



FAX

from **Geomatrix Consultants, Inc.**
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Date: October 12, 2004

Number of pages including cover sheet: 16

To: Bob Schultz
Alameda County

From: Jennifer Patterson

*Alameda County
OCT 15 2004
Environmental Health*

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cc: Tom Graf
(650) 872-1558

Direct dial: 510-663-4167

Email: jpatterson@geomatrix.com

Project No.: 3095.007

Project Name: 4226 Halleck Street

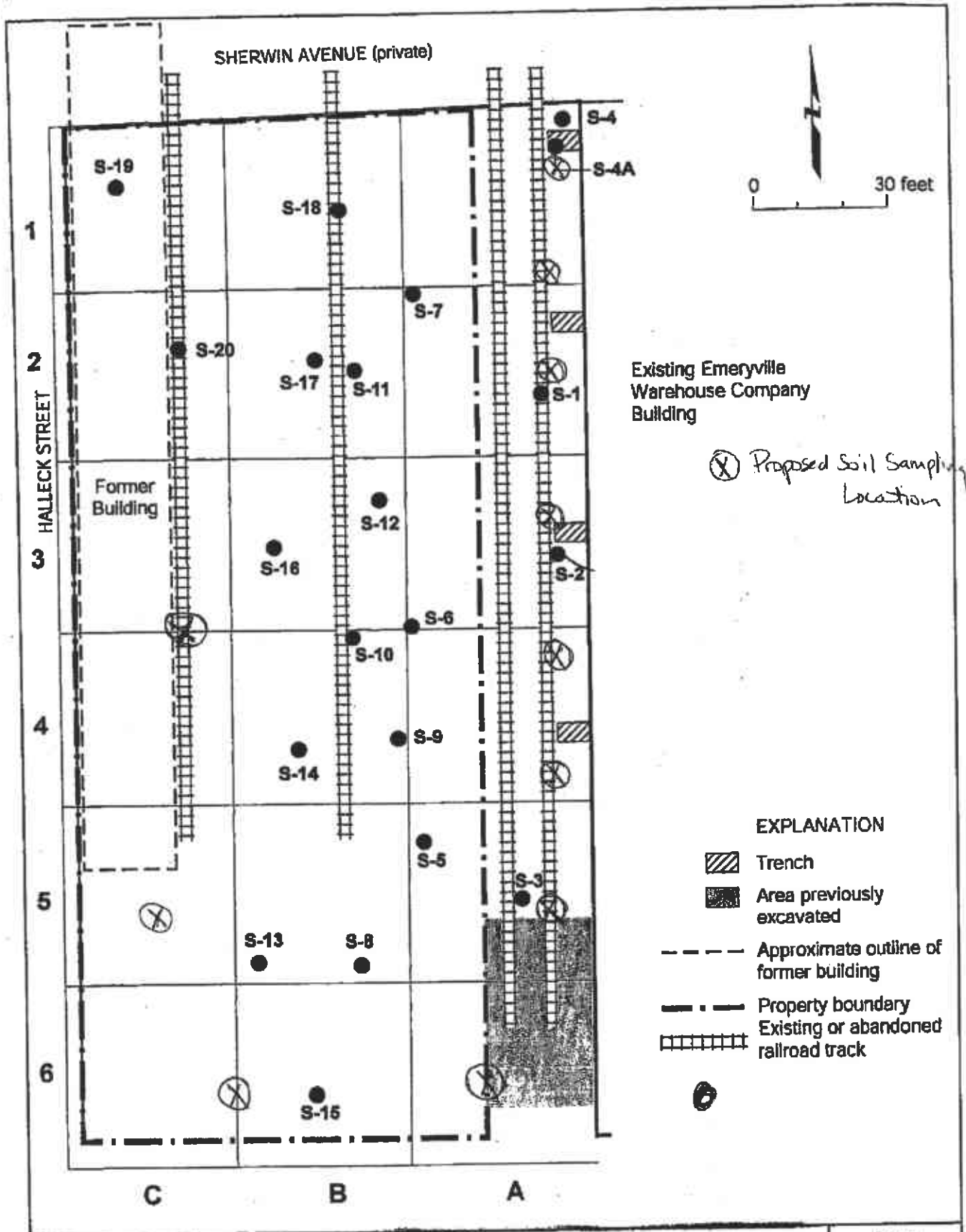
REMARKS:

- Hard copy to follow Urgent For your review Reply ASAP Please comment

Bob-

Here is a sampling plan and the information that I reference in my e-mail. Please call me or Tom Graf if you have questions or would like to discuss this. Thanks.

Jennifer



Proposed SOIL SAMPLING LOCATIONS
Emery Lofts
Emeryville, California

Figure 2

Project No. 3095.06

Groundwater Results

WEISS ASSOCIATES

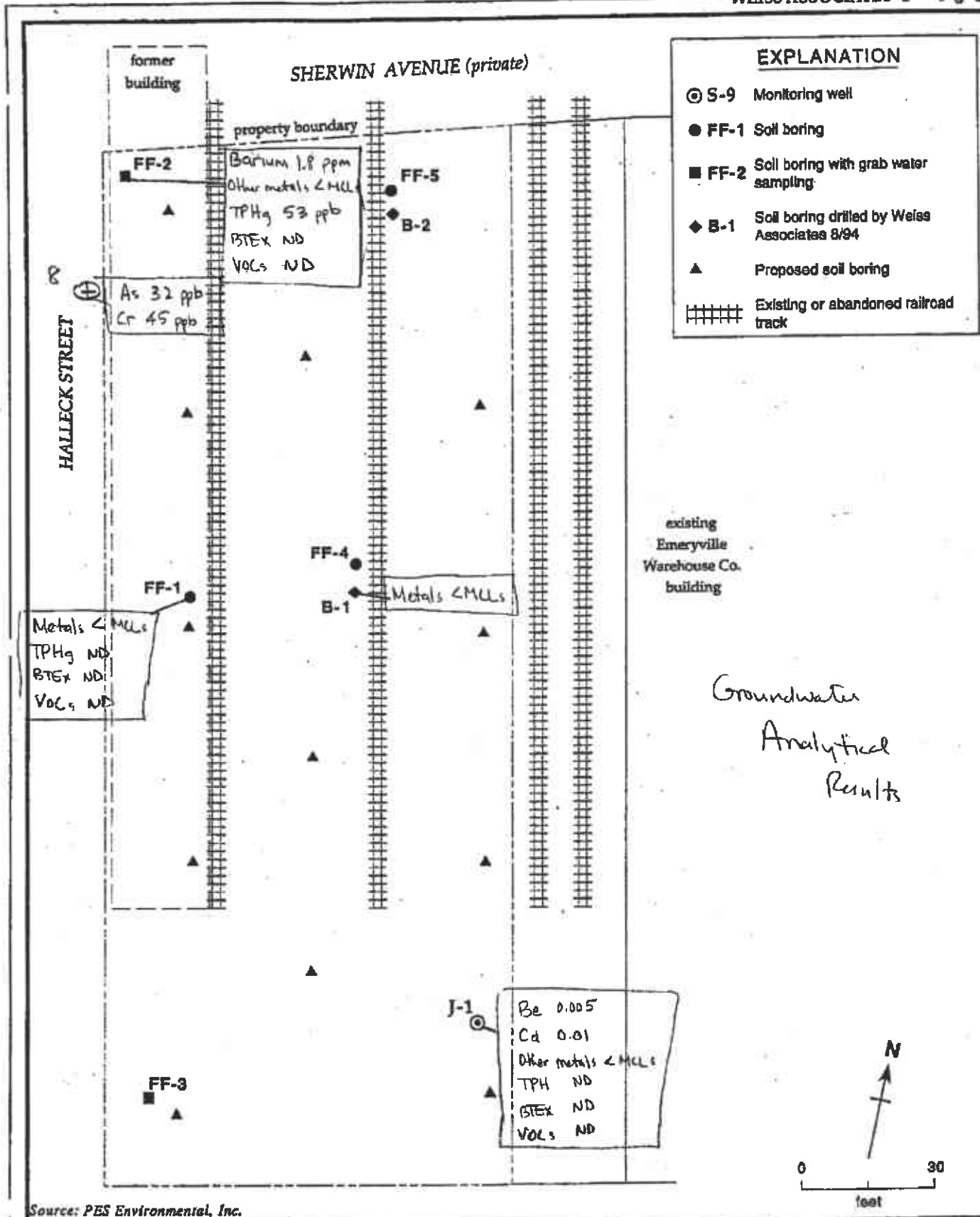
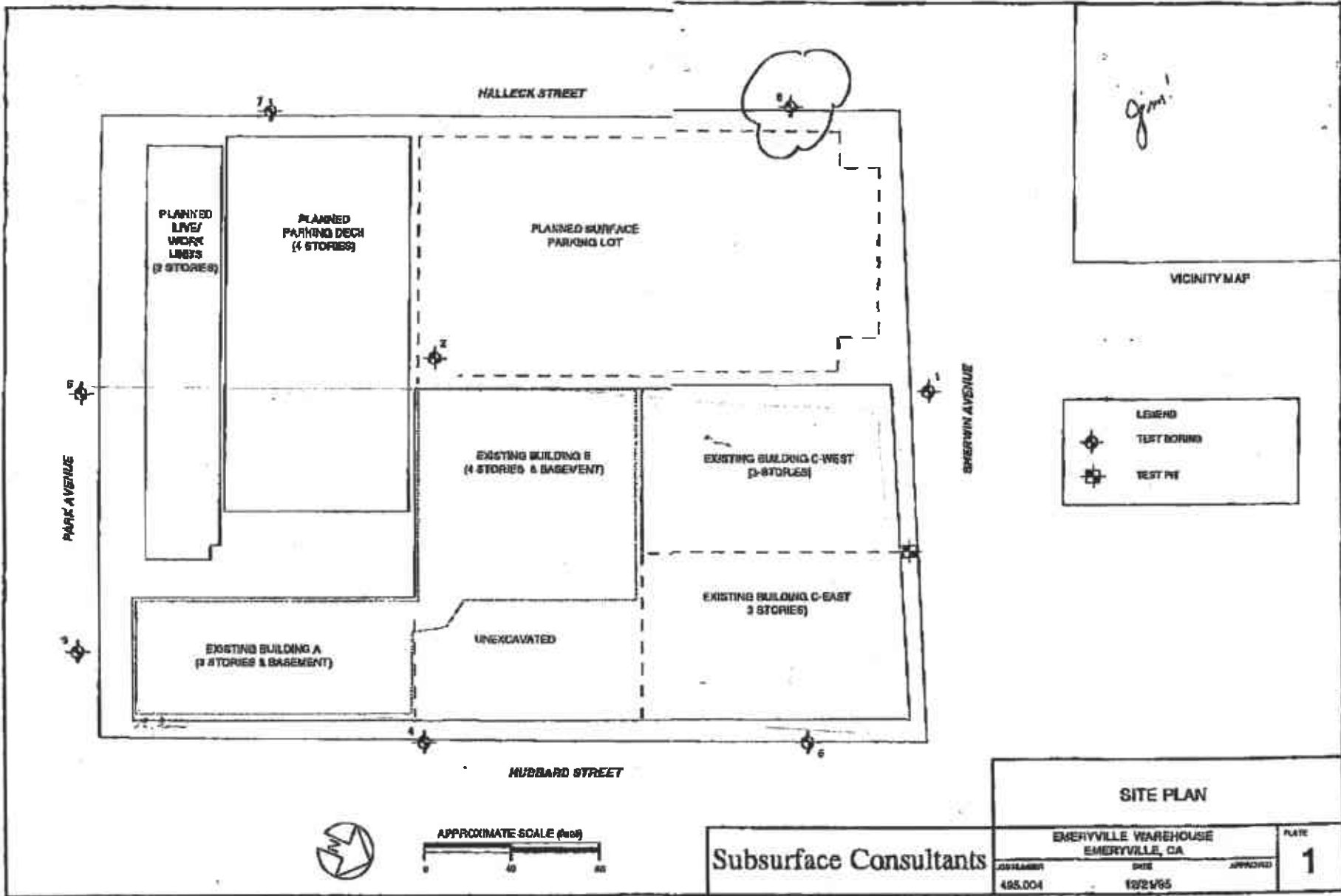


Figure 1. Monitoring Well and Soil Boring Location Map - , Sherwin and Halleck Street, Emeryville, California

P. 2/6

DEC 27 11:35AM SCI '96



VICINITY MAP

LEGEND	
	TEST BORING
	TEST PIT

SITE PLAN		
EMERYVILLE WAREHOUSE EMERYVILLE, CA		
JOB NUMBER 485.004	DATE 12/21/95	PLATE 1

Subsurface Consultants

REDUCED FOR FAX

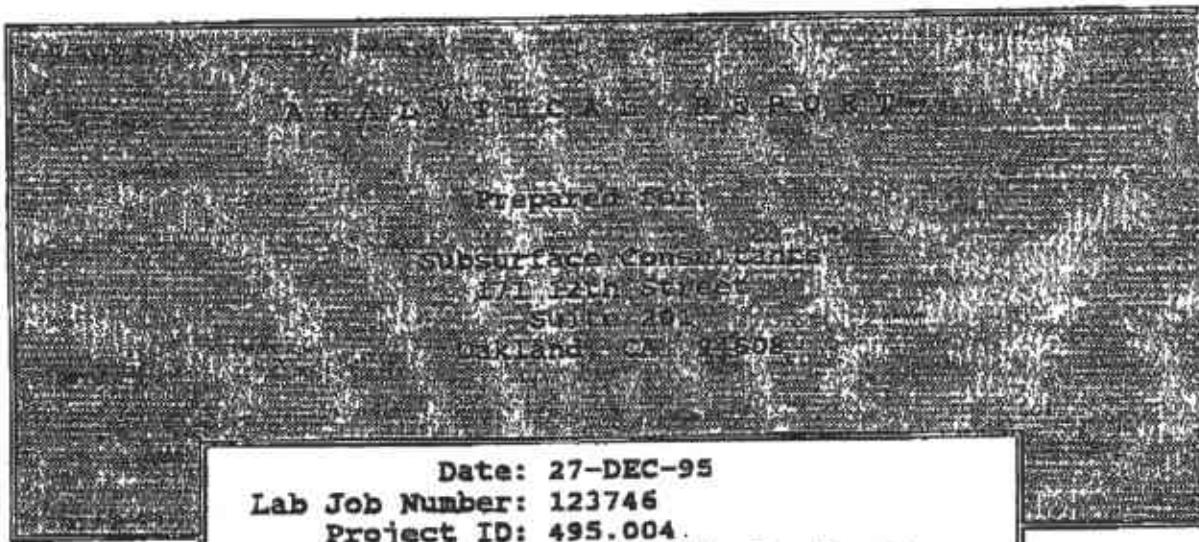
DEC 27 '95 11:00 CURTIS & TOMPKINS BERKELEY

P.2

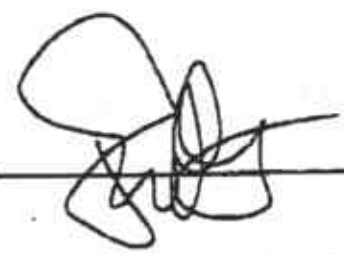



Curtis & Tompkins, Ltd., Analytical Laboratories. Since 1878

2323 Fifth Street, Berkeley, CA 94710. Phone (510) 486-0900



Date: 27-DEC-95
Lab Job Number: 123746
Project ID: 495.004
Location: Emeryville Warehouse

Reviewed by: 

Reviewed by: 

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DEC 27 '95 11:02 CURTIS & TOMPKINS BERKELEY

P.3



Curtis & Tompkins, Ltd.

SAMPLE ID: B-8
 LAB ID: 123746-001
 CLIENT: Subsurface Consultants
 PROJECT ID: 495.004
 LOCATION: Emeryville Warehouse
 MATRIX: Water

DATE SAMPLED: 12/15/95
 DATE RECEIVED: 12/18/95
 DATE REPORTED: 12/27/95

Metals Analytical Report

Compound	Result (ug/L)	Reporting Limit (ug/L)	QC Batch	Method	Analysis Date
Arsenic	32	5.0	24874	EPA 6010A	12/19/95
Chromium (total)	45	10	24874	EPA 6010A	12/19/95

DEC 27 '95 11:02 CURTIS & TOMPKINS BERKELEY

P.4



Curtis & Tompkins, Ltd.

SAMPLE ID: 8 @ 2.5'
 LAB ID: 123746-002
 CLIENT: Subsurface Consultants
 PROJECT ID: 495.004
 LOCATION: Emeryville Warehouse
 MATRIX: Soil

DATE SAMPLED: 12/15/95
 DATE RECEIVED: 12/18/95
 DATE REPORTED: 12/27/95

Metals Analytical Report

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	QC Batch	Method	Analysis Date
Arsenic	2.3	0.24	24892	EPA 6010A	12/10/95
Chromium (total)	44	0.48	24892	EPA 6010A	12/20/95

123 + 40

CHAIN OF CUSTODY FORM

PROJECT NAME: Emeryville Warehouse
 JOB NUMBER: 495.004 LAB: Curtis & Tompkins
 PROJECT CONTACT: Tom Cuddy TURNAROUND: Normal
 SAMPLED BY: Dennis Alexander REQUESTED BY: Tom Cuddy

PAGE 1 OF 1
 ANALYSIS REQUESTED

LABORATORY I.D. NUMBER	SCI SAMPLE NUMBER	MATRIX				CONTAINERS				METHOD PRESERVED					SAMPLING DATE				NOTES
		WATER	SOIL	WASTE	AIR	VOA	LITER	PINT	TUBE	HCL	H ₂ SO ₄	HNO ₃	ICE	NONE	MONTH	DAY	YEAR	TIME	
1-1	B-8	X						2			X	X			12	15	95	0900	* XX
1-2	8e25	X						X				X			12	15	95	0830	XX

ARSENIC
CHROMIUM

CHAIN OF CUSTODY RECORD

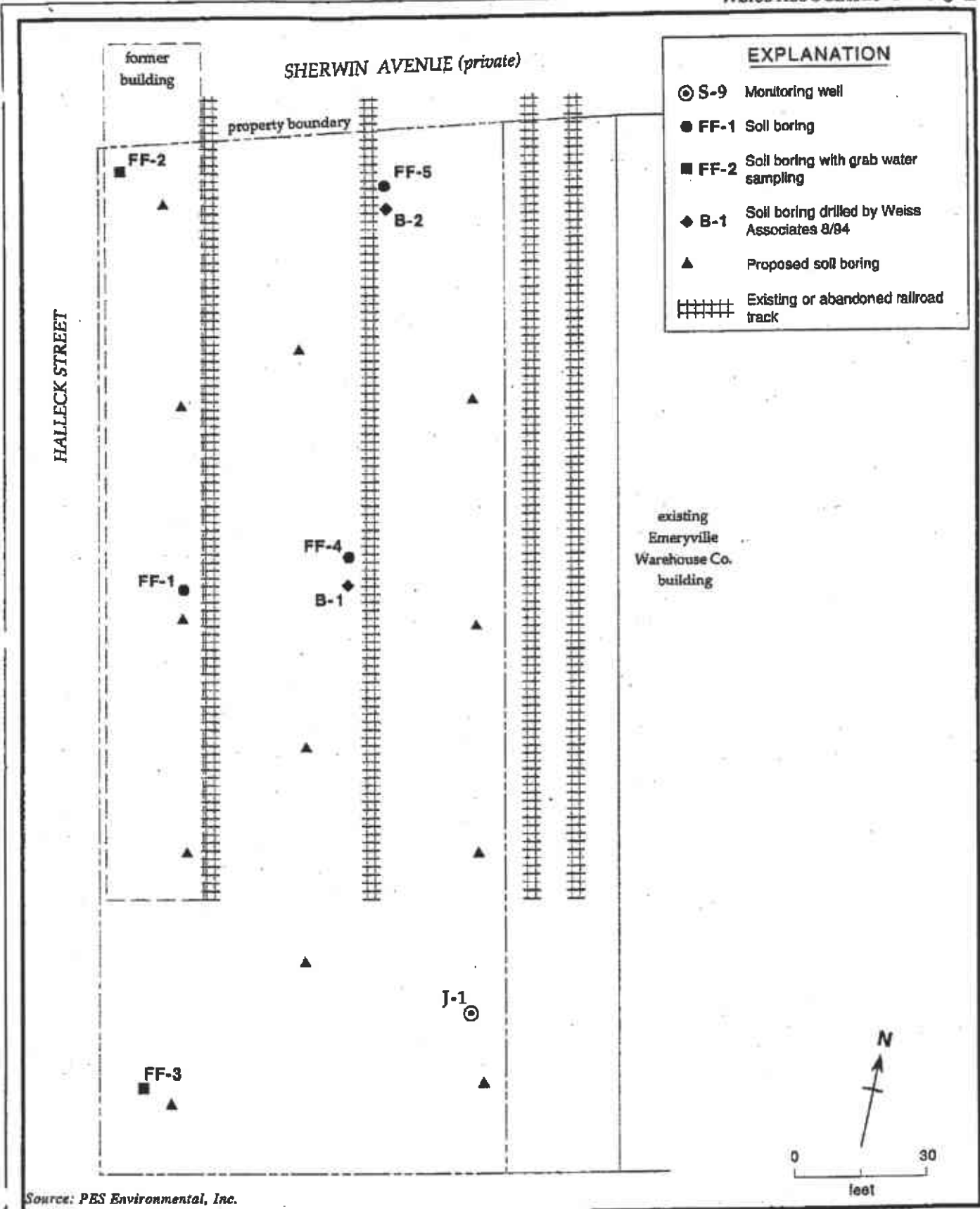
RELEASED BY: (Signature) <u>Dennis Alexander</u>	DATE / TIME <u>12/18/95 10:00 a.m.</u>	RECEIVED BY: (Signature) <u>D. Moore</u>	DATE / TIME <u>12-18-95 9:55</u>
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME
RELEASED BY: (Signature)	DATE / TIME	RECEIVED BY: (Signature)	DATE / TIME

COMMENTS & NOTES: * Please filter

Subsurface Consultants, Inc.
 171 12TH STREET, SUITE 201, OAKLAND, CALIFORNIA 94607
 (510) 260-0461 - FAX: 510-260-0137

DEC 27 95 11:51 AM

10/14/04 THU 17:09 FAX 510 663 4141 GEOMATRIX OAKLAND 008



Source: PES Environmental, Inc.

Figure 1. Monitoring Well and Soil Boring Location Map - , Sherwin and Halleck Street, Emeryville, California

Table 1. Analytic Results for Metals in Soil and Ground Water Samples - 4226 Halleck Street, Emeryville, California.

Boring/ ID	Sample Depth (ft)	Date Sampled	As	Ag	Ba	Be	Cd	Cr	Co	Cu	Hg	Mo	Ni	Pb	Sb	Se	Tl	V	Zn
parts per million (mg/kg)																			
SOIL																			
FF-2/3/4*	1.0	11/20/90	6	<1	110	<0.5	2	28	10	74	0.3	<0.5	39	96	<5	<2.5	<5	18	280
FF-2/3/5	1.75-3.5	11/20/90	210	2	1,100	<0.5	24	52	72	2,600	<0.1	3.2	13	550	<5	<2.5	<5	34	9,300
B1S	2.5	08/10/94	6,800	12	1,400	<0.5	10	25	43	2,300	<0.05	21	9	190	16	<1	<5	27	21,000
B2S	2.5	08/10/94	1,400	11	440	<0.5	7	65	58	2,300	<0.05	11	28	640	27	<1	6	26	10,000
PRG			22	380	5,300	0.14ca	9	NE	NE	2,800	23	380	150	400	31	380	5.4'	540	23,000
PRG			0.32ca																
Background			2.86	NE	500	<1	NE	100	30	30	NE	<3	20	20	NE	NE	NE	150	79
TTLIC			500	500	10,000	75	100	2,500	8,000	2,500	20	3,500	2,000	1,000	500	100	700	1,400	5,000
STLC			5	5	100	0.75	1	5	80	25	0.2	350	20	5	15	1	7	24	250
WATER																			
WWFF-1		11/20/90	<0.05	<0.02	0.25	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	<0.05	<0.05	<0.05	<0.05	<0.02	0.05
WWFF-2		11/20/90	<0.05	<0.02	1.8	<0.01	<0.01	<0.01	<0.01	<0.02	<0.001	0.03	<0.01	<0.05	<0.05	<0.05	<0.05	<0.02	0.07
B1W	4	08/10/94	0.009	<0.02	0.33	<0.005	<0.01	<0.02	<0.02	<0.02	<0.002	<0.02	<0.02	<0.02	<0.1	<0.01	<0.2	<0.02	<0.02
B2W	4	08/10/94	—	—	—	—	—	—	—	—	—	—	—	<0.005	—	—	—	—	—
I-1	4	10/15/90	<0.05	<0.02	—	<0.01	<0.01	<0.01	—	<0.02	<0.001	—	<0.01	<0.05	<0.1	<0.05	<0.1	—	>0.01
		08/10/94	.005	<0.02	0.12	0.005	0.01	<0.02	<0.02	<0.02	<0.002	<0.02	0.02	<0.1	<0.1	<0.01	<0.2	0.05	>0.02
STLC			5	5	100	0.75	1	5	80	25	0.2	350	20	5	15	1	7	24	250
MCL			0.05	0.05	1.0	0.004	0.01	0.05	NE	1.0*	0.002	NE	0.1	0.05*	NE	0.01	NE	NE	5.0*

- Table 1 continues on next page -

Table 1. Analytic Results for Metals in Soil and Ground Water Samples - 4226 Hallock Street, Emeryville, California. (continued)

Abbreviations:

- As = Arsenic by EPA Method 6010
- Ag = Silver by EPA Method 6010
- Ba = Barium by EPA Method 6010
- Be = Beryllium by EPA Method 6010
- Cd = Cadmium by EPA Method 6010
- Cr = Total Chromium by EPA Method 6010
- Co = Cobalt by EPA Method 6010 or 7197
- Cu = Copper by EPA Method 6010
- Hg = Mercury by EPA Method 6010
- Mo = Molybdenum by EPA Method 6010
- Ni = Nickel by EPA Method 6010
- Pb = Lead by EPA Method 7421
- Sb = Antimony by EPA Method 6010
- Se = Selenium by EPA Method 6010
- Tl = Thallium by EPA Method 6010
- V = Vanadium by EPA Method 6010
- Zn = Zinc by EPA Method 6010
- TTLIC = Total Threshold Limit Concentration
- STLC = Soluble Threshold Limit Concentration
- NE = Not established
- PRO = USEPA Region IX Preliminary Remediation Goals for soil in Residential Areas (non-cancer risk unless noted, ca. = cancer risk-basis)

Notes:

All 1990 data taken from a PES Environmental, Inc. subsurface investigation report dated December 19, 1990.

- a = Total chromium; no hexavalent chromium was detected in any of the samples analyzed for metals.
- b = PES sample CFF-1, composite sample from Boring FF-2 at 1.0', FF-3 at 1.0', and FF-4 at 1.0'.
- c = PES sample CFF-2, composite sample from Boring FF-2 at 2.5', FF-4 at 1.75' and FF-5 at 1.75'.
- d = as Thallic Oxide (most hazardous form)
- e = Recommended Action Level = 0.015 ppm
- f = Secondary MCL - No primary MCL established.

PES Environmental, Inc.

**Table 1. Summary of Analytical Results for Soil Samples,
Phase III Investigation, Southern Pacific Property
Sherwin Avenue and Halleck Street, Emeryville, California
(all results in milligrams per kilogram¹)**

Sample ID:	FF-2-6.0 ²	CFF-1 ³	CFF-2 ³	CFF-3 ³
Metals⁴				
Antimony	NA	ND(5)	ND(5)	NA
Arsenic	NA	6	210	NA
Barium	NA	110	1,100	NA
Beryllium	NA	ND(0.5)	ND(0.5)	NA
Cadmium	NA	2	24	NA
Total Chromium	NA	28	52	NA
Cobalt	NA	10	72	NA
Copper	NA	74	2,600	NA
Lead	NA	96	550	NA
Mercury	NA	0.3	ND(0.1)	NA
Molybdenum	NA	ND(0.5)	3.2	NA
Nickel	NA	39	13	NA
Selenium	NA	ND(2.5)	ND(2.5)	NA
Silver	NA	ND(1)	2	NA
Thallium	NA	ND(5)	ND(5)	NA
Vanadium	NA	18	34	NA
Zinc	NA	280	9,300	NA
Organics				
TEH - Gasoline ⁵	ND(10)	NA	NA	ND(10)
TEH - Kerosene ⁵	ND(10)	NA	NA	ND(10)
TEH - Diesel ⁵	ND(10)	NA	NA	ND(10)
Volatile Organics ⁶	Toluene-.016	NA	NA	Toluene-.018
Semivolatile Organics ⁷	ND	NA	NA	ND

ND - Not detected at or above the stated reporting limit

NA - Not analyzed

¹ Approximately equivalent to parts per million (ppm)

² Discrete sample from Boring FF-2 at 6.0' depth

³ Composite samples:

CFF-1 - From Boring FF-2 at 1.0', FF-3 at 1.0' and FF-4 at 1.0'

CFF-2 - From Boring FF-2 at 2.5', FF-4 at 1.75' and FF-5 at 1.75'

CFF-3 - From Boring FF-1 at 5.5', FF-3 at 6.0' and FF-5 at 6.0'

⁴ Metals analyzed by atomic adsorption or ICAP methods (see laboratory report)

⁵ Total Extractable Petroleum Hydrocarbons - California DOHS-LUFT Manual, 1989

⁶ Volatile Organic Compounds by EPA Test Method 5030/8240. Only detected compounds shown - all others not detected above method reporting limits (see laboratory report).

⁷ Semivolatile Organic Compounds by EPA Test Method 3550/8270. Reporting limits vary - see laboratory report

SF 031943

**Table 2. Summary of Analytical Results for Ground-Water Samples,
Phase II and III Investigations, Southern Pacific Property,
Sherwin Avenue and Halleck Street, Emeryville, California
(all results in micrograms per liter¹)**

Sample ID:	Well J-1 ²	WFF-1 ³	WFF-2 ³
Metals⁴			
Antimony	ND(100)	ND(50)	ND(50)
Arsenic	ND(50)	ND(50)	ND(50)
Barium	NA	250	1,800
Beryllium	ND(10)	ND(10)	ND(10)
Cadmium	ND(10)	ND(10)	ND(10)
Total Chromium	ND(10)	ND(10)	ND(10)
Hexavalent Chromium ⁵	ND(50)	NA	NA
Cobalt	NA	ND(10)	ND(10)
Copper	ND(20)	ND(10)	20
Lead	ND(50)	ND(50)	ND(50)
Mercury	ND(1)	ND(10)	ND(1)
Molybdenum	NA	10	30
Nickel	ND(10)	20	ND(10)
Selenium	ND(50)	ND(50)	ND(50)
Silver	ND(20)	ND(20)	ND(20)
Thallium	ND(100)	ND(50)	ND(50)
Vanadium	NA	ND(20)	ND(20)
Zinc	ND(10)	50	70
Organics			
TEH - Kerosine ⁶	ND(50)	NA	NA
TEH - Diesel ⁶	ND(50)	NA	NA
TVH - Gasoline ⁷	ND(50)	ND(50)	53
Benzene ⁸	ND(0.5)	ND(0.5)	ND(0.5)
Toluene ⁸	ND(0.5)	ND(0.5)	ND(0.5)
Ethyl Benzene ⁸	ND(0.5)	ND(0.5)	ND(0.5)
Total Xylenes ⁸	ND(0.5)	ND(0.5)	ND(0.5)
Purgeable halocarbons ⁹	ND(1-2)	ND(1.2)	ND (1-2)

ND - Not detected at or above the stated reporting limit

NA - Not analyzed

¹ Equivalent to parts per billion (ppb)

² Sample collected from Phase II ground-water monitoring well

³ Sample collected from Phase III borehole auger

⁴ Metals analyzed by atomic adsorption or ICAP methods (see laboratory report)

⁵ Hexavalent Chromium by EPA Test Method 7195

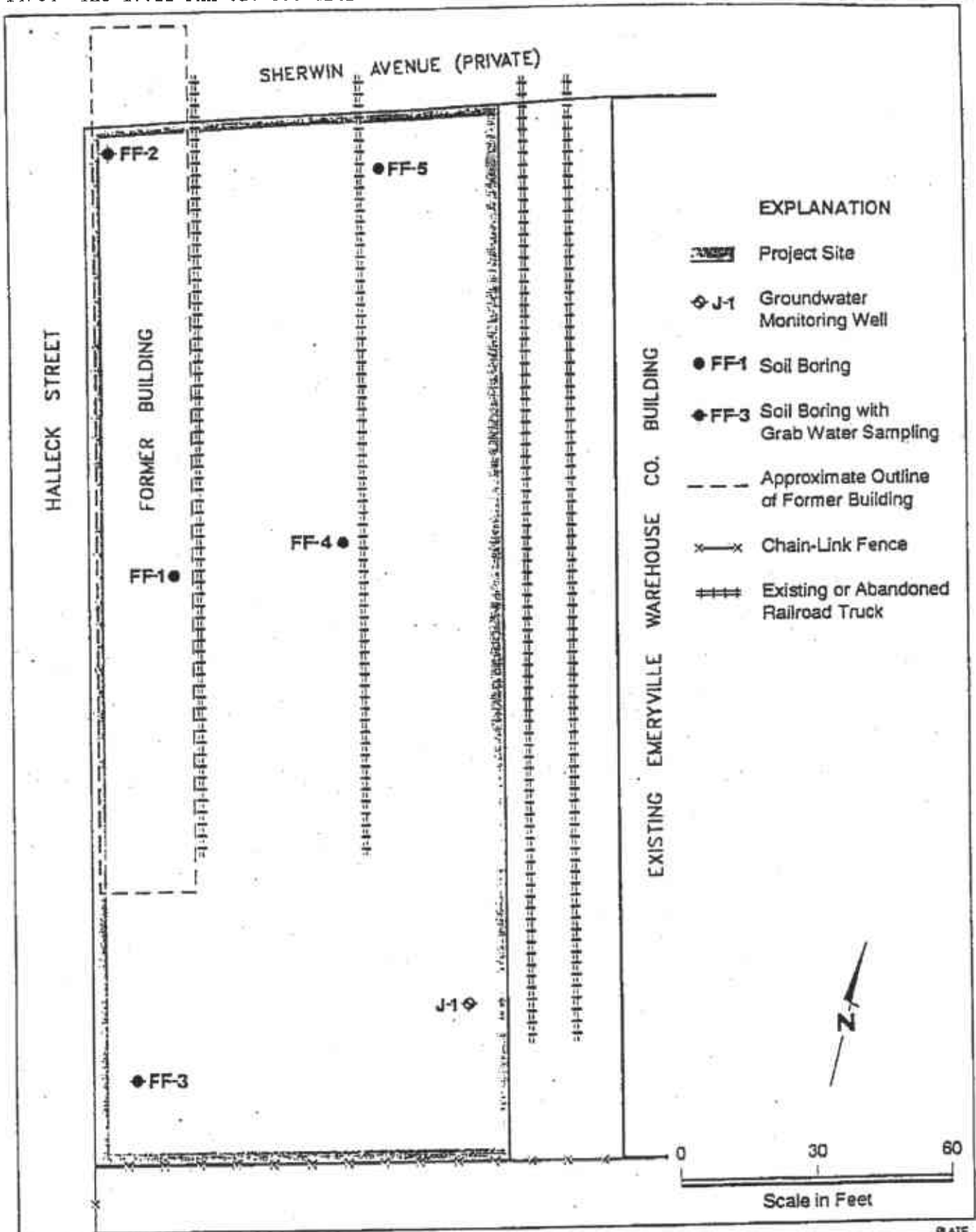
⁶ TEH - Total Extractable Petroleum Hydrocarbons - California DOHS-LUFT Manual, 1989

⁷ TVH - Total Volatile Petroleum Hydrocarbons - California DOHS-LUFT Manual, 1989

⁸ EPA Test Method 5030/8020

⁹ EPA Test Method 8010

SF 031944



Site Plan
 Phase II & III Investigations
 Sherwin Avenue & Halleck Street
 Emeryville, California

PLATE

2



PES Environmental, Inc.
 Engineering & Environmental Services

JOB NUMBER
 FF001C

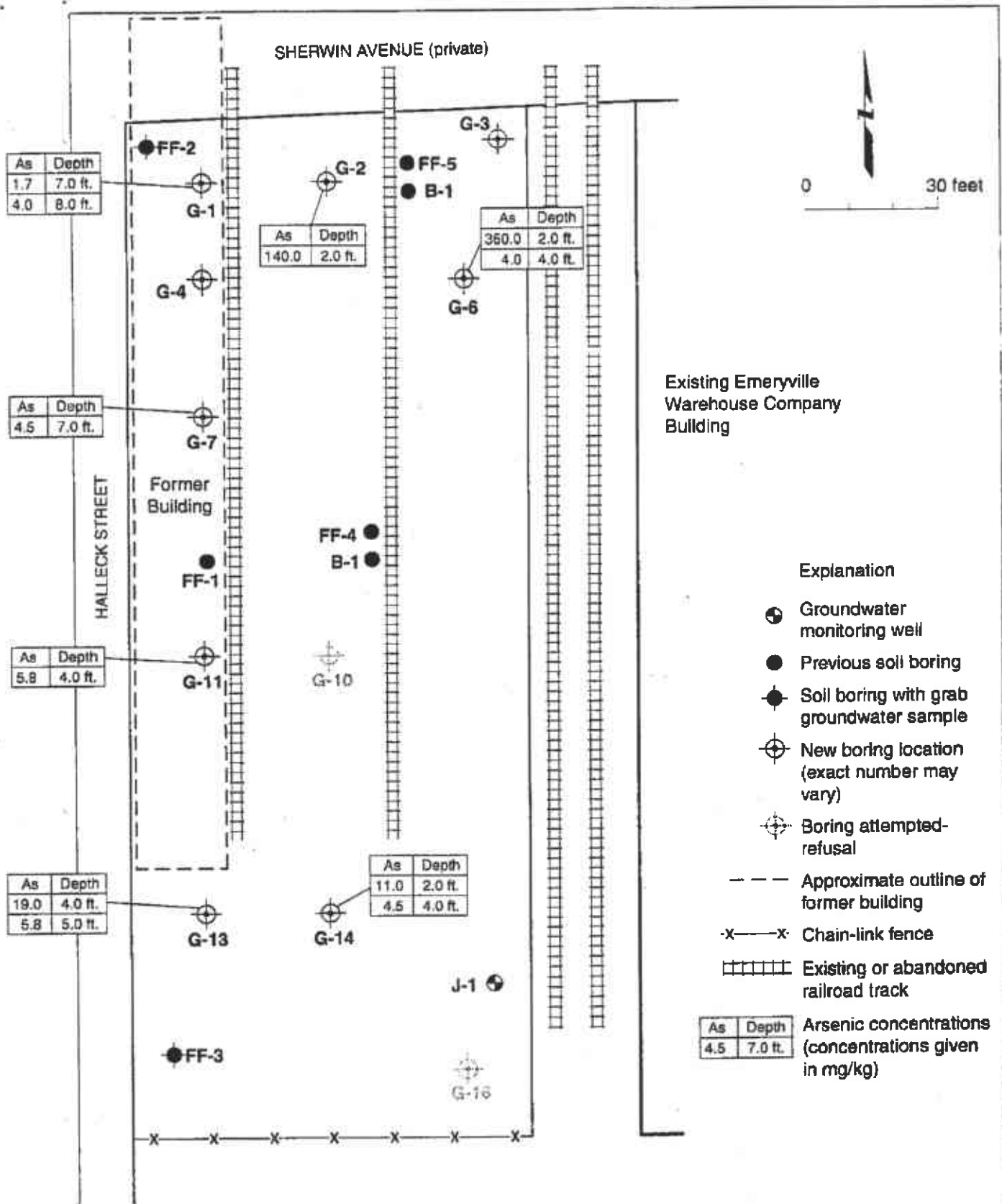
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RSC

DATE
 12/90

REVISED DATE

REVISED DATE

SF 031948



PREVIOUS AND CURRENT BORING LOCATIONS
Emeryville Warehouse
Emeryville, California

Figure
2

Project No.
3095.04



DRAFT

TABLE 1

SUMMARY OF ANALYTICAL RESULTS FOR SOIL
 4226 Halleck Street
 Emeryville, California

Concentrations in milligrams per kilogram (mg/kg)

Sample Number	Arsenic	Barium	Cadmium	Copper	Lead	Zinc
G-1-7	1.7	96	0.3	16	5	30
G-1-8	4	140	0.5	40	12	150
G-11-4	5.8	200	0.7	22	7	55
G-13-4	19	240	4.1	130	450	670
G-13-5	5.8	230	0.7	20	7	45
G-14-2	.11	110	0.9	64	11	290
G-14-4	4.5	180	0.5	19	6	43
G-2-2	140	2400	6	3000	200	10,000
G-6-2	360	910	2	1700	450	6900
G-6-4	4	300	0.9	20	6	42
G-7-7	4.5	81	0.3	15	5	28