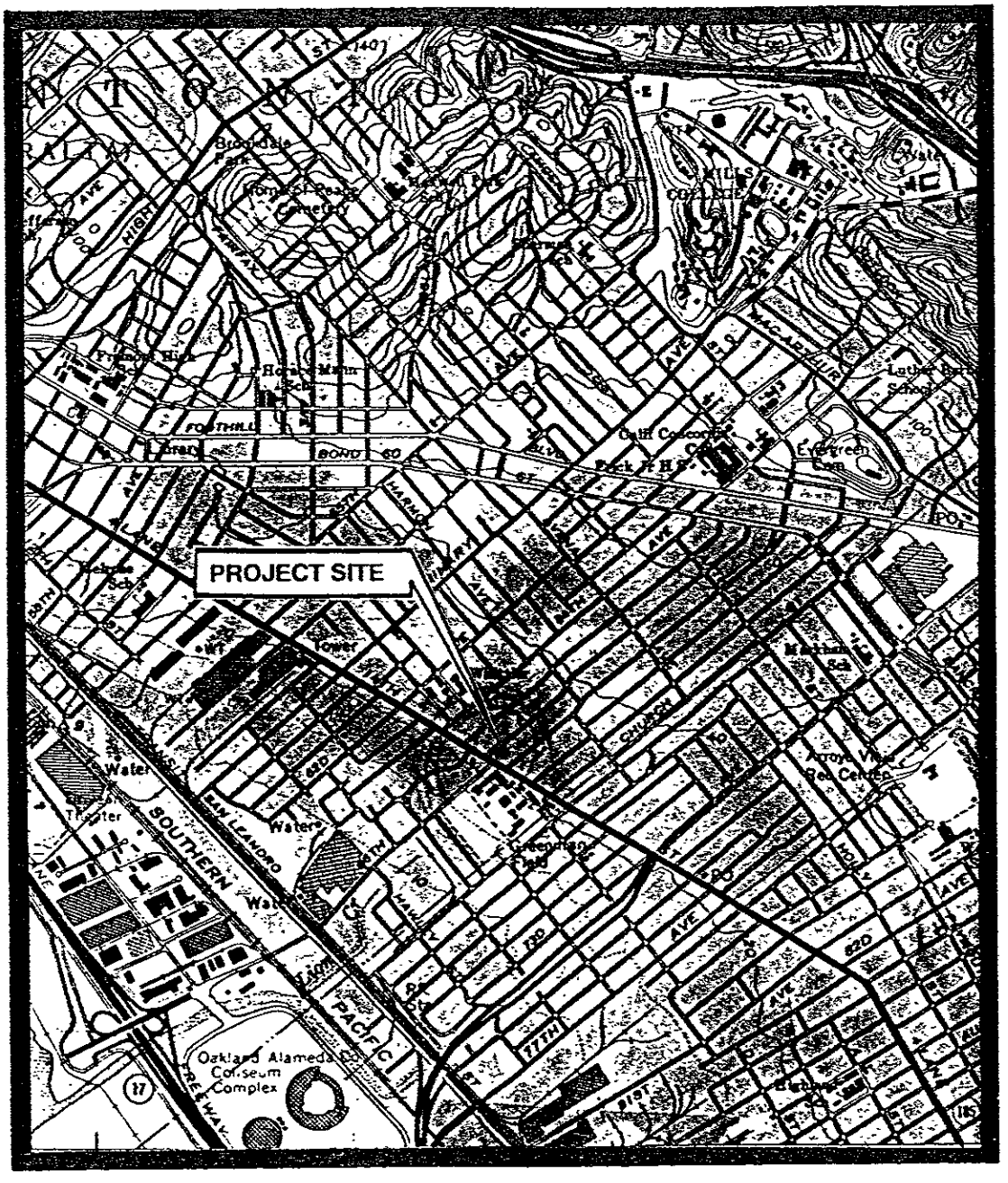


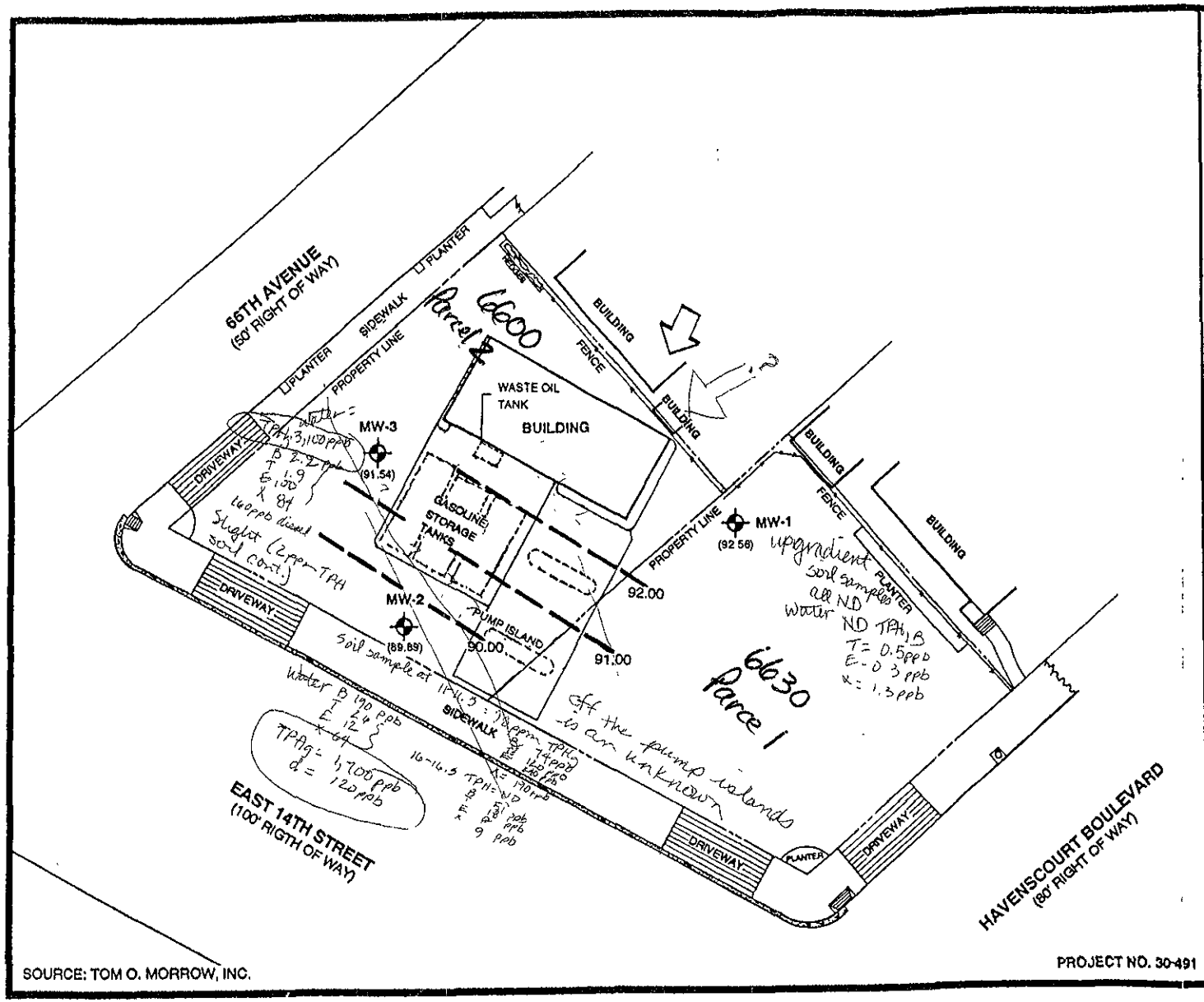
FIGURE 1: SITE VICINITY MAP

EXXON COMPANY, U.S.A.
SERVICE STATION NO. 7 - 0236
6630 EAST 14TH STREET
OAKLAND, CALIFORNIA

PROJECT NO. 30 - 491

SOURCE: U.S.G.S. MAP OAKLAND EAST QUADRANGLE
CALIFORNIA. 7.5 MINUTE SERIES (TOPOGRAPHIC)
PHOTOED 1959. PHOTOREVISED 1980

ALTON GEOSCIENCE
1000 Burnett Ave., Ste. 140
Concord, CA 94520



SOURCE: TOM O. MORROW, INC.

PROJECT NO. 30-491

LEGEND:

- GROUND WATER MONITORING WELL
- (91.54) GROUND WATER ELEVATION
- -91.00- GROUND WATER ELEVATION CONTOUR
- GENERAL DIRECTION OF GROUND WATER FLOW

Notes:

1. Contour lines are interpretive based on water level reading recorded on 3/20/91.
2. Contour interval 1.0 ft.
3. Average Hydraulic Gradient = 0.03 ft./ft.

FIGURE 2: GROUND WATER ELEVATION CONTOUR MAP

EXXON COMPANY, U.S.A.
SERVICE STATION NO. 7 - 0236
6630 EAST 14th STREET
OAKLAND, CALIFORNIA

ALTON GEOSCIENC
1000 Burnett Ave., Ste. 140
Concord, CA 94520

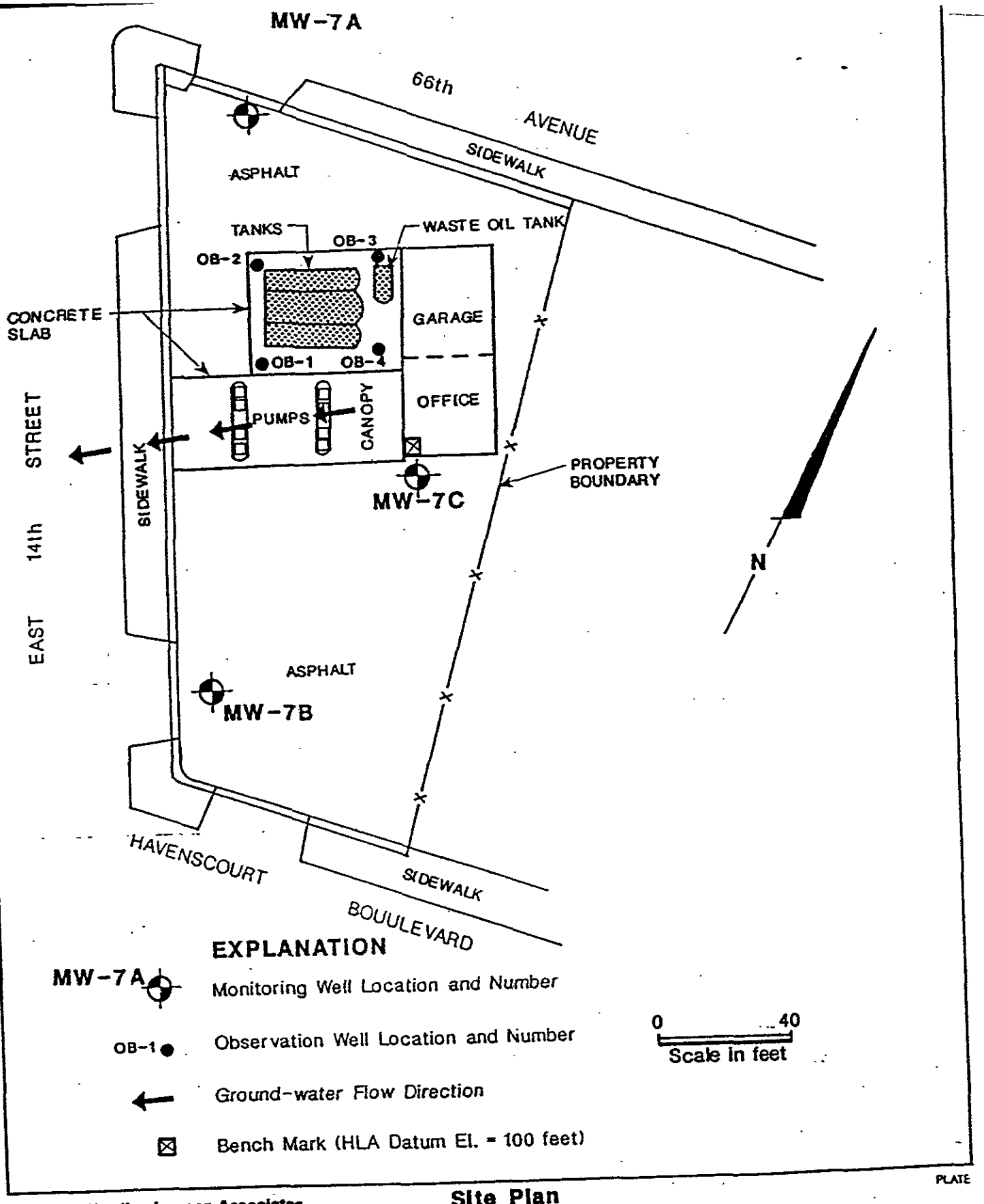


PLATE 6

Harding Lawson Associates
Engineers and Geoscientists

Site Plan
Texaco Station-62488000220
6630 E. 14th Street
Oakland, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED	DATE
AG	2251,053.04	JO	5/88		

TABLE 1 - SUMMARY OF ANALYTICAL RESULTS FOR SOIL SAMPLES

Exxon Company, U.S.A.
Exxon Service Station No. 7-0236
6630 East 14th Street
Oakland, California

Alton Geoscience, Inc. Project No. 30-491

Well No.	Depth (in feet)	TPH-G	B	T	E	X
			Concentrations in Parts Per Million			
Date of Sampling - March 13, 1991						
MW-1	6-6.5	ND<1	ND<0.003	ND<0.003	ND<0.003	ND<0.003
MW-1	11-11.5	ND<1	ND<0.003	ND<0.003	ND<0.003	ND<0.003
MW-1	16-16.5	ND<1	ND<0.003	ND<0.003	ND<0.003	ND<0.003
MW-2	6-6.5	2	0.008	0.018	ND<0.003	0.025
MW-2	11-11.5	98	0.074	0.12	0.24	0.19
MW-2	16-16.5	ND<1	0.051	ND<0.003	0.018	0.009
MW-3	6-6.5	ND<1	0.009	ND<0.003	ND<0.003	0.01
MW-3	11-11.5	ND<1	ND<0.003	ND<0.003	ND<0.003	0.018
MW-3	16-16.5	ND<1	ND<0.003	ND<0.003	ND<0.003	0.004

Note:

TPH-G = Total petroleum hydrocarbons
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
ND = Not detected above the reported method detection limits
NA = Not analyzed

ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY BORING

PROJECT NO. 30-491 DATE DRILLED 03/13/91
CLIENT Exxon Company, U.S.A.
LOCATION 14th St. & 66th Ave., Oakland
LOGGED BY W. Shipp APPROVED BY

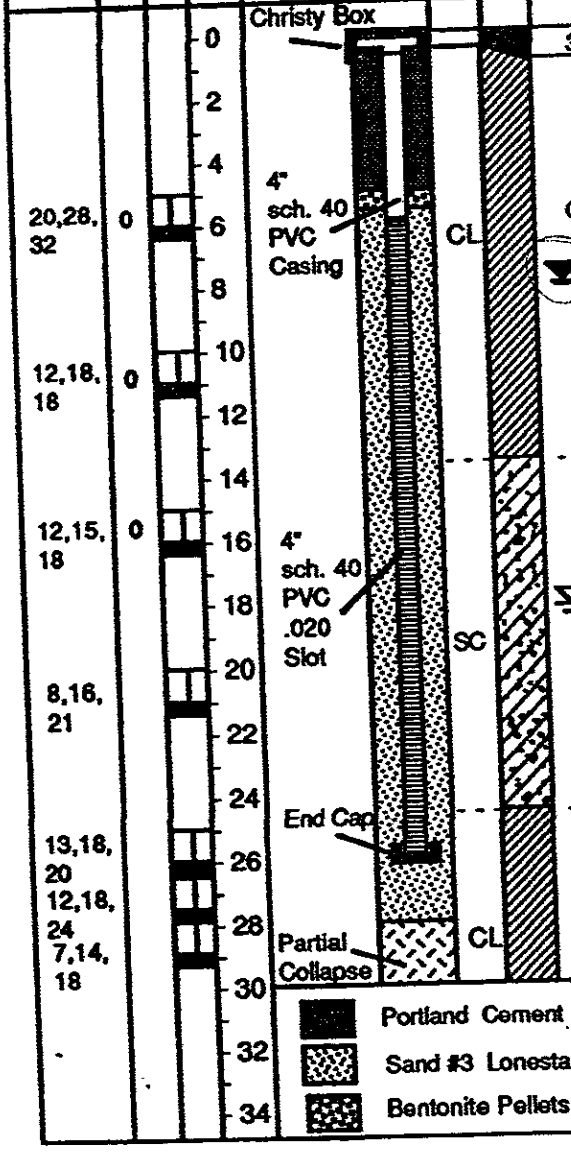
BORING NO.
WELL NO. MW-1

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 100.00'

DRILLING METHOD CME 75 HOLE DIAM. 10"
SAMPLER TYPE Modified split spoon
CASING DATA 4" PVC, 0.020' slots
DRILLER West Hazmat Drilling Corp.

DEPTH TO WATER	7.44'		
DATE	3/15/91		
TIME	0900		



DESCRIPTION

3" Asphalt, 5" Road Base

screened from 6 to 26'

CLAY: dark gray, moist, hard, medium plastic, 10% silt, 1-2% angular medium-grained sand, 1% organics.

SILTY CLAY: medium brown, moist, hard, medium plastic, 5% angular sand, 1% angular gravel to 1/2".

SANDY CLAY: brown, wet, hard, low plasticity, medium to coarse grained sand, 5% angular gravel to 1".

Same, becomes saturated, gravels to 1/4".

CLAY: brown, moist, hard, medium plastic, 10% silt, 3% medium grained sand, 1-2% organics.

Same as above.

Same, becomes very stiff, 1-2% gravel.

BORING TERMINATED AT 29.5 FEET BELOW GRADE

Portland Cement
Sand #3 Lonestar
Bentonite Pellets
Driven interval
Sample
Water level encountered during drilling
Stabilized water level

ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY BORING

PROJECT NO. 30-491 DATE DRILLED 03/13/91
CLIENT Exxon Company, U.S.A.
LOCATION 14th St. & 66th Ave., Oakland
LOGGED BY W. Shipp APPROVED BY

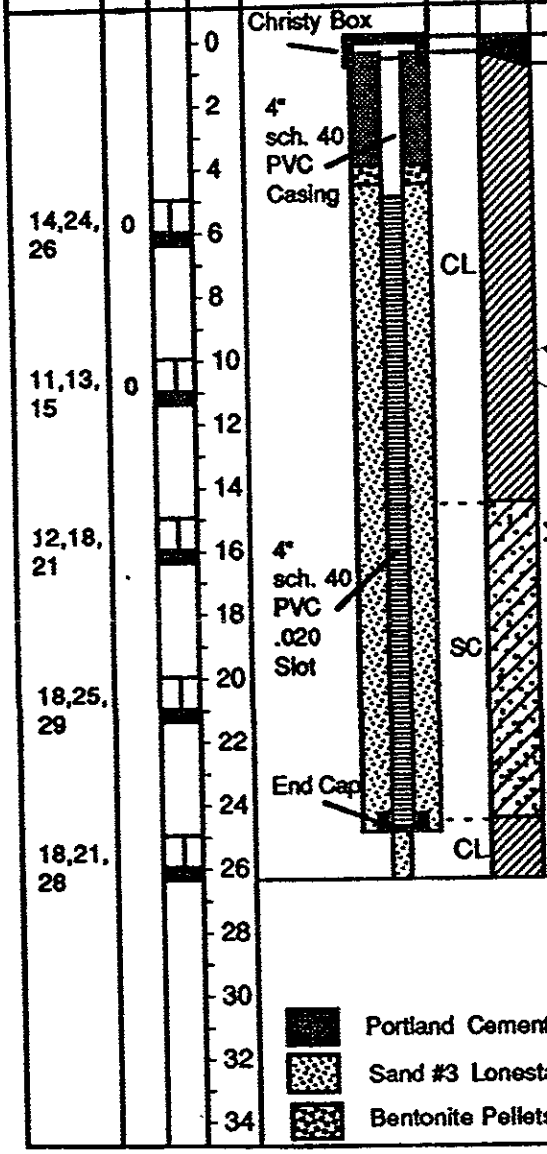
BORING NO.
WELL NO. MW-2

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 98.94'

DRILLING METHOD CME 75 HOLE DIAM. 10"
SAMPLER TYPE Modified split spoon
CASING DATA 4" PVC, 0.020" slots
DRILLER West Hazmat Drilling Corp.

DEPTH TO WATER	9.05'		
DATE	3/15/91		
TIME	0900		



DESCRIPTION

3" Asphalt, 5" Road Base

screened 5-25'

CLAY: dark gray, moist, hard, medium plastic, ~ 10% silt, 1-2% oorganics.

SILTY CLAY: mottled(brown with olive patches), moist, very stiff, 5% medium to coarse grained sand.

SANDY CLAY: brown, wet, hard, low plasticity, medium-grained angular t subrounded sand, 1-3% root trace.

Same, with 10% gravel.

SILTY CLAY: brown, moist, hard, low to medium plastic, 1-2% medium-grained subrounded sand.

BORING TERMINATED AT 26.5 FEET BELOW GRADE

Portland Cement
Sand #3 Lonestar
Bentonite Pellets
Driven interval
Sample
Water level encountered during drilling
Stabilized water level

ALTON GEOSCIENCE, Inc.
LOG OF EXPLORATORY BORING

PROJECT NO. 30-491 DATE DRILLED 03/13/91
CLIENT Exxon Company, U.S.A.
LOCATION 14th St. & 66th Ave., Oakland
LOGGED BY W. Shipp APPROVED BY

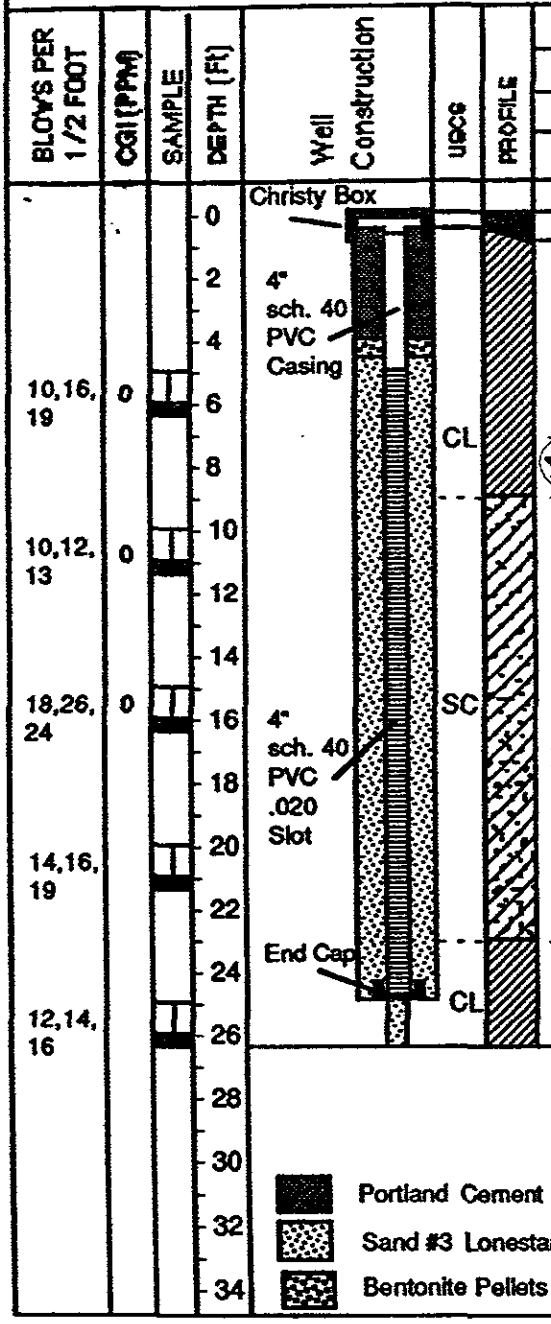
BORING NO.
WELL NO. MW-3

FIELD SKETCH OF BORING LOCATION

TOP OF CASING ELEVATION 99.38'

DRILLING METHOD CME 75 HOLE DIAM. 10"
SAMPLER TYPE Modified split spoon
CASING DATA 4" PVC, 0.020' slots
DRILLER West Hazmat Drilling Corp.

DEPTH TO WATER	7.84'		
DATE	3/15/91		
TIME	0900		



DESCRIPTION

Christy Box

3" Asphalt, 5" Road Base

screened 5-25'

CLAY: dark gray, moist, hard, medium plastic, 5% rounded medium grained sand.

SANDY CLAY: mottled(brown with olive patches), moist, very stiff, low plasticity, medium to coarse grained sand, 5% gravel, 1% organics.

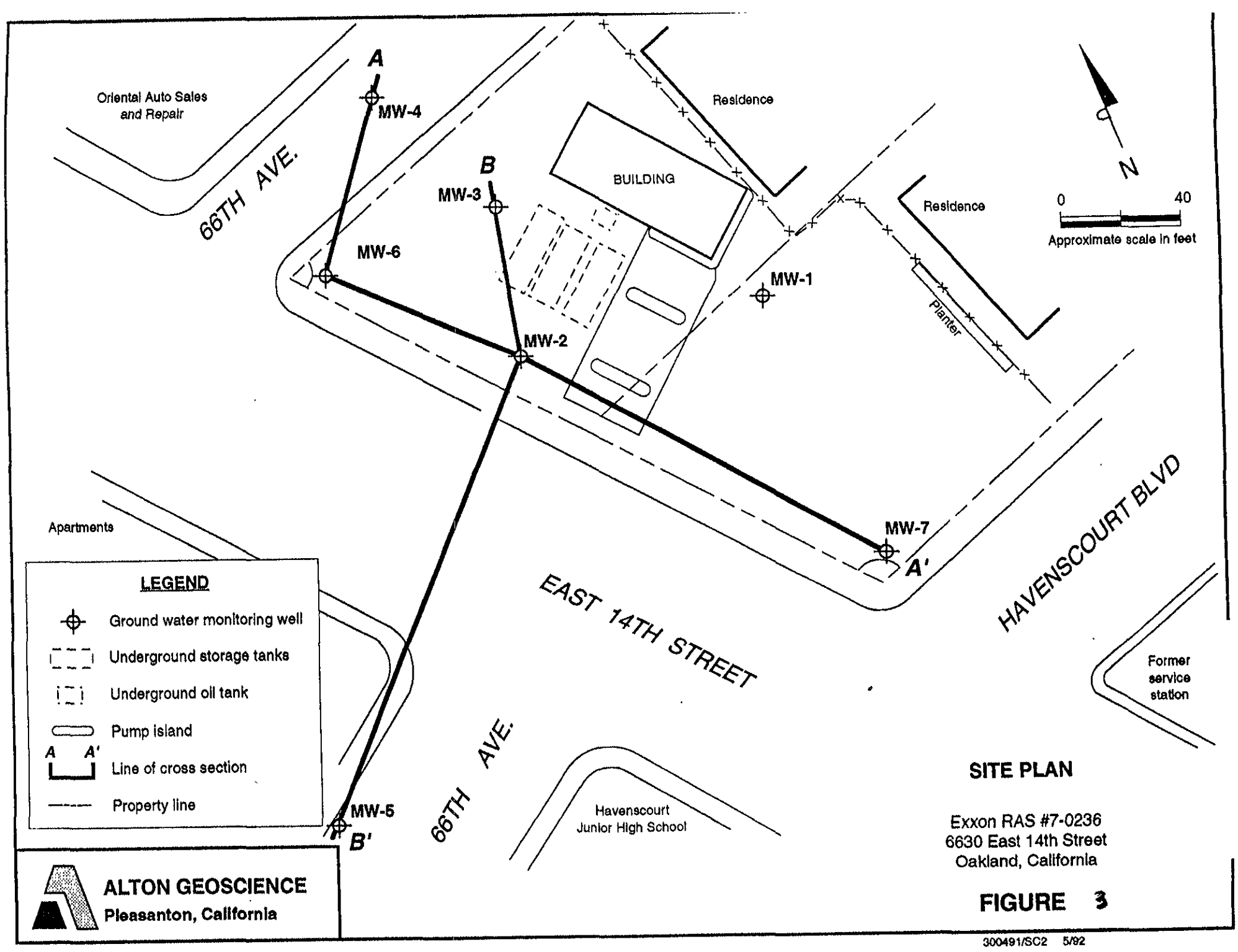
Same, becomes brown, wet, hard.

Same, no gravel.

SILTY CLAY: brown, moist, very stiff, medium plastic, 1% rounded sand, 1% subrounded gravel to 1".

BORING TERMINATED AT 25 FEET BELOW GRADE

Portland Cement
Sand #3 Lonestar
Bentonite Pellets
Driven interval
Sample
Water level encountered during drilling
Stabilized water level



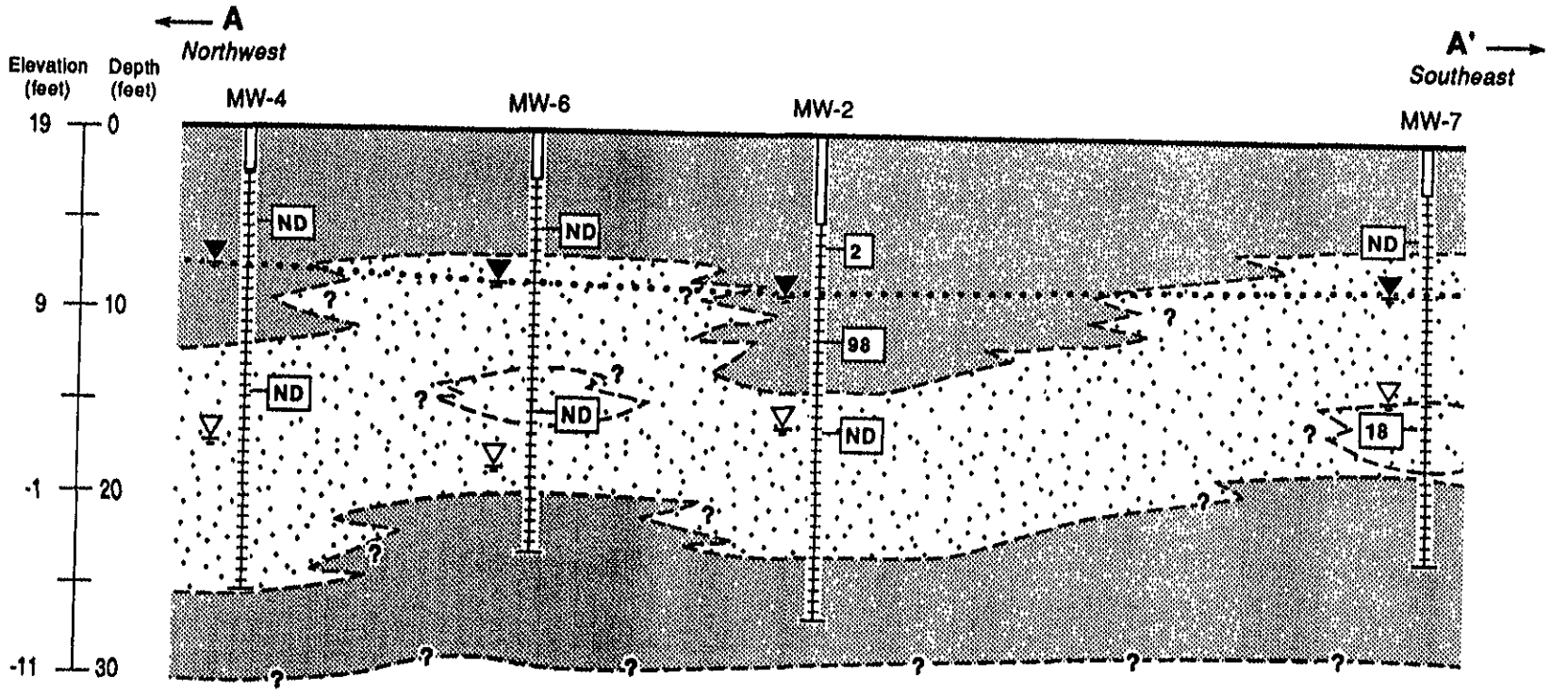
SITE PLAN

Exxon RAS #7-0236
6630 East 14th Street
Oakland, California

FIGURE 3

ALTON GEOSCIENCE
Pleasanton, California

300491/SC2 5/92



10

10

Scale in feet

Vertical exaggeration = 4:1

LEGEND

- Clay or Silty Clay
- Intermittent Sandy Clay, Silty Clay, Silty Sand with Clayey Sand lenses
- Blank
- Screened interval
- Gradational contact (inferred)
- Stabilized water level as of 3/26/92
- Water level at time of drilling
- TPH-G — Total petroleum hydrocarbons as gasoline concentrations in parts per million (ppm)
- ND = not detected

ALTON GEOSCIENCE
Pleasanton, California

HYDROGEOLOGIC CROSS SECTION A-A'

Exxon RAS #7-0236
6630 East 14th Street
Oakland, California

FIGURE 4

30-0491 4/92

TABLE 2

Summary of Results of Soil Sampling
Exxon RAS #7-0236
6630 East 14th Street, Oakland, California

CONCENTRATIONS IN PARTS PER MILLION (PPM)

ID	DATE OF SAMPLING	DEPTH OF SOIL SAMPLE (FEET)	TPH-G	TPH-D	B	T	E	X	LAB
MW-4	03/26/92	5 to 5.5	ND<1	ND<5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	PACE
MW-4	03/26/92	14.5 to 15	ND<1	ND<5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	PACE
MW-5	03/26/92	5 to 5.5	ND<1	ND<5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	PACE
MW-5	03/26/92	15 to 15.5	ND<1	ND<5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	PACE
MW-6	03/26/92	5 to 5.5	ND<1	ND<5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	PACE
MW-6	03/26/92	15 to 15.5	ND<1	ND<5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	PACE
MW-7	03/26/92	5 to 5.5	ND<1	ND<5	ND<0.005	ND<0.005	ND<0.005	ND<0.005	PACE
MW-7	03/26/92	15 to 15.5	18	23	ND<0.005	ND<0.005	ND<0.005	ND<0.005	PACE

EXPLANATION OF ABBREVIATIONS:

TPH-G	:total petroleum hydrocarbons as gasoline	– (EPA method 8015 modified)
TPH-D	:total petroleum hydrocarbons as diesel	– (EPA method 8015 modified)
B	:benzene	– (EPA method 8020)
T	:toluene	– (EPA method 8020)
E	:ethylbenzene	– (EPA method 8020)
X	:xylenes	– (EPA method 8020)
PACE	:Pace Laboratory, Inc	
ND	:not detected	

ALTON GEOSCIENCE
LOG OF EXPLORATORY BORING

PROJECT NO. 30-0491-01 DATE DRILLED 3/26/92
CLIENT Exxon RAS #7-0236
LOCATION 6630 E. 14th Street, Oakland, California
LOGGED BY J. DeGeorge APPROVED BY

WELL NO. MW-4

FIELD SKETCH OF BORING LOCATION

SEE FIGURE 2

TOP OF CASING ELEVATION 19.46'

DRILLING METHOD Hollow Stem Auger HOLE DIAM. 8"
SAMPLER TYPE Split spoon
CASING DATA 2" Sch. 40 PVC: 2.5' Blank , 22.5' Screen
DRILLER West Hazmat Drilling Corporation

DEPTH TO WATER	17'	7.76'
DATE	3/26/92.	4/6/92
TIME	10:20 AM	12:00 PM

PID (ppm)	TPH-G (ppm)	SAMPLE	DEPTH (fbg)	Well Construction	USCS	PROFILE	DESCRIPTION
			0	2" diam. Sch. 40 PVC Casing			ASPHALT 3"/Coarse gravel subgrade
			2				SILTY CLAY: black, slightly moist, very stiff; trace fine- to medium-grained sand, low plasticity.
0			4				
			6				SILTY CLAY: olive-green, slightly moist, very stiff; trace fine- to medium-grained sand, low plasticity.
			8				
0			10		CL		SILTY CLAY: brown, moist, very stiff; very fine-grained sand, low plasticity.
			12				
			14	2" diam. Sch. 40 PVC 0.020" slotting			SANDY CLAY: brown, moist, very stiff; fine- to medium-grained sand, some coarse-grained sand and trace fine gravel, low plasticity.
0			16				
			18				SANDY CLAY: brown, wet, firm; fine- to medium-grained sand, increasing coarse-grained sand and increasing fine gravel, low plasticity.
0			20				
			22				
			24	End Cap			
			26				Borehole terminated at approximately 25-1/2 feet below grade

ALTON GEOSCIENCE
LOG OF EXPLORATORY BORING

PROJECT NO. 30-0491-01 DATE DRILLED 3/26/92
CLIENT Exxon RAS #7-0236
LOCATION 6630 E. 14th Street, Oakland, California
LOGGED BY J. DeGeorge APPROVED BY

WELL NO. MW-5

FIELD SKETCH OF BORING LOCATION

SEE FIGURE 2

TOP OF CASING ELEVATION 16.95'

DRILLING METHOD Hollow Stem Auger HOLE DIAM. 8"
SAMPLER TYPE Split spoon
CASING DATA 2" Sch. 40 PVC: 2.5' Blank , 22.5' Screen
DRILLER West Hazmat Drilling Corporation

DEPTH TO WATER	18'	10.66'
DATE	3/26/92	4/6/92
TIME	11:50 AM	12:00 PM

PID (ppm)	TPH-G (ppm)	SAMPLE	DEPTH (fbg)	Well Construction	USCS	PROFILE	DESCRIPTION
			0	2" diam. Sch. 40 PVC Casing			ASPHALT 3"/fine gravel subgrade
			2				SILTY CLAY: black, slightly moist, stiff; trace fine- to medium-grained sand, low plasticity.
0			4				
			6		CL		SILTY CLAY: brown, moist, stiff; fine- to coarse-grained sand, low plasticity.
0			8				
			10				SANDY CLAY: brown, moist, very stiff; fine- to coarse-grained sand, low plasticity.
			12				
0			14	2" diam. Sch. 40 PVC 0.020" slotting			CLAYEY SAND: brown, wet, medium dense; medium-grained sand, trace fine-grained and coarse-grained sand and trace fine gravel.
			16				
			18		SC		Intermittent SANDY CLAY: brown, wet, medium dense; medium-grained sand.
0			20				
			22				
			24	End Cap			
			26				Borehole terminated at approximately 25-1/2 feet below grade

ALTON GEOSCIENCE
LOG OF EXPLORATORY BORING

PROJECT NO. 30-0491-01 DATE DRILLED 3/26/92
CLIENT Exxon RAS #7-0236
LOCATION 6630 E. 14th Street, Oakland, California
LOGGED BY J. DeGeorge APPROVED BY

WELL NO. MW-6

Page 1 of 1

FIELD SKETCH OF BORING LOCATION

SEE FIGURE 2

TOP OF CASING ELEVATION 18.79'

DRILLING METHOD Hollow Stem Auger HOLE DIAM. 10"
SAMPLER TYPE Split spoon/Continuous Core
CASING DATA 4" Sch. 40 PVC: 2.5' Blank , 20' Screen
DRILLER West Hazmat Drilling Corporation

DEPTH TO WATER	18.5'	8.29'
DATE	3/26/92	4/6/92
TIME	2:00 PM	12:00 PM

PID (ppm)	TPH-G (ppm)	SAMPLE	DEPTH (fbg)	Well Construction	USCS	PROFILE	DESCRIPTION
			0	4" diam. Sch. 40 PVC Casing			ASPHALT 3"/fine gravel subgrade
			2				SILTY CLAY: black, slightly moist, very stiff; trace coarse-grained sand, trace fine gravel, intermittent color changes to olive-green, low plasticity.
			4				
0			6		CL		SANDY CLAY: brown, slightly moist, very stiff; medium- to coarse-grained sand, trace fine gravel, low plasticity.
			8				
0			10				SILTY CLAY: brown, slightly moist, very stiff; trace medium- to coarse-grained sand, moderate plasticity.
			12				SANDY CLAY: brown, slightly moist, very stiff; fine- to coarse-grained sand, trace fine gravel, low plasticity.
			14	4" diam. Sch. 40 PVC 0.020" slotting	SC		CLAYEY SAND: brown, moist, medium dense; medium- to coarse-grained sand, trace fine gravel, some olive-green mottling.
0			16				CLAY(6" layer): brown, slightly moist, very stiff; low plasticity.
			18		CL		SANDY CLAY: brown, moist, stiff; fine- to coarse-grained sand, fine gravel, low plasticity.
0			20				
			22	End Cap			CLAY: brown, slightly moist, very stiff; moderate to high plasticity, black wavy vertical streaks.
0			24				Borehole terminated at approximately 23 feet below grade
			26				

ALTON GEOSCIENCE
LOG OF EXPLORATORY BORING

PROJECT NO. 30-0491-01 DATE DRILLED 3/26/92
CLIENT Exxon RAS #7-0236
LOCATION 6630 E. 14th Street, Oakland, California
LOGGED BY J. DeGeorge APPROVED BY

WELL NO. MW-7

FIELD SKETCH OF BORING LOCATION

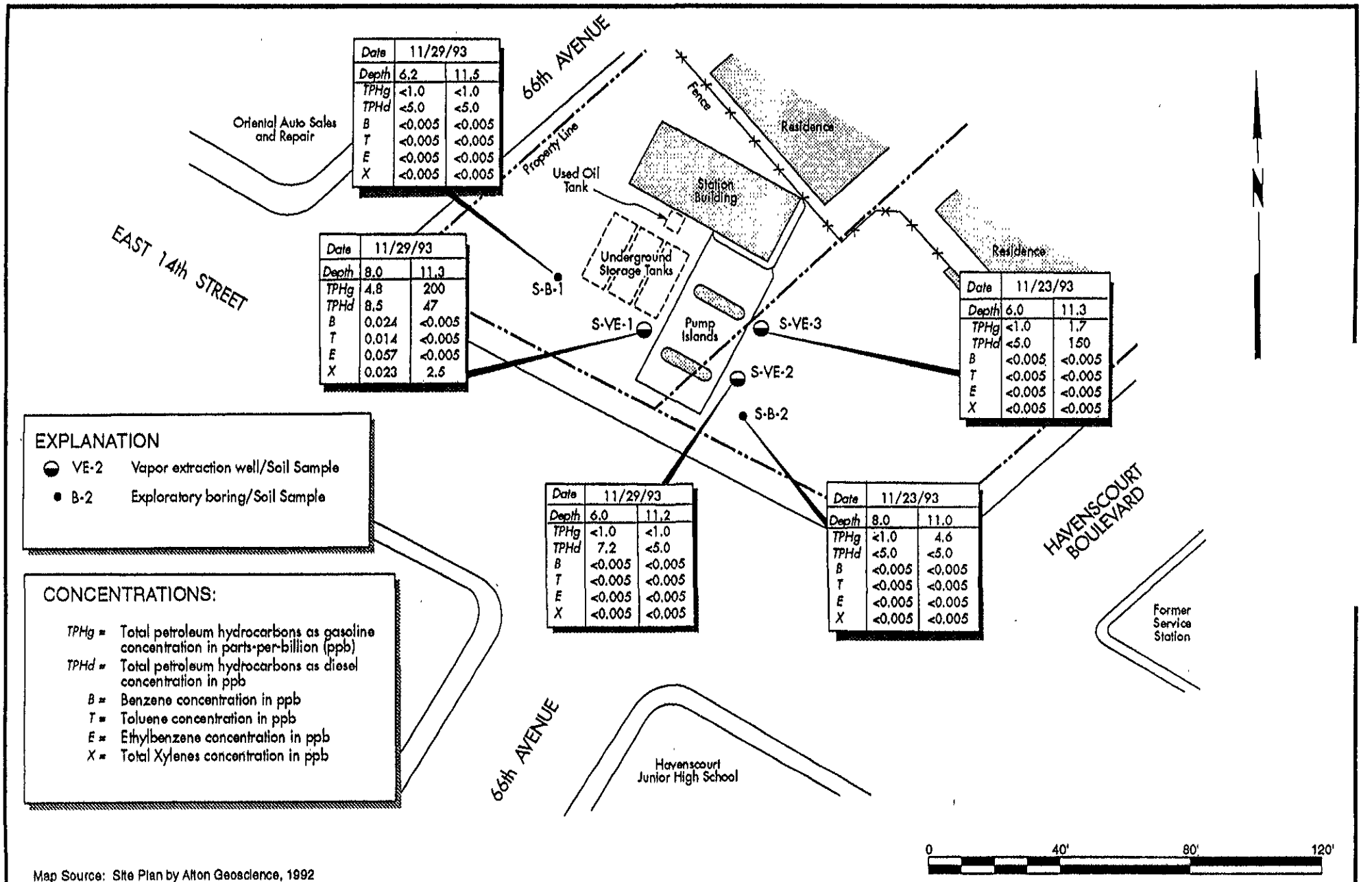
SEE FIGURE 2

TOP OF CASING ELEVATION 19.23'

DRILLING METHOD Hollow Stem Auger HOLE DIAM. 8"
SAMPLER TYPE Split spoon
CASING DATA 2" Sch. 40 PVC: 2.5' Blank , 20' Screen
DRILLER West Hazmat Drilling Corporation

DEPTH TO WATER	14'	8.34'
DATE	3/26/92	4/6/92
TIME	4:00 PM	12:00 PM

PID (ppm)	TPH-G (ppm)	SAMPLE	DEPTH (fbg)	Well Construction	USCS	PROFILE	DESCRIPTION
			0	2" diam. Sch. 40 PVC Casing			ASPHALT 6"/fine gravel subgrade
			2		CL		SILTY CLAY: black, slightly moist, very stiff; trace fine- to medium-grained sand, moderate plasticity.
			4				
0			6				
			8		SM		SILTY SAND: olive-green, slightly moist, dense; fine- to coarse-grained sand, fine gravel.
			10				
0			12		CL		SANDY CLAY: olive-green, moist, very stiff; medium- to coarse-grained sand, low plasticity.
			14				
			16	2" diam. Sch. 40 PVC 0.020" slotting	SC		CLAYEY SAND: olive-green, wet, dense; medium- to coarse-grained sand.
0			18				
			20		CL		CLAY: brown, slightly moist, very stiff; moderate to high plasticity, black wavy vertical streaks.
0			22	End Cap			
			24				Borehole terminated at approximately 23 feet below grade
			26				



Date	11/29/93	
Depth	6.2	11.5
TPHg	<1.0	<1.0
TPHd	<5.0	<5.0
B	<0.005	<0.005
T	<0.005	<0.005
E	<0.005	<0.005
X	<0.005	<0.005

Date	11/29/93	
Depth	8.0	11.3
TPHg	4.8	200
TPHd	8.5	47
B	0.024	<0.005
T	0.014	<0.005
E	0.057	<0.005
X	0.023	2.5

Date	11/23/93	
Depth	6.0	11.3
TPHg	<1.0	1.7
TPHd	<5.0	150
B	<0.005	<0.005
T	<0.005	<0.005
E	<0.005	<0.005
X	<0.005	<0.005

Date	11/29/93	
Depth	6.0	11.2
TPHg	<1.0	<1.0
TPHd	7.2	<5.0
B	<0.005	<0.005
T	<0.005	<0.005
E	<0.005	<0.005
X	<0.005	<0.005

Date	11/23/93	
Depth	8.0	11.0
TPHg	<1.0	4.6
TPHd	<5.0	<5.0
B	<0.005	<0.005
T	<0.005	<0.005
E	<0.005	<0.005
X	<0.005	<0.005

EXPLANATION

- VE-2 Vapor extraction well/Soil Sample
- B-2 Exploratory boring/Soil Sample

CONCENTRATIONS:

- *TPHg* = Total petroleum hydrocarbons as gasoline concentration in parts-per-billion (ppb)
- *TPHd* = Total petroleum hydrocarbons as diesel concentration in ppb
- *B* = Benzene concentration in ppb
- *T* = Toluene concentration in ppb
- *E* = Ethylbenzene concentration in ppb
- *X* = Total Xylenes concentration in ppb

Map Source: Site Plan by Alton Geoscience, 1992

CONCENTRATIONS OF RESIDUAL HYDROCARBONS IN SOIL SAMPLES - November 1993

PLATE 1

TABLE 4
SOIL SAMPLE ANALYSIS RESULTS
Former Exxon Service Station 7-0236
6630 East 14th Street
Oakland, California
(Page 1 of 2)

	Sample Number	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylene	TEPHd	TRPH	MTBE	Lead
	Soil - Hoists									
(A)	S-10-H1	<1.0	<0.0050	<0.0050	<0.0050	0.0067	NA	320	NA	<10
	Additional Analyses: HVOC's = ND; SVOC's = ND; Cadmium = <1.0; Chromium = 68; Nickel = 110; Zinc = 73									
(B)	S-10-H2	16	<0.0050	0.037	<0.0050	0.18	NA	590	NA	<10
	Additional Analyses: HVOC's = ND; SVOC's = ND; Cadmium = <1.0; Chromium = 78; Nickel = 110; Zinc = 63									
	Soil - Gasoline UST's									
C	S-9.5-T1N	1.1	<0.0050	<0.0050	<0.0050	<0.0050	1.1	NA	1.2	NA
H	S-9-T1S	3.1	<0.0050	0.0056	0.027	0.025	2.9	NA	0.44	NA
A	S-9.5-T2N	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0	NA	<0.025	NA
H	S-9-T2S	2.8	0.0072	0.010	0.0088	0.015	2.0	NA	0.46	NA
E	S-9-T3N	<1.0	0.0054	<0.0050	<0.0050	<0.0050	1.8	NA	0.28	NA
G	S-9-T3S	16	0.036	0.030	0.049	0.086	7.8	NA	0.22	NA
	Soil-Used-Oil UST									
F	S-8-T4	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	52	220	<0.025	<10
	Additional Analyses: HVOC's = ND; SVOC's = ND; Cadmium = <1.0; Chromium = 69; Nickel = 120; Zinc = 70									
	Soil-Dispensers									
M	S-3-D1	9.4	0.043	0.086	0.031	0.075	1.8	NA	NA	NA
N	S-2.5-D2	150	1.4	0.13	2.5	10	21	NA	NA	NA
O	S-3-D3	350	0.24	<0.25	2.7	18	41	NA	NA	NA
L	S-3.5-D4	99	0.58	0.22	0.90	0.31	6.1	NA	NA	13
K	S-3.5-D5	29	0.45	0.082	0.33	0.41	5.7	NA	0.96	NA
J	S-3-D6	95	<0.12	<0.12	0.45	6.4	56	NA	0.62	NA

TABLE 5
SAMPLE ANALYSIS RESULTS
STOCKPILED SOIL
Former Exxon Service Station 7-0236
6630 East 14th Street
Oakland, California

Sample Number	TPHg	Benzene	Toluene	Ethyl benzene	Xylene	TEPHd	TTLC Lead
Gasoline UST - Soilpile							
SP-1-(1-4)	1.7	<0.0050	0.012	0.0064	0.046	11	NA
SP-2-(1-4)	31	0.15	0.034	0.18	0.23	38	58 (2.3)
SP-3-(1-4)	3.4	0.0087	<0.0050	0.0090	0.066	34	NA
SP-4-(1-4)	15	0.094	0.044	0.063	0.44	31	NA
SP-5-(1-4)	13	0.085	0.027	0.032	0.42	160	12
SP-6-(1-4)	8.8	0.059	0.030	0.025	0.29	17	<10
	Additional Analyses: HVOC's = ND; SVOC's = ND; TRPH = 300; Antimony = <10; Arsenic = <10; Barium = 79; Beryllium = <1.0; Cadmium = <1.0; Chromium = 32; Cobalt = 5.5; Copper = 25; Mercury = 0.031; Molybdenum = <5.0; Nickel = 54; Selenium = <10; Silver = <1.0; Thallium = 24; Vanadium = 31; Zinc = 44; Thallium (<0.2); Vanadium = (0.23)						
SP-7-(1-4)	14	0.14	0.052	<0.025	0.18	25	NA
SP-8-(1-4)	7.9	0.038	0.040	0.027	0.28	12	NA
Hoist - Stockpile							
SP-1-(1-4)	1,100	<0.5	2.6	7.4	48	NA	<10
	Additional Analyses: HVOC's = ND; SVOC's = ND; TRPH = 2,600; Cadmium = <1.0; Chromium = 68; Nickel = 110; Zinc = 62; Chromium = (0.17); Nickel = (2.2)						

Notes:
Results in milligrams per kilograms (ml/kg) unless otherwise noted.

<	=	Less than detection limit established by laboratory.
TPHg	=	Total petroleum hydrocarbons as gasoline
BTEX	=	Benzene, toluene, ethylbenzene, total xylene isomers
MTBE	=	Methyl tert-butyl ether
TEPHd	=	Total petroleum hydrocarbons as diesel
TRPH	=	Total recoverable petroleum hydrocarbons
HVOC's	=	Halogenated volatile organic compounds
SVOC's	=	Semi-volatile organic compounds
NA	=	Not Analyzed
( )	=	STLC reported in milligrams per liter (mg/L)
NA	=	Not Analyzed

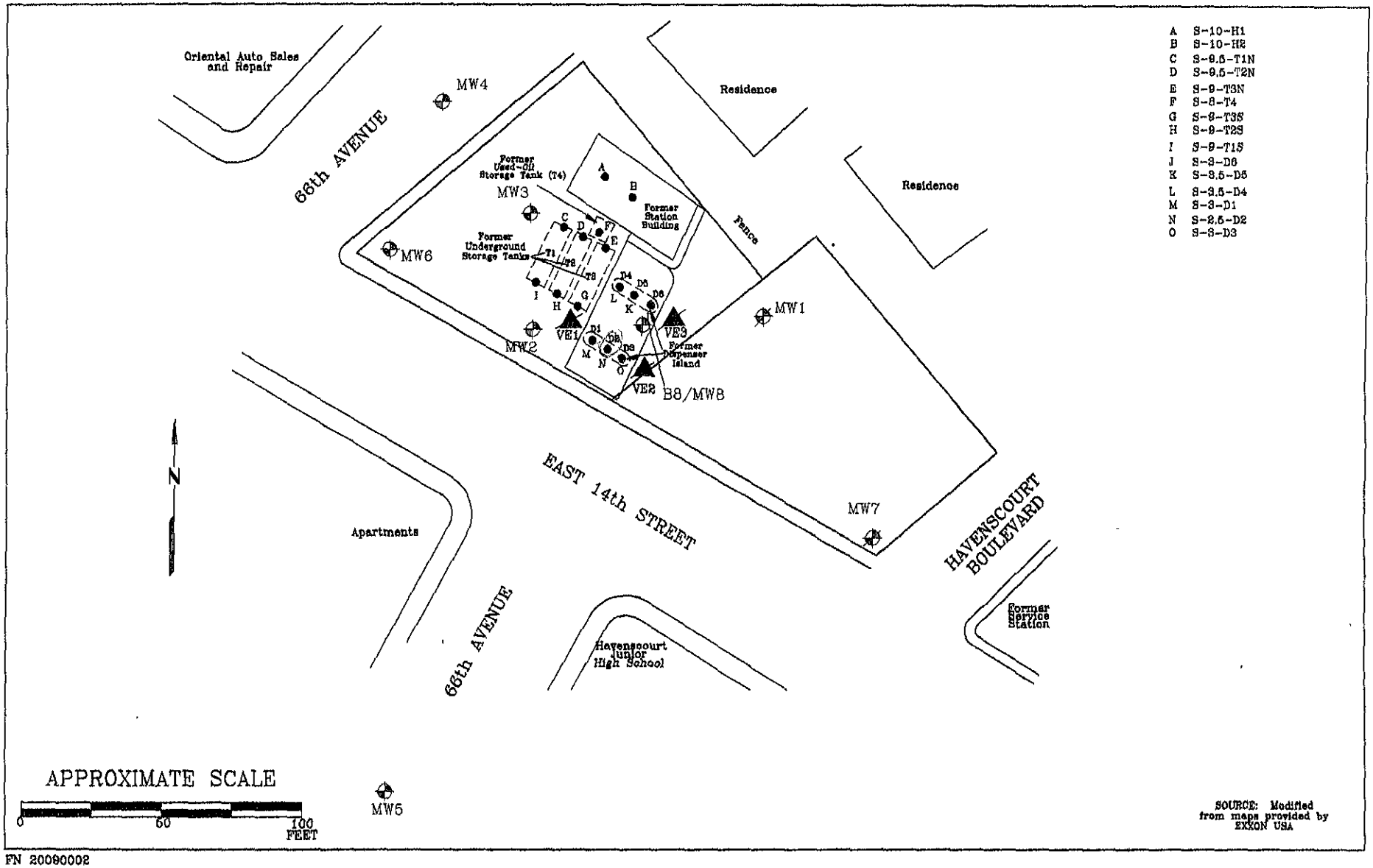
RESNA
Working to Restore Nature

Table 3
RESULTS OF ANALYSES OF SOIL AND GROUNDWATER SAMPLES
Exxon Service Statio 7-0236
6630 East 14th Street
Oakland, California

Sample Designation	Date	TPHg	TPHd	Benzene	Ethyl-Toluene	Total benzene	Xylenes	Lead
Soil Samples(1)								
S6.2B-1	11/29/93	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	NA
S11.5B-1	11/29/93	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	NA
S8.0B2	11/23/93	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	NA
S11.0B2	11/23/93	4.6	<5.0	<0.005	<0.005	<0.005	<0.005	NA
S8.0VE-1	11/29/93	4.8	8.5	0.024	0.014	0.057	0.023	NA
S11.3VE-1	11/29/93	200	47	<0.005	<0.005	<0.005	2.5	NA
S6.0VE2	11/23/93	<1.0	7.2	<0.005	<0.005	<0.005	<0.005	NA
S11.2VE2	11/23/93	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	NA
S6.0VE3	11/23/93	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	NA
S11.3VE3	11/23/93	1.7	150	<0.005	<0.005	<0.005	<0.005	NA
Cuttings C-ABCD*	11/29/93	11.0	42	<0.005	<0.005	0.18	0.035	<1.0
Cuttings D-ABCD*	11/29/93	1.4	<5.0	<0.005	<0.005	11	12	<1.0
Water Samples(2)								
B-2	11/23/93	6800	1300	35	16	340	36	NA
VE-2	11/23/93	1300	330	0.5	17	1.9	23	NA

Notes:

(1) Soil sample results in parts per million
(2) Water sample results in parts per billion
TPHg: Total petroleum hydrocarbons as gasoline
TPHd: Total petroleum hydrocarbons as diesel
NA: Not applicable
Sample designation:
S30.3VE-1: S=Soil, 30.3=Sample depth (feet), VE-1=Sample location
* = Drill Cuttings composite samples



FN 20090002

ERI ENVIRONMENTAL

GENERALIZED SITE PLAN

FORMER
EXXON SERVICE STATION 7-0236
6630 East 14th Street

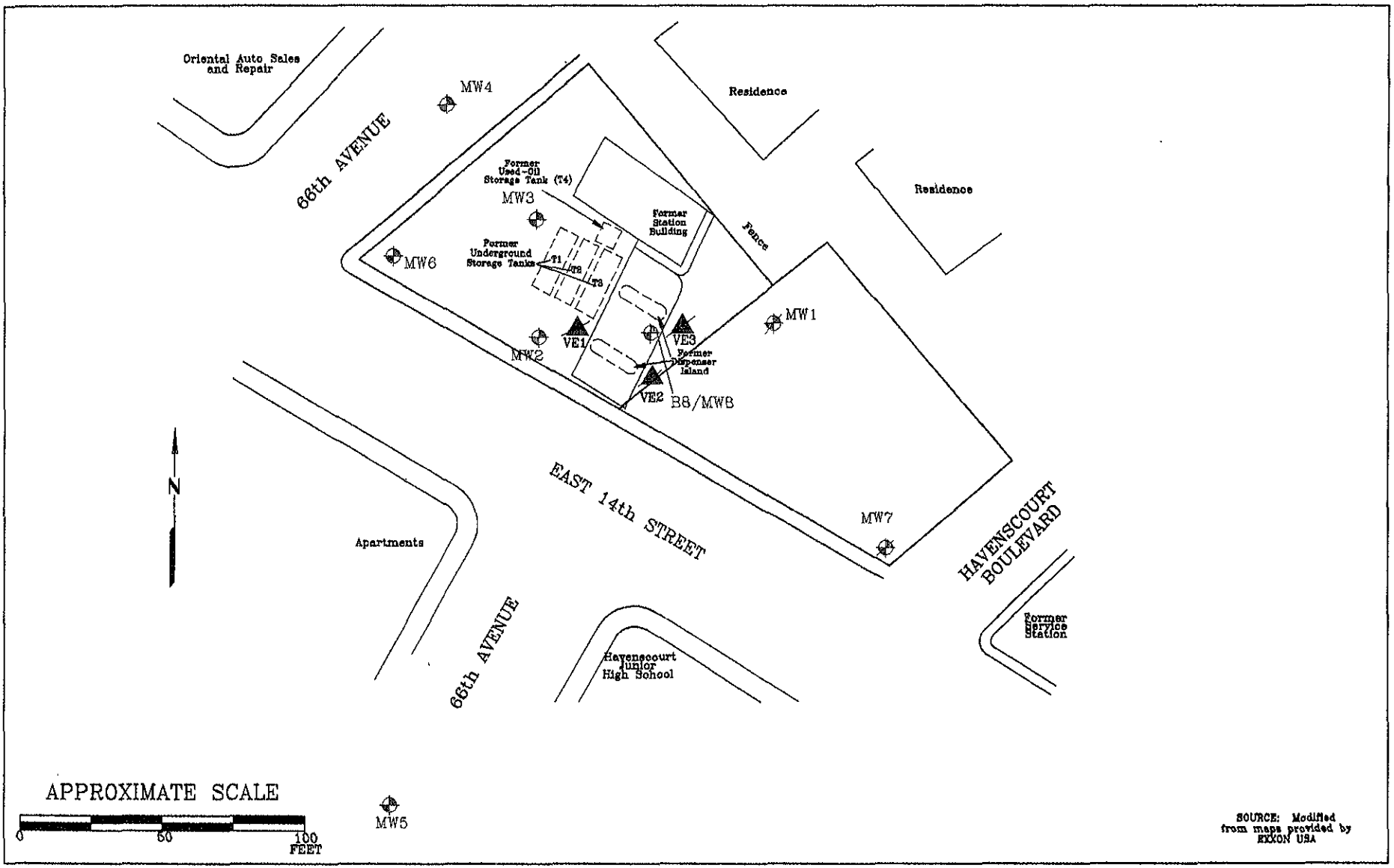
EXPLANATION

- MW8 Groundwater Monitoring Well
- Groundwater Monitoring Well (Destroyed)
- VE3 Vapor Extraction Well (Destroyed)
- Soil Boring/Groundwater Monitoring Well

PROJECT NO.

2009

PLATE



FN 20090002

ERI ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

FORMER
EXXON SERVICE STATION 7-0236
6630 East 14th Street
Oakland, California

EXPLANATION

- MW8 — Groundwater Monitoring Well
- Groundwater Monitoring Well (Destroyed)
- VE3 — Vapor Extraction Well (Destroyed)
- B8/MW8 — Soil Boring/Groundwater Monitoring Well

PROJECT NO. 2009

PLATE 3

TABLE 6
SOIL AND STOCKPILE SAMPLE ANALYSIS RESULTS
Former Exxon Service Station 7-0236
6630 East 14th Street
Oakland, California

Sample Number	TPHg	B	T	E	X	TEPHd	MTBE	TTLC Lead
S-10-MW8	22	0.26	0.013	0.067	0.19	14	<0.025	NA
SP-1-(1-4)	13	0.28	0.026	0.069	0.11	14	NA	13

Notes:
Soil results in parts per million

TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA method 8015 (modified).
BTEX	=	Toluene, benzene, ethylbenzene and total xylenes using EPA method 8020.
TEPHd	=	Total extractable petroleum hydrocarbons as diesel analyzed using EPA method 8015 (modified).
MTBE	=	Methyl tert-butyl ether analyzed using EPA method 8020.
TTLC Lead	=	Total threshold limit concentrations (TTLC) analyzed using EPA method 6010.
NA	=	Not Analyzed

ENVIRONMENTAL RESOLUTIONS, INC.

Project No.: 2009 Boring: B6/MW6 Plate: 1 OF 1

Site: Former Exxon Service Station 7-0236 Date: 01/10/97

Drill Contractor: Woodward

Sample Method: Split Spoon Geologist: STEVE M. ZIGAN

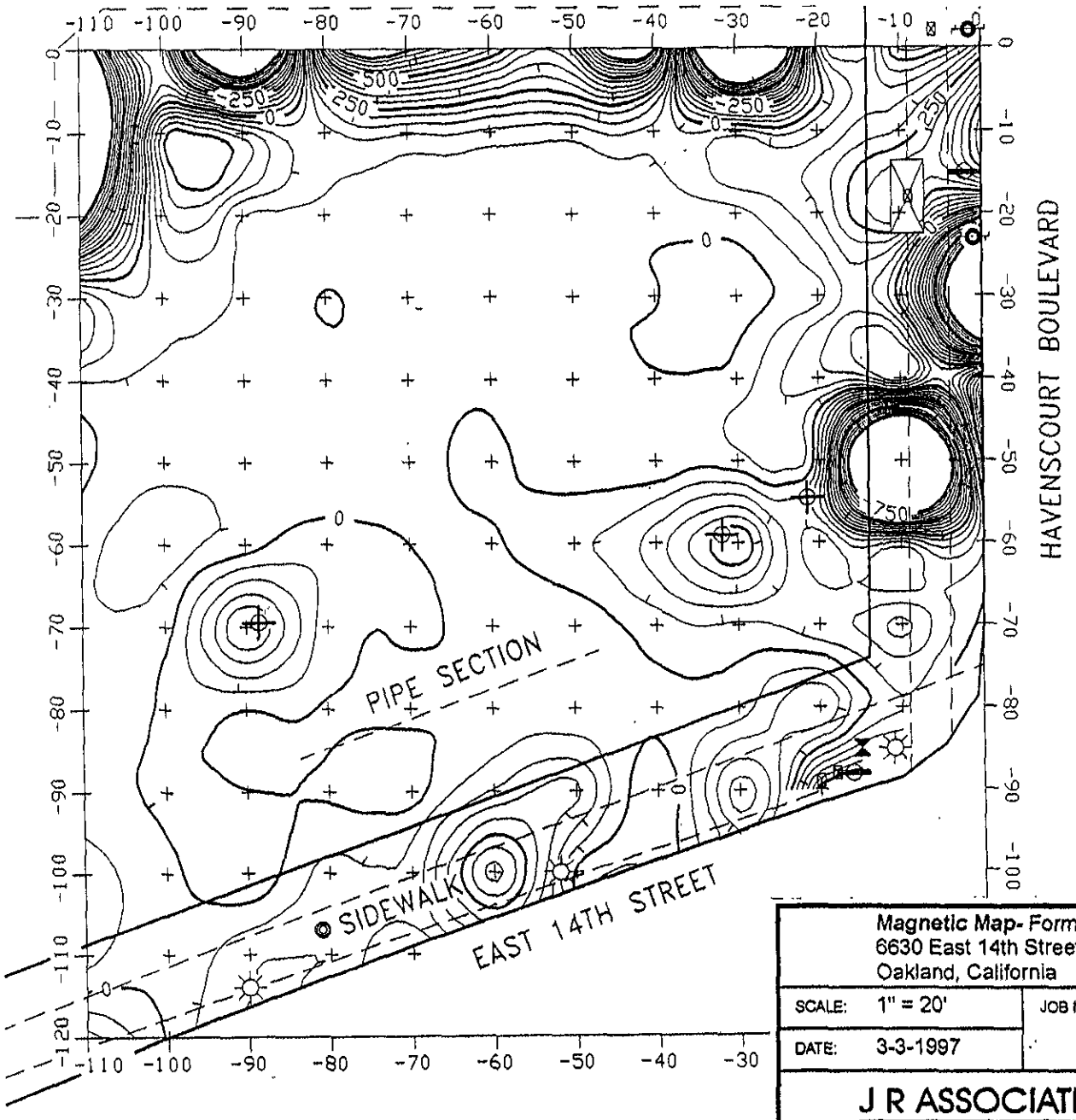
Drill Rig: B57 Bore Hole Diameter: 8" Signature.

Location: Between South ends of former dispenser islands. Registration: R.G. 4333

Logged by: Scott Graham

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						Fill, sandy gravel	
					CH	Clay, black, damp, trace of very fine-grained sand	
5	30	6.0			CL	Silty clay, olive-gray, moist, some very fine-grained sand, trace of gravel to 1/4" diameter	
10	47	383				transitioning to sandy clay, olive-gray, moist, orange and black mottling, fine-grained, some gravels	
15	40					light brown, wet, increasing gravels	
20	13	2.0				transitioning to silty clay, brown, wet	
25	16	6.0				trace of silt, lens of gravels to 3/8" diameter at 25 feet	
						Total depth = 25 feet Groundwater encountered at 14.5 feet	
30							
35							
40							

Well Diameter: 2", Slot Size: 0.010, Sand Size: 2/12, Grout: Neat cement



EXPLANATION:

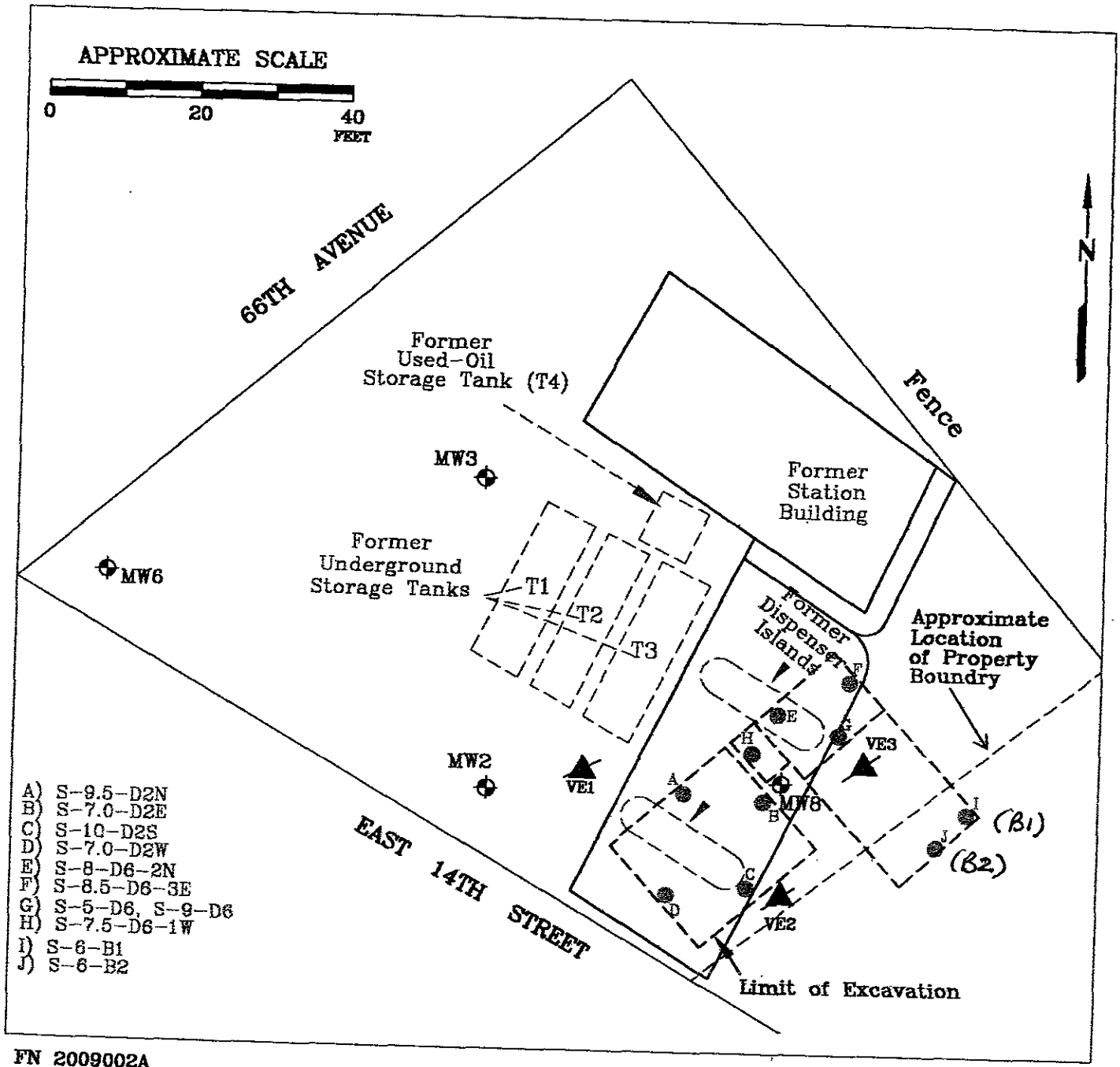
- MANHOLE COVER OR DRAIN
- CHRISTY BOX
- LIGHT
- POST OR SIGN
- POWER POLE
- VALVE
- STAKED ANOMALY
- BURIED PIPE
- FENCE
- MAGNETIC DATA POINT
- MAGNETIC CONTOUR

Magnetic Map- Former Exxon Station 7-0236
6630 East 14th Street
Oakland, California

SCALE: 1" = 20'	JOB NUMBER: 103127-97	DRAWN BY: J.J.R.
DATE: 3-3-1997		REVISED:

J R ASSOCIATES Civil and Environmental Geophysics
1886 Emory Street, San Jose, CA (408) 293-7390

DRAWING NUMBER: 3



FN 2009002A

EXPLANATION

MW8 — Groundwater Monitoring Well

[ ] — Limits of Over Excavation

VE3 — Destroyed Vapor Well

J — Soil Sample

SOURCE: Modified from a map provided by Exxon USA

ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

FORMER EXXON SERVICE STATION 7-0236
6600 East 14th Street
Oakland, California

PROJECT NO. 2009

PLATE 4

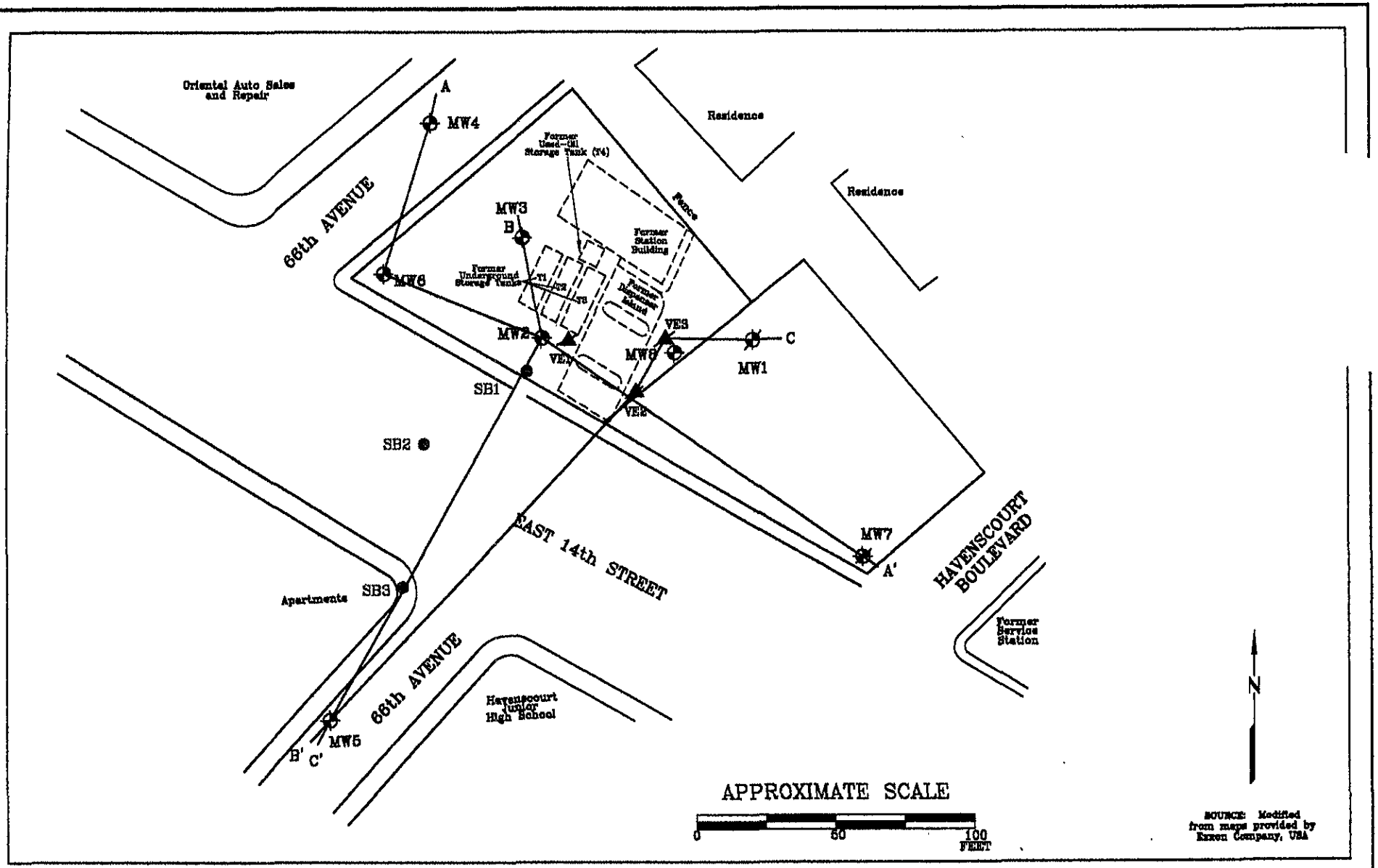
August 19, 1996

TABLE 1
SAMPLE ANALYSES RESULTS
OVER EXCAVATION OF SOIL
DECEMBER 1997
Former Exxon Service Station 7-0236
6600 East 14th Street
Oakland, California
(Page 1 of 2)

Sample Number	TPPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TEPHd
12/97						
S-5-D6	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
G S-9-D6	800	0.62	<0.50	<0.50	<0.50	620
F S-8.5-D6-3E	1.9	<0.0050	<0.0050	<0.0050	0.021	<1.0
E S-8-D6-2N	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	1.0
H S-7.5-D6-1W	1.1	<0.0050	<0.0050	<0.0050	<0.0050	1.5
A S-9.5-D2N	3.5	<0.0050	<0.0050	<0.0050	0.012	5.6
C S-10-D2S	13	<0.0050	0.037	<0.0050	0.075	7.5
D S-7.0-D2W	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	5.1
B S-7.0-D2E	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	25
Hand Auger						
I S-6-B1 1/98	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<1.0
J S-6-B2 1/98	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	1.0

Notes:
Soil results in milligrams per kilograms (mg/Kg)

<	=	Less than detection limit established by laboratory.
TPPHg	=	Total purgeable petroleum hydrocarbons as gasoline analyzed using EPA method 8015 (modified)
BTEX	=	Benzene, toluene, ethylbenzene, total xylene isomers analyzed using EPA method 8020
MTBE	=	Methyl tertiary -butyl ether analyzed using EPA method 8020
TEPHd	=	Total extractable petroleum hydrocarbons as diesel using EPA method 8015 (modified)



FN 20090093A

ERI ENVIRONMENTAL RESOLUTIONS INC.

GENERALIZED SITE PLAN

FORMER
EXXON SERVICE STATION 7-0236
6600 East 14th Street

MW6 EXPLANATION
- Groundwater Monitoring Well
- MW7 Groundwater Monitoring Well (Destroyed)
- Soil Boring
- MW3 Vapor Extraction Well (Destroyed)

PROJECT NO.
2009

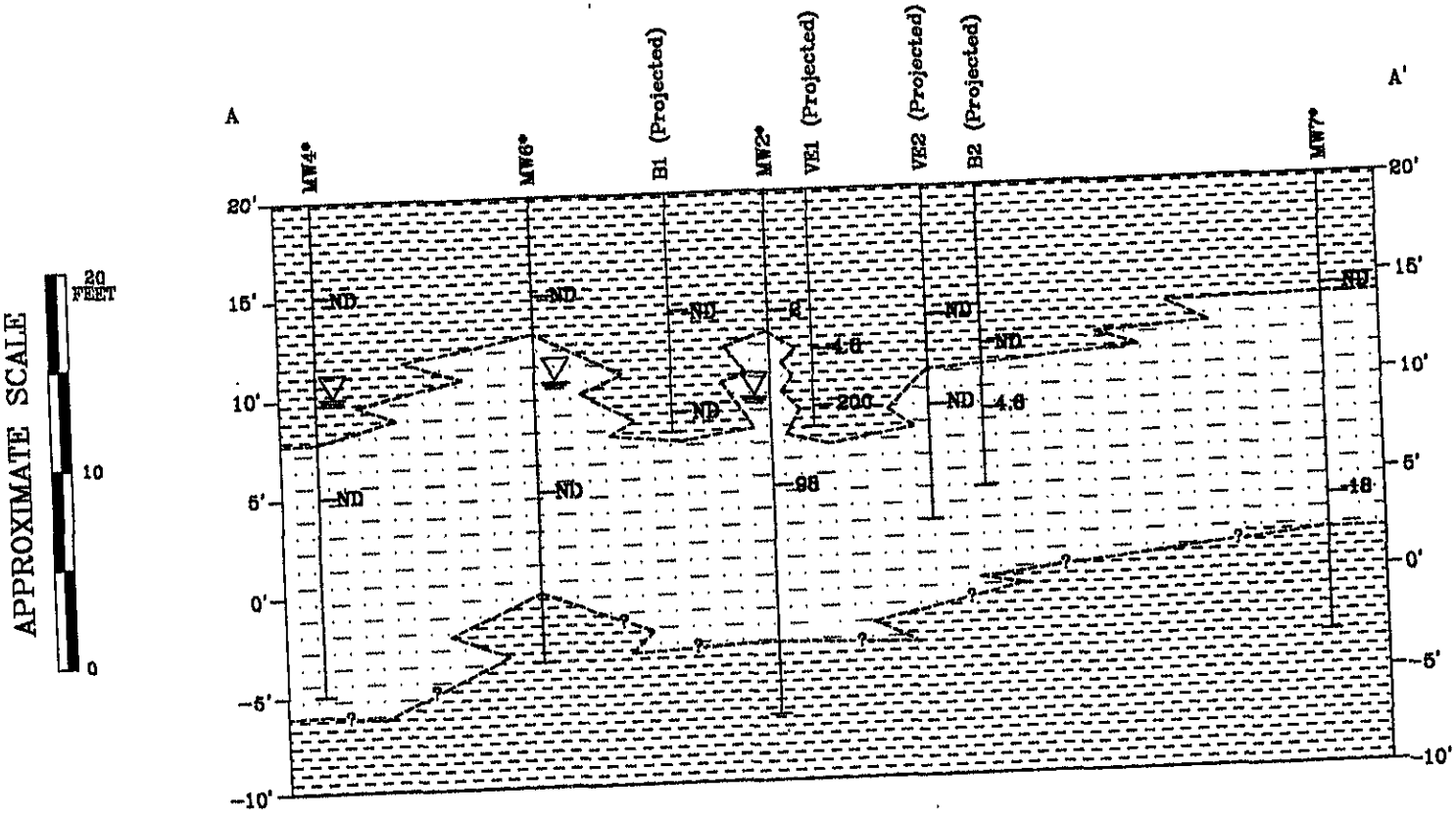
PLATE
5

TABLE 8
GROUNDWATER SAMPLE RESULTS
Former Exxon Service Station 7-0236
6600 East 14th Street
Oakland, California

Sample	Sampling Date	DTW	TEPHd	TPPHg	MTBE	B	T	E	X	DO
			<			ug/L				<..mg/l..>
W-11-SB1	10/13/99	11	---	18,000	1,900	46	<25	1,200	32	---
W-13-SB2	10/13/99	13	---	<50	<5	<1	<1	<1	<1	---
W-16-SB3	10/13/99	16	---	<50	<5	<1	<1	<1	<1	---
W-21-MW2	10/13/99	21	590	1,800	1,300	8.6	<5	<5	<5	8.71

Notes:

W-11-SB1	=	Water sample collected from soil boring one at 11 feet below grade surface.
DTW	=	Depth to water.
TEPHd	=	Total extractable petroleum hydrocarbons as diesel analyzed using EPA method 8015 (modified).
TPPHg	=	Total purgeable petroleum hydrocarbons as gasoline analyzed using EPA method 5030/8015 (modified).
MTBE	=	Methyl tertiary butyl ether analyzed using EPA method 8260.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA method 8021.
DO	=	Dissolved oxygen reading collected after well purging using a YSI model 55 meter.
---	=	Not measured/not analyzed.
<	=	Less than the indicated detection limit shown by the laboratory.
ug/L	=	Micrograms per liter.
mg/L	=	Millgrams per liter



FN 2009XSAA

ERI ENVIRONMENTAL RESOLUTIONS INC.

CROSS SECTION A - A'

FORMER
EXXON SERVICE STATION 7-0236
6600 East 14th Street
Oakland, California

EXPLANATION

* Boring logs not available; data acquired from Alton Geoscience cross section (6/92)

200 Concentration of total purgeable petroleum hydrocarbons as gasoline in parts per million (ppm).

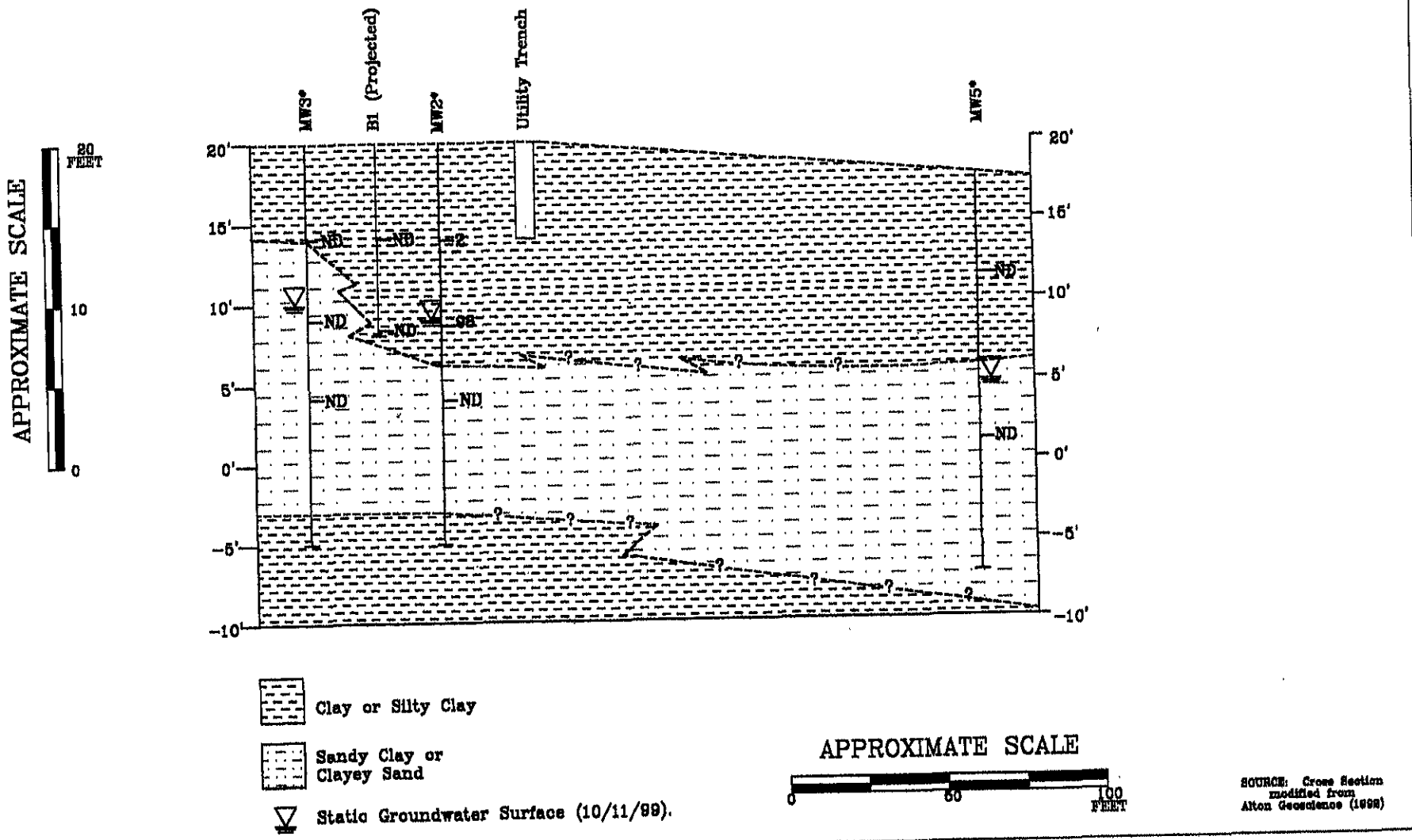
ND Not Detected

MW4 Monitoring Well
B2 Soil Boring
VE1 Vapor Extraction Well

PROJECT NO.
2009

PLATE
E

DATE: 12/15/95



FN 2009XSBB

ERI ENVIRONMENTAL RESOLUTIONS, INC.

CROSS-SECTION B - B'

FORMER
EXXON SERVICE STATION 7-0236
6600 East 14th Street
Oakland, California

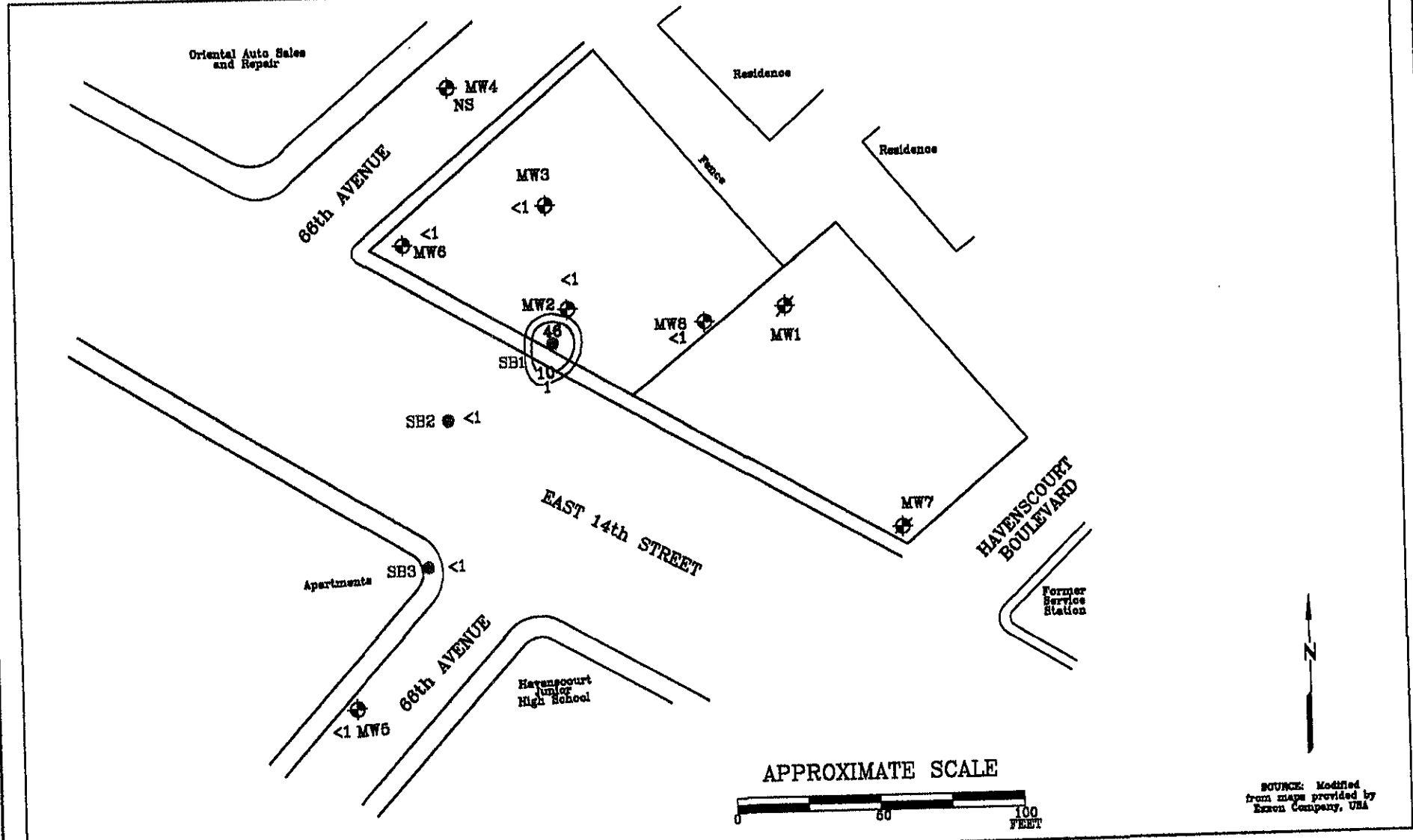
EXPLANATION

* Boring logs not available; data acquired from Alton Geoscience cross section (1998)
98 Concentration of total purgeable petroleum hydrocarbons as gasoline in parts per million (ppm).
ND Not Detected
MW5 Monitoring Well

PROJECT NO.
2009

PLATE
3

DATE: 12/15/99



FN 20090038A

ERI ENVIRONMENTAL

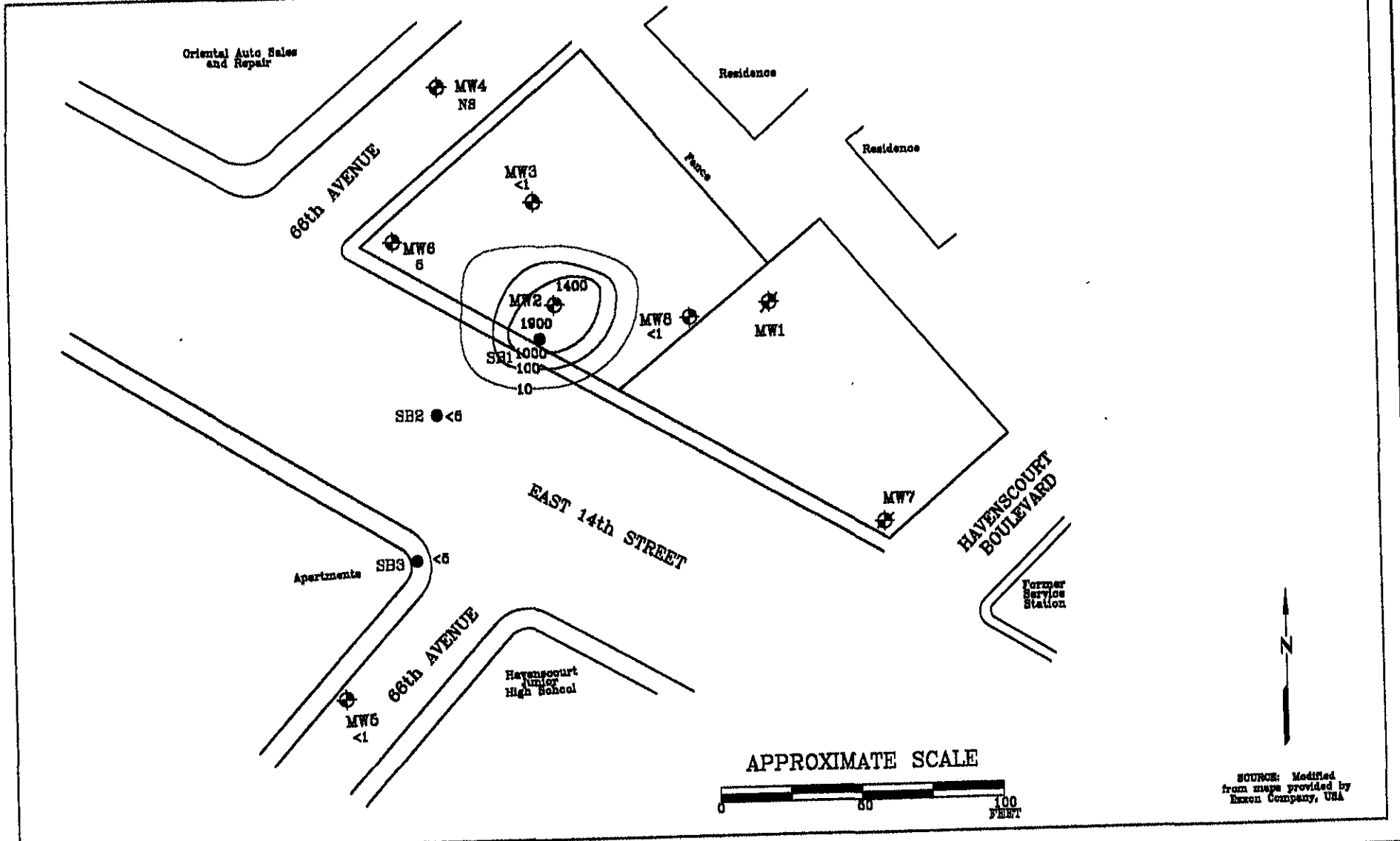
BENZENE ISOCONCENTRATION MAP OCTOBER 11, 1999

FORMER
EXXON SERVICE STATION 7-0236
6600 East 14th Street
Oakland, California

MW8 EXPLANATION
- Groundwater Monitoring Well
- MW7 Groundwater Monitoring Well (Destroyed)
- Soil Boring
- Benzene Concentration in ug/l

PROJECT NO.
2009

PLATE
8



FN 2009003A

MTBE ISOCONCENTRATION MAP OCTOBER 11, 1999

FORMER EXXON SERVICE STATION 7-0236

MW8 EXPLANATION

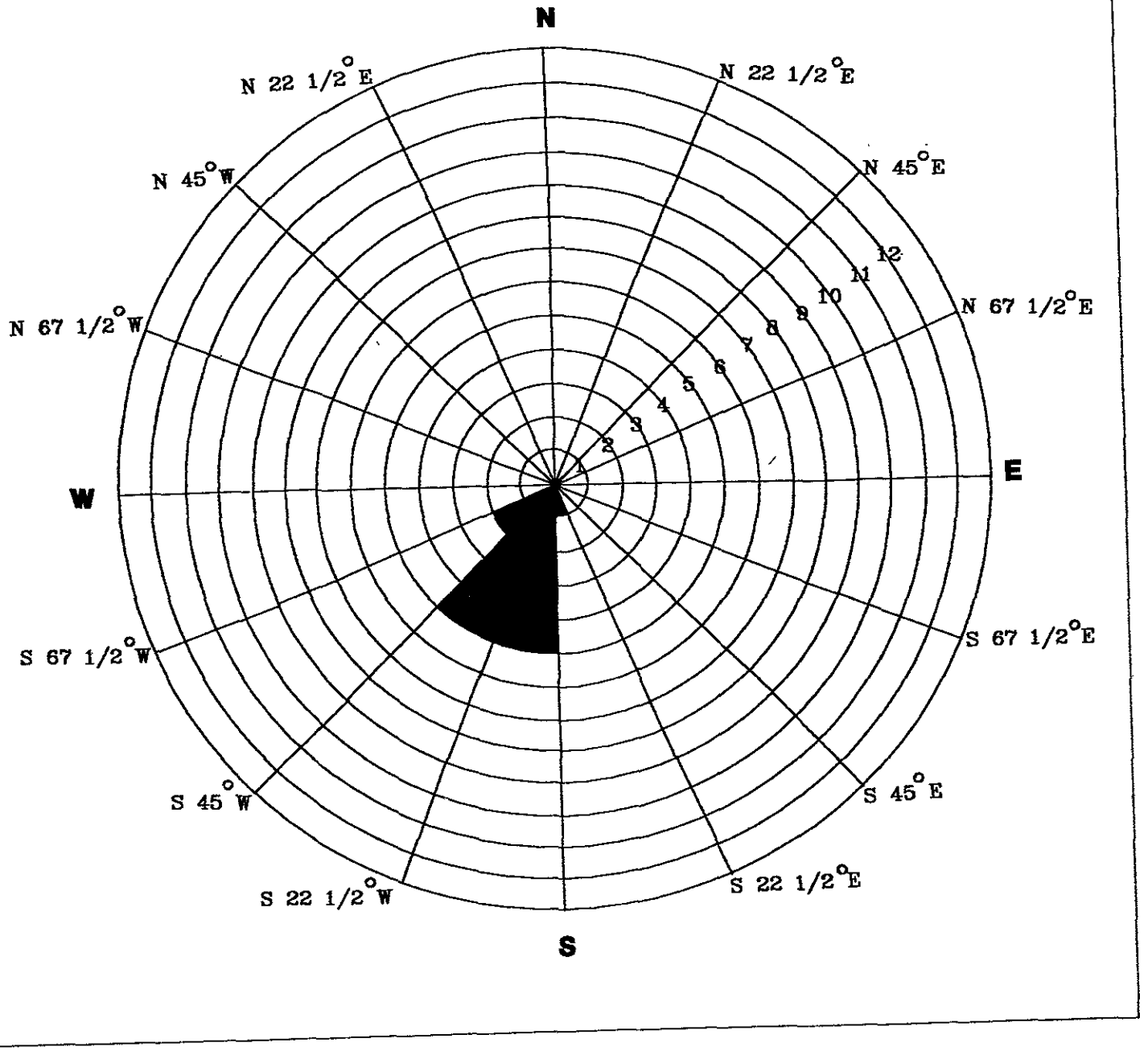
Groundwater Monitoring Well

MW7 Groundwater Monitoring Well (Destroyed)

Soil Boring

PROJECT NO. 2009

PLATE 7



FN 20090005

EXPLANATION

N Compass Direction

Thirteen Data Points Shown

Rose diagram developed by evaluating the groundwater gradient direction from the quarterly monitoring data. Each circle on the rose diagram represents the number of monitoring events that the gradient plotted in that 22 1/2 degree sector. For example, five quarterly groundwater gradient directions plotted between due south and south 22 1/2 degrees west. Therefore, the dominant groundwater gradient direction as depicted by the rose diagram is between due south and south 45 degrees west.

ENVIRONMENTAL RESOLUTIONS, INC.

GROUNDWATER FLOW DIRECTION ROSE DIAGRAM

FORMER EXXON SERVICE STATION 7-0236
6600 East 14th Street
Oakland, California

PROJECT NO. 2009

PLATE 9

June 21, 1999

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0236
6600 East 14th Street
Oakland, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TEPHd	TPPHg	MTBE	B	T	E	X	DO	Ferrous Iron	Alkalinity	Nitrate	Sulfate
		<	feet	>	<			ug/L			>	<		mg/L		>
MW1	3/15/91	NR	7.44	12.76	---	<50	---	<0.3	0.5	0.3	1.3	---	---	---	---	---
(20.20)	1/15/92 (H,T)	NR	10.60	9.60	< 300	<50	---	<0.5	0.7	<0.5	0.9	---	---	---	---	---
	3/23/92 (H,T)	NR	6.38	13.82	<50	<50	---	<0.5	<0.5	<0.5	< 0.5	---	---	---	---	---
	4/6/92	NR	7.55	12.65	---	---	---	---	---	---	---	---	---	---	---	---
	7/8/92 (H,T)	NR	9.85	10.35	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	10/13/92 (H,T)	NR	12.95	7.25	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	3/9/93	NLPH	7.38	12.82	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	6/4/93	NLPH	8.55	11.65	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	9/2/93	NLPH	10.85	9.35	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	11/16/93	NLPH	12.43	7.77	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	2/4/94	NLPH	9.10	11.10	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	4/29/94	NLPH	8.45	11.75	<50	<50	---	<0.5	< 0.5	<0.5	<0.5	---	---	---	---	---
	9/20/94	NLPH	10.73	9.47	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	12/14/94	NLPH	7.35	12.85	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	3/27/95	NLPH	7.06	13.14	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	5/18/95	NLPH	7.32	12.88	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	8/8/95	NLPH	9.24	10.96	<50	<50	< 2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	11/7/95	NLPH	10.74	9.46	<50	<50	< 2.5	<0.5	<0.5	<0.5	< 0.5	---	---	---	---	---
	2/29/96	NLPH	6.80	13.40	53	<50	< 2.5	<0.5	<0.5	<0.5	< 0.5	---	---	---	---	---
	5/10/96	NLPH	8.13	12.07	150	<50	< 2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	8/20/96	NLPH	9.58	10.62	<50	<50	< 2.5	<0.5	<0.5	<0.5	< 0.5	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/27/96	---	---	---	---	---	---	---	---	---	---	9.50	---	---	---	---
	12/6/96	NLPH	8.10	12.10	---	---	---	---	---	---	---	11.54	---	---	---	---
	1/19/97	Abandoned	---	---	---	---	---	---	---	---	---	10.05	---	---	---	---
MW2	3/15/91 (H,T)	NR	9.05	10.10	120	1,700	---	190	2.6	12	64	---	---	---	---	---
(19.15)	1/15/92 (H,T)	NR	11.60	7.55	1,000	6,800	---	81	<10	320	170	---	---	---	---	---
	3/23/92 (H,T)	NR	9.42	9.73	3,000	7,100	---	740	30	810	490	---	---	---	---	---
	4/6/92	NR	9.09	10.06	---	---	---	---	---	---	---	---	---	---	---	---
	7/8/92	NR	10.08	9.07	2,100	7,000	---	250	14	300	160	---	---	---	---	---
	10/13/92	NR	12.06	7.09	1,900	3,200	---	97	2.6	97	53	---	---	---	---	---
	3/9/93	sheen	9.71	9.44	---	---	---	---	---	---	---	---	---	---	---	---
	6/4/93	sheen	9.40	9.75	---	---	---	---	---	---	---	---	---	---	---	---
	9/2/93	sheen	10.46	8.69	3,700	11,000	2,500	210	18	260	59	---	---	---	---	---
	11/16/93 (M*)	NLPH	11.44	7.71	3,300	8,500	---	75	27	51	32	---	---	---	---	---
	2/4/94	NLPH	10.41	8.74	2,700	4,400	---	120	16	22	7.7	---	---	---	---	---
	4/29/94	NLPH	9.51	9.64	2,000	380	---	5.9	0.6	1.6	<0.5	---	---	---	---	---
	9/20/94	NLPH	10.57	8.58	1,800**	19,000	---	190	29***	110	27***	---	---	---	---	---
	12/14/94	sheen	8.90	10.25	---	---	---	---	---	---	---	---	---	---	---	---
	3/27/95	NLPH	7.72	11.43	1,700	6,300	---	210	15	250	43	---	---	---	---	---
	5/18/95	sheen	8.65	10.50	2,000#	6,000	--	180	9.9	220	55	---	---	---	---	---
	8/8/95	NLPH	9.67	9.48	2,700	5,300	36,000	110	<20	120	<20	---	---	---	---	---
	11/7/95	NLPH	10.49	8.66	1,800	6,400	24,000	120	11	95	38	---	---	---	---	---
							Additional Analyses for general minerals and properties < *									
	2/29/96	NLPH	8.45	10.70	2,500	<5,000	25,000	120	<50	120	<50	---	---	---	---	---

TABLE 1C

CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Former Exxon Service Station 7-0236

6600 East 14th Street

Oakland, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TEPHd	TPPHg	MTBE	B	T	E	X	DO	Ferrous Iron	Alkalinity	Nitrate	Sulfate
(TOC)	Date	<	feet	>	<			ug/L			>	<		mg/L		>
MW2 (cont.)	5/10/96	NLPH	9.02	10.13	2,300	11,000	26,000	210	120	210	140	---	---	---	---	---
(19.15)	8/20/96	NLPH	10.08	9.07	---	---	---	---	---	---	---	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	7.75	---	---	---	---
	11/27/96	---	---	---	---	---	---	---	---	---	---	6.28	---	---	---	---
	12/6/96	NLPH	10.21	8.94	1,700	5,800	< 125	170	<25	38	<25	5.21	---	---	---	---
	1/17/97	NLPH	---	---	---	---	---	---	---	---	---	3.67	---	---	---	---
(22.19)	2/25/97	NLPH	8.15	14.04	1,500	5,900	4,400	110	14	310	52	2.71	---	---	---	---
	3/13/97	---	---	---	---	---	---	---	---	---	---	2.46	---	---	---	---
	4/16/97	---	---	---	---	---	---	---	---	---	---	1.00	---	---	---	---
	5/21/97	NLPH	10.50	11.69	1,600	5,700	1,800	71	11	240	59	0.85	---	---	---	---
	6/5/97	---	---	---	---	---	---	---	---	---	---	2.18	---	---	---	---
	7/11/97	---	---	---	---	---	---	---	---	---	---	1.87	---	---	---	---
	8/6/97	NLPH	10.80	11.39	1,600	4,100	(1,900)	40	5.2	49	17	1.51	---	---	---	---
	9/23/97	---	---	---	---	---	---	---	---	---	---	2.36	---	---	---	---
	10/7/97	NLPH	11.08	11.11	1,200	280	230	1.2	2.4	< 0.5	1.1	1.56	---	---	---	---
	12/24/97	---	---	---	---	---	---	---	---	---	---	1.23	---	---	---	---
	1/16/98	NLPH	7.29	14.90	1,200	3,500	3,000	190	14	110	31	1.18	---	---	---	---
	2/20/98	---	---	---	---	---	---	---	---	---	---	1.30	---	---	---	---
	3/26/98	---	---	---	---	---	---	---	---	---	---	1.20	---	---	---	---
	4/17/98	NLPH	8.61	13.58	970	3,200	2,600	150	6.9	37	5.7	1.38	---	---	---	---
	5/13/98	---	---	---	---	---	---	---	---	---	---	0.45	---	---	---	---
	6/22/98	---	---	---	---	---	---	---	---	---	---	1.09	---	---	---	---
	7/17/98	NLPH	9.38	12.81	1,300	1,700	1,500	63	< 5.0	<5.0	<5.0	0.86	---	---	---	---
	10/16/98	NLPH	10.41	11.78	1,500	2,000	1,400	22	< 2.0	< 2.0	2.4	---	---	---	---	---
	1/15/99	NLPH	10.01	12.18	900	2,300	2,200	< 5.0	6.0	<5.0	6.5	---	---	---	---	---
	4/23/99	NLPH	7.61	14.58	967	2,140	937	42.3	<1.0	22.3	<1.0	---	---	---	---	---
	7/30/99	NLPH	9.82	12.37	1,620	2,480	1,470/1,360*	100	<10.0	<10.0	<10.0	---	---	---	---	---
	8/12/99	NLPH	10.00	12.19	---	---	---	---	---	---	---	---	0.710	750	6.0	7.2
	9/3/99	NLPH	---	---	---	---	---	---	---	---	---	1.02	---	---	---	---
	10/11/99	NLPH	10.46	11.73	1,700	2,900	1,300/1,400*	<1.0	2.5	<1.0	<1.0	---	0.200	927	14.8	27.6
	10/14/99	NLPH	---	---	---	---	---	---	---	---	---	19.71	---	---	---	---
	1/26-27/2000	**NLPH**	**8.95**	**13.24**	**150/180****	**160**	**420**	**12**	**<0.5**	**<0.5**	**<0.5**	**4.10**	**0.0200**	**842**	**6.97**	**28.2**
MW3	3/15/91 (H,T)	NR	7.84	11.75	160	3,100	---	2.2	1.9	100	84	---	---	---	---	---
(19.59)	1/15/92 (H,T)	NR	10.30	9.29	< 300	250	---	0.7	6.8	1.5	1.5	---	---	---	---	---
	3/23/92 (H,T)	NR	6.84	12.75	440	640	---	<0.5	12	25	6.5	---	---	---	---	---
	4/6/92	NR	7.84	11.75	---	---	---	---	---	---	---	---	---	---	---	---
	7/8/92 (H,T)	NR	8.63	10.96	960	2,900	---	<0.5	2.6	12	63.7	---	---	---	---	---
	10/13/92 (H)	NR	12.10	7.49	400	1,100	---	5 5	<0.5	4.6	1.1	---	---	---	---	---
	3/9/93	sheen	9.05	10.54	---	---	---	---	---	---	---	---	---	---	---	---
	6/4/93	sheen	8.43	11.16	---	---	---	---	---	---	---	---	---	---	---	---
	9/2/93	NLPH	10.22	9.37	690	840	---	2.7	3.6	5.4	2.9	---	---	---	---	---
	11/16/93	NLPH	11.44	8.15	310	650	---	<0.5	11	7 7	2.4	---	---	---	---	---
	2/4/94	NLPH	9.27	10.32	340	870	---	0.6	14	1.2	0.8	---	---	---	---	---
	4/29/94	NLPH	8.10	11.49	290	790	---	<0.5	<0.5	0.8	1	---	---	---	---	---
	9/20/94	NLPH	10.10	9.49	91**	1,900	---	<0.5	<0.5	11	4.4	---	---	---	---	---
	12/14/94	NLPH	8.00	11.59	190	1,700	---	17	22	<0.5	<0.5	---	---	---	---	---
	3/27/95	NLPH	7.23	12.36	1,100	1,500	---	5.0	3.1	6.3	3.6	---	---	---	---	---

TABLE 1©
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0236
6600 East 14th Street
Oakland, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TEPHd	TPPHg	MTBE	B	T	E	X	DO	Ferrous Iron	Alkalinity	Nitrate	Sulfate
		<	feet	>	<			ug/L			>	<		mg/L		>
MW3 (cont.)	5/18/95	NLPH	7.73	11.86	470#	1,000	---	<0.5	<0.5	4.1	0.94	---	---	---	---	---
(19.59)	8/8/95	NLPH	8.81	10.78	580	1,600	12	12	<0.5	2.4	0.63	---	---	---	---	---
	11/7/95	NLPH	9.96	9.63	540	1,500	26	<2.5	2.9	<2.5	<2.5	---	---	---	---	---
	2/29/96	NLPH	8.47	11.12	680	1,000	<25	<5.0	<5.0	<5.0	<5.0	---	---	---	---	---
	5/10/96	NLPH	7.93	11.66	560	480	6.8	<1.0	<1.0	<1.0	<1.0	---	---	---	---	---
	8/20/96	NLPH	10.13	9.46	---	---	---	---	---	---	---	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/27/96	---	---	---	---	---	---	---	---	---	---	7.65	---	---	---	---
	12/6/96	NLPH	9.21	10.38	450	970	19	<1.0	<1.0	<1.0	1.8	8.76	---	---	---	---
	1/17/97	---	---	---	---	---	---	---	---	---	---	10.14	---	---	---	---
(22.62)	2/25/97	NLPH	8.34	14.28	410	990	47	10	0.85	0.86	1.5	14.02	---	---	---	---
	3/13/97	---	---	---	---	---	---	---	---	---	---	10.69	---	---	---	---
	4/16/97	---	---	---	---	---	---	---	---	---	---	8.68	---	---	---	---
	5/21/97	NLPH	9.99	12.63	270	<50	<2.5	<0.5	<0.5	<0.5	<0.5	18.73	---	---	---	---
	6/5/97	---	---	---	---	---	---	---	---	---	---	6.76	---	---	---	---
	7/11/97	---	---	---	---	---	---	---	---	---	---	6.70	---	---	---	---
	8/6/97	NLPH	10.29	12.33	310	650	<5.0	4.0	<1.0	<1.0	<1.0	4.10	---	---	---	---
	9/23/97	---	---	---	---	---	---	---	---	---	---	10.59	---	---	---	---
	10/7/97	NLPH	10.86	11.76	500	1,600	12	24	10	<2.0	3.5	8.62	---	---	---	---
	12/24/97	---	---	---	---	---	---	---	---	---	---	11.81	---	---	---	---
	1/16/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	2/20/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	3/26/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	4/17/98	NLPH	7.56	15.06	220	710	21	<0.5	0.76	<0.5	<0.5	11.22	---	---	---	---
	5/13/98	---	---	---	---	---	---	---	---	---	---	10.55	---	---	---	---
	6/22/98	---	---	---	---	---	---	---	---	---	---	9.40	---	---	---	---
	7/17/98	NLPH	8.23	14.39	180	450	8.9	9.5	<1.0	<1.0	<1.0	0.22	---	---	---	---
	10/16/98	NLPH	9.75	12.87	320	520	5.1	<0.5	11	<0.5	0.93	0.96	---	---	---	---
	1/15/99	NLPH	8.83	13.79	600	190	12	<0.5	0.91	<0.5	0.7	0.94	---	---	---	---
	4/23/99	NLPH	7.11	15.51	194	406	2.71	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	7/30/99	NLPH	8.98	13.64	72.5	193	<2.50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	8/12/99	NLPH	9.40	13.22	---	---	---	---	---	---	---	---	---	---	---	---
	9/3/99	NLPH	---	---	---	---	---	---	---	---	---	---	0.0440	330	48.1	47.4
	10/11/99	NLPH	9.91	12.71	100	130	<1.0	<1.0	<1.0	<1.0	<1.0	2.56	---	---	---	---
	10/14/99	NLPH	---	---	---	---	---	---	---	---	---	---	0.0490	317	50.1	48.2
	1/26-27/2000	NLPH	8.56	14.06	150/<50**	210	<2	1.6	<0.5	<0.5	<0.5	1.41	---	---	---	---
MW4	4/6/92	NR	7.76	11.70	<50	<50	---	<0.5	<0.5	<0.5	<0.5	2.00	0.0120	329	38.6	61.9
(19.46)	7/8/92	NR	9.56	9.90	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	10/13/92	NR	12.09	7.37	<80	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	3/9/93	NLPH	7.53	11.93	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	6/4/93	NLPH	8.50	10.96	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	9/2/93	NLPH	10.30	9.16	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	11/16/93*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	2/4/94	NLPH	8.82	10.64	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	4/29/94 (D)	NLPH	8.55	10.91	100	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	9/20/94	NLPH	10.21	9.25	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	12/14/94	NLPH	7.04	12.42	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---

TABLE 1C
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0236
6600 East 14th Street
Oakland, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TEPHd	TPPHg	MTBE	B	T	E	X	DO	Ferrous Iron	Alkalinity	Nitrate	Sulfate
		<	feet	>	<			ug/L			>	<		mg/L		>
MW4 (cont.)	3/27/95	NLPH	6.38	13.08	140	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
(19.46)	5/18/95	NLPH	7.56	11.90	<50	<50	---	<0.5	<0 5	<0.5	<0.5	---	---	---	---	---
	8/8/95	NLPH	8.92	10.54	<50	<50	<2.5	<0.5	<0 5	<0.5	<0.5	---	---	---	---	---
	11/7/95	NLPH	10.30	9.16	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	2/29/96	NLPH	6.44	13.02	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	5/10/96	NLPH	8.15	11.31	<50	<50	<2.5	<0.5	0.84	<0.5	2.3	---	---	---	---	---
	8/20/96	NLPH	9.27	10.19	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	1.63	---	---	---	---
	11/27/96	---	---	---	---	---	---	---	---	---	---	1.54	---	---	---	---
	12/6/96	NLPH	7.76	11.70	---	---	---	---	---	---	---	2.33	---	---	---	---
	1/17/97	---	---	---	---	---	---	---	---	---	---	0 91	---	---	---	---
(22.58)	2/25/97	NLPH	7.98	14.60	<50	<50	<2.5	<0.5	0.89	<0.5	1.8	1.03	---	---	---	---
	3/13/97	---	---	---	---	---	---	---	---	---	---	1.06	---	---	---	---
	4/16/97	---	---	---	---	---	---	---	---	---	---	4.03	---	---	---	---
	5/21/97	NLPH	9.03	13.55	---	---	---	---	---	---	---	0.90	---	---	---	---
	6/5/97	---	---	---	---	---	---	---	---	---	---	1.46	---	---	---	---
	7/11/97	---	---	---	---	---	---	---	---	---	---	1.31	---	---	---	---
	8/6/97	NLPH	9.74	12.84	<50	<50	<2.5	<0.5	<0 5	<0.5	<0.5	1.46	---	---	---	---
	9/23/97	---	---	---	---	---	---	---	---	---	---	1 50	---	---	---	---
	10/7/97	NLPH	10.06	12.52	---	---	---	---	---	---	---	1.65	---	---	---	---
	12/24/97	---	---	---	---	---	---	---	---	---	---	1.96	---	---	---	---
	1/16/98	NLPH	5.01	17.57	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	1.68	---	---	---	---
	2/20/98	---	---	---	---	---	---	---	---	---	---	3.33	---	---	---	---
	3/26/98	---	---	---	---	---	---	---	---	---	---	1.65	---	---	---	---
	4/17/98	NLPH	7.21	15.37	---	---	---	---	---	---	---	3.10	---	---	---	---
	5/13/98	---	---	---	---	---	---	---	---	---	---	0.40	---	---	---	---
	6/22/98	---	---	---	---	---	---	---	---	---	---	1.20	---	---	---	---
	7/17/98	NLPH	8.46	14.12	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	1.84	---	---	---	---
	10/16/98	NLPH	9.84	12.74	---	---	---	---	---	---	---	---	---	---	---	---
	1/15/99	NLPH	11.33	11.25	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	4/23/99	NLPH	7.63	14.95	---	---	---	---	---	---	---	---	---	---	---	---
	7/30/99	NLPH	9.17	13.41	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	9/3/99	NLPH	---	---	---	---	---	---	---	---	---	2.94	---	---	---	---
	10/11/99	NLPH	9.98	12.60	---	---	---	---	---	---	---	---	---	---	---	---
	10/14/99	NLPH	---	---	---	---	---	---	---	---	---	1.36	---	---	---	---
	1/26-27/2000	NLPH	7.60	14.98	110/<50**	<50	<2	<0.5	<0.5	<0.5	<0.5	3.00	---	---	---	---
MW5	4/6/92	NR	10.66	6.29	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
(16.95)	7/8/92 *	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/13/92	NR	15.02	1.93	<50	69	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	3/9/93	NLPH	10.27	6.68	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	6/4/93	NLPH	11.35	5.60	<50	<50	---	<0 5	<0.5	<0.5	<0.5	---	---	---	---	---
	9/2/93	NLPH	13.15	3.80	<50	<50	---	<0.5	<0.5	<0 5	<0.5	---	---	---	---	---
	11/16/93	NLPH	14.35	2.60	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	2/4/94	NLPH	11.83	5.12	60	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	4/29/94	NLPH	11.15	5 80	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	9/20/94	NLPH	12.79	4.16	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	12/14/94	NLPH	9.95	7.00	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---

TABLE 1C
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0236
6600 East 14th Street
Oakland, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW feet	Elev.	TEPHd	TPPHg	MTBE	B	T	E	X	DO	Ferrous Iron	Alkalinity	Nitrate	Sulfate
		<		>	<			ug/L			>	<		mg/L		>
MW5 (cont.)	3/27/95	NLPH	9.09	7.86	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
(16.95)	5/18/95	NLPH	10.29	6.66	<50	<50	---	<0.5	4.6	0.65	2.8	---	---	---	---	---
	8/8/95	NLPH	11.13	5.82	51	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	11/7/95	NLPH	12.12	4.83	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	Additional Analyses for general minerals and properties <**											---	---	---	---	---
	2/29/96	NLPH	9.24	7.71	60	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	5/10/96	NLPH	10.71	6.24	<50	<50	<2.5	<0.5	<0.5	<0.5	1.6	---	---	---	---	---
	8/20/96	NLPH	11.45	5.50	---	---	---	---	---	---	---	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/27/96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/6/96	NLPH	10.70	6.25	90	62	<2.5	1.2	6.5	1.7	11	---	---	---	---	---
	1/17/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	2/25/97	NLPH	10.49	6.46	90	<50	<2.5	1.4	2.4	0.95	7.4	---	---	---	---	---
(19.98)	3/13/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	4/16/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5/21/97	NLPH	11.31	8.67	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	6/5/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/11/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	8/6/97	NLPH	11 78	8.20	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	9/23/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/7/97	NLPH	12.26	7.72	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	12/24/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1/16/98	NLPH	8.87	11.11	<50	<50	<2.5	<0.5	<0.5	<0.5	0.64	---	---	---	---	---
	2/20/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	3/26/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	4/17/98	NLPH	9.97	10.01	<50	<50	<2.5	0.9	2.2	0.81	3.6	---	---	---	---	---
	5/13/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/22/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/17/98	NLPH	11.00	8.98	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	10/16/98	NLPH	11.92	8.06	51	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	1/15/99	NLPH	9.01	10.97	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	4/23/99	NLPH	6.31	13.67	<50	<50	<2.0	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	7/30/99	NLPH	11.16	8.82	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	8/12/99	NLPH	11.48	8.50	---	---	---	---	---	---	---	---	0.110	510	<1.0	17.7
	9/3/99	NLPH	---	---	---	---	---	---	---	---	---	2.11	---	---	---	---
	10/11/99	NLPH	12.01	7.97	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	---	4.00	457	5.39	27.2
	10/14/99	NLPH	---	---	---	---	---	---	---	---	---	1.58	---	---	---	---
	1/26-27/2000	**NLPH**	**10.12**	**9.86**	**130<50****	**<50**	**<2**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**2.20**	**0.0340**	**503**	**<1.00**	**1.95**
MW6	4/6/92 (H)	NR	8.29	10.50	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
(18.79)	7/8/92 (H,T)	NR	9.22	9.57	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	10/13/92	NR	11.51	7.28	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	3/9/93	NLPH	8.26	10.53	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	6/4/93	NLPH	8.90	9.89	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	9/2/93	NLPH	9.92	8.87	60	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	11/16/93	NLPH	10.65	8.14	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	2/4/94	NLPH	9.26	9.53	80	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	4/29/94	NLPH	8.33	10.46	110	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---

TABLE 1C
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0236
6600 East 14th Street
Oakland, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TEPHd	TPPHg	MTBE	B	T	E	X	DO	Ferrous Iron	Alkalinity	Nitrate	Sulfate
		<	feet	>	<			ug/L			>	<		mg/L		>
MW6 (cont.)	9/20/94	NLPH	9.23	9.56	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
(18.79)	12/14/94	sheen	7.87	10.92	---	---	---	---	---	---	---	---	---	---	---	---
	3/27/95	NLPH	7.63	11.16	54	56	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	5/18/95	NLPH	8.00	10.79	71	56	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	8/8/95	NLPH	8.92	9.87	60	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	11/7/95	NLPH	9.77	9.02	<50	<50	4.7	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	2/29/96	NLPH	7.67	11.12	64	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	5/10/96	NLPH	8.33	10.46	110	<50	5.4	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	8/20/96	NLPH	9.16	9.63	---	---	---	---	---	---	---	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	10.58	---	---	---	---
	11/27/96	---	---	---	---	---	---	---	---	---	---	14.17	---	---	---	---
	12/6/96	NLPH	8.55	10.24	68	<50	3.9	<0.5	<0.5	<0.5	<0.5	10.33	---	---	---	---
	1/17/97	---	---	---	---	---	---	---	---	---	---	11.71	---	---	---	---
(21.84)	2/25/97	NLPH	8.42	13.42	67	<50	6.8	<0.5	<0.5	<0.5	<0.5	10.94	---	---	---	---
	3/13/97	---	---	---	---	---	---	---	---	---	---	8.88	---	---	---	---
	4/16/97	---	---	---	---	---	---	---	---	---	---	15.20	---	---	---	---
	5/21/97	NLPH	9.16	12.68	82	<50	3.4	<0.5	<0.5	<0.5	<0.5	12.38	---	---	---	---
	6/5/97	---	---	---	---	---	---	---	---	---	---	10.99	---	---	---	---
	7/11/97	---	---	---	---	---	---	---	---	---	---	10.13	---	---	---	---
	8/6/97	NLPH	9.82	12.02	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	9.05	---	---	---	---
	9/23/97	---	---	---	---	---	---	---	---	---	---	6.22	---	---	---	---
	10/7/97	NLPH	9.85	11.99	89	<50	4.1	<0.5	<0.5	<0.5	<0.5	9.68	---	---	---	---
	12/24/97	---	---	---	---	---	---	---	---	---	---	2.78	---	---	---	---
	1/16/98	NLPH	5.50	16.34	93	<50	<2.5	<0.5	<0.5	<0.5	<0.5	2.73	---	---	---	---
	2/20/98	---	---	---	---	---	---	---	---	---	---	3.55	---	---	---	---
	3/26/98	---	---	---	---	---	---	---	---	---	---	3.90	---	---	---	---
	4/17/98	NLPH	8.12	13.72	59	<50	<2.5	<0.5	<0.5	<0.5	<0.5	5.08	---	---	---	---
	5/13/98	---	---	---	---	---	---	---	---	---	---	6.90	---	---	---	---
	6/22/98	---	---	---	---	---	---	---	---	---	---	8.96	---	---	---	---
	7/17/98	NLPH	8.81	13.03	63	<50	3.3	<0.5	<0.5	<0.5	<0.5	10.69	---	---	---	---
	10/16/98	NLPH	9.84	12.00	60	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	1/15/99	NLPH	9.55	12.29	<50	<50	3.7	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	4/23/99	NLPH	8.72	13.12	106	<50	14.4	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	7/30/99	NLPH	9.32	12.52	<50	<50	<2.50/2.50*	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	9/3/99	NLPH	---	---	---	---	---	---	---	---	---	6.20	---	---	---	---
	10/11/99	NLPH	9.54	12.30	<50	<50	3.4/5*	<1.0	<1.0	<1.0	<1.0	---	---	---	---	---
	10/14/99	NLPH	---	---	---	---	---	---	---	---	---	9.09	---	---	---	---
	1/26-27/2000	**NLPH**	**9.09**	**12.75**	**120/<50****	**<50**	**2.7**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**2.30**	**---**	**---**	**---**	**---**
MW7	4/6/92	NR	8.34	10.89	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
(19.23)	7/8/92 *	NR	10.30	8.93	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	10/13/92	NR	12.91	6.32	94	670	---	0.8	<0.5	<0.5	2.5	---	---	---	---	---
	3/9/93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/4/93	NLPH	8.68	10.55	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	9/2/93	NLPH	10.80	8.43	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	11/16/93	NLPH	12.38	6.85	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	2/4/94	NLPH	9.28	9.95	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	4/29/94	NLPH	9.19	10.04	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---

TABLE 1D
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0236
6600 East 14th Street
Oakland, California
(Page 7 of 8)

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TEPHd	TPPHg	MTBE	B	T	E	X	DO	Ferrous Iron	Alkalinity	Nitrate	Sulfate
		<	feet	>	<			ug/L			>	<		mg/L		>
MW7 (cont.)	9/20/94	NLPH	10.85	8.38	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
(19.23)	12/14/94	NLPH	8.44	10.79	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	3/27/95	NLPH	7.54	11.69	280	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	5/18/95	NLPH	8.11	11.12	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	8/8/95	NLPH	9.48	9.75	52	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	11/7/95	NLPH	10.83	8.40	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	2/29/96	NLPH	7.70	11.53	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	5/10/96	NLPH	8.76	10.47	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	8/20/96	NLPH	9.91	9.32	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/27/96	---	---	---	---	---	---	---	---	---	---	1.48	---	---	---	---
	12/6/96	NLPH	8.90	10.33	---	---	---	---	---	---	---	2.71	---	---	---	---
	1/19/97	Abandoned		---	---	---	---	---	---	---	---	8.90	---	---	---	---
												---	---	---	---	---
MW8	1/17/97	---	---	---	---	---	---	---	---	---	---	1.39	---	---	---	---
(22.60)	2/25/97	NLPH	7.93	14.67	<50	69	30	<0.5	<0.5	<0.5	<0.5	1.82	---	---	---	---
	3/13/97	---	---	---	---	---	---	---	---	---	---	1.58	---	---	---	---
	4/16/97	---	---	---	---	---	---	---	---	---	---	0.81	---	---	---	---
	5/21/97	NLPH	9.04	13.56	<50	<50	3.5	<0.5	<0.5	<0.5	<0.5	0.74	---	---	---	---
	6/5/97	---	---	---	---	---	---	---	---	---	---	0.55	---	---	---	---
	7/11/97	---	---	---	---	---	---	---	---	---	---	0.85	---	---	---	---
	8/6/97	NLPH	9.90	12.70	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	0.77	---	---	---	---
	9/23/97	---	---	---	---	---	---	---	---	---	---	0.75	---	---	---	---
	10/7/97	NLPH	10.23	12.37	<50	100	4.9	1.1	<0.5	<0.5	<0.5	0.82	---	---	---	---
	12/24/97	---	---	---	---	---	---	---	---	---	---	0.86	---	---	---	---
	1/16/98	NLPH	4.39	18.21	81	180	9.6	2.8	<0.5	<0.5	0.92	0.94	---	---	---	---
	2/20/98	---	---	---	---	---	---	---	---	---	---	0.61	---	---	---	---
	3/26/98	---	---	---	---	---	---	---	---	---	---	0.53	---	---	---	---
	4/17/98	NLPH	---	---	74	370	27	<0.5	0.94	<0.5	0.79	2.65	---	---	---	---
	5/13/98	---	---	---	---	---	---	---	---	---	---	0.25	---	---	---	---
	6/22/98	---	---	---	---	---	---	---	---	---	---	1.38	---	---	---	---
	7/17/98	NLPH	8.02	14.58	<50	<50	3.3	<0.5	<0.5	<0.5	<0.5	2.09	---	---	---	---
	10/16/98	NLPH	9.78	12.82	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	1/15/99	NLPH	8.40	14.20	<50	<50	<2.5	<0.5	0.97	<0.5	<0.5	---	---	---	---	---
	4/23/99	NLPH	7.35	15.25	70.1	111	3.45	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	7/30/99	NLPH	8.86	13.74	<50	89.4	<2.5	<0.5	2.7	<0.5	<0.5	---	---	---	---	---
	9/3/99	NLPH	---	---	---	---	---	---	---	---	---	2.45	---	---	---	---
	10/11/99	NLPH	10.04	12.56	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	---	---	---
	10/14/99	NLPH	---	---	---	---	---	---	---	---	---	0.69	---	---	---	---
	1/26-27/2000	NLPH	5.82	17.08	90/60**	<50	<2	<0.5	<0.5	<0.5	<0.5	2.10	---	---	---	---

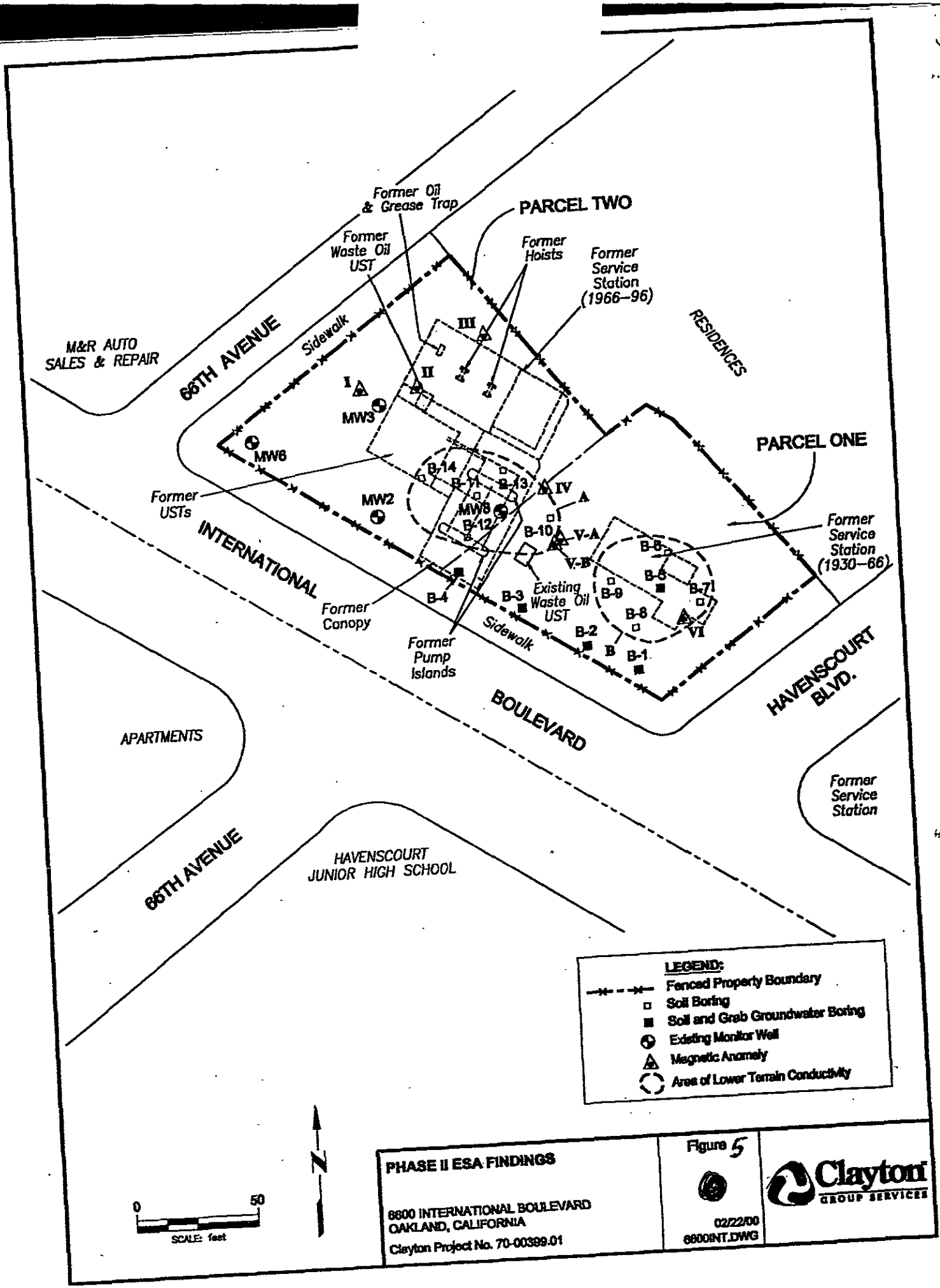

Former Oil & Grease Trap
PARCEL TWO
Former Waste Oil UST
Former Hoists
Former Service Station (1966–96)
RESIDENCES
M&R AUTO SALES & REPAIR
66TH AVENUE
Sidewalk
III
II
I
MW3
MW6
PARCEL ONE
B-14
B-11
B-13
IV
A
MW2
MW8
B-12
B-10
V-A
V-B
B-5
B-7
Former Service Station (1930–66)
Former USTs
INTERNATIONAL
Existing Waste Oil UST
B-9
B-8
VI
B-4
B-3
B-2
B
B-1
Former Canopy
Former Pump Islands
Sidewalk
HAVENSCOURT BLVD.
BOULEVARD
APARTMENTS
Former Service Station
66TH AVENUE
HAVENSCOURT JUNIOR HIGH SCHOOL
LEGEND:
Fenced Property Boundary
Soil Boring
Soil and Grab Groundwater Boring
Existing Monitor Well
Magnetic Anomaly
Area of Lower Terrain Conductivity
N
0
50
SCALE: feet
PHASE II ESA FINDINGS
6600 INTERNATIONAL BOULEVARD
OAKLAND, CALIFORNIA
Clayton Project No. 70-00399.01
Figure 5
02/22/00
6600INT.DWG
Clayton
GROUP SERVICES

TABLE 2

Summary of Petroleum Products and VOCs in Soil
6600 International Boulevard, Oakland, California

Sample ID	Depths (feet)	Petroleum Products								VOCs
		TPH-mo	TPH-d	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	All Analytes
B-3 (comp)	1 and 3	ND	6.2	ND	ND	ND	ND	ND	ND	ND
B-7 (comp)	2 and 4	ND	1.7	ND	ND	ND	ND	ND	ND	ND
B-11 (comp)	2 and 4	ND	3.1	ND	ND	ND	ND	ND	ND	ND
B-12 (comp)	2 and 4	ND	2.9	ND	ND	0.012	0.034	0.11	ND	ND
B-13 (comp)	2 and 4	ND	2.8	ND	ND	ND	ND	ND	ND	ND
B-14 (comp)	2 and 4	ND	1.5	ND	ND	ND	ND	ND	ND	ND

Notes:
All results reported in milligrams per kilogram (mg/kg) or parts per million (ppm)
ND = Analyte not present at or above the method detection limit
(comp) = 2-point composite soil sample
TPH-mo = Total petroleum hydrocarbons as motor oil
TPH-d = Total petroleum hydrocarbons as diesel
TPH-g = Total petroleum hydrocarbons as gasoline
MTBE= Methyl tertiary butyl ether
VOCs= Volatile Organic Compounds

Output Table 1

Site Name: Former Exxon Station 7-0236 Job Identification: 2009RBCA
Site Location: 6600 East 14th Street Date Completed: 11/10/99
Completed By: Steve M. Zigan

Software: GSI RBCA Spreadsheet
Version: 1.0.1

NOTE: values which differ from Tier 1 default values are shown in bold italics and underlined.

Exposure

Parameter	Definition (Units)	Residential			Commercial/Industrial	
		Adult	(1-6yrs)	(1-16 yrs)	Chronic	Constrctn
ATc	Averaging time for carcinogens (yr)	70				
ATn	Averaging time for non-carcinogens (yr)	30	6	16	25	1
BW	Body Weight (kg)	70	15	35	70	
ED	Exposure Duration (yr)	30	6	16	25	1
t	Averaging time for vapor flux (yr)	30			25	1
EF	Exposure Frequency (days/yr)	350			250	180
EF.Derm	Exposure Frequency for dermal exposure	350			250	
IRgw	Ingestion Rate of Water (L/day)	2			1	
IRs	Ingestion Rate of Soil (mg/day)	100	200		50	100
IRadj	Adjusted soil Ing. rate (mg-yr/kg-d)	1.1E+02			9.4E+01	
IRa.in	Inhalation rate indoor (m^3/day)	15			20	
IRa.out	Inhalation rate outdoor (m^3/day)	20			20	10
SA	Skin surface area (dermal) (cm^2)	5.8E+03		2.0E+03	5.8E+03	5.8E+03
SAadj	Adjusted dermal area (cm^2-yr/kg)	2.1E+03			1.7E+03	
M	Soil to Skin adherence factor	1				
AAFs	Age adjustment on soil ingestion	FALSE				
AAFd	Age adjustment on skin surface area	FALSE			FALSE	
tox	Use EPA tox data for air (or PEL based)?	TRUE			FALSE	
gwMCL?	Use MCL as exposure limit in groundwater?	FALSE				

Matrix of Exposed Persons to Complete Exposure Pathways

		Residential	Commercial/Industrial	
			Chronic	Constrctn
Outdoor Air Pathways:				
SS.v	Volatiles and Particulates from Surface Soils	FALSE		
S.v	Volatilization from Subsurface Soils	TRUE	FALSE	TRUE
GW.v	Volatilization from Groundwater	TRUE	FALSE	
Indoor Air Pathways:			FALSE	
S.b	Vapors from Subsurface Soils	TRUE		
GW.b	Vapors from Groundwater	TRUE	FALSE	
Soil Pathways:			FALSE	
SS.d	Direct Ingestion and Dermal Contact	FALSE		
Groundwater Pathways:			TRUE	TRUE
GW.i	Groundwater Ingestion	FALSE		
S.l	Leaching to Groundwater from all Soils	FALSE	FALSE	
			FALSE	

Matrix of Receptor Distance and Location On- or Off-Site

		Residential		Commercial/Industrial	
		Distance	On-Site	Distance	On-Site
GW	Groundwater receptor (cm)		FALSE		FALSE
S	Inhalation receptor (cm)		TRUE		FALSE

Matrix of Target Risks

		Individual	Cumulative
TRab	Target Risk (class A&B carcinogens)	1.0E-06	
TRc	Target Risk (class C carcinogens)	1.0E-05	
THQ	Target Hazard Quotient	1.0E+00	
Opt	Calculation Option (1, 2, or 3)	2	
Tier	RBCA Tier	2	

Surface

Parameters	Definition (Units)	Residential	Constrctn
A	Contaminated soil area (cm^2)	***8.0E+05***	***8.0E+05***
W	Length of affect. soil parallel to wind (cm)	***1.3E+03***	***1.3E+03***
W.gw	Length of affect. soil parallel to groundwater (cm	***6.4E+02***	
Uair	Ambient air velocity in mixing zone (cm/s)	2.3E+02	
delta	Air mixing zone height (cm)	2.0E+02	
Lss	Thickness of affected surface soils (cm)	***9.1E+01*** ← 3'	
Pe	Particulate areal emission rate (g/cm^2/s)	6.9E-14	

Groundwater	Definition (Units)	Value
delta.gw	Groundwater mixing zone depth (cm)	***1.8E+02*** ~6'
I	Groundwater infiltration rate (cm/yr)	3.0E+01
Ugw	Groundwater Darcy velocity (cm/yr)	
Ugw.ir	Groundwater seepage velocity (cm/yr)	
Ks	Saturated hydraulic conductivity(cm/s)	
grad	Groundwater gradient (cm/cm)	
Sw	Width of groundwater source zone (cm)	
Sd	Depth of groundwater source zone (cm)	9.8E+02
phi.eff	Effective porosity in water-bearing unit	1.8E+02
foc.sat	Fraction organic carbon in water-bearing unit	3.8E-01
BIO?	Is bioattenuation considered?	1.0E-03
BC	Biodegradation Capacity (mg/L)	FALSE

Soil	Definition (Units)	Value
hc	Capillary zone thickness (cm)	5.0E+00
hv	Vadose zone thickness (cm)	***2.8E+02*** ~9.2'
rho	Soil density (g/cm^3)	1.7
foc (.01)	Fraction of organic carbon in vadose zone	***0.001*** – more conservative
phi	Soil porosity in vadose zone	0.38
Lgw	Depth to groundwater (cm)	***2.9E+02*** ~9.5
Ls	Depth to top of affected subsurface soil (cm)	***9.1E+01*** ~3'
Lsubs	Thickness of affected subsurface soils (cm)	***4.0E+02***
pH	Soil/groundwater pH	6.5

		capillary	vadose	foundation
phi.w	Volumetric water content	0.342	0.12	0.12
phi.a	Volumetric air content	0.038	0.26	0.26

Building	Definition (Units)	Residential	Commercial
Lb	Building volume/area ratio (cm)	2.0E+02	3.0E+02
ER	Building air exchange rate (s^-1)	1.4E-04	2.3E-04
Lcrk	Foundation crack thickness (cm)	1.5E+01	
eta (.01)	Foundation crack fraction	***0.00001*** ← ? low.	

newbld based on actual data

Transport

Parameters	Definition (Units)	Residential	Commercial
Groundwater			
ax	Longitudinal dispersivity (cm)		
ay	Transverse dispersivity (cm)		
az	Vertical dispersivity (cm)		
Vapor			
dcy	Transverse dispersion coefficient (cm)		
dcz	Vertical dispersion coefficient (cm)		

Site Name: Former Exxon Station 7-0236

Site Location: 6600 East 14th Street

Completed By: Steve M. Zigan

Date Completed: 11/10/1999

GROUNDWATER SSTL VALUES

Target Risk (Class A & B) 1.0E-6

Target Risk (Class C) 1.0E-5

Target Hazard Quotient 1.0E+0

☐ MCL exposure limit?

☐ PEL exposure limit?

Calculation Option: 2

SSTL Results For Complete Exposure Pathways ("x" If Complete)

CONSTITUENTS OF CONCERN		Representative Concentration		Groundwater Ingestion			X Groundwater Volatilization to Indoor Air		X Groundwater Volatilization to Outdoor Air		Applicable SSTL	SSTL Exceeded ?	Required CRF
CAS No.	Name	(mg/L)	Residential: (on-site)	Commercial: (on-site)	Regulatory(MCL): (on-site)	Residential: (on-site)	Commercial: (on-site)	Residential (on-site)	Commercial: (on-site)	(mg/L	"■" If yes	Only if "yes" left
71-43-2	Benzene	1.0E+1	NA	NA	NA	3.0E+1	NA	3.7E+0	NA	3.7E+0	☐	<1
100-41-4	Ethylbenzene	2.2E-2	NA	NA	NA	>Sol	NA	>Sol	NA	>Sol	☐	<1
108-88-3	Toluene	1.0E-2	NA	NA	NA	>Sol	NA	>Sol	NA	>Sol	☐	<1
1330-20-7	Xylene (mixed isomers)	1.0E-2	NA	NA	NA	>Sol	NA	>Sol	NA	>Sol	☐	<1

>Sol Indicates risk-based target concentration greater than constituent solubility

Software: GSI RBCA Spreadsheet Version: 1.0.1

Serial: G-311-YSX-926

Site Name: Former Exxon Station 7-0236
Site Location: 6600 East 14th Street

Completed By: Steve M. Zigan
Date Completed: 11/10/1999

SUBSURFACE SOIL SSTL VALUES (> 3 FT BGS)

Target Risk (Class A & B) 1.0E-6
Target Risk (Class C) 1.0E-5
Target Hazard Quotient 1.0E+0

☐ MCL exposure limit?
☐ PEL exposure limit?

Calculation Option: 2

SSTL Results For Complete Exposure Pathways ("x" If Complete)

CONSTITUENTS OF CONCERN		Representative Concentration		Soil Leaching to Groundwater			X Soil Volatilization to Indoor Air		X Soil Volatilization to Outdoor Air		Applicable SSTL	SSTL Exceeded ?	Required CRF
CAS No.	Name	(mg/kg)	Residential: (on-site)	Commercial: (on-site)	Regulatory(MCL): (on-site)	Residential: (on-site)	Commercial: (on-site)	Residential: (on-site)	Commercial: (on-site)	(mg/kg)	"■" If yes	Only If "yes" left
71-43-2	Benzene	6.2E-1	NA	NA	NA	4.2E+0	NA	4.2E+0	NA	4.2E+0	☐	<1
100-41-4	Ethylbenzene	1.3E-1	NA	NA	NA	>Res	NA	>Res	NA	>Res	☐	<1
108-88-3	Toluene	8.7E-2	NA	NA	NA	>Res	NA	>Res	NA	>Res	☐	<1
1330-20-7	Xylene (mixed isomers)	1.3E+0	NA	NA	NA	>Res	NA	>Res	NA	>Res	☐	<1

>Res indicates risk-based target concentration greater than constituent residual saturation value

Software: GSI RBCA Spreadsheet
Version: 1.0.1

Serial: G-311-YSX-926

SCREEN 7.2
SURFACE SOILS
CONCENTRATION
CALCULATOR

UCL Percentile

[redacted]

Analytical Data (Up to 50 Data Points)

	1	2	3	4	5	6	7	8
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Sample Name	[redacted]							
Date Sampled								
BETX								

Calculated Distribution of Data	Default Detection Limit (mg/kg)
#DIV/0!	0.005
#DIV/0!	0.005
#DIV/0!	0.005
#DIV/0!	0.005

SCREEN 7.1
GROUNDWATER CONCENTRATION CALCULATOR

Choose UCL Percentile

95%

Analytical Data (Up to 50 Data Points)

	1	2	3	4	5	6	7	8
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
Well Name	MW2	MW2	MW2	MW2	MW3	MW3	MW3	MW3
Date Sampled	10/1/99	7/30/99	4/28/99	1/25/99	10/1/99	7/30/99	4/28/99	1/25/99
BETX	0.001	0.1	0.042	0.005	< 0.001	0.0005	0.005	0.005
	0.001	0.1	0.0022	0.005	< 0.001	0.0005	0.005	0.005
	0.0025	0.1	0.003	0.006	< 0.001	0.0027	0.005	0.005
	0.001	0.1	0.001	0.0065	< 0.001	0.0005	0.005	0.005

Calculated Distribution of Data	Default Detection Limit (mg/L)
Lognormal	0.002
Lognormal	0.002
Lognormal	0.002
Lognormal	0.005

TABLE 12

Summary of Petroleum Products and VOCs in Grab Groundwater
6600 International Boulevard, Oakland, California

Sample ID	Petroleum Products								VOCs			
	TPH-mo	TPH-d	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Acetone	MEK	Naphthalene	IPB
B-1	ND	98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-2	ND	200	1,300	ND	ND	ND	ND	ND	70	ND	ND	ND
B-3	ND	1,000	1,700	ND	ND	8.7	1.5	18	290	54	2.6	24
B-4	ND	180	890	ND	ND	3.7	1.2	8.2	ND	54	2.6	18
B-5	1,600	1,300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
All results reported in micrograms per liter (ug/L) or parts per billion (ppb)
ND = Analyte not present at or above the method detection limit
TPH-mo = Total petroleum hydrocarbons as motor oil
TPH-d = Total petroleum hydrocarbons as diesel
TPH-g = Total petroleum hydrocarbons as gasoline
MTBE= Methyl tertiary butyl ether
VOCs= Volatile Organic Compounds
MEK = Methyl Ethyl Ketone
IPB = Isopropylbenzene

4.0 FIELD ACTIVITIES

4.1 GEOPHYSICAL INVESTIGATION

On November 11, 1999, Jesse Edmands, Staff Environmental Consultant of Clayton, conducted a geophysical investigation of the subject property. NORCAL Geophysical Consultants performed the fieldwork. The purpose of the investigation was to determine if USTs or other buried material associated with the former onsite gasoline stations remained onsite. Also, the property was surveyed for areas of potential backfill. Geophysical techniques used included vertical magnetic gradient (VMG), terrain conductivity (TC), metal detection (MD), and ground penetrating radar (GPR). The complete geophysical survey report is provided as Appendix C.

Through VMG, six magnetic anomalies or buried metallic objects (Anomaly I through IV) were discovered throughout the subject property. In addition, using MD, two metal objects were located in the vicinity of Anomaly I and V. Clayton further investigated these anomalies through backhoe excavations. One Earth Environmental, Inc. was subcontracted to operate the backhoe equipment. On December 1, 1999, John D. Glover, Supervisor, and Marc R. Mullaney, Project Geologist of Clayton, directed the anomaly excavations. During the excavation work, Anomaly V was actually found to be two objects, which are referred to as V-A and V-B. Details regarding the excavations are summarized as follows:

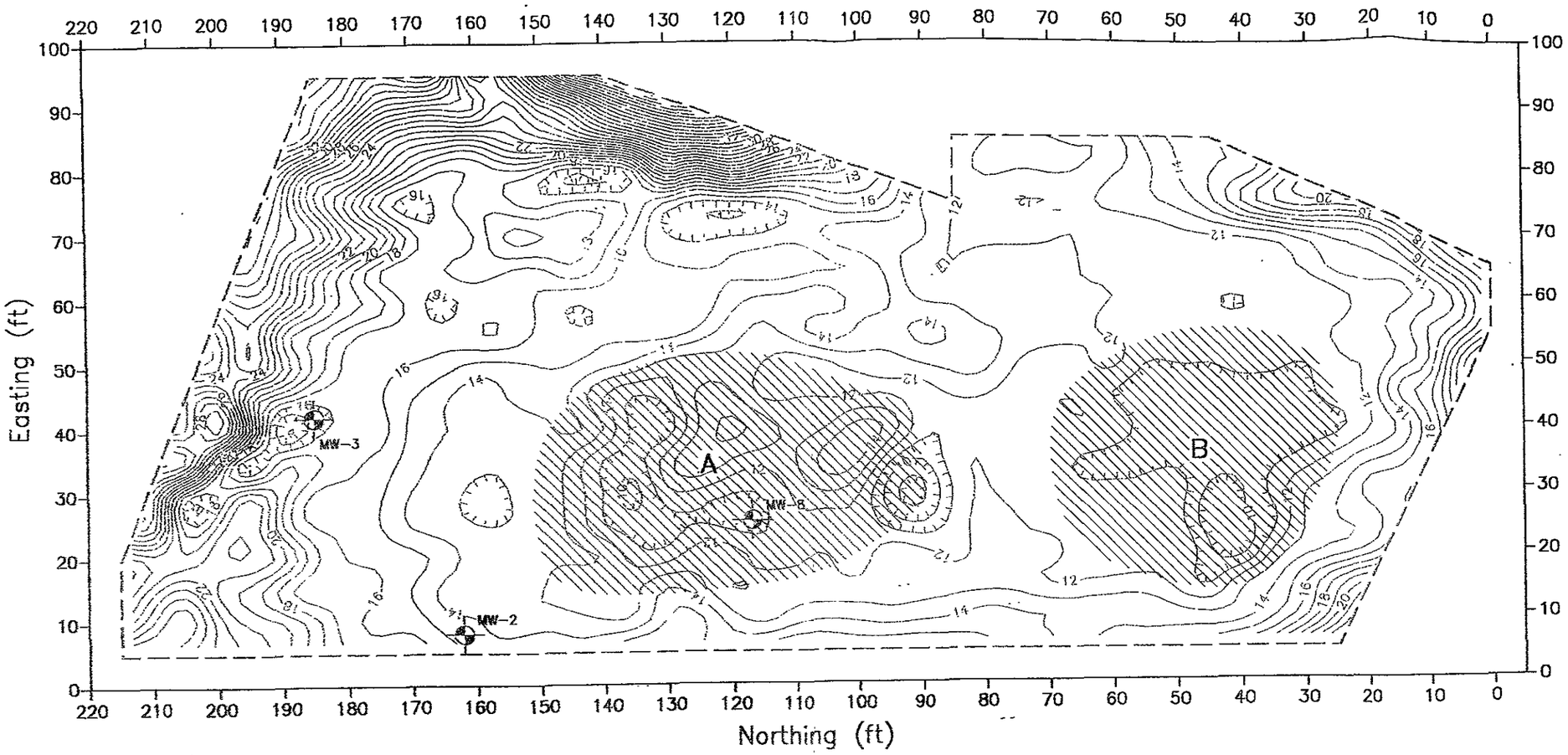
TABLE 11

Anomaly ID	Excavation Limits	Description
I	4' by 4' by 2' deep	An abandoned utility line
II	4' by 4' by 2' deep	Metallic scrap
III	4' by 4' by 2' deep	Pipe coupling or valve
IV	10' by 3' by 4' deep	Power footing/cable tie
V-A	8' by 5' 6' deep	Waste oil UST
V-B	4' by 4' by 2' deep	Metallic scrap
VI	4' by 4' by 2' deep	Metallic scrap

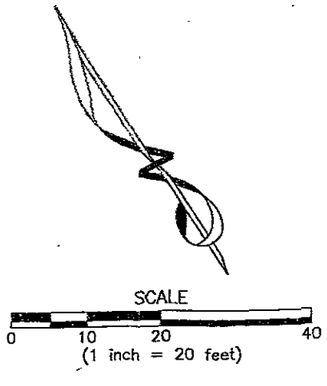
In addition, two areas of low TC (Areas A and B) were discovered, suggesting possible backfilled areas. GPR analysis conducted on the subject property was inconclusive due to the impenetrable nature of the soil to the GPR. The locations of the geophysical anomalies are depicted on Figure 3.

4.2 SUBSURFACE INVESTIGATION

On December 1, 1999, Mr. Mullaney of Clayton conducted a limited subsurface investigation. A total of 14 borings (B-1 through B-14) were advanced on the property in



LEGEND	
— — —	LIMITS OF TERRAIN CONDUCTIVITY INVESTIGATION
—o—	TERRAIN CONDUCTIVITY CONTOUR (CONTOUR INTERVAL = 1 mS/m)
▨	ZONES OF POSSIBLE BACKFILL
⊕	MONITORING WELLS



NORCAL

TERRAIN CONDUCTIVITY CONTOUR MAP 6600 INTERNATIONAL BOULEVARD

LOCATION: OAKLAND, CALIFORNIA

CLIENT: CLAYTON ENVIRONMENTAL CONSULTANTS

NORCAL GEOPHYSICAL CONSULTANTS INC.

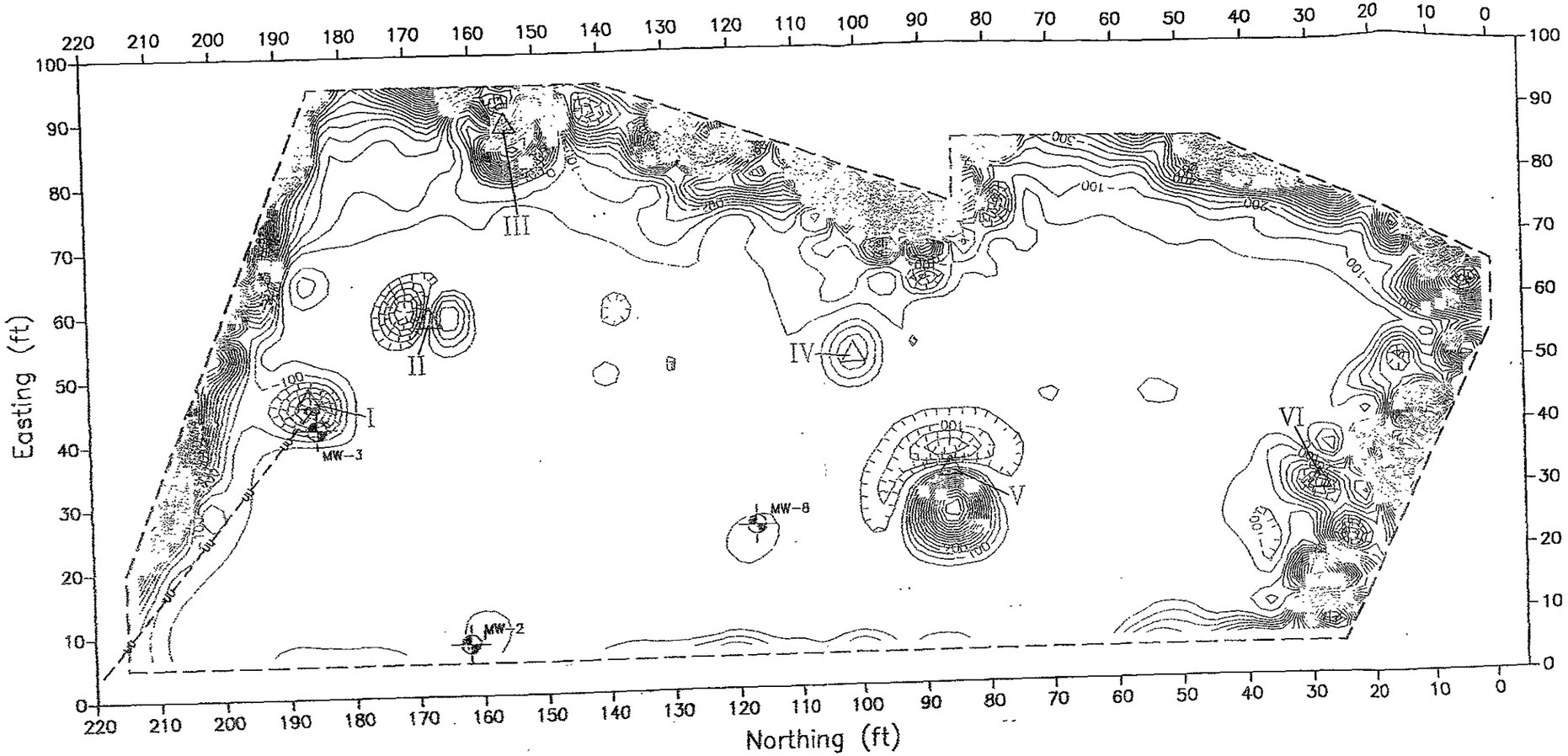
JOB #: 99-304.05

DATE: NOV. 1999

DRAWN BY: C.RANDALL

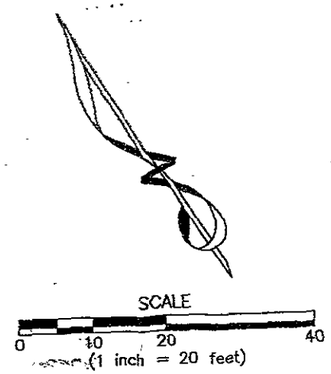
APPROVED BY: DJB

PLATE 8



LEGEND

- - - -	LIMITS OF VERTICAL MAGNETIC GRADIENT INVESTIGATION
~0~	VERTICAL MAGNETIC GRADIENT CONTOUR (CONTOUR INTERVAL = 50 nT/m)
△	SUSPECTED BURIED FERROUS OBJECT
—UU—	UNDIFFERENTIATED UTILITY
⊕	MONITORING WELL



VERTICAL MAGNETIC GRADIENT CONTOUR MAP 6600 INTERNATIONAL BOULEVARD

NORCAL

LOCATION: OAKLAND, CALIFORNIA

CLIENT: CLAYTON ENVIRONMENTAL CONSULTANTS

NORCAL GEOPHYSICAL CONSULTANTS INC.

JOB #: 99-304.05

DRAWN BY: G.RANDALL

APPROVED BY: DJB

DATE: NOV. 1999

PLATE 9