

ERAS

1533 B Street

Environmental, Inc.

Hayward, CA 94541

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4800 Coliseum Way Outline for Presentation

March 3, 2008

- I) Introduction and Purpose
- II) Review of History of Property and AAA/Learner sites – American Construction Company operated asphalt plant at the current AAA and Learner site from at least 1939 to between 1951 and 1961. Petroleum product was shipped by rail car on a rail line that ran along the southwest side of AAA/Learner (along northeast side of 4800) and transferred to the rail line by underground pipelines (LFR, 2007). Between 1961 and 1969 the operation included storage sand blasting and pipe painting. CB uses includes dyes and pigments. Uses of 1,2-DCB includes uses in oils and asphalt.

Source C →

There was no development on 4800 Coliseum until 1962 when warehouse was built (there was therefore at least 23 years of industrial activities before the first development on 4800). The site at 4800 contained a sporting goods warehouse, plaster casting and foundry with no indications of related hazardous materials used since the development.

- III) Review of History of Subsurface Investigation – Subsurface investigations at 4800 since 1991 indicated the presence of tars and solvents on the northeast edge of the Property. Simon, Woodward Clyde and ATC indicated that solvent contamination was likely from the up-gradient adjacent site.

Soil remediation was performed by ERAS in 2000 to dig out one hot spot near ATC-3 (only soil sample above groundwater that contained significant solvents). Concentrations in confirmation samples below and on sides after remediation were below ESLs). Observations of tar seeping in on up-gradient sidewall at same depth as tar described in nearby soil borings by other consultants.

Significant contamination was found at up-gradient sites AAA and Learner and at cross-gradient PG&E that could not have come from 4800. Obvious source was the asphalt plant at AAA, this process known to use chlorinated solvents. Pools of oil were identified in 1988 on Learner property across fence line from 4800 (see attached

photographs). Pipe painting was also conducted in the open yard across fence line from 4800 at Learner from prior to 1961.

IV) Review of Groundwater Gradient – Groundwater monitoring in all seasons between 2002 and 2007 show consistent gradient (within 20-30 degrees from S-SE to S-SW (**see attached maps**)

V) Review of Findings –

a. PG&E, 4930 Coliseum – high concentrations of solvents found in well OW-7, also in OW-5, located down-gradient of AAA. Free-floating oil reported in OW-5, OW-7 and borings and SB-6. Solvents reported in SB-1. AAA and Learner sites appear to have significant histories of dumping, spillage and industrial process using significant amounts of oils and solvents.

A metal pipeline was reported coming from AAA with tar at end and solvents in groundwater (B-11). Concentrations of oil in soil samples along northeast and northwest property lines of PG&E were all above cleanup targets. Note that pipeline reported at PG&E from one of the USTs appears to line up with southeastern sump pipeline at AAA (**see attached maps**).

b. 4800 Coliseum Way – elevated concentrations of petroleum hydrocarbons or tar and oil were reported in all borings along up-gradient Property line, ATC-3, ATC-5, ATC-7, ATC-8, ATC-9 (**see attached logs**). High concentrations of solvents (CB and DCB) were reported in ATC-3 in soil at 3 feet, lower conc. In WCC-1A at 6 feet and in ATC-2 at 4 feet (**see attached map**).

c. High concentrations of solvents were reported in up-gradient borings ATC-3, ATC-7, ATC-8, ATC-9, WCC-1A. High concentration bull's-eye near end of former sump on Learner property (**see attached map**).

VI) Discussion of Data Gaps and Questions

a. Much of the soil data, logs and excavation observations indicate a source to the northeast. No known uses of the chemicals at 4800 Coliseum and the solvent data in soil and in groundwater in particular point to an up-gradient offsite source. Dave Siegel discussed this contamination with a representative of the AAA owner in 2002.

b. Why was soil excavation and removal performed in September 2003 at the Learner site before it was listed as a SLIC case? See **attached** letter dated December 21, 2005 asking about disposition of excavated soil. As stated above, the owner of AAA knew in 2002

that there was oil and tar and solvents associated with the former asphalt plant or other uses of AAA/Learner.

- c. See attached **soil map** for lack of confirmation sampling in the excavated areas at AAA/Learner. Pertaining to the same map, there apparently was limited confirmation sampling along the northwestern underground supply line and near sump. This is important because this appears to be the source of solvents in groundwater, based on isoconcentration contouring by LFR.
- d. See attached **groundwater map** indicating that there apparently were no groundwater samples collected in the excavated area at the Learner site. Only two groundwater samples were collected on the entire AAA and Learner sites. In comparison, note that there are 8 groundwater samples that were collected in a limited area on the 4800 Coliseum site.
- e. CB and DCB were found in a groundwater sample beneath Small Tank Pit, see attached **groundwater map**. This data was apparently not used in contouring. There also was apparently no groundwater sampling performed down-gradient of the former underground product tanks at AAA/ Learner.
- f. The consultant for PG&E indicated in an e-mail to the County that there was still a source of solvent contamination at 4800 Coliseum Way. However, any remaining contamination appears to have migrated from off-site. The excavation samples collected by ERAS indicated no concentrations of solvents above the ESLs. Are there any other areas of known soil contamination that have been reported?

CLARK CO. MUD VOLCANO, CALIFORNIA

SJ

Look at the left
end of train of oil cars with



Look at the left
end of train of oil cars with



Estimate cost you will run me down
1/25/58.

Another
part of Fawcett oil



Another
part of Fawcett oil, construction cost



\$1,000,000.00 AMERICAN
EXCHANGE CO.

\$1,700,000.00

Conway River, Alaska, 1960's, oil slicks.
1/25/68

Laf

first net to bottom
oil soaked oil, most of floating oil



Exotic

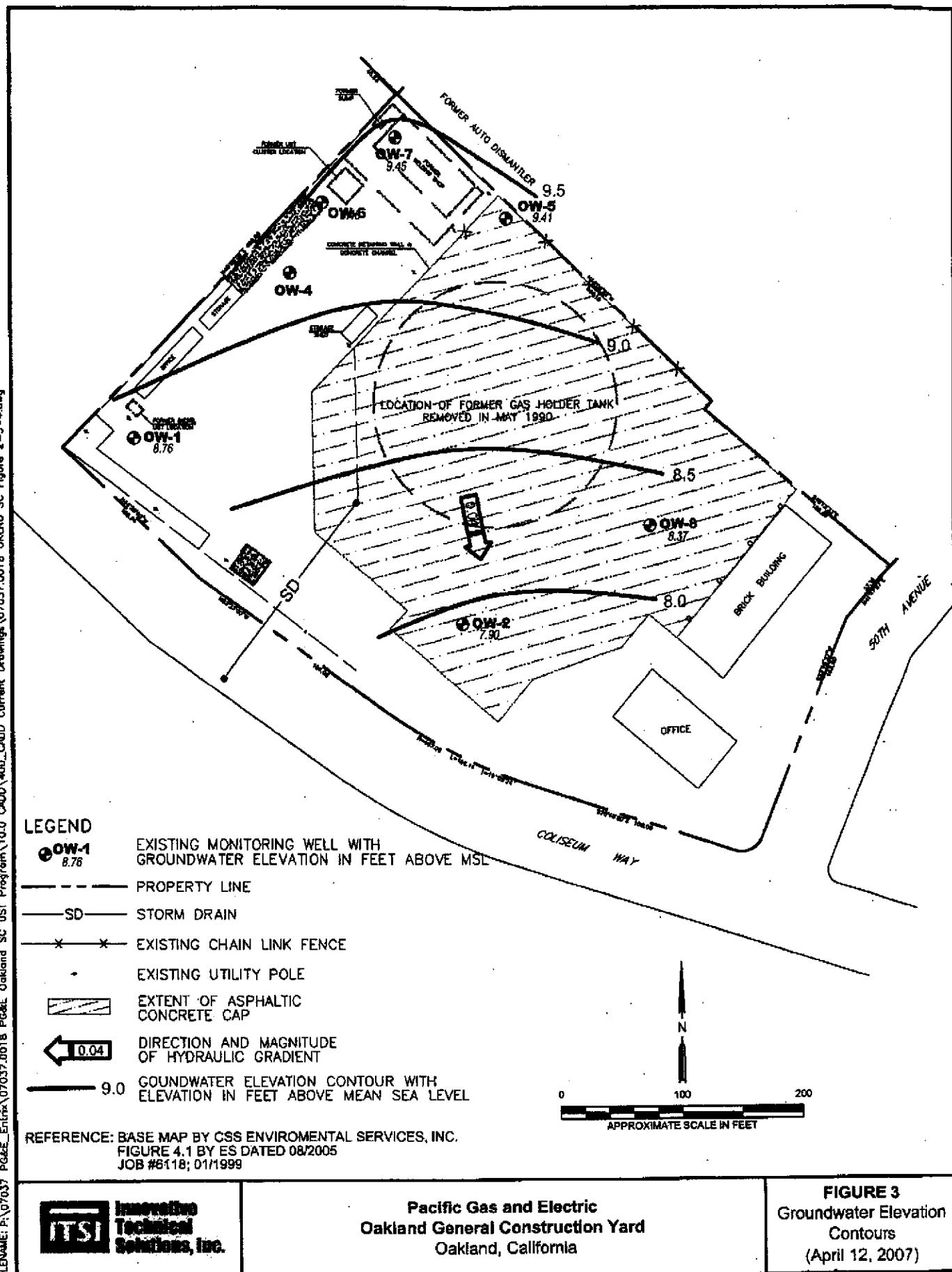


Figure 2-3-4.dwg

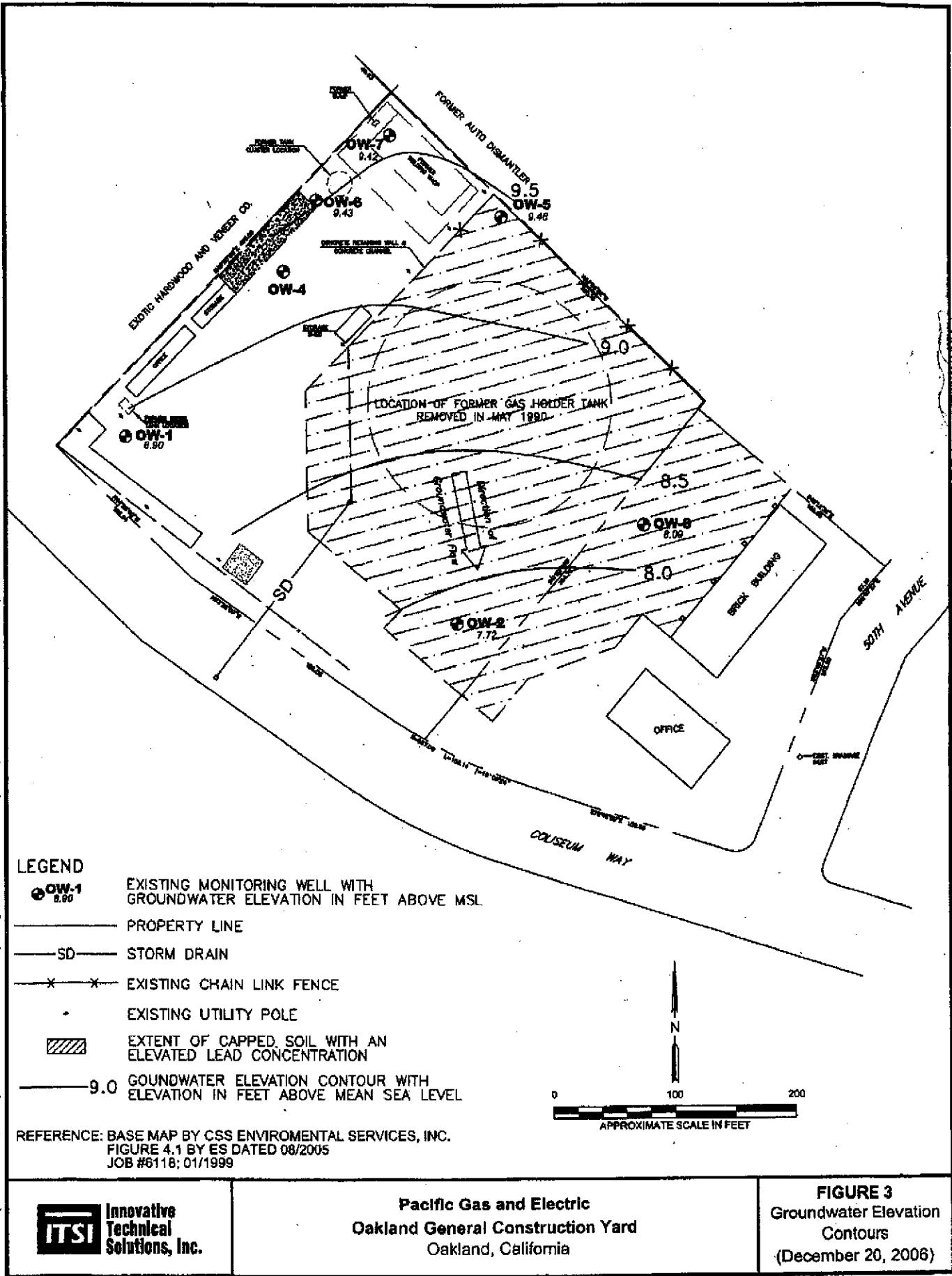


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Solutions, Inc.**

**Pacific Gas and Electric
Oakland General Construction Yard
Oakland, California**

FIGURE 3
Groundwater Elevation
Contours
(April 12, 2007)

27 Oct 06

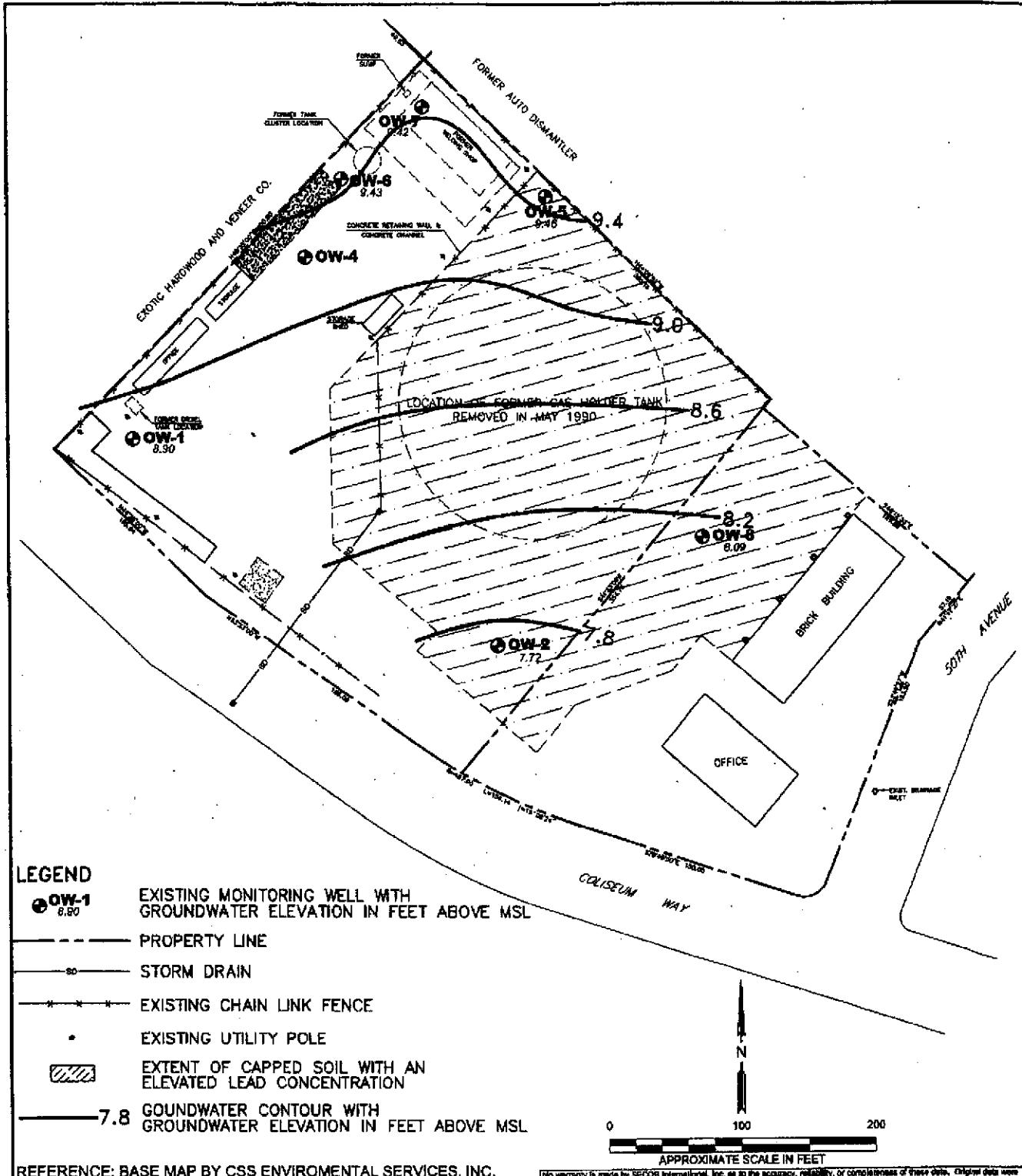


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Oakland, California

12/20/06

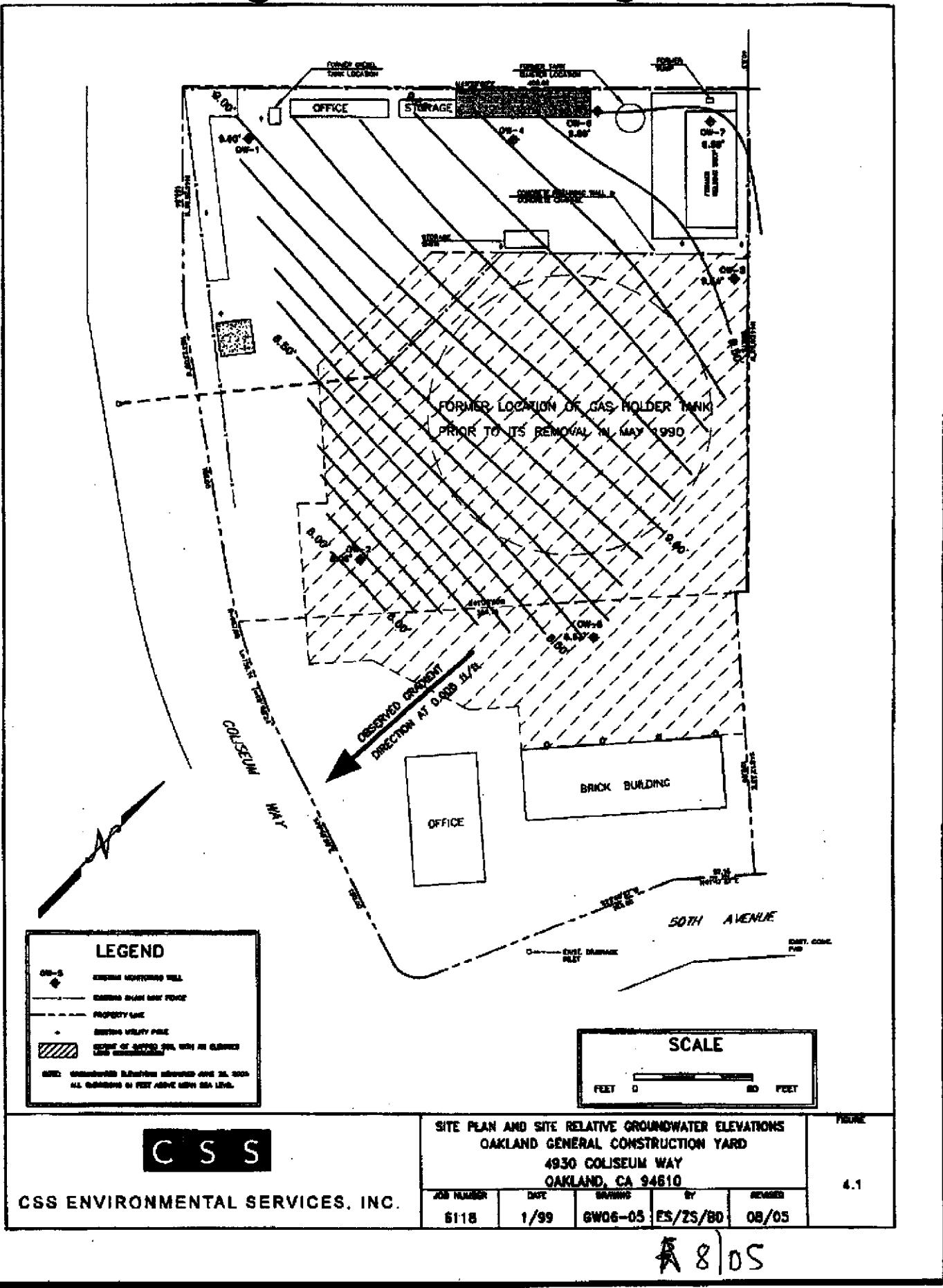
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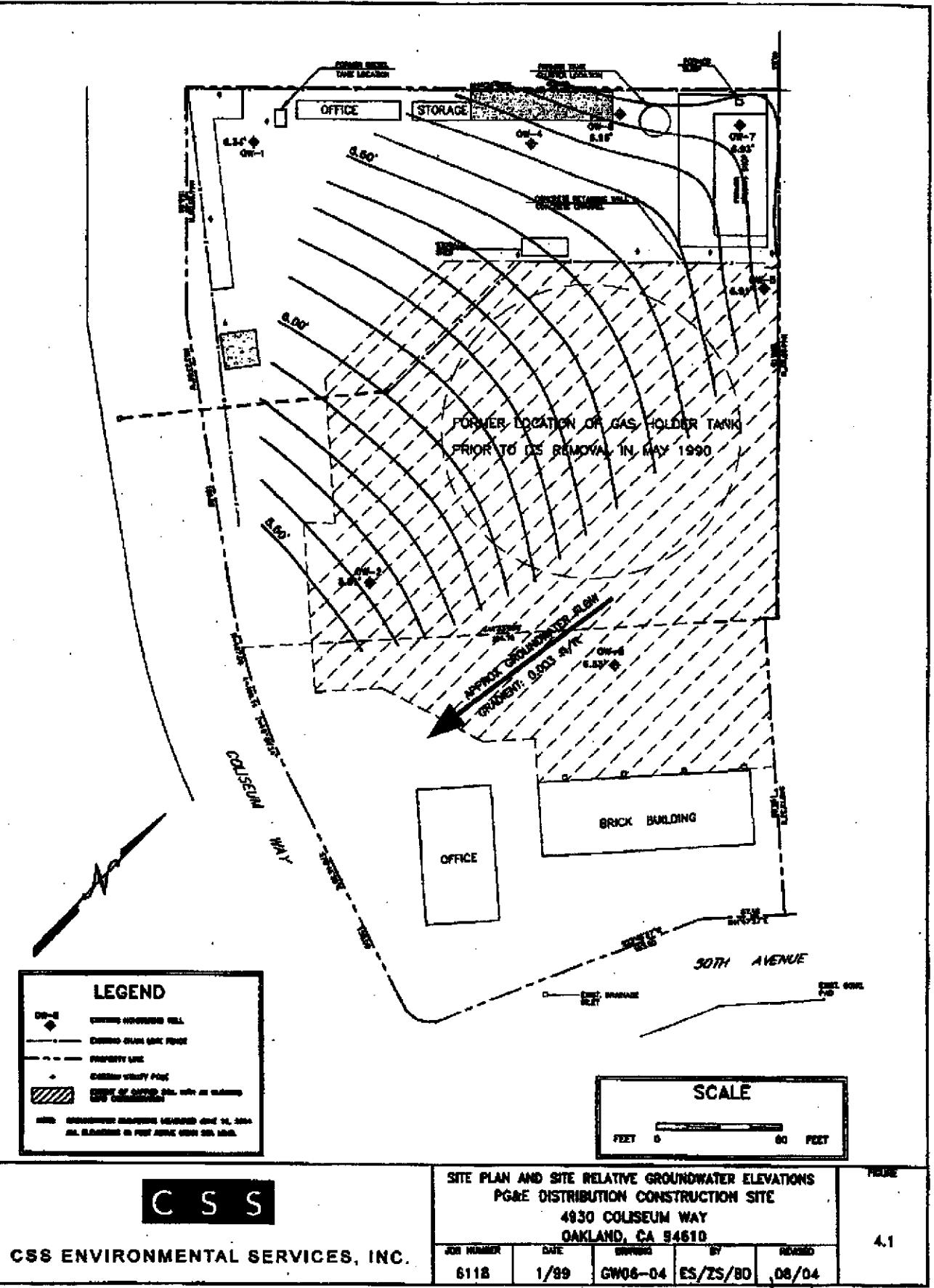


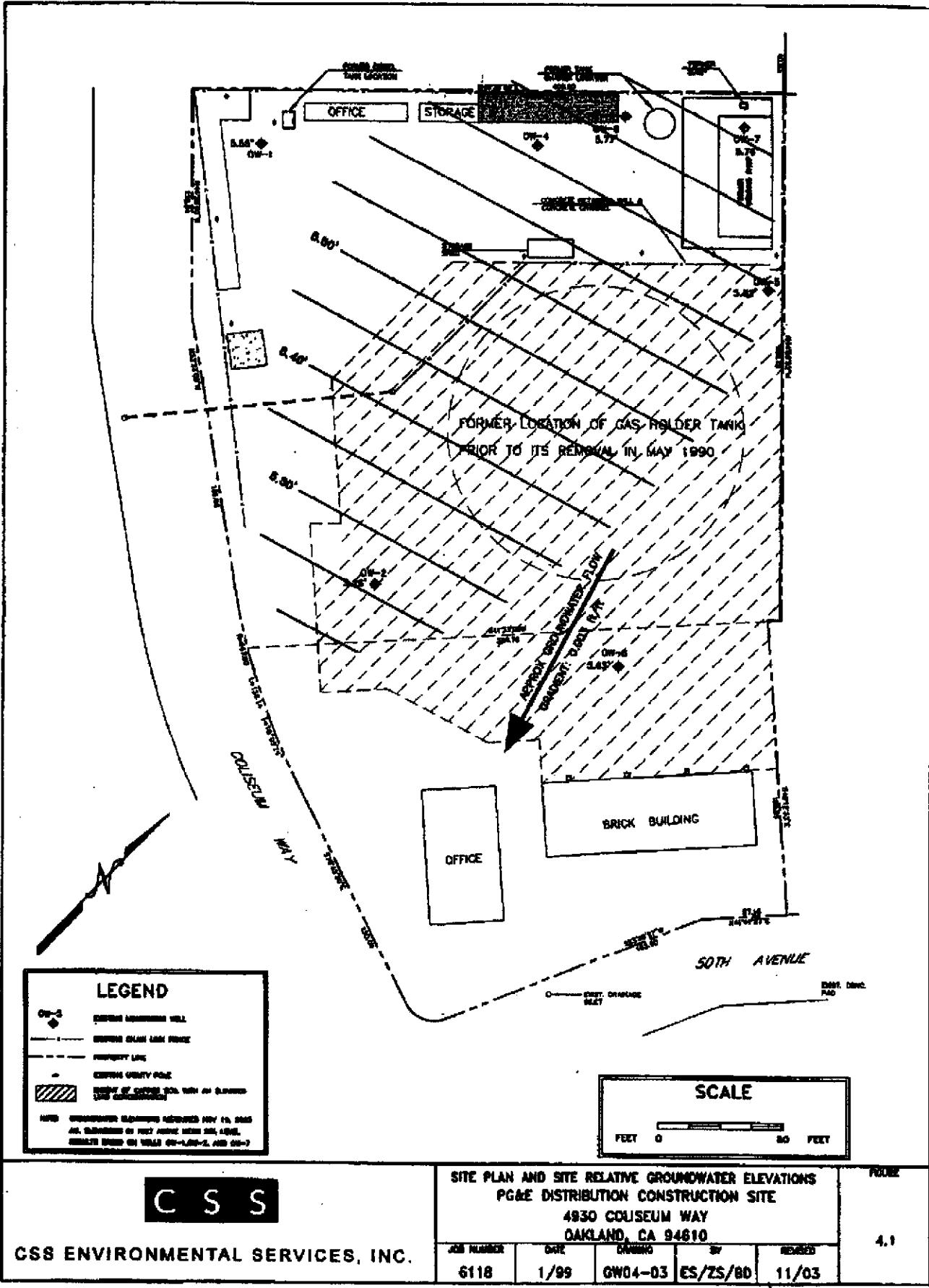
REFERENCE: BASE MAP BY CSS ENVIRONMENTAL SERVICES, INC.
FIGURE 4.1 BY ES DATED 08/2005
JOB #611B; 01/1999

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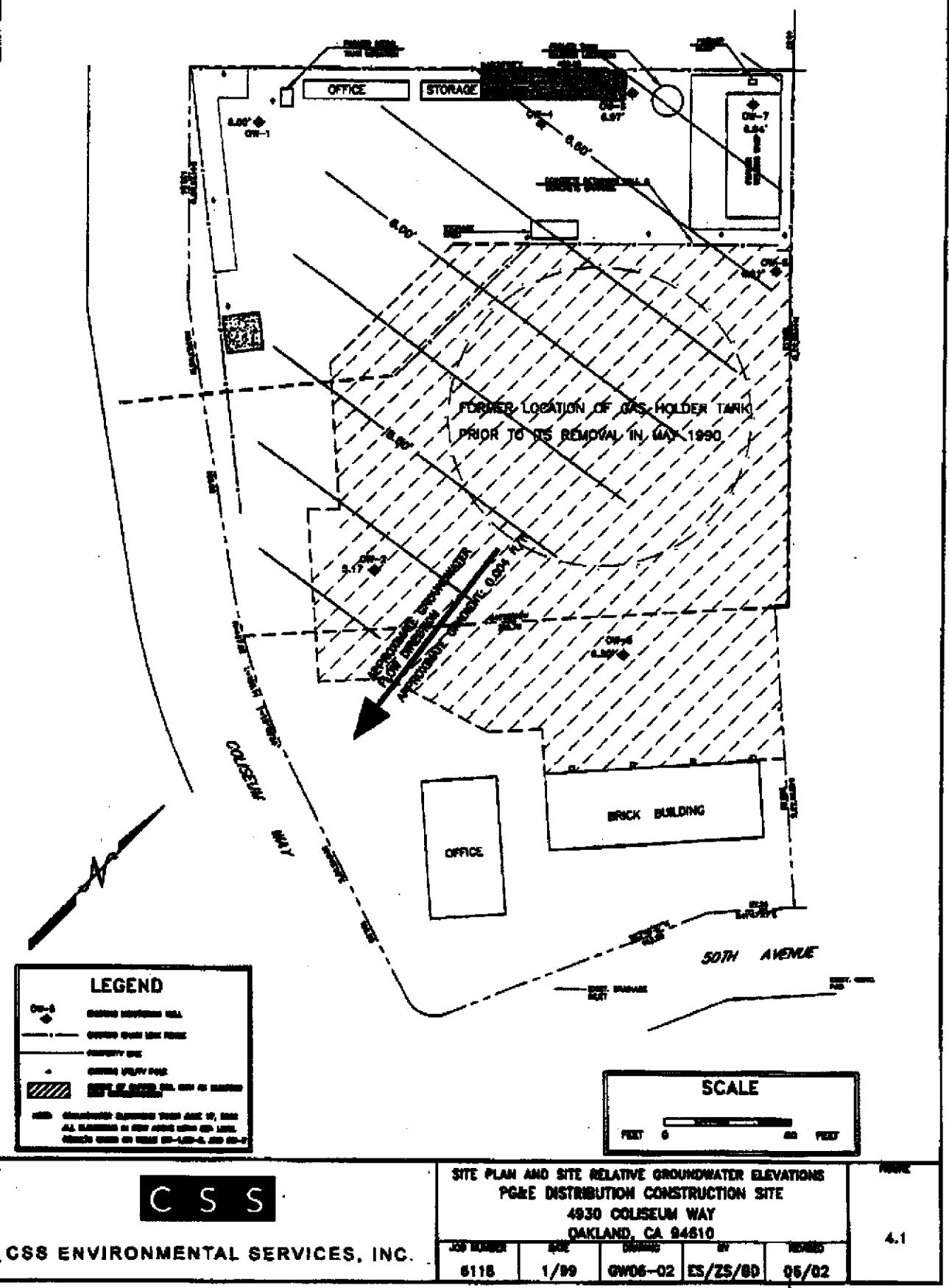
| | | | |
|---|--|--|---|
|  SECOR 57 Lafayette Circle, 2nd Floor Lafayette, California PHONE: (925) 299-9300 FAX: (925) 299-8302 | FOR: PG&E OAKLAND GENERAL SERVICE YARD 4930 COLISEUM WAY OAKLAND, CALIFORNIA | POTENIOMETRIC SURFACE MAP DECEMBER 2005 | DRAWING 3 |
| | JOB NUMBER: 05OT.50265.00.0003 | DRAWN BY: RRR | CHECKED BY: AM APPROVED BY: AM/GH DATE: 02/08/06 |



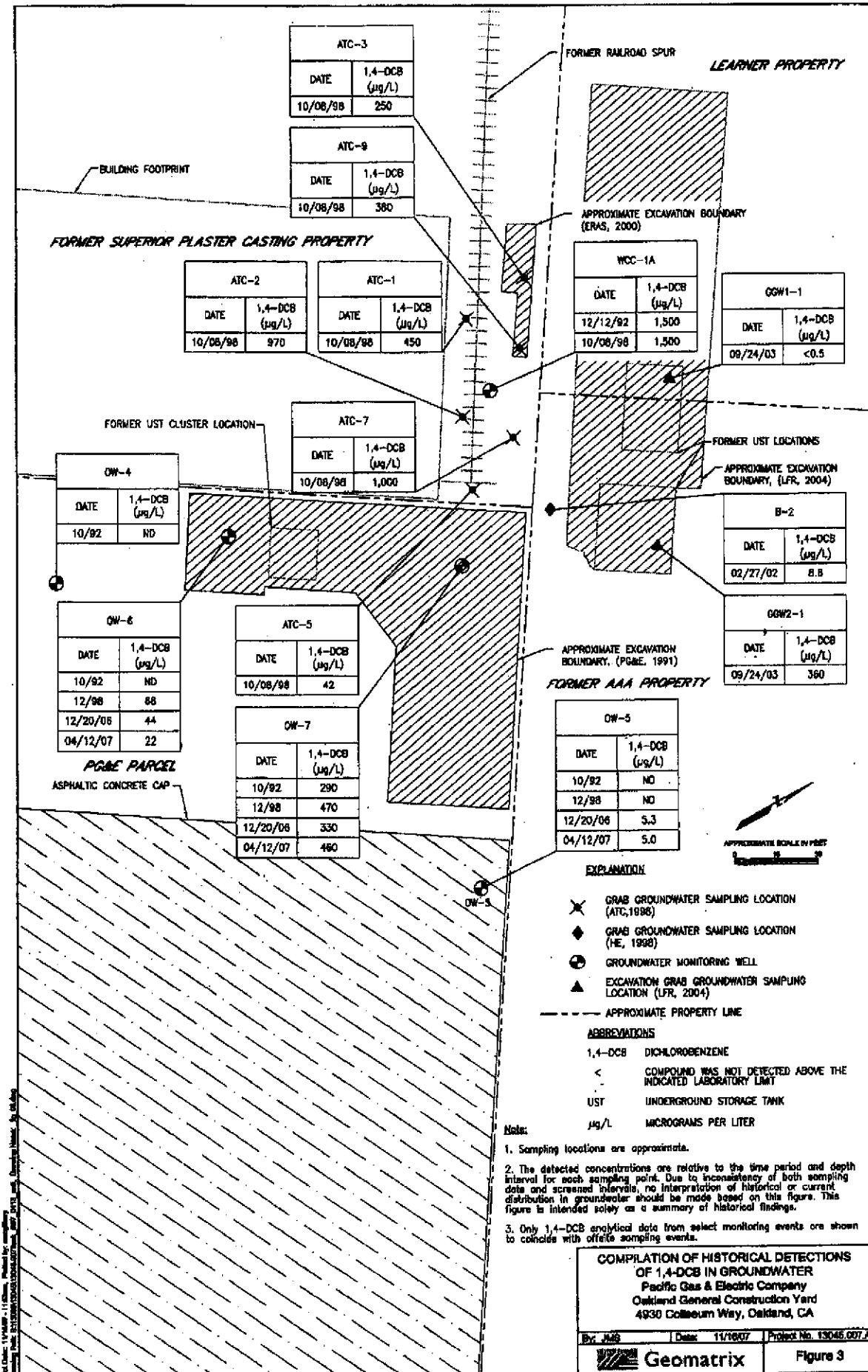


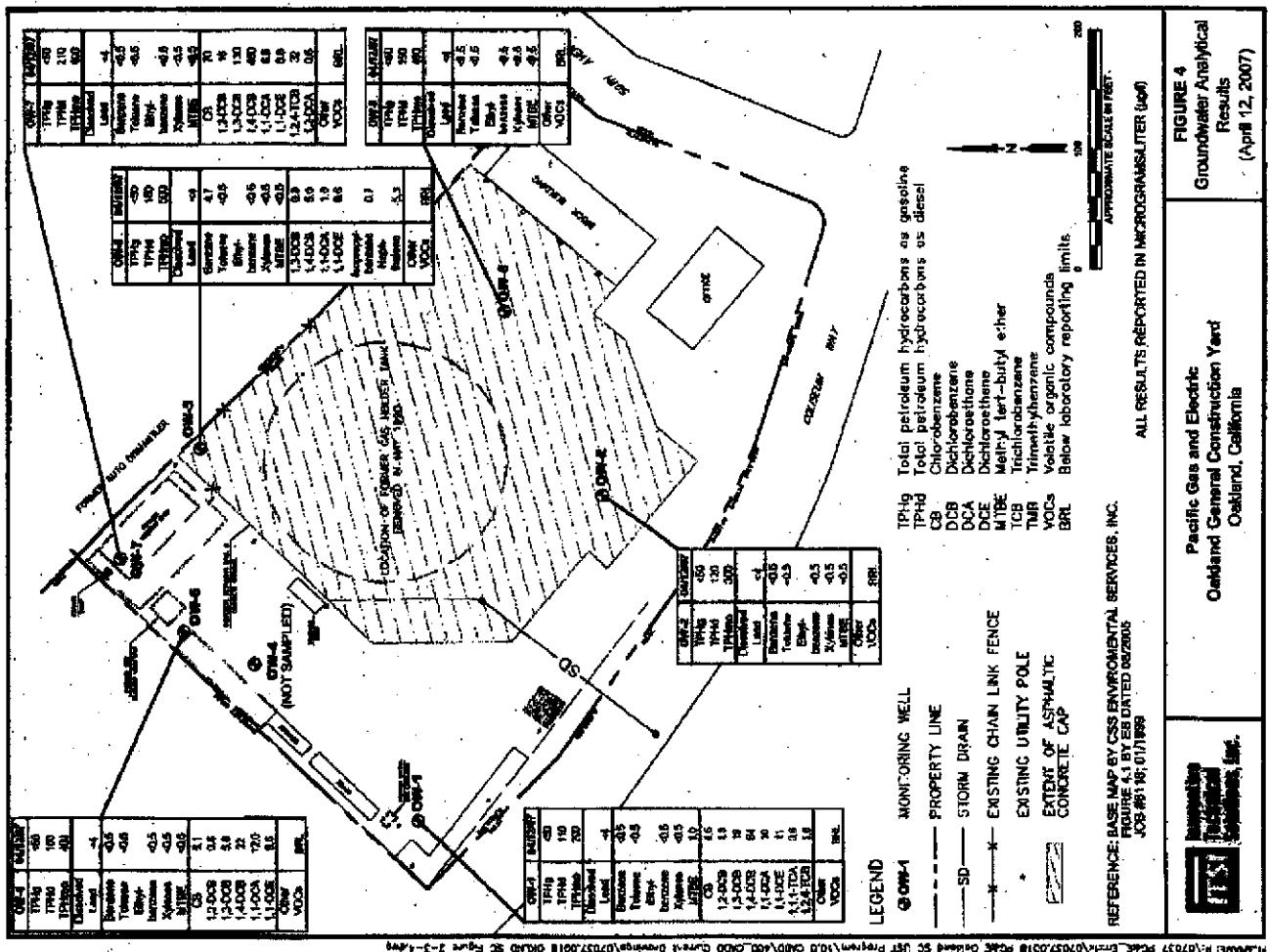


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REFERENCE: BASE MAP BY CSS ENVIRONMENTAL SERVICES, INC.
FIGURE 4-1 BY EB DATED 08/2005
JOB #116-01798

Aqua, 1991

AQUA RESOURCES, INC.

 BORING LOG

LOCATION & NOTES

| LOCATION Oakland, CA | JOB NAME PG&E | JOB NO. 90262-1 |
|-------------------------------------|---------------------------------|---|
| DRILLING COMPANY Hewitt Drilling | ROUTINE Anibal | ROUTINE NO. OH-5 |
| DRILLER'S NAME GRIFFIN, ROB | DATE DRILLED 7/20/91 | TIME DRILLED 1 or 1 AM |
| CHESSY [] HOLLOW AUGER | TYPE [] HOLLOW TUBE | TIME [] |
| SWITCHING CYCLE [] 2.5' | SWITCHING CYCLE [] 1.5' | START TIME |
| DRILL SPEED [] 100 | DRILL SPEED [] 100 | FINISH TIME |
| WATER LEVEL, FSTL [] | WATER LEVEL, FSTL [] | TIME AND DATE 8:30 AM 10:45 AM 4/16/91 |
| TIME [] | TIME [] | [] |
| DATE [] | DATE [] | [] |
| GASOLINE CONSUMED GAL [] | GASOLINE CONSUMED GAL [] | WATER DRILLED FSTL [] |

| DEPTH FEET | Sample No Level | | ELEVATION FEET | WATER DRILLED FSTL |
|---------------|-------------------|---|-------------------|-----------------------|
| | DEPTHS IN FEET | DESCRIPTION OF SAMPLE | | |
| 0 | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | Silty clay, very dark brown to black, moist, soft, slightly plastic, some gravel up to 1/2" diam. (CL) | | |
| 4 | | | | |
| 5 | | | | |
| 6 | | Silty clay, dark gray, moist, medium stiff, slightly plastic, some decomposed rock & gravel up to 1" diam. (CL) | | |
| 7 | | | | |
| 8 | | Sandy gravelly clay varying to gravelly sandy clay, dark gray mottled with brown & white from decomposed rock, moist, medium stiff to stiff, slightly plastic, some gravel up to 1" diam. Liquid brown oil at 6' (CL) | | |
| 9 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | Clayey sand, with interbedded clayey gravel, medium brown, wet, loose, some gravel up to 1" diam. (SC) | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | Sandy clay, interbedded with silty clay, medium brown with black and reddish brown mottling, saturated, medium stiff to stiff; slightly plastic, small amount of gravel up to 1/4" diam. (CL) | | |
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AQUA RESOURCES, INC.

BORING LOG

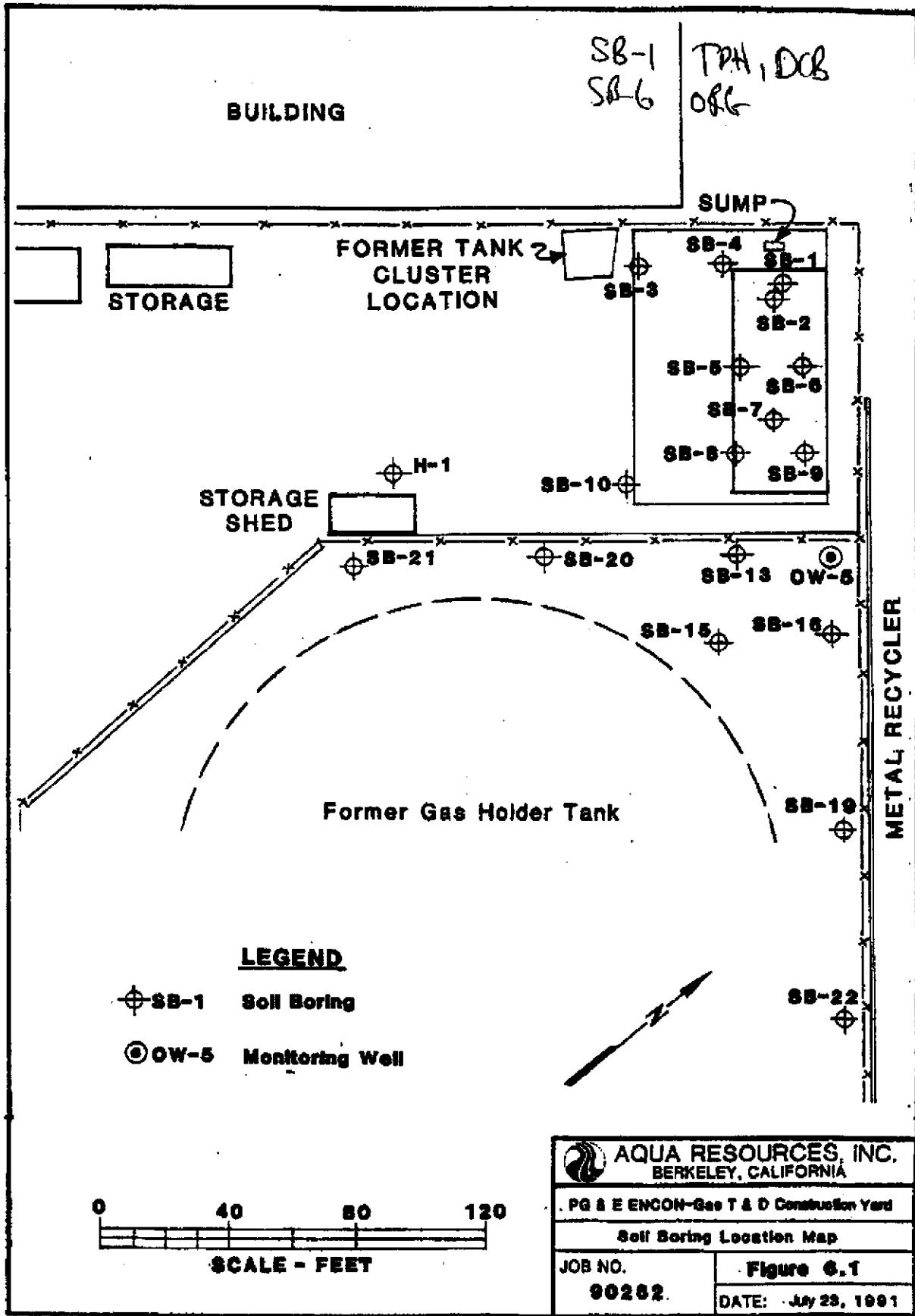
LOCATION & NOTES

DATUM: [] Mean Sea Level [] Datum OW-2

| LOCATION | JOB NAME | JOB NO |
|--------------------|---|---|
| Oakland | PGGE | 90262-2 |
| DRILLING COMPANY | ExcelTech/Resana | BORING NO. |
| DRILLER'S NAME | Don Jenkins | OW-2 |
| DRILLING | [] Solid Flight Auger | SWIMMER |
| 8" | [] Hollow Auger [] Rotary Wash | OF 2 |
| SHANKED TYPE: | [] 3.8" ID Spade Shank [] 3.8" ID Shelby Tube [] BPT | |
| DRIVE WEIGHT: | 140 LB | IN. STEADY PINDIT |
| WATER LEVEL (Ft.): | 13.5 | TIME AM TIME PM |
| TIME | 10:00am | 9:55AM 1 PM |
| DATE | 12/19/91 | DATE |
| CASING DIA (in.) | 17.5 | 12/19/91 |
| ELEVATION | 4.76' MSL | FIELD ENGINEER: N. Peterson / A. Stessman |

| SLOPES PER HALF FOOT | ELONG. | MOISTURE CONTENT % | DRY UNIT WEIGHT (lb/ft³) | DEPTH IN FEET | SUSPENSION UNIT | SURFACE CONDITIONS |
|----------------------|--------|--------------------|--------------------------|---------------|-----------------|---|
| | | | | 0 | | Graded surface of aggregate to base rock, nearly at level - since wall installation the surface has been paved with AC. |
| | | | | 1 | | |
| | | | | 2 | | |
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| | | | | 9 | | |
| 20 | | | | | | Gravel backfill material. |
| 12 | | | | | | |
| 11 | 23 | | | SP/SC | | Gravelly sand with minor silt and clay, greyish green (SG4/2), medium dense, wet, fine to coarse grained sand, poorly sorted, subangular gravel. Note tarry product visible. No OVM, slight hydrocarbon odor. |
| | | | | 10 | | |

Aug. 1992



 AQUA RESOURCES, INC.
BERKELEY, CALIFORNIA

PG & E ENCON-Gas T & D Construction Yard

Soil Boring Location Map

| | |
|---------|---------------------|
| JOB NO. | Figure 6.1 |
| 90262 | DATE: July 23, 1991 |

AQUA RESOURCES, INC.

BORING LOG

CAUTION & NOTES

| | | |
|-------------------------------|------------------|-------------------|
| LOCATION Oakland, CA | JOB NAME PC&E | JOB NO 90262-1 |
| BORING COMPANY Hew Dilling | | BORED BY SB-6 |
| OPERATOR'S NAME Phil | | DRILLER 1 |
| DRILLER'S ID# 00000000 | | TYPE 1 |
| CME45 | (1) Hollow Auger | SHALLOW WASH |
| BORE LENGTH (X) 5.8' | 10' 5.8" | TO TOP 11' 1" FT |
| DRILL INFECTION | CL | START |
| WATER LEVEL, FT MSL | NA | END |
| TIME | | THRU TIME |
| DATE | | DATE |
| GASHING PER MIT. HOLLOW | | 5/23/91 |
| ELEVATION | FT DE | FIELD ENGINEER |

| STATION SAC. FT | DEPT. FT | MOISTURE CONDIT. | DEPT. SAC. FT | DEPT. FT | SAMPLE NO. | SURFACE CONDITIONS |
|--------------------|-------------|---------------------|------------------|-------------|---------------|---|
| | | | | 0 | | concrete |
| | | | | 1 | | Concrete, 5" thick |
| | | | | 2 | | Sand, fine, brown, dry, loose (SP) |
| | | | | 3 | | Driller could not push sampler in. |
| | | | | 4 | | Piece of metal (4" long, 2" wide) came up on augers |
| | | | | 5 | 1 | Gravelly sand, black, moist, loose to medium dense, gravel up to 1" diam. |
| | | | | 6 | | Contained viscous black oil and aged oil (SW) |
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Table 6.1. Petroleum Hydrocarbons in Soil, In mg/kg

| Sample ID | Depth [feet] | Oil and Grease | TPH | TEH Diesel | TVH Gasoline |
|-----------|---------------------|-------------------|--------|---------------|-----------------|
| SB-1-1b | 4.0 | | 32,000 | 8,900 | |
| SB-1-2 | 5.0-5.5 | | 11,000 | 2,100 (a) | |
| SB-1-3 | 10.0-10.5 | | 11 | < 2.5 | |
| SB-2-1 | 4.0-4.5 | | 47,000 | 1,800 (b) | |
| SB-2-2 | 8.0-8.5 | | 8 | < 2.5 | |
| SB-4-1 | 5.75-6.25 | | 14,000 | | |
| SB-4-2 | 7.25-7.75 | | 5,800 | | |
| SB-4-3 | 8.0-8.5 | | 6,800 | | |
| SB-5-1 | 2.75-3.25 | 9,200 | | | |
| SB-5-2 | 5.0-5.5 | 3,500 | | | |
| SB-5-3 | 8.0-8.5 | <50 | | | |
| SB-6-1 | 3.0-3.5 | 13,000 | | 1,700 | |
| SB-6-2 | 4.5-5.0 | 3,600 | | | |
| SB-6-3 | 7.5-8.0 | 2,400 | | | |
| SB-6-4 | 9.0-9.5 | <50 | | | |
| SB-7-1 | 0.5-1.0 | 96 | | | |
| SB-7-1a | 1.0-1.5 (disturbed) | 3,800 | | | |
| SB-7-2 | 6.0-6.5 | <50 | | | |
| SB-7-3 | 8.0-8.5 | <50 | | | |
| SB-8-1 | 0.0-0.5 | <50 | | | |
| SB-8-2 | 3.0-3.5 | 2,700 | | 47 | |
| SB-8-3 | 5.0-5.5 | <50 | | | |
| SB-8-4 | 8.0-8.5 | <50 | | | |
| SB-9-1 | 1.0-1.5 | 2,100 | | 210 | |
| SB-9-2 | 5.0-5.5 | 2,400 | | | |
| SB-9-3 | 7.0-7.5 | <50 | | | |
| SB-10-1 | 2.5-3.0 | 770 | | | |
| SB-10-2 | 5.0-5.5 | 58 | | | |
| SB-10-3 | 8.0-8.5 | <50 | | | |

(Continued ->)

Notes:

- 1) (a) = Sample contains a hydrocarbon fuel of approximately 3700 mg/kg, including 2149 mg/kg of diesel fuel
- 2) (b) = Sample contains a hydrocarbon fuel of approximately 2000 mg/kg, including 1571 mg/kg of diesel fuel
- 3) Blank = Not Analyzed
- 4) < = Not Detected at or above Reporting Limit
- 5) TPH = Total Petroleum Hydrocarbons (EPA method 410.1)
- 6) TEH-Diesel = Total Extractable Petroleum Hydrocarbons as Diesel (EPA method 8015 mod./3550)
- 7) TVH-Gasoline = Volatile Hydrocarbons as Gasoline (EPA method 8015 mod./3550)
- 8) Oil and Grease = Hydrocarbon Oil and Grease (SMWW 17.5520EF)

Table 6.1. Petroleum Hydrocarbons in Soil, in mg/kg (continued)

| Sample ID | Depth (feet) | Oil and Grease | TPH | TEH- Diesel | TVH- Gasoline |
|-----------|-----------------|-------------------|-----|----------------|------------------|
| SB-13-1 | 2.0-2.5 | 78 | | | |
| SB-13-2 | 5.0-5.5 | 20 | | | |
| SB-13-3 | 7.0-7.5 | 18 | | | |
| SB-15-1 | 2.0-2.5 | 2,300 | | | |
| SB-15-2 | 4.0-4.5 | 30 | | | |
| SB-15-3 | 7.0-7.5 | 18 | | | |
| SB-16-1 | 2.0-2.5 | <5.0 | | | |
| SB-16-2 | 4.0-4.5 | 8 | | | |
| SB-16-3 | 7.0-7.5 | 110 | | 510 | |
| SB-19-1 | ~2.0 (cutting) | 66 | | | |
| SB-19-2 | 5.0-5.5 | 6 | | | |
| SB-19-3 | 7.0-7.5 | 22 | | | |
| SB-20-1 | 2.5-3.0 | 82 | | | |
| SB-20-2 | 4.0-4.5 | 120 | | 66 | |
| SB-20-3 | 7.0-7.5 | 34 | | | |
| SB-21-1 | 2.0-2.5 | 24 | | | |
| SB-21-2 | 5.0-5.5 | < 50 | | < 1.0 | |
| SB-21-3 | 7.0-7.5 | < 50 | | < 1.0 | |
| SB-22-1 | 3.75-4.25 | 28 | | | |
| SB-22-2 | 5.0-5.5 | < 50 | | < 1.0 | |
| SB-22-3 | 7.0-7.5 | < 50 | | < 1.0 | |
| OW-5-5 | 2.5-3.0 | | 450 | | |
| OW-5-9 | 4.5-5.0 | | 600 | < 50 (c) | |
| OW-5-12 | 6.0-6.5 | | 75 | | 2 |

Notes:

- 1) (c) = Sample contains a hydrocarbon fuel of approximately 3750 mg/kg, which does not match diesel fuel
- 2) Blank = Not Analyzed
- 3) < = Not Detected at or above Reporting Limit
- 4) TPH = Total Petroleum Hydrocarbons (EPA method 418.1)
- 5) TEH-Diesel = Total Extractable Petroleum Hydrocarbons as Diesel (EPA method 8015 mod./3550)
- 6) TVH-Gasoline = Volatile Hydrocarbons as Gasoline (EPA method 8015 mod./3550)
- 7) Oil and Grease = Hydrocarbon Oil and Grease (SMWW 17:5520EF)

Table 6.2. Volatile Organic Compounds in Soil, in ug/kg

| | Sample ID -> Depth [feet] -> | H-1 0.0-0.5 | SB-1-1 4.0 | SB-1-2 5.0-5.5 | SB-1-3 10.0-10. | SB-2-1 4.0-4.5 | SB-2-2 8.0-8.5 | SB-6-1 3.0-3.5 | SB-8-2 3.0-3.5 | SB-8-1 1.0-1.5 |
|---------------------------|---------------------------------|----------------|---------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| PURGEABLE HALOCARBONS | MDL | (x1) | (x5) | (x5) | (x1) | (x5) | (x5) | (x2) | (x1) | (x1) |
| Dichlorodifluoromethane | 5 | | ND | ND | ND | ND | ND | ND | - | - |
| Chloromethane | 5 | <10 | ND | ND | ND | ND | ND | <10 | <10 | <10 |
| Vinyl chloride | 5 | <10 | ND | ND | ND | ND | ND | <10 | <10 | <10 |
| Bromomethane | 5 | <10 | ND | ND | ND | ND | ND | <10 | <10 | <10 |
| Chloroethane | 5 | <10 | ND | ND | ND | ND | ND | <10 | <10 | <10 |
| Trichlorofluoromethane | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dichloromethane | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Freon 113 | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon Tetrachloride | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,3-Dichloropropene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| cis-1,3-Dichloropropene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibromochloromethane | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Chloroethylvinylether | 10 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chlorobenzene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromoform | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,3-Trichloropropane | 44 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Chlorotoluene | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | 5 | ND | ND | ND | 19 | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 5 | ND | ND | ND | 20 | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| PURGEABLE AROMATICS | MDL | (x1) | (x5) | (x5) | (x1) | (x5) | (x1) | (x2) | (x1) | (x1) |
| Benzene | 5 | ND | ND | ND | ND | ND | ND | 16 | ND | ND |
| Toluene | 5 | 30 | ND | ND | ND | ND | ND | 120 | ND | ND |
| Chlorobenzene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| p-&m-xylene | 5 | ND | 45 | ND | ND | 30 | ND | 220 | 45 | ND |
| O-xylene | 10 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Total Xylenes | 5 | ND | 25 | ND | ND | ND | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | 5 | ND | ND | ND | 13 | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 5 | ND | ND | ND | 14 | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND |

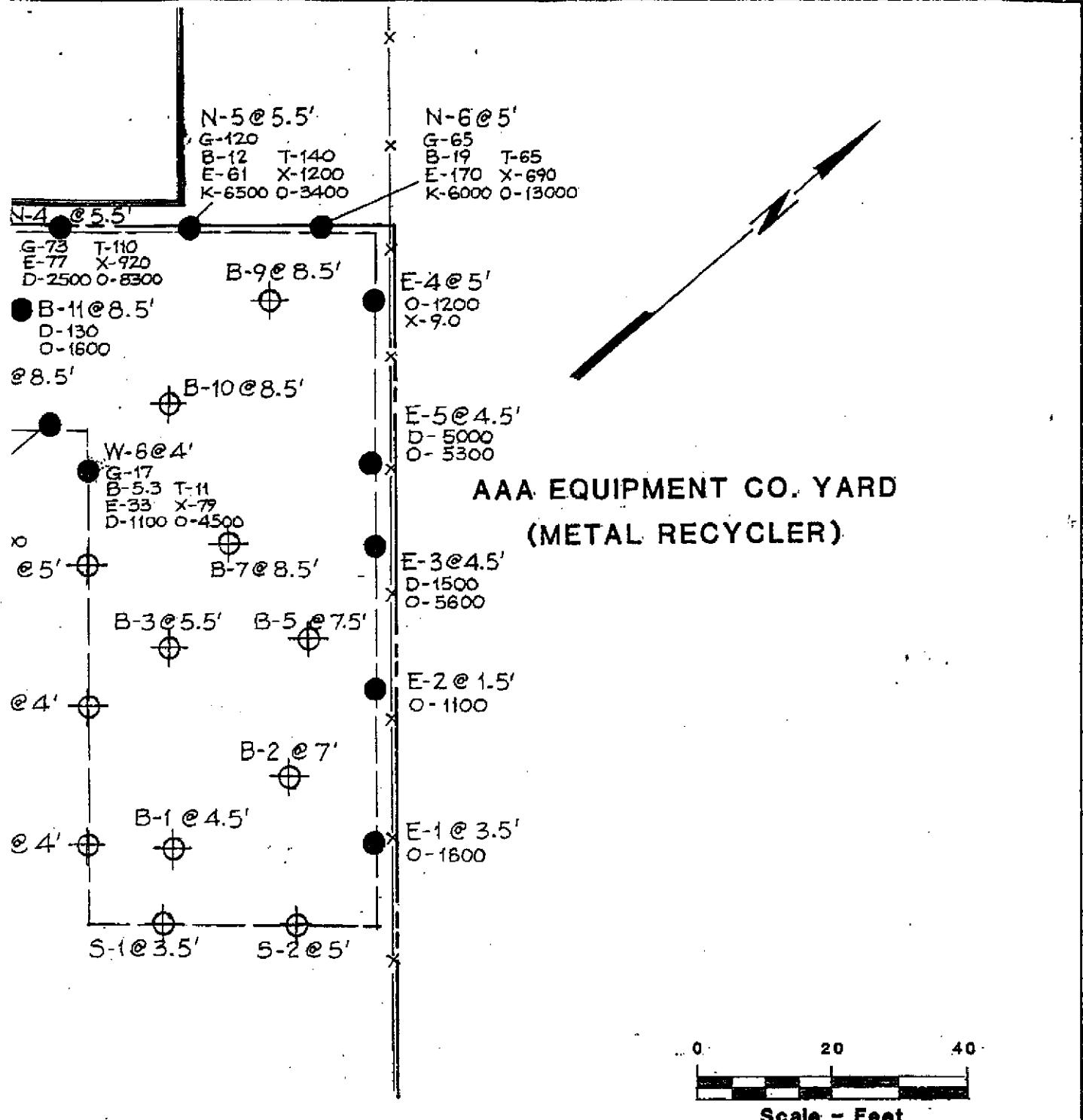
(continued ->)

Table 6.2. Volatile Organic Compounds in Soil, in ug/kg (continued)

| | Sample ID -> Depth [feet] -> | SB-16-3 7.0-7.5 | SB-2042 4.0-4.5 | SB-21-2 5.0-5.5 | SB-22-3 7.0-7.5 | OW-5-9 4.5-5 |
|---------------------------|---------------------------------|--------------------|--------------------|--------------------|--------------------|-----------------|
| PURGEABLE HALOCARBONS | MDL | (x10) | (x1) | (x1) | (x1) | (x1) |
| Dichlorodifluoromethane | 5 | | | | | ND |
| Chloromethane | 5 | <10 | <10 | <10 | <10 | ND |
| Vinyl chloride | 5 | <10 | <10 | <10 | <10 | ND |
| Bromomethane | 5 | <10 | <10 | <10 | <10 | ND |
| Chloroethane | 5 | <10 | <10 | <10 | <10 | ND |
| Trichlorofluoromethane | 5 | ND | ND | ND | ND | ND |
| 1,1-Dichloroethene | 5 | ND | ND | ND | ND | ND |
| Dichloromethane | 5 | ND | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | 5 | ND | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | 5 | ND | ND | ND | ND | ND |
| 1,1-Dichloropethane | 5 | ND | ND | ND | ND | ND |
| Chloroform | 5 | ND | ND | ND | ND | ND |
| Freon 113 | 5 | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | 5 | ND | ND | ND | ND | ND |
| Carbon Tetrachloride | 5 | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | 5 | ND | ND | ND | ND | ND |
| Trichloroethylene | 5 | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | 5 | ND | ND | ND | ND | ND |
| Bromodichloromethane | 5 | ND | ND | ND | ND | ND |
| trans-1,3-Dichloropropene | 5 | ND | ND | ND | ND | ND |
| cis-1,3-Dichloropropene | 5 | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | 5 | ND | ND | ND | ND | ND |
| Tetrachloroethene | 5 | ND | ND | ND | ND | ND |
| Dibromochloromethane | 5 | ND | ND | ND | ND | ND |
| 2-Chloroethylvinylether | 10 | ND | ND | ND | ND | ND |
| Chlorobenzene | 5 | ND | ND | ND | ND | ND |
| Bromoform | 5 | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | 5 | ND | ND | ND | ND | ND |
| 1,2,3-Trichloropropane | 44 | | | | | ND |
| 2-Chlorotoluene | 100 | | | | | ND |
| 1,3-Dichlorobenzene | 5 | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 5 | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | 5 | ND | ND | ND | ND | ND |
| PURGEABLE AROMATICS | MDL | (x10) | (x1) | (x1) | (x1) | (x1) |
| Benzene | 5 | 110 | ND | ND | ND | ND |
| Toluene | 5 | 79 | ND | ND | ND | ND |
| Chlorobenzene | 5 | ND | ND | ND | ND | ND |
| Ethylbenzene | 5 | ND | ND | ND | ND | ND |
| p-&m-xylene | 10 | | | | | ND |
| O-xylene | 5 | | | | | ND |
| Total Xylenes | 5 | 140 | ND | ND | ND | ND |
| 1,3-Dichlorobenzene | 5 | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | 5 | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | 5 | ND | ND | ND | ND | ND |

Notes:

- 1) MDL = Method Detection Limit
- 2) (x5) = Factor to be multiplied with the MDL to determine the Individual Reporting Limit
- 3) ND = Not Detected at or above Reporting Limit
- 4) Blank = Not Analyzed
- 5) Purgeable Halocarbons (EPA method 8010)
- 6) Purgeable Aromatics (EPA method 8020)



| | |
|--|------------|
|  AQUA RESOURCES, INC. BERKELEY, CALIFORNIA | |
| PG & E ENCON - GAS YARD | |
| Initial Confirmatory Samples | |
| JOB NO. 90262.2 | Figure 4-4 |
| DATE: February 1992 | |

TABLE 5-1 COMPARISON OF DETECTED COMPOUNDS IN PRODUCT SAMPLE E-PIPE-2 AND SOIL SAMPLES E-6 AND B-11

| Detected Compound | Analysis Method (EPA #) | Sample ID | | |
|---------------------|--------------------------------------|-----------------------|------------------------|-------------------------|
| | | E-PIPE-2 | E-6 | B-11 |
| Xylene | ¹ 8240, ² 8020 | 11 ug/kg ² | < 5 ug/kg ¹ | < 5 ug/kg ¹ |
| Chlorobenzene | ¹ 8240, ² 8010 | < 5 ug/kg | < 5 ug/kg ¹ | 130 ug/kg ¹ |
| 1,3-Dichlorobenzene | ¹ 8240, ² 8010 | < 5 ug/kg | < 5 ug/kg ¹ | 1100 ug/kg ¹ |
| 1,4-Dichlorobenzene | ¹ 8240, ² 8010 | < 5 ug/kg | < 5 ug/kg ¹ | 1800 ug/kg ¹ |
| 1,2-Dichlorobenzene | ¹ 8240, ² 8010 | < 5 ug/kg | < 5 ug/kg ¹ | 160 ug/kg ¹ |
| Naphthalene | 8270 | < 5 mg/kg | 0.5 mg/kg | < 1 mg/kg |
| Acenaphthene | 8270 | 13 mg/kg | < 0.5 mg/kg | < 1 mg/kg |
| Fluorene | 8270 | 52 mg/kg | 0.9 mg/kg | < 1 mg/kg |
| Phenanthrene | 8270 | 76 mg/kg | 1.8 mg/kg | < 1 mg/kg |
| Anthracene | 8270 | 13 mg/kg | < 0.5 mg/kg | < 1 mg/kg |
| Fluoranthene | 8270 | 13 mg/kg | < 0.5 mg/kg | < 1 mg/kg |
| Pyrene | 8270 | 72 mg/kg | 3.0 mg/kg | 1.9 mg/kg |
| Benzo(a)anthracene | 8270 | 44 mg/kg | < 0.5 mg/kg | < 1 mg/kg |
| Chrysene | 8270 | 30 mg/kg | < 0.5 mg/kg | < 1 mg/kg |
| Benzo(a)pyrene | 8270 | 16 mg/kg | < 0.5 mg/kg | < 1 mg/kg |
| Gasoline | 5030-8015 | < 1 mg/kg | NA | < 1 mg/kg |
| Kerosene | 3510-8015 | < 1 mg/kg | < 1 mg/kg | < 1 mg/kg |
| Diesel | 3510-8015 | 7000 mg/kg | 3500 mg/kg | 130 mg/kg |
| Motor Oil | 3510-8015 | < 10 mg/kg | 6700 mg/kg | NA |
| Oil & Grease | 5520 E&F | NA | NA | 1600 |

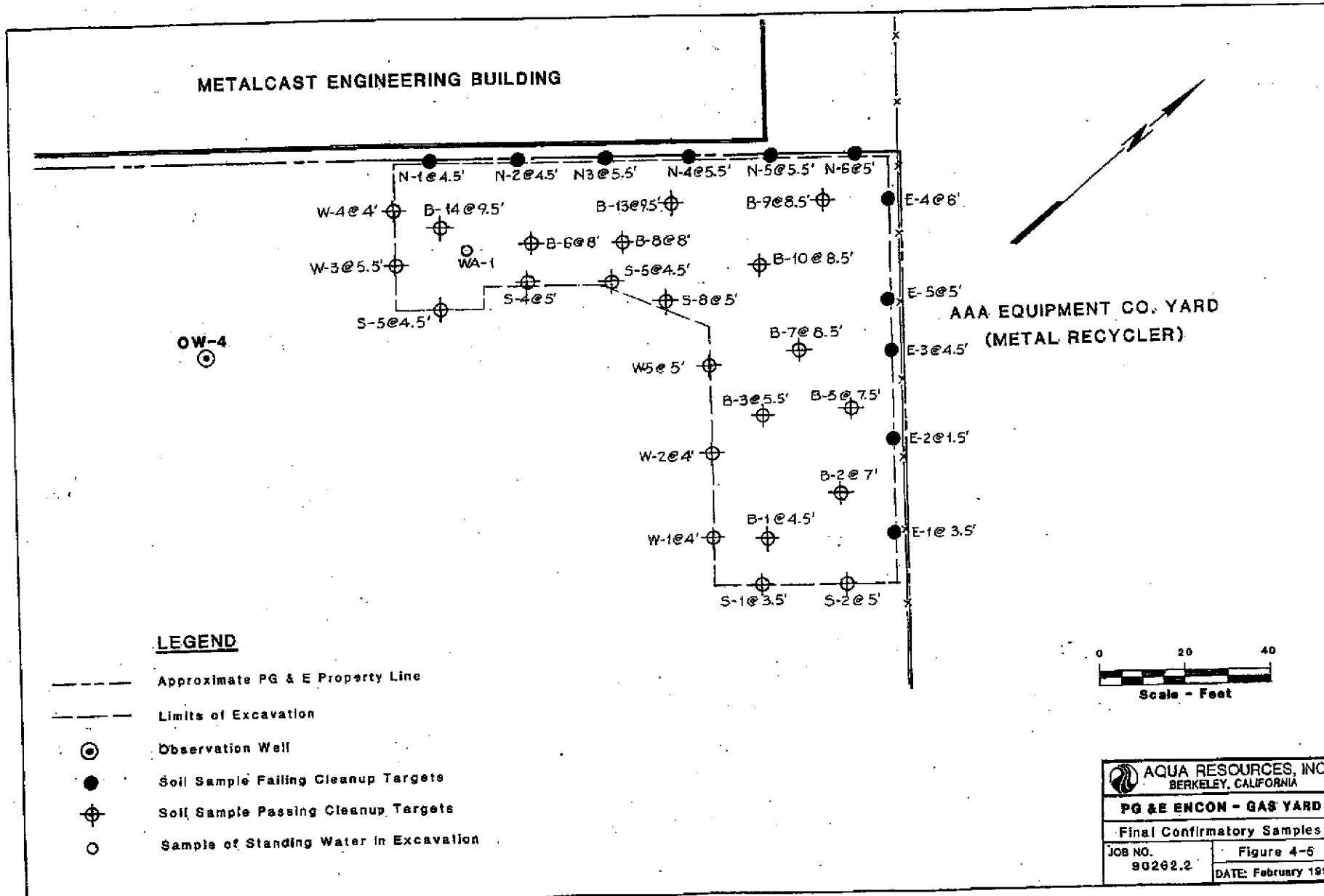
Notes: NA = Not Analyzed

Two metal pipelines containing a highly viscous oil or tar were uncovered... Each pipeline was oriented

In order to determine whether or not the two pipelines were the source of contaminants found in neighboring soils, the EPA 8270 analysis for semivolatile organics was repeated on two soil samples obtained from the vicinity of the pipelines. Sample E-6 was collected approximately 2 1/2 feet below the 12 inch diameter pipe from the excavation sidewall. Sample B-11 was collected at a depth of 8 1/2 feet approximately 35 feet from the observed original terminus of the 12 inch diameter pipe. These samples were additionally analyzed for volatile organic compounds by EPA 8240 and TEH as diesel. Total oil and grease was also tested in sample

*bottom of the 4 inch
pit ~20' ft from the
AAA property*

*The two pipes, one 12 inches in diameter w/ a
42" Smaller 4-inch inner pipe, were
found buried about the 2 and 2 1/2 depth...*



| | |
|--|------------|
| AQUA RESOURCES, INC. BERKELEY, CALIFORNIA | |
| PG & E ENCON - GAS YARD | |
| Final Confirmatory Samples | |
| JOB NO. 90262.2 | Figure 4-5 |
| DATE: February 1992 | |

ATC Environmental, Inc.

BORING LOG

BORING NO: ATC-3

PROJECT NO: 89775.0030

PROJECT NAME: MetalCast

CLIENT: Comerica Bank

PROJECT LOCATION: 1800 Coliseum Way, Oakland

DRILLING CONTRACTOR: Vicksen

DRILLING MTHD: Squeeze

SAMPLE MTHD: Squeeze

DATE STARTED: Oct 8, 1998

DATE FINISHED: Oct 8, 1998

DRILLER: Scott/Brian

INSPECTOR: None

| DEPTH (FT) | SAMPLE | SPT BLows per 4" | REC (ft) | PID (ppm) | POR- FLE | SURFACE ELEVATION: NA | REMARKS |
|---------------------------------|--------|---------------------------|-------------|--------------|-------------|--|--|
| | | | | | | LITHOLOGIC DESCRIPTION | |
| 0.0 | | | | | | Clayey Gravel, GC, light brown, dry, loose, dense at 1'ft; oil/tar globules visible. 2' layer of soft tar at 1.5ft | |
| 1.0 | 1 | 50 | | | | Clayey Silt, H, black, very moist, wet at 3.5ft, soft, slight petroleum odor | |
| 5.0 | 2 | 100 | | | | Clay, CL, green, moist, very stiff, high plasticity, some brown discoloration, some gravel, slight sour odor | Soil sample ATC-3-3FT collected at 15:00 |
| 10.0 | 3 | 100 | | | | Gravelly Clay, CL, green with large orange-brown discoloration, very moist, slightly stiff, slight sour odor | Soil sample ATC-3-4FT collected at 15:05 & archived at lab |
| 15.0 | | | | | | | |
| 20.0 | | | | | | | |
| 25.0 | | | | | | | |
| 30.0 | | | | | | | Geologist: Bahram Zanganeh-Azad |
| BOTTOM OF TEST BORING: 12.00' | | | | | | | |
| SPT = STANDARD PENETRATION TEST | | | | | | | |
| REC = SAMPLE RECOVERY | | | | | | | |
| ND = NON-DETECTABLE | | | | | | | |
| PID = FLAME IONIZATION DETECTOR | | | | | | | |
| PFD = PHOTO-IONIZATION DETECTOR | | | | | | | |
| | | | | | | PAGE: 1 OF: 1 | |

ATC Environmental, Inc.

BORING LOG

BORING NO: ATC-5

PROJECT NO: 89775.0030

CLIENT: Commerce Bank

PROJECT NAME: MetalCoast

PROJECT LOCATION: 4800 Coliseum Way, Oakland

DRILLING CONTRACTOR: Virexex

DRILLING MTHD: Seeprobe

SAMPLE MTHD: Seeprobe

DATE STARTED: Oct 8, 1998

DATE FINISHED: Oct 8, 1998

DRILLER: Beatty/Brian

INSPECTOR: None

| DEPTH (FT) | S E | SPT BLows PER 60" | REC (%) | PID (ppm) | P R O F T E | SURFACE ELEVATION: NA | REMARKS |
|---------------------------------|--------|----------------------------|------------|--------------|----------------------------|--|--|
| | | | | | | LITHOLOGIC DESCRIPTION | |
| 0.0 | | | | | | Clayey/Sandy Gravel, GC, red-brown, dry, very loose, black at 2.5ft, strong petroleum odor | |
| 1 | | 60 | | | | Gravelly Clay, CL, black, moist, slightly stiff, med. plasticity, wet at 1ft, strong petroleum odor | |
| 5.0 | 2 | 80 | | | | 4ft-8ft: grey-green; some sand, wet at 7ft, globules of black oil/tar visible, strong odor 8ft-9.5ft: saturated, amount of sand and clay increases; light petroleum odor from 8ft | Soil sample ATC-5-3.5ft collected at 08:25 Initial water level: 6ft bgs |
| 10.0 | 3 | 100 | | | | Clayey/Sandy Gravel, GC, green-grey, saturated, slightly loose, some oil/globules, slight odor. 10ft-12ft: no odor, more sand, green-brown, very wet, dense | Water sample ATC-5 collected at 08:50 |
| 15.0 | | | | | | | |
| 20.0 | | | | | | | |
| 25.0 | | | | | | | |
| 30.0 | | | | | | | Geologist: Bahram Zanganeh-Azam |
| BOTTOM OF TEST BORING: 12.00' | | | | | | | |
| SPT = STANDARD PENETRATION TEST | | | | | | | |
| REC = SAMPLE RECOVERY | | | | | | | |
| ND = NON-DETECTABLE | | | | | | | |
| PID = FLAME IONIZATION DETECTOR | | | | | | | |
| PJD = PHOTO-IONIZATION DETECTOR | | | | | | | |
| | | | | | | PAGE: 1 OF 1 | |

ATC Environmental, Inc.

BORING LOG

BORING NO: ATC-7

PROJECT NO: 89775.0030

CLIENT: Comerica Bank

PROJECT NAME: Metal Cont.

PROJECT LOCATION: 4800 Coliseum Hwy, Oakland

DRILLING CONTRACTOR: Vironex

DRILLING MTHD: Geoprobe

SAMPLE MTHD: Geoprobe

DATE STARTED: Oct 8, 1998

DATE FINISHED: Oct 8, 1998

DRILLER: Scott/Brian

INSPECTOR: Nease

| DEPTH (FT) | S O C E | SPT BLKES PER 1'ft | REC (%) | PID (ppm) | PROF ILE | SURFACE ELEVATION: NA | REMARKS |
|---------------------------------|------------------|-----------------------------|------------|--------------|-------------|--|--|
| | | | | | | LITHOLOGIC DESCRIPTION | |
| 0.0 | | | | | | Backfill/gravel 0ft-1ft. Sandy/Gravelly, Tan, black, slightly soft to hard, very high plasticity, highly elastic, very strong petroleum odor, broken glass | |
| | 1 | 50 | | | | Clayey Silt, H, black, very moist/wet, soft, strong petroleum odor | |
| 5.0 | 2 | 100 | | | | Clay, CL, green, very moist/wet, stiff, high plasticity, some sand, very elastic, some gravel at 6ft | Soil sample ATC-7-4FT collected at 11:05 Soil sample ATC-7-4.5FT collected at 11:10 & archived at lab Soil sample ATC-7-5.5FT collected at 11:15 & archived at lab |
| | | | | | | Gravelly/Sandy Clay, CL, green, very moist, stiff, high plasticity, no odor | |
| 10.0 | 3 | 100 | | | | Clayey/Sandy Gravel, SC, green, saturated, dense, orange at 12ft | Water sample ATC-7 collected at 11:40 |
| 15.0 | | | | | | | |
| 20.0 | | | | | | | |
| 25.0 | | | | | | | |
| 30.0 | | | | | | | Geologist: Bahram Zangeneh-Azam |
| BOTTOM OF TEST BORING: 32.00' | | | | | | | |
| SPT = STANDARD PENETRATION TEST | | | | | | | |
| REC = SAMPLE RECOVERY | | | | | | | |
| ND = NON-DETECTABLE | | | | | | | |
| FID = FLAME IONIZATION DETECTOR | | | | | | | |
| PID = PHOTO-IONIZATION DETECTOR | | | | | | | |

ATC Environmental, Inc.

BORING LOG

BORING NO: ATC-8

PROJECT NO: 89775.0030

PROJECT NAME: MetalCast

PROJECT LOCATION: 1800 California Hwy, Oakland

DRILLING CONTRACTOR: Viradex

DRILLING MTHD: Georadar

SAMPLE MTHD: Seepage

DATE STARTED: Oct 8, 1998

DATE FINISHED: Oct 8, 1998

DRILLER: Scott/Brian

INSPECTOR: None

| DEPTH (FT) | S P E C E P T R E M P U L A N G E R F O R 4' F | REC TEN | PID (ppm) | P R O F I F E | SURFACE ELEVATION: NA | | REMARKS |
|---------------------------------|--|------------|--------------|---------------------------------|--|--|---------------|
| | | | | | LITHOLOGIC DESCRIPTION | | |
| 0.0 | | | | | Gravelly Clay, CL, dark brown/black, dry, stiff, high plasticity, petroleum odor | | |
| | 1 | 80 | | | Gravelly Tar, black, slightly stiff, very sticky, very elastic | | |
| | 2 | 100 | | | Clayey/Gravelly Silt, ML, black, wet, soft, elastic, strong petroleum odor, globules of oil/tar visible | | |
| | 3 | 100 | | | Clay, CL, grey-green, very moist, stiff, high plasticity, very elastic, petroleum odor, oil/tar globules visible | | |
| | | | | | Gravelly Clay, CL, green, moist, slightly stiff, med. plasticity, strong petroleum odor, globules of oil/tar visible | | |
| 10.0 | | | | | Clayey Gravel, SC, green, saturated, slightly dense, orange-brown at 10.5ft | | |
| | | | | | Clayey/Sandy Silt, ML, very wet, soft. Brown discolorations 11.3ft-11.5ft | | |
| | | | | | Clayey Gravel, SC, brown, saturated, slightly loose, no odor | | |
| 15.0 | | | | | | | |
| 20.0 | | | | | | | |
| 25.0 | | | | | | | |
| 30.0 | | | | | | | |
| BOTTOM OF TEST BORING: 12.00' | | | | | | | |
| SPT = STANDARD PENETRATION TEST | | | | | | | |
| REC = SAMPLE RECOVERY | | | | | | | |
| ND = NON-DETECTABLE | | | | | | | |
| PID = FLAME IONIZATION DETECTOR | | | | | | | |
| PDI = PHOTO-IONIZATION DETECTOR | | | | | | | |
| | | | | | | | PAGE: 1 OF: 1 |

Geologist: Bahram Zanganeh-Aslam

ATC Environmental, Inc.

BORING LOG

BORING NO: ATC-9

PROJECT NO: 89775.0030

PROJECT NAME: MetalCount

CLIENT: Commercial Bank

PROJECT LOCATION: 1800 California Way, Oakland

DRILLING CONTRACTOR: Victronix

PROJECT LOCATION

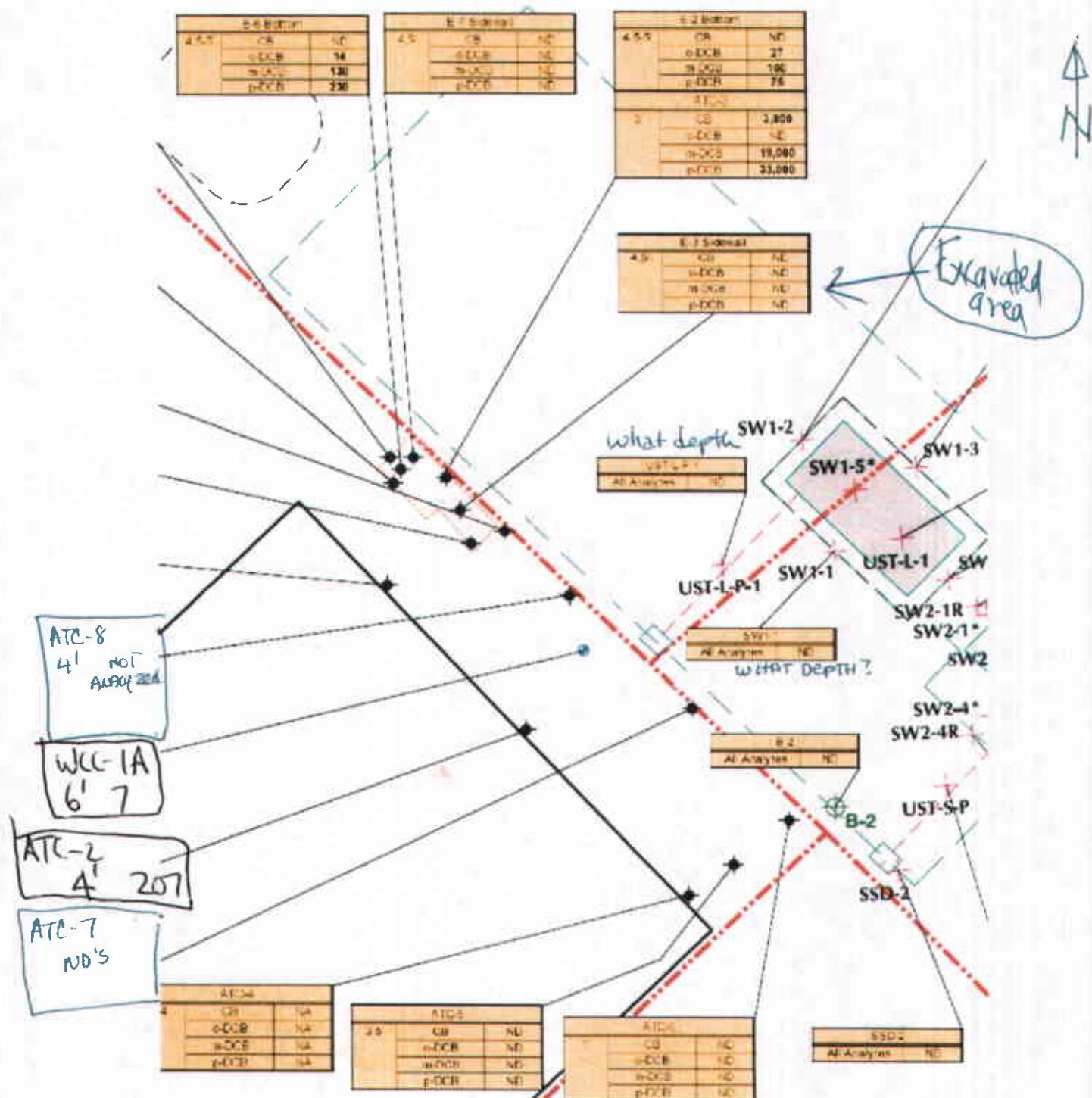
SAMPLE MTHD: Concrete

DRILLING MTHD: Geocore DATE STARTED: Oct 8 1998 DATE FINISHED: Oct 8 1998 DRILLER: Scott/Brian INSPECTOR: Nana

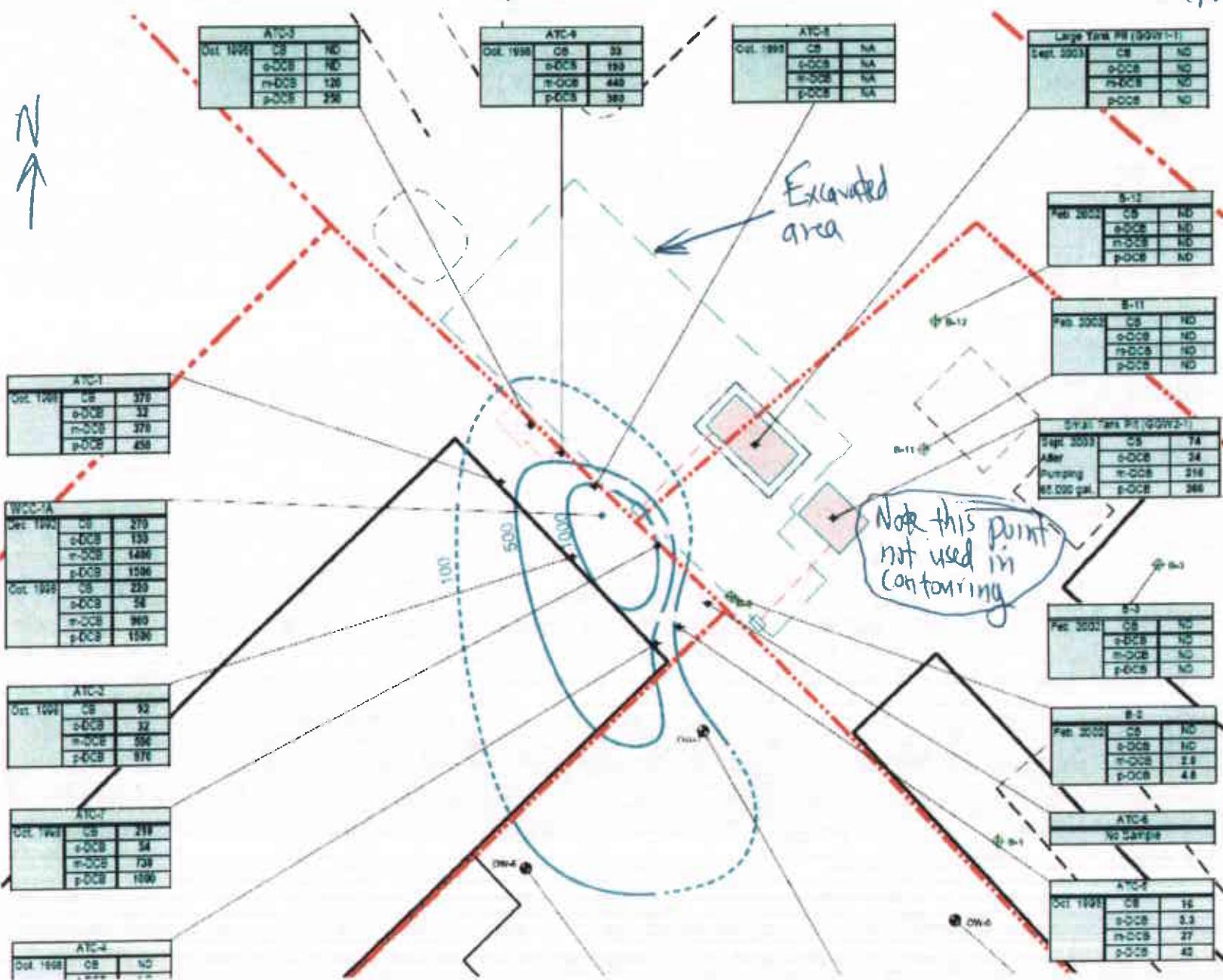
SOIL MAP

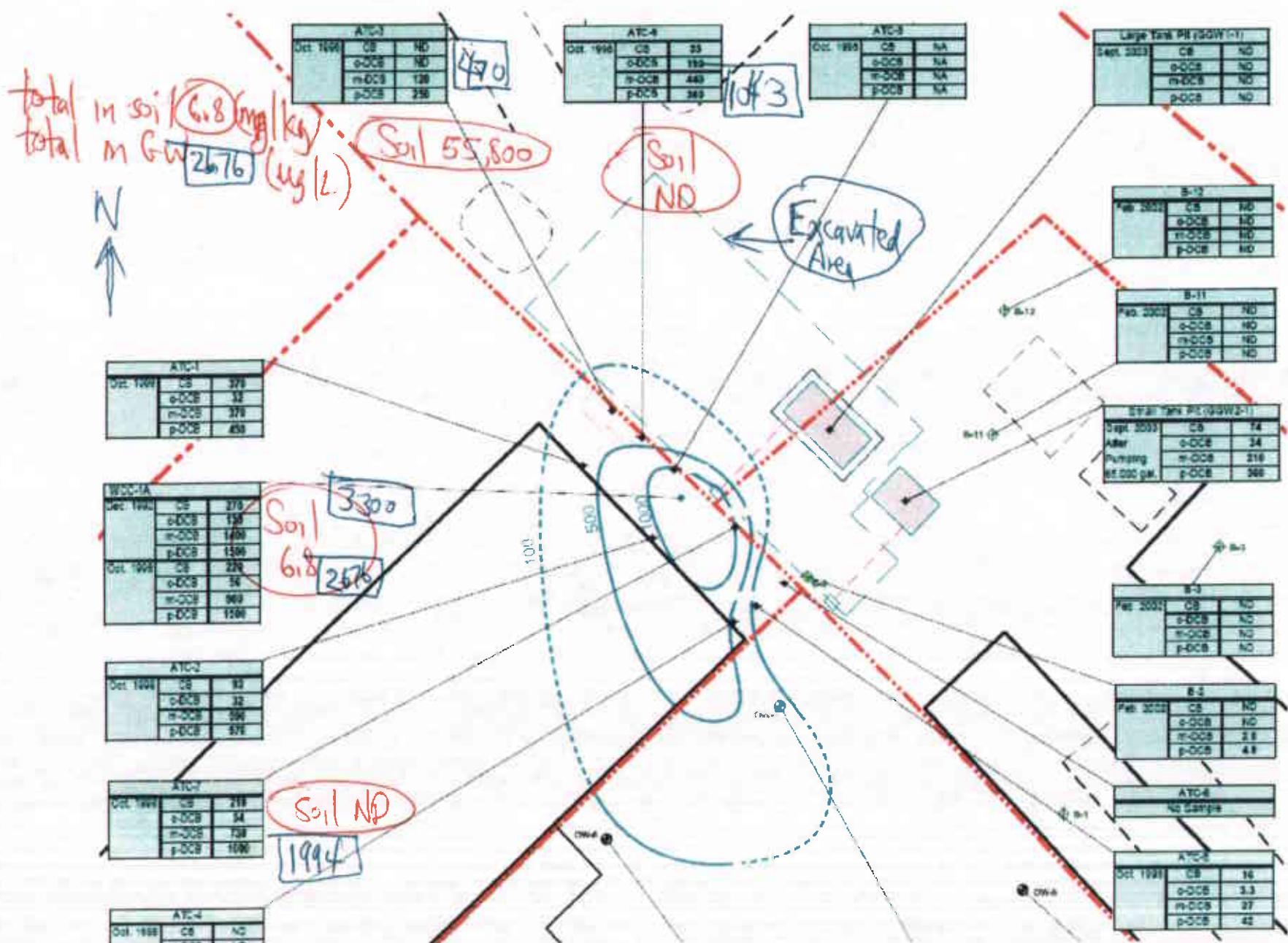
Workplan 745 50th Ave
10/30/2007

DCB in Soil
LFR Fig 5



GROUNDWATER - SAMPLE RESULTS fm Fig 6 LFR AAA
MAP EQPT WORKPLAC 745 50TH
10/30/07





LFR work plan