



ENVIRONMENTAL HEALTH SERVICES

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

REMEDIAL ACTION COMPLETION CERTIFICATION

January 22, 1999

Mr. Jack Crinnion
1717 Doolittle Drive
San Leandro, CA 94577

RE: Scott Company, 1919 Market Street, Oakland, CA 94607

Dear Mr. Crinnion:

This letter confirms the completion of a site investigation and remedial action for the underground storage 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 storage tanks are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e) of Title 23 of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung
Director of Environmental Health Services

cc: Chief, Hazardous Materials Division - files
Larry Seto, ACDEH
Chuck Headlee, RWQCB
Dave Deaner, SWRCB (w/ Case Closure Summary)
Leroy Griffin, Oakland Fire

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

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

January 15, 1999

Mr. Jack Crinnion
1717 Doolittle Drive
San Leandro, CA 94577
STID 3602

Re: 1919 Market Street, Oakland, CA 94607

Dear Mr. Crinnion:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with 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 Environmental Protection Division is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

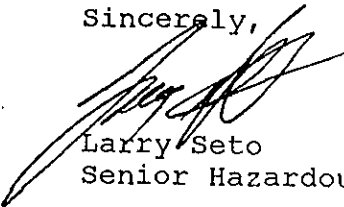
SITE INVESTIGATION AND CLEANUP SUMMARY

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

- Groundwater samples from the most recent sampling (5-7-98) contained 1,700 ppb TPH(gas), 8.8 ppb benzene, 22 ppb xylene, and 9.9 ppb ethylbenzene.
- Over-excavation was not performed on-site, and up to 430 ppm TPH(gas, 1,100 ppm TPH(diesel) and 61 ppm TPH (motor oil)
- Site should be included in the City of Oakland Permit Tracking system
- Corrective action should be reviewed if land use changes

If you have any questions, please contact me at (510)567-6774. Thank you.

Sincerely,



Larry Seto
Senior Hazardous Materials Specialist

Cc: Larry Seto, Environmental Health
Leroy Griffin, Oakland Fire
Files

Enclosures:

1. Case Closure Letter
2. Case Closure Summary

Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown, most likely spill or failure of the integrity of the underground tank system

Monitoring Wells installed? Yes Number: 5

Site characterization complete? Yes

Date approved by oversight agency:

Proper screened interval? Yes

Highest GW depth below ground surface: 11.3' Lowest depth: 15.0'

Flow direction: Northwest, very flat gradient

Most sensitive current use:

Are drinking water wells affected? No Aquifer Name: NA

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

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

Report(s) on file? Yes Where is report(s) filed? **Alameda County
1131 Harbor Bay Pkwy.
Alameda, CA 94502**

Leaking Underground Fuel Storage Tank Program

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment or Disposal /destination)</u>	<u>Date</u>
Underground tank	~10,000 gallons	Disposal site unknown	Early 1980's
Underground tank	~10,000 gallons	Disposal site unknown	Early 1980's

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant	Soil (ppm)		Water (ppb)	
	Before ¹	After ³	Before ²	After ⁴
TPH(gas)	2.5	430	2,800	1,700
TPH(diesel)	NA	1,100	ND	ND
TPH(motor oil)	ND	61	ND	NA
Benzene	ND	<0.05	120	8.8
Toluene	0.016	<0.05	150	ND
Xylene	0.10	<0.05	340	22
Ethylbenzene	0.03	<0.005	7.5	9.9
Total Oil & Grease	ND	NA	NA	NA
MTBE	NA	NA	NA	ND

ND - Non-Detect

NA - Not Analyzed

- 1- Sample collected on 6/22/92, (boring IB-4)
- 2- Samples collected during 1st sampling of monitoring wells on 8-6-92
- 3- Sample collected on 7/30/92 from boring MW-1.2, (Over-excavation was not performed on-site)
- 4- Sample collected on 5-7-98 from MW-4

Leaking Underground Fuel Storage Tank Program

Comments (Depth of Remediation, etc.): See "Additional Comments" section.

IV. CLOSURE

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

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

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

Site management requirements: Site to be included in City of Oakland Permit Tracking system

Should corrective action be reviewed if land use changes? Yes

List enforcement actions taken: None

List enforcement actions rescinded: None

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Larry Seto Title: Senior HMS
Signature:  Date: 10-16-98

Reviewed by:
Name: Barney Chan Title: Hazardous Materials Specialist
Signature:  Date: 10/20/98

Name: Thomas Peacock Title: Supervising HMS
Signature:  Date: 11-2-98

VI. RWQCB NOTIFICATION

Date Submitted to RB: RB Response:

RWQCB Staff Name: Chuck Headlee Title: Engineering Geologist
Date:

Leaking Underground Fuel Storage Tank Program

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site is located in a commercial and residential area of west Oakland. Historical information indicates that two large (possibly 10,000 gallon) underground tanks (UGTs) were located in the Myrtle Street sidewalk. These UGTs were apparently used to store #1 diesel (kerosene) by Greyhound Bus Lines which operated a bus maintenance facility at the site prior to the 1960's. Scott Company has occupied the site since the early 1960's and apparently used the southwest UST to store gasoline. Scott Company removed the Myrtle Street USTs in the early 1980's when Myrtle Street was repaved.

On June 19 & 22, 1992, five soil borings (IB-1 through IB-5) were drilled as part of a property transfer environmental assessment. Three borings were inside the Scott Company building (IB-1, IB-2 and IB-5) and two borings (IB-3 and IB-4) located outside near the west side of the Scott building (see figure2). The soil borings were drilled to total depths ranging from 11.5' to 16.5' below ground surface (bgs). Representative soil samples were collected from the five borings at approximately 5 foot intervals. Two soil samples were collected from each of the borings and a third samples was collected from boring IB-4 at a depth of 15.0 feet bgs (see table 1). No hydrocarbon odors or stains were noted in any of the borings except for boring IB-4, which had 0.5" layer of free-phase hydrocarbons floating on the water. See Table 1 for a summary of these soil results. IB-4 is located near the former dispenser, which may be the source of the contamination in this area.

Five monitoring wells (MW-1 through MW-5) were drilled and installed on July 30, 1992. (See Figure 3) The well borings were drilled to total depths ranging from 22 feet to 25 feet below ground surface (bgs). Representative soil samples were collected from the five borings at approximately 5 foot intervals. A total of 13 soil samples and 5 water samples were collected during the installation of the five monitoring wells. The samples were analyzed for total petroleum hydrocarbons as gasoline, motor oil, diesel, and BTEX. Soil samples contained up to 430 ppm TPH(g), 1,200 ppm TPH(d), and 61 ppm TPH(motor oil). The soil samples were from MW-1 and MW-2, immediately downgradient of the former underground tanks. Groundwater samples contained up to 2,800 ppb TPH(g), 120 ppb benzene, 150 ppb toluene, 340 ppb xylenes and 7.5 ppb ethylbenzene. See Table 2 for a summary of these soil results.

On November 25, 1992, four additional soil borings (IB-1 through IB-4) were advanced to depths of approximately 11 feet bgs to define the lateral extent of hydrocarbon migration. (See Figure 4) Representative soil samples from the four borings were collected at depths of six and eleven feet bgs and analyzed for TPH(g), TPH(d), TPH(motor oil) and BTEX. (See Table 3) In borings IB-1 and IB-2, the hydrocarbon staining was observed from a depth of approximately 6 to 11 feet bgs. In boring IB-3, the staining was only slight, occurring from 7 to 11 feet in depth. The greatest vertical extent of hydrocarbon staining was observed in boring IB-4, between 3 and 11 feet bgs. The soil samples contained up to 87 ppm TPH(g) and 300 ppm TPH(d).

On June 17 and 25, 1993, four additional soil borings (IB-5 through IB-8) were advanced on and off-site. (See Figure 6) The goal was to assess vadose zone soils further downgradient (northwest) from previous soil boring locations, and to investigate soils beneath the building directly up gradient from the former underground storage tanks. Representative soil samples were collected and analyzed for TPH(g), TPH(d), TPH (motor oil) and BTEX. (See Table 4) Soil samples from the two downgradient soil borings (IB-5 and IB-6) show no detectable levels of hydrocarbons. Thus, it appears the migration of hydrocarbons in vadose zone soils has been very

Leaking Underground Fuel Storage Tank Program

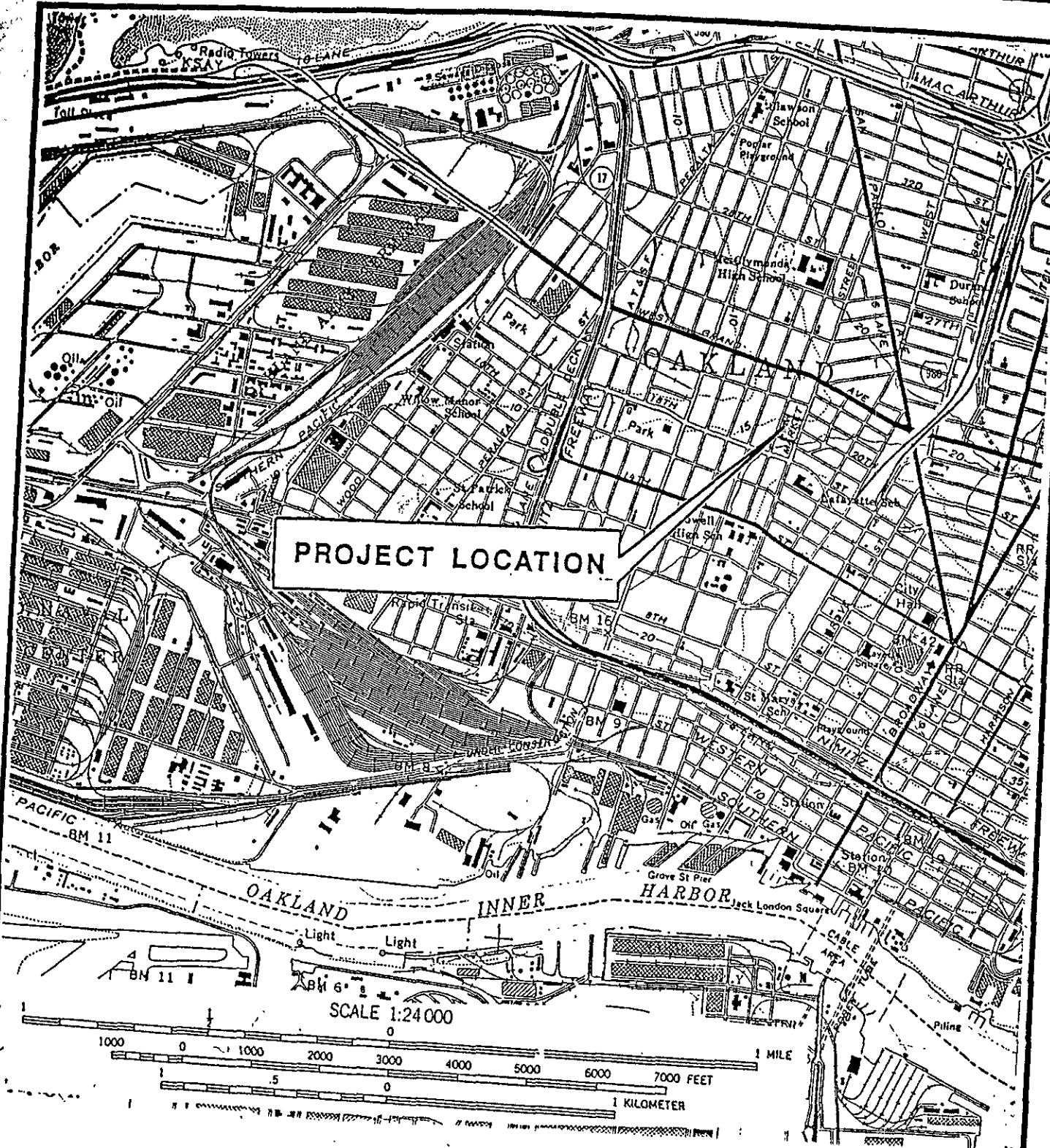
limited, and has not migrated beyond Myrtle Street in a downgradient (northwest) direction. Elevated levels of TPH(g) 560 ppm and 160 ppm were encountered in borings IB-7 and IB-8 respectively located upgradient from the former underground storage tanks. No BT or E was exhibited in these borings.

Monitoring well MW-4 could not be sampled on 6-11-93 and 1-13-94 because it contained approximately 0.5 " and 0.25" of free product respectively. On September 17, 1996, eight feet of four inch Oxygen Releasing Compound (ORC) filter socks were placed in MW-4 and MW-5 (well located upgradient from MW-4). The ORC was removed on 6-6-97. The most recent groundwater monitoring results indicate that the small amounts of free product in MW-4 in the past have been adequately remediated, and no longer pose a risk at the site. During the three recent post-ORC monitoring events, no free product has been encountered in MW-4.

MW-1, MW-3 and MW-5 were monitored from 8/92 to 1/95. MW-2 was monitored from 8/92 to 10/97. MW-4 was monitored from 8/92 to 5/98. See Table 5 for a summary of the historical results from groundwater monitoring at this site. In addition, the boring logs for MW-1 through MW-5, and the other borings are attached.


In summary, this office is recommending that this case be closed for the following reasons:

1. The leak has been stopped and ongoing sources, removed or remediated
2. The site has been adequately characterized
3. Little or no groundwater impact currently exist
4. No water wells, deeper drinking water aquifers, surface water or other sensitive receptors are likely to be impacted
5. The site presents no significant risk to human health given the absence of benzene in soil, and the low levels of benzene found in the groundwater

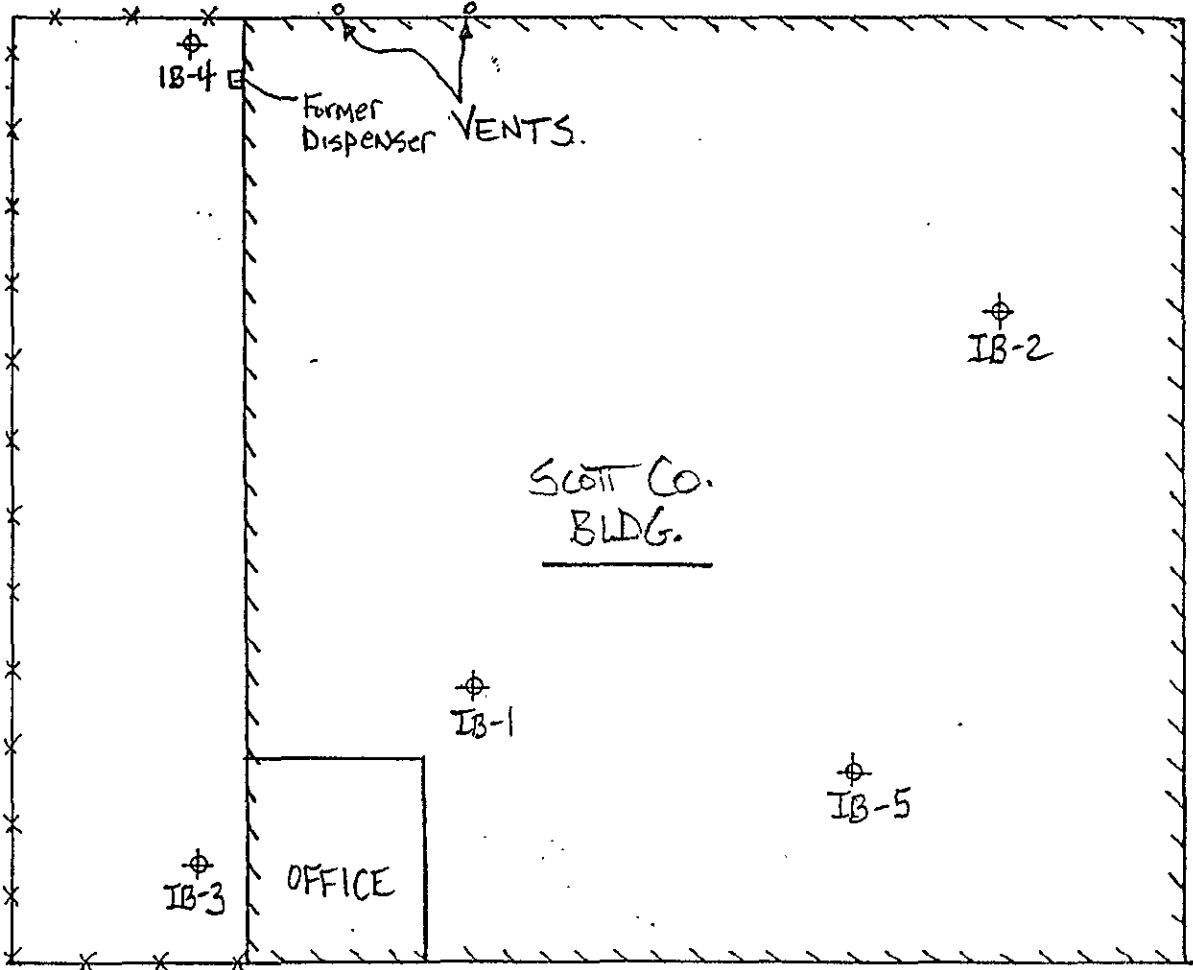


PROJECT LOCATION

ADAPTED FROM USGS 7.5-MINUTE OAKLAND WEST QUADRANGLE MAP

DESIGNED BY:	CHECKED BY:	FIGURE 1 SITE VICINITY MAP CWEC 20511-006-02	DATE:	FIGURE:
DRAWN BY:	SCALE:		CENTURY WEST  ENGINEERING	
DWG. NO.:				

Former USTS MYRTLE ST




SCOTT CO.
BLDG.

MARKET ST.



DESIGNED BY:	CHECKED BY:
DRAWN BY:	SCALE:
DWG. NO.:	

FIGURE 2
SITE PLAN

DATE:	FIGURE:
CENTURY WEST  ENGINEERING	

SIDEWALK

MYRTLE STREET

MW-1
(+4.53)

MW-2
(+4.53)

MW-3
(+4.52)

SIDEWALK

(+4.55)

MW-4
(+4.57)

LOCATION OF FORMER
FUEL DISPENSER (REMOVED)

ESTIMATED LOCATION OF
FORMER UST'S (REMOVED)

(+4.58)

MW-5

FORMER SCOTT COMPANY
BUILDING

FENCE



DESIGNED BY:

CHECKED BY:

GROUNDWATER ELEVATIONS
10/22/97

DATE: 11/11/97

FIGURE: 3

DRAWN BY: JG

SCALE:

FORMER SCOTT COMPANY SITE
OAKLAND, CALIFORNIA

PROJECT NO: 110-01-01

GRIBI Associates

contained in Appendix B.

Table 1 SUMMARY OF SOIL ANALYTICAL RESULTS 6/19 + 6/22/92									
Sample ID	Sample Depth	Concentration (ppm)							
		TPH-G	TPH-D	TPH-MO	B	T	X	E	TOG
Soil Samples									
IB-1	5.0 ft	ND ¹	ND	ND	ND	ND	ND	ND	ND
	10.5 ft	ND	ND	ND	ND	ND	ND	ND	ND
IB-2	5.0 ft	ND	ND	ND	ND	ND	ND	ND	ND
	10.5 ft	ND	ND	ND	ND	ND	ND	ND	ND
IB-3	5.0 ft	ND	ND	ND	ND	ND	ND	ND	ND
	10.5 ft	ND	ND	ND	ND	ND	ND	ND	ND
IB-4	5.0 ft	ND	ND	ND	ND	ND	ND	ND	ND
	10.5 ft	ND	ND	ND	ND	ND	ND	ND	ND
	15.0 ft	2.5	-- ²	--	ND	0.016	0.10	0.030	--
IB-5	5.0 ft	ND	ND	ND	ND	ND	ND	ND	ND
	10.5 ft	ND	ND	ND	ND	ND	ND	ND	ND
Detection Limit		0.50	10	10	0.0050	0.0050	0.0050	0.0050	50

¹ - Not detected.

² - Not analyzed.

Results of the Investigation

Based on the laboratory results and on field observations, we conclude the following:

1. Results from the shallow borings (IB-1, IB-2, IB-3, and IB-5) indicate that soils beneath the Scott Company facility at 1919 Market Street have not been impacted petroleum hydrocarbons. Thus, the former use of the site as a Greyhound bus maintenance facility (as reported by several longtime Scott employees) does not appear to have impacted shallow soils at the site.

Table 2
SUMMARY OF SOIL ANALYTICAL RESULTS
1919 Market Street Remedial Investigation

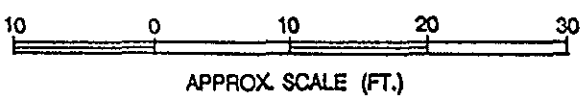
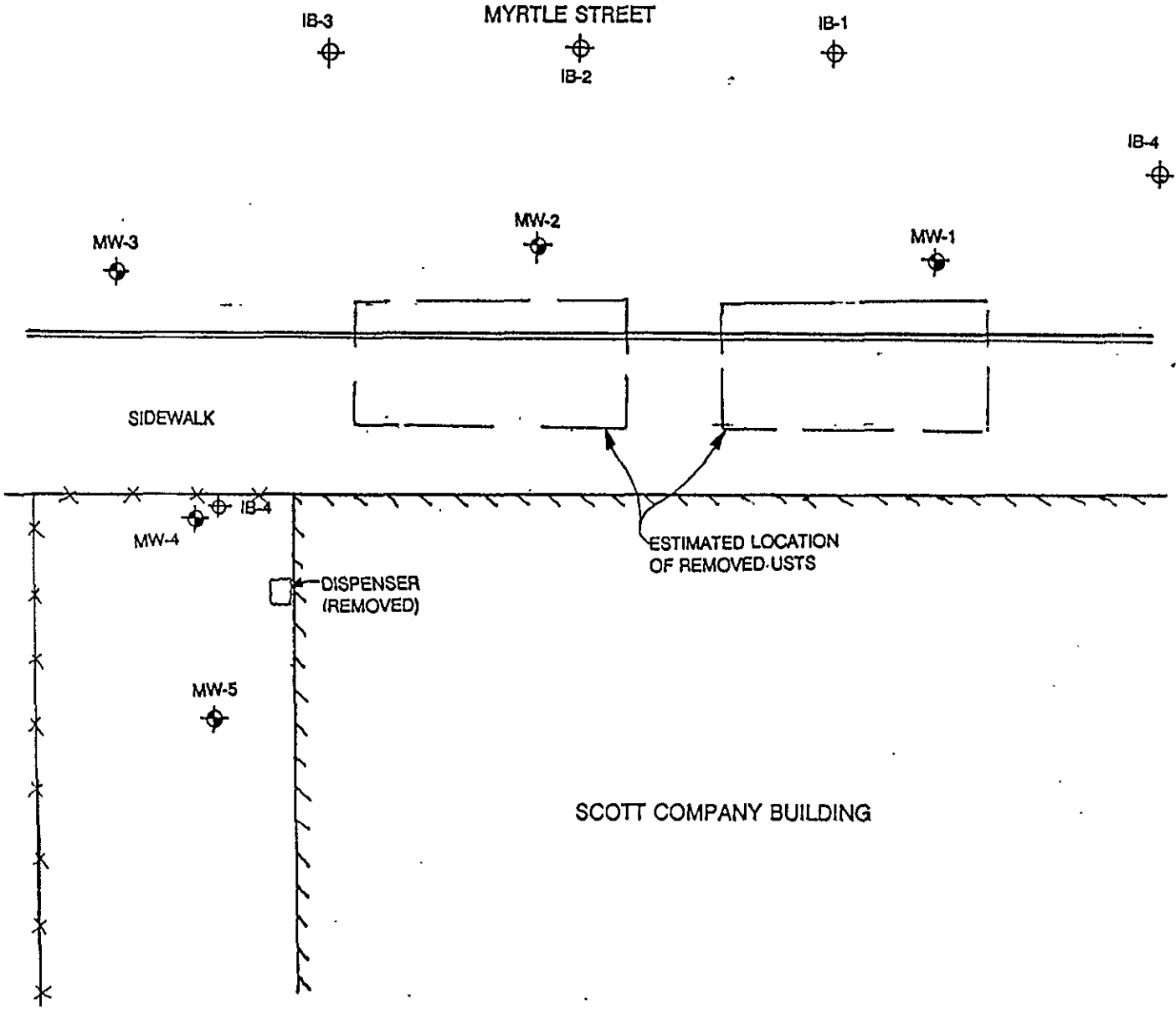
Sample ID	Sample Depth	Concentration (ppm)							
		TPH-gas	TPH-diesel	TPH-motor oil	Benzene	Toluene	Xylenes	Ethylbenzene	PID
MW-1	5.0 ft	40 ¹	140	ND(10) ²	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	35 ³
	10.5 ft	430 ¹	1100	61	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	120
	13.0 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	8
MW-2	5.5 ft	120 ¹	180	ND(10)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	22
	10.5 ft	310 ¹	1200	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	210
	15.5 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	5
MW-3	5.5 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	3
	10.5 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	3
	15.5 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	1
MW-4	8.0 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0
	12.5 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0
MW-5	8.0 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0
	14.5 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0
Detection Limit		0.50	10	10	0.0050	0.0050	0.0050	0.0050	--

¹ - The WEST laboratory report states that "the product is not typical gasoline."

² - Not detected above the levels indicated in the parentheses.

³ - The photoionization detector (PID) was calibrated using a 100-ppm isobutylene standard. PID values are qualitative only and should be used only for comparison.

11/25/92




DESIGNED BY:	CHECKED BY:	FIGURE 4 SITE PLAN CWEC 20511-006-02	DATE:	FIGURE:
DRAWN BY:	SCALE:		CENTURY WEST  ENGINEERING	
DWG. NO.:				

Table 3
SUMMARY OF SOIL ANALYTICAL RESULTS
 Soil Boring Investigation - 11/25/92
 1919 Market Street UST Site

Sample ID	Sample Depth	Concentration (ppm)							
		TPH-gas	TPH-diesel	TPH-motor oil	Benzene	Toluene	Xylenes	Ethylbenzene	PID
IB-1	6.0 ft	2.8 ¹	ND(10) ²	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0 ³
	6.0 ft ⁴	--	14	ND(10)	--	--	--	--	12
	11.0 ft	87 ¹	300	ND(20) ⁵	ND(0.005)	ND(0.005)	0.030	ND(0.005)	--
IB-2	6.0 ft	ND(0.50)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0
	11.0 ft	23 ¹	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	28
	11.0 ft ⁴	--	12	ND(10)	--	--	--	--	--
IB-3	6.0 ft	ND(0.5)	ND(10)	13	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0
	11.0 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	5
IB-4	6.0 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0
	11.5 ft	13 ¹	170	27	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	16

¹ - The WEST laboratory report states: "Product is not typical gasoline."

² - Not detected above the levels indicated in the parentheses.

³ - The photoionization detector (PID) was calibrated using a 100-ppm isobutylene standard. PID values are qualitative only and should be used only for comparison.

⁴ - Duplicate analysis for TPH-diesel/motor oil.

⁵ - WEST laboratory report states: "Increased reporting limit due to diesel interference."

Table 4
SUMMARY OF SOIL ANALYTICAL RESULTS
 Soil Boring Investigation - 11/25/92
 1919 Market Street UST Site

Sample ID	Sample Depth	Concentration (ppm)						
		TPH-gas	TPH-diesel	TPH-motor oil	Benzene	Toluene	Xylenes	Ethylbenzene
IB-5	7.0 ft	ND(1) ¹	ND(1)	ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)
	11.5 ft	ND(1)	ND(1)	ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)
IB-6	7.0 ft	ND(1)	ND(1)	ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)
	11.5 ft	ND(1)	ND(1)	ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)
IB-7	5.0 ft	ND(1)	ND(1)	ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)
	10.0 ft	560 ²	44	ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)
IB-8	5.0 ft	ND(1)	ND(1)	11	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)
	10.0 ft	160	76	ND(10)	ND(.0025)	ND(.0025)	1,100	ND(.0025)

¹ - Not detected above the levels indicated in the parentheses.

² - NET Pacific laboratory report indicates, "not gas like".

DEPTH	TPH-G	TPH-D/MO
7.0	<0.5	<1/<10
11.5	<0.5	<1/<10

DEPTH	TPH-G	TPH-D
6.0 R	<0.5	<10
11.0 R	21	12

DEPTH	TPH-G	TPH-D/MO
6.0 R	<0.5	<0.5/13
11.0 R	<0.5	<10

DEPTH	TPH-G	TPH-D/MO
7.0 R	<0.5	<1/<10
11.5 R	<0.5	<1/<10

DEPTH	TPH-G	TPH-D
5.5 R	<0.5	<10
10.5 R	<0.5	<10
15.5 R	<0.5	<10

DEPTH	TPH-G	TPH-D
5.5 R	<0.5	<10
10.5 R	310	1,200
15.5 R	<0.5	<10

DEPTH	TPH-G	TPH-D
5.0 R	40	140
10.5 R	430	1,100
13.0 R	<0.5	<10

DEPTH	TPH-G	TPH-D
6.0 R	28	14
11.0 R	87	300

DEPTH	TPH-G	TPH-D/MO
6.0 R	<0.5	<0.5
11.0 R	13	170/27

DEPTH	TPH-G	TPH-D
5.0 R	<0.5	<10
10.5 R	<0.5	<10
15.0 R	2.5	-

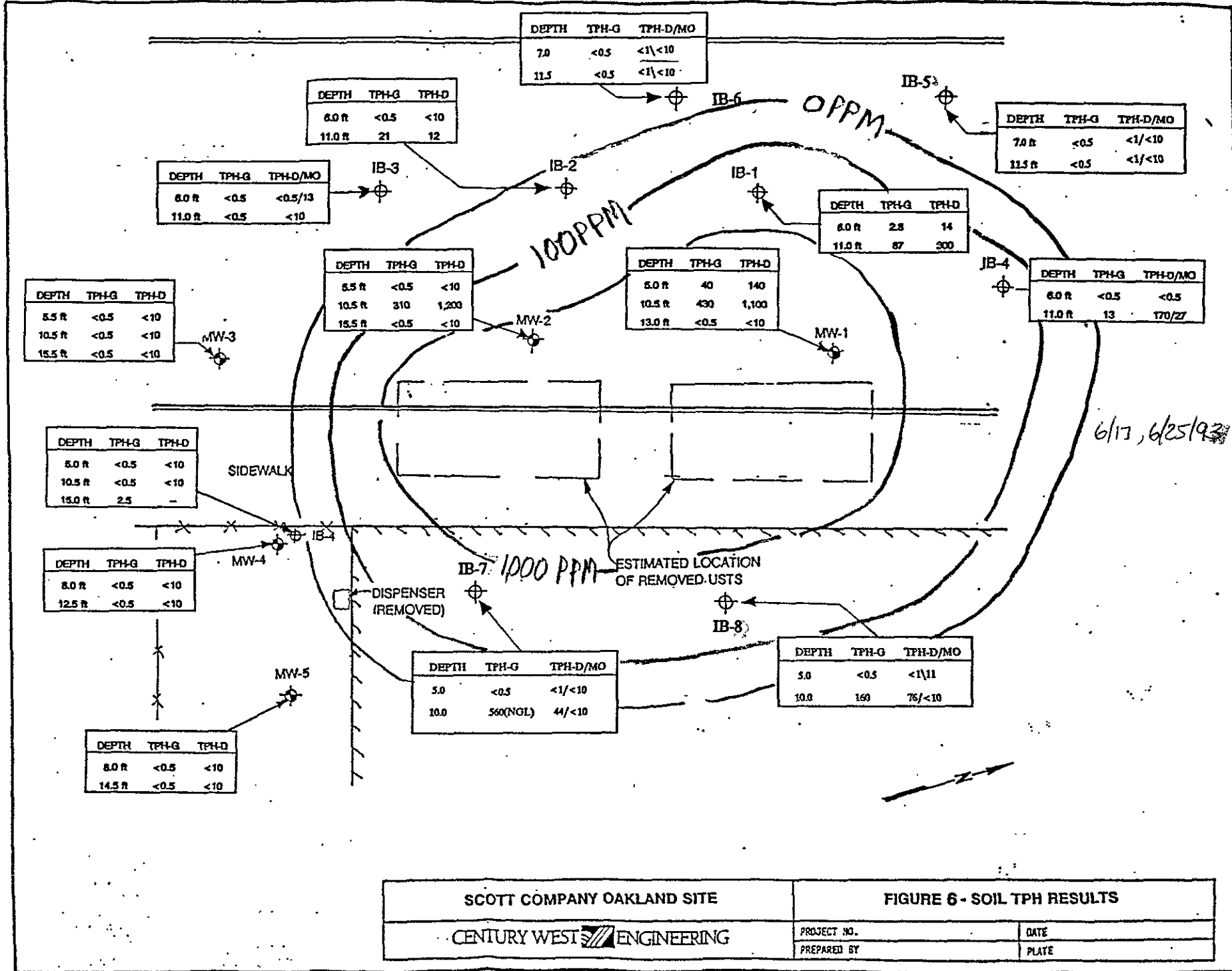
DEPTH	TPH-G	TPH-D
8.0 R	<0.5	<10
12.5 R	<0.5	<10

DEPTH	TPH-G	TPH-D/MO
5.0	<0.5	<1/<10
10.0	560(NGL)	44/<10

DEPTH	TPH-G	TPH-D/MO
5.0	<0.5	<1/11
10.0	160	75/<10

DEPTH	TPH-G	TPH-D
8.0 R	<0.5	<10
14.5 R	<0.5	<10

SCOTT COMPANY OAKLAND SITE		FIGURE 6 - SOIL TPH RESULTS	
CENTURY WEST ENGINEERING		PROJECT NO.	DATE
		PREPARED BY	PLATE



Hydrocarbon Impacts to Groundwater

Current and previous groundwater laboratory analytical results are summarized in Table 2. These results clearly indicate only minor gasoline impact to groundwater in MW-4, with no significant impacts in downgradient wells MW-1, MW-2, and MW-3. Furthermore, concentrations of gasoline constituents in MW-4 in May 1998 were lower than during previous monitorings, indicating that the addition of ORC in MW-4 and MW-5 in 1996 and 1997 was effective in promoting biodegradation of residual gasoline constituents.

Table 5
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
 1919 Market Street UST Site

Sample ID	Sample Date	GW Elevation	Concentration (ppm)						
			TPH-G	TPH-D	TPH-MO	B	T	X	E
MW-1	08/07/92	4.06	<0.050 ²	<0.050	<0.050	<0.0005	<0.0005	<0.0005	<0.0005
<16.34>	12/03/92	3.89	<0.050	<0.050	<0.050	<0.0005	0.014 ²	0.0025	0.0018
	06/15/93	5.06	<0.050	<0.050	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	01/28/94	5.05	<0.050	<0.050	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	01/10/95	7.84	<0.050	0.06 ²	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	06/12/97	4.93	--	--	--	--	--	--	--
	10/22/97	4.52	--	--	--	--	--	--	--
	05/07/98	5.96	--	--	--	--	--	--	--
MW-2	08/07/92	4.11	<0.050	<0.050	<0.050	<0.0005	<0.0005	<0.0005	<0.0005
<16.78>	12/03/92	3.90	<0.050	<0.050	<0.050	<0.0005	0.014	0.0025	0.0019
	06/15/93	5.08	<0.050	<0.050	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	01/13/94	-- ³	<0.050	0.14 ²	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	01/10/95	7.69	<0.050	0.06 ²	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	06/12/97	5.20	<0.050	<0.050	--	<0.0005	<0.0005	<0.0005	<0.0005
	10/22/97	4.53	<0.050	<0.050	--	<0.0005	<0.0005	<0.0005	<0.0005
	05/07/98	6.47	--	--	--	--	--	--	--
MW-3	08/07/92	4.11	<0.050	<0.050	<0.050	<0.0005	<0.0005	<0.0005	<0.0005
<17.04>	12/03/92	3.93	<0.050	<0.050	<0.050	<0.0005	0.016	0.0035	0.0024
	06/15/93	5.09	<0.050	<0.050	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	01/28/94	5.01	<0.050	<0.050	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	01/10/95	7.66	<0.050	<0.050	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	06/12/97	4.96	--	--	--	--	--	--	--
	10/22/97	4.53	--	--	--	--	--	--	--
	05/07/98	7.11	--	--	--	--	--	--	--

Table 5
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
 1919 Market Street UST Site

Sample ID	Sample Date	GWL Elevation	Concentration (ppm)						
			TPH-G	TPH-D	TPH-MO	B	T	X	E
MW-4	08/07/92	4.14	2.8	<0.050	<0.050	0.020	0.150	0.340	0.0075
<18.20>	12/03/92	3.96	0.22	<0.050	<0.050	0.013	0.036	0.031	0.0082
	06/11/93	(4.96)	-- ⁷	--	--	--	--	--	--
	01/13/94	(4.96)	-- ⁸	--	--	--	--	--	--
	01/10/95	7.69	3.0	0.75 ⁹	<0.5	0.025	0.052	0.230	0.043
	06/12/97	(4.97) ¹⁰	5.4	0.39 ¹¹	--	0.0052	0.0052	0.130	0.030
	10/22/97	4.57	7.7	<0.30 ¹²	--	0.017	0.018	0.300	0.110
	05/07/98	6.51	1.7	<0.30	--	0.0088	<0.0005	0.022	0.0099
MW-5	08/07/92	4.17	<0.050	<0.050	<0.050	<0.0005	<0.0005	<0.0005	<0.0005
<18.93>	12/03/92	3.95	0.072	<0.050	<0.050	<0.0005	0.033	0.0042	0.0035
	06/11/93	5.14	<0.050	0.10 ¹³	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	01/28/94	5.04	<0.050	<0.050	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	01/10/95	7.69	<0.050	<0.050	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	06/12/97	(4.95) ¹⁰	--	--	--	--	--	--	--
	10/22/97	4.58	--	--	--	--	--	--	--
	05/07/98	6.57	--	--	--	--	--	--	--

- 1 - Groundwater table mean sea level elevation, as measured from top of casing (top of casing surveyed mean sea level elevations for each well are shown in brackets below each well number).
- 2 - Not detected above the expressed value.
- 3 - Low levels of toluene, xylenes, and ethylbenzene in 12/03/92 samples are due to sampling equipment contamination.
- 4 - Laboratory report states: "The positive result appears to be a heavier hydrocarbon than Diesel."
- 5 - Access to monitoring well temporarily blocked by unoccupied vehicle.
- 6 - Laboratory report states; "The positive result has an atypical pattern for Diesel analysis."
- 7 - Well not sampled due to presence of approximately 1/2-inch of free product was observed in well.
- 8 - Well not sampled due to presence of approximately 1/4-inch of free product was observed in well.
- 9 - Laboratory report states: "The positive result appears to be a lighter hydrocarbon than Diesel."
- 10 - ORC removed from well one week previously may affect water levels.
- 11 - Laboratory report states: "Not typical diesel."
- 12 - Laboratory report states: "Increased reporting limit due to gasoline range interference."
- 13 - Laboratory report states; "The positive result for the PETROLEUM HYDROCARBONS as Diesel analysis on this sample does not appear to have typical Diesel pattern."

In addition, recent laboratory analytical results for wells MW-2 and MW-4 have shown no detectable levels of MTBE.

SOIL BORING LOG MW-1

Century West Engineering

Site Location: 1919 Market St., Oakland, Ca.	Boring ID: MW-1	Total Depth: 22 ft
Boring Location: Myrtle St. downgradient from E UST.	Elevation: 16.34 (TOC)	Initial GW Depth: 13 ft
Purpose: Ground water monitoring	Logged By: Jim Gribi	Final GW Depth:
Date: July 30, 1992	Blank Casing: 4-Inch Sch 40	From: 0 (TOC) To: 7.25 ft
Consulting Firm: Century West Engineering	Perforations: 0.020 inch	From: 7.25 ft To: 21.68 ft
Project Number: 20511-006-02	Filter Sand: Lonestar	From: 22 ft To: 6 ft
Drilling Contractor: Kvilhaug Well Drilling	Bentonite: Hydrated pellets	From: 6 ft To: 5 ft
Drilling Method: Hollow stem auger	Grout: Cement slurry (bent. <5%)	From: 5 ft To: 0.5 ft

Depth	Sample ID	Blow Counts	Profile	Soil Description	Remarks
<u>01</u>				0.0 - 1.0 ft Asphalt and base rock.	PID Reading
<u>02</u>				1.0 - 3.0 ft Grey clayey SILT, hard, moist, no hydrocarbon odor or stain.	
<u>03</u>					
<u>04</u>					
<u>05</u>					
<u>06</u>	MW-1.1	7		3.0 - 8.0 ft Grey green clayey SILT, sandy, hard, slightly friable, moist, moderate hydrocarbon odor.	35
<u>07</u>		9			
<u>08</u>		13		8.0 - 11.0 ft Greenish grey silty CLAY, firm, hard, moist, faint to moderate hydrocarbon odor.	
<u>09</u>					120
<u>10</u>				11.0 - 12.5 ft Grey green silty SAND, fine to medium, slightly clayey, moist to wet, faint hydrocarbon odor.	
<u>11</u>	MW-1.2	10			8
<u>12</u>		18			
<u>13</u>	MW-1.3	28	▽		
<u>14</u>		38			Final Auger Depth - 22 feet Ground Water Depth - 13 feet
<u>15</u>					
<u>16</u>				12.5 - 22.0 ft Reddish brown SAND, medium to fine, slightly silty, friable, water saturated, no hydrocarbon odor or stain.	
<u>17</u>					
<u>18</u>					
<u>19</u>					
<u>20</u>					
<u>21</u>					
<u>22</u>					
<u>23</u>					
<u>24</u>					
<u>25</u>					

SOIL BORING LOG MW-2

Century West Engineering

Site Location: 1919 Market St., Oakland, Ca.	Boring ID: MW-2	Total Depth: 22 ft
Boring Location: Myrtle St. downgradient from W UST.	Elevation: 16.78 (TOC)	Initial GW Depth: 13 ft
Purpose: Ground water monitoring	Logged By: Jim Gribi	Final GW Depth:
Date: July 30, 1992	Blank Casing: 4-inch Sch 40	From: 0 (TOC) To: 6.98 ft
Consulting Firm: Century West Engineering	Perforations: 0.020 inch	From: 6.98 ft To: 21.58 ft
Project Number: 20511-006-02	Filter Sand: Lonestar	From: 22 ft To: 6 ft
Drilling Contractor: Kvilhaug Well Drilling	Bentonite: Hydrated pellets	From: 6 ft To: 5 ft
Drilling Method: Hollow stem auger	Grout: Cement slurry (bent. <5%)	From: 5 ft To: 0.5 ft

Depth	Sample ID	Blow Counts	Profile	Soil Description	Remarks
<u>01</u>				0.0 - 1.0 ft Asphalt and base rock.	PID Reading
<u>02</u>				1.0 - 3.0 ft Grey clayey SILT, firm, slightly sandy, moist, slight hydrocarbon odor.	
<u>03</u>					
<u>04</u>					
<u>05</u>					
<u>06</u>	MW-2.1	6 7 14		3.0 - 10.0 ft Grey green clayey SILT, slightly sandy, soft to firm, moist, moderate hydrocarbon odor.	22
<u>07</u>					
<u>08</u>					
<u>09</u>					
<u>10</u>					
<u>11</u>	MW-2.2	7 9 26		10.0 - 12.5 ft Grey green silty clayey SAND, fine to coarse, few pebbles, friable, wet, fair hydrocarbon odor.	210
<u>12</u>					
<u>13</u>	MW-2.3	9 14 26	▽		5
<u>14</u>					
<u>15</u>					
<u>16</u>				12.5 - 22.0 ft Reddish brown to occasionally grey SAND, medium to fine, slightly silty, water saturated, no hydrocarbon odor or stain.	
<u>17</u>					
<u>18</u>					
<u>19</u>					
<u>20</u>					
<u>21</u>					
<u>22</u>				Final Auger Depth - 22 feet	
<u>23</u>				Ground Water Depth - 13 feet	
<u>24</u>					
<u>25</u>					

SOIL BORING LOG MW-3

Century West Engineering

Site Location: 1919 Market St., Oakland, Ca.	Boring ID: MW-3	Total Depth: 22 ft
Boring Location: Myrtle St. downgrad. from USTs & disp.	Elevation: 17.04 (TOC)	Initial GW Depth: 13 ft
Purpose: Ground water monitoring	Logged By: Jim Gribi	Final GW Depth:
Date: July 30, 1992	Blank Casing: 4-inch Sch 40	From: 0 (TOC) To: 7.14 ft
Consulting Firm: Century West Engineering	Perforations: 0.020 inch	From: 7.14 ft To: 21.66 ft
Project Number: 20511-006-02	Filter Sand: Lonestar	From: 22 ft To: 6 ft
Drilling Contractor: Kvilhaug Well Drilling	Bentonite: Hydrated pellets	From: 6 ft To: 5 ft
Drilling Method: Hollow stem auger	Grout: Cement slurry (bent. <5%)	From: 5 ft To: 0.5 ft

Depth	Sample ID	Blow Counts	Profile	Soil Description	Remarks
<u>01</u>			▽	0.0 - 1.0 ft Asphalt and base rock.	PID Reading
<u>02</u>				1.0 - 3.5 ft Brown to grey clayey SILT, firm, moist, no hydrocarbon odor or stain.	
<u>03</u>					
<u>04</u>					
<u>05</u>					
<u>06</u>	MW-3.1	4		3.5 - 8.0 ft Grey green silty CLAY, firm, moist, faint hydrocarbon odor.	3
<u>07</u>		7			
<u>08</u>		14			
<u>09</u>					
<u>10</u>					
<u>11</u>	MW-3.2	3		8.0 - 12.5 ft Grey to occasionally green CLAY, slightly silty, hard, no hydrocarbon odor.	3
<u>12</u>		7			
<u>13</u>		11			
<u>14</u>	MW-3.3	6			1
<u>15</u>		10			
<u>16</u>		11			
<u>17</u>				12.5 - 22.0 ft Reddish brown to tan SAND, fine to medium, silty, slightly clayey, water saturated, no hydrocarbon odor or stain.	
<u>18</u>					
<u>19</u>					
<u>20</u>					
<u>21</u>					
<u>22</u>					
<u>23</u>					
<u>24</u>					
<u>25</u>					

Final Auger Depth - 22 feet
Ground Water Depth - 13 feet

SOIL BORING LOG MW-4

Century West Engineering

Site Location: 1919 Market St., Oakland, Ca.	Boring ID: MW-4	Total Depth: 24 ft
Boring Location: Adjacent to dispenser & IB-4.	Elevation: 18.20 (TOC)	Initial GW Depth: 14 ft
Purpose: Ground water monitoring	Logged By: Jim Gribi	Final GW Depth:
Date: July 30, 1992	Blank Casing: 4-Inch Sch 40	From: 0 (TOC) To: 9.07 ft
Consulting Firm: Century West Engineering	Perforations: 0.020 inch	From: 9.07 ft To: 24.13 ft
Project Number: 20511-006-02	Filter Sand: Lonestar	From: 24 ft To: 7 ft
Drilling Contractor: Kvilhaug Well Drilling	Bentonite: Hydrated pellets	From: 7 ft To: 6 ft
Drilling Method: Hollow stem auger	Grout: Cement slurry (bent. <5%)	From: 6 ft To: 0.5 ft

Depth	Sample ID	Blow Counts	Profile	Soil Description	Remarks
01				0.0 - 0.5 ft Asphalt and base rock.	PID Reading
02				0.5 - 3.0 ft Grey brown silty SAND, fine, moist, slightly clayey, no hydrocarbon odor or stain.	
03					
04				3.0 - 6.0 Grey clayey SILT, slightly sandy, firm, no hydrocarbon odor or stain.	
05					
06					
07					
08					
09	MW-4.1	3 4 8		6.0 - 12.0 ft Grey green silty CLAY, slightly sandy, moist, no hydrocarbon odor to 11 ft, slight hydrocarbon odor from 11 ft.	0
10					
11					
12					
13	MW-4.2	7 11 16			0
14					
15					
16				12.0 - 20.0 ft Grey silty SAND, medium to fine, loose, slightly clayey, wet to saturated, moderate hydrocarbon odor from 12 to 15 ft.	
17					
18					
19					
20					
21				20.0 - 24.0 ft Tan silty SAND, fine, slightly clayey, loose, water saturated, no hydrocarbon odor or stain.	
22					
23					
24					
25				Final Auger Depth - 24 feet Ground Water Depth - 14 feet	

SOIL BORING LOG IB-1

Century West Engineering

Site Location: 1919 Market St., Oakland, Ca.		Boring ID: IB-1		Total Depth: 11.5 ft		
Boring Location: Myrtle St. downgradient from E UST.		Elevation: None		Initial GW Depth: None		
Purpose: Soil Investigation		Logged By: Jim Gribi		Final GW Depth: None		
Date: November 25, 1992		Blank Casing:		From: To:		
Consulting Firm: Century West Engineering		Perforations:		From: To:		
Project Number: 20511-006-02		Filter Sand:		From: To:		
Drilling Contractor: Kvilhaug Well Drilling		Bentonite:		From: To:		
Drilling Method: Hollow stem auger		Grout: Cement slurry (bent. <5%)		From: 11.5 ft To: Surf.		
Depth		Sample ID	Blow Counts	Profile	Soil Description	Remarks
01					0.0 - 1.0 ft Asphalt and base rock.	PID Reading
02					1.0 - 4.0 ft Brown sandy SILT, slightly clayey, slightly moist, no hydrocarbon odor or stain.	
03					4.0 - 5.5 ft Buff to tan sandy SILT, soft, moist, no hydrocarbon odor or stain.	
04						
05						
06	T	IB-1.1	6 9 14		5.5 - 10.0 ft Grey green silty CLAY, slightly sandy, hard, moist, moderate hydrocarbon odor.	0
07	L					
08						
09						
10						
11	T	IB-1.2	6 12 16		10.0 - 11.5 ft Grey green to occasionally brown sandy SILT, dense to occasionally friable, faint to moderate hydrocarbon odor.	12
12	L					
13						
14						
15					FINAL AUGER DEPTH - 11.5 ft NO GROUND WATER ENCOUNTERED	
16						
17						
18						
19						
20						

SOIL BORING LOG IB-2

Century West Engineering

Site Location: 1919 Market St., Oakland, Ca.		Boring ID: IB-2		Total Depth: 11.5 ft		
Boring Location: Myrtle St. downgradient from W UST.		Elevation: None		Initial GW Depth: None		
Purpose: Soil Investigation		Logged By: Jim Gribi		Final GW Depth: None		
Date: November 25, 1992		Blank Casing:		From:	To:	
Consulting Firm: Century West Engineering		Perforations:		From:	To:	
Project Number: 20511-006-02		Filter Sand:		From:	To:	
Drilling Contractor: Kvlihaug Well Drilling		Bentonite:		From:	To:	
Drilling Method: Hollow stem auger		Grout: Cement slurry (bent. <5%)		From: 11.5 ft	To: Surf.	
Depth		Sample ID	Blow Counts	Profile	Soil Description	Remarks
<u>01</u>					0.0 - 1.0 ft Asphalt and base rock.	<u>PID Reading</u>
<u>02</u>						
<u>03</u>					1.0 - 7.0 ft Brown silty SAND, loose to firm, no hydrocarbon odor or stain.	
<u>04</u>						
<u>05</u>						
<u>06</u>	T	IB-2.1	8 8 15		7.0 - 10.5 ft Grey green clayey SILT, firm, dense, faint to moderate hydrocarbon odor.	0
<u>07</u>	⊥					
<u>08</u>						
<u>09</u>						
<u>10</u>						
<u>11</u>	T	IB-2.2	5 8 15		10.5 - 11.5 ft Grey green silty SAND, fine grained, slightly clayey, some dark brown streaks, moderate hydrocarbon odor.	28
<u>12</u>	⊥					
<u>13</u>						
<u>14</u>						
<u>15</u>						
<u>16</u>						
<u>17</u>						
<u>18</u>						
<u>19</u>						
<u>20</u>					FINAL AUGER DEPTH - 11.5 ft NO GROUND WATER ENCOUNTERED	

SOIL BORING LOG IB-3

Century West Engineering

Site Location: 1919 Market St., Oakland, Ca.		Boring ID: IB-3		Total Depth: 11.5 ft			
Boring Location: Myrtle St. downgradient from MW-3.		Elevation: None		Initial GW Depth: None			
Purpose: Soil Investigation		Logged By: Jim Gribi		Final GW Depth: None			
Date: November 25, 1992		Blank Casing:		From: To:			
Consulting Firm: Century West Engineering		Perforations:		From: To:			
Project Number: 20511-006-02		Filter Sand:		From: To:			
Drilling Contractor: Kvilhaug Well Drilling		Bentonite:		From: To:			
Drilling Method: Hollow stem auger		Grout: Cement slurry (bent. <5%)		From: 11.5 ft To: Surf.			
Depth		Sample ID	Blow Counts	Profile	Soil Description	Remarks	
<u>01</u>					0.0 - 1.0 ft Asphalt and base rock.	PiD Reading	
<u>02</u>							
<u>03</u>					1.0 - 7.0 ft Brown sandy SILT, slightly clayey, moist, no hydrocarbon odor or stain.		
<u>04</u>							
<u>05</u>							
<u>06</u>	T	IB-3.1	5 10 12		7.0 - 9.0 ft Brown to grey clayey SILT, slightly sandy, moist, no hydrocarbon odor or stain.	0	
<u>07</u>	L						
<u>08</u>							
<u>09</u>							
<u>10</u>							
<u>11</u>	T	IB-3.2	5 7 12		9.0 - 11.5 ft Brown to occasionally grey green clayey SILT, moist, no hydrocarbon odor or stain.	5	
<u>12</u>	L						
<u>13</u>							
<u>14</u>							
<u>15</u>					FINAL AUGER DEPTH - 11.5 ft NO GROUND WATER ENCOUNTERED		
<u>16</u>							
<u>17</u>							
<u>18</u>							
<u>19</u>							
<u>20</u>							

SOIL BORING LOG IB-4

Century West Engineering

Site Location: 1919 Market St., Oakland, Ca.	Boring ID: IB-4	Total Depth: 11.5 ft
Boring Location: Myrtle St. North from E UST.	Elevation: None	Initial GW Depth: None
Purpose: Soil Investigation	Logged By: Jim Gribi	Final GW Depth: None
Date: November 25, 1992	Blank Casing:	From: To:
Consulting Firm: Century West Engineering	Perforations:	From: To:
Project Number: 20511-006-02	Filter Sand:	From: To:
Drilling Contractor: Kvilhaug Well Drilling	Bentonite:	From: To:
Drilling Method: Hollow stem auger	Grout: Cement slurry (bent. <5%)	From: 11.5 ft To: Surf.

Depth		Sample ID	Blow Counts	Profile	Soil Description	Remarks
01					0.0 - 1.0 ft Asphalt and base rock.	PID Reading
02						
03						
04					1.0 - 3.0 ft Brown sandy SILT, slightly clayey, moist, no hydrocarbon odor or stain.	
05						
06	T	IB-4.1	5 7 12		3.0 - 10.0 ft Grey green clayey SILT, slightly sandy, moist, moderate hydrocarbon odor.	0
07	L					
08						
09						
10						
11	T	IB-4.2	8 9 16		10.0 - 11.5 ft Grey green to brown sandy SILT, slightly clayey, moist, faint to moderate hydrocarbon odor.	16
12	L					
13						
14						
15						
16						
17						
18						
19						
20					FINAL AUGER DEPTH - 11.5 ft NO GROUND WATER ENCOUNTERED	

SOIL BORING LOG IB-5

Century West Engineering

Site Location: 1919 Market St., Oakland, Ca.	Boring ID: IB-5	Total Depth: 12.5 ft
Boring Location: Myrtle St. downgradient from North UST.	Elevation: None	Initial GW Depth: None
Purpose: Soil Investigation	Logged By: Bob Bogar	Final GW Depth: None
Date: June 17, 1993	Blank Casing:	From: To:
Consulting Firm: Century West Engineering	Perforations:	From: To:
Project Number: 20511-006-03	Filter Sand:	From: To:
Drilling Contractor: Kvilhaug Well Drilling	Bentonite:	From: To:
Drilling Method: Hollow stem auger	Grout: Cement slurry (bent. <5%)	From: 12.5 ft To: Surf.

Depth		Sample ID	Blow Counts	Profile	Soil Description	Remarks	
01					0.0 - 1.5 ft Concrete and base rock.		
02					1.5 - 4.0 ft Dark brown loose SILT, slightly clayey, moist, no hydrocarbon odor or stain.		
03							
04					4.0 - 9.0 ft Grey silty CLAY, firm, moist, no hydrocarbon odor or stain.		
05							
06	T	IB-5.1	5 9 10				
07	L						
08							
09							
10					9.0 - 12.5 ft Grey green sandy SILT, slightly clayey, firm, moist, no hydrocarbon odor or stain.		
11	T	IB-5.2	6 8 13				
12	L						
13							
14							
15							
					FINAL AUGER DEPTH - 12.5 ft NO GROUND WATER ENCOUNTERED		

SOIL BORING LOG IB-6

Century West Engineering

Site Location: 1919 Market St., Oakland, Ca.	Boring ID: IB-6	Total Depth: 12.5 ft
Boring Location: Myrtle St. downgradient from South UST	Elevation: None	Initial GW Depth: None
Purpose: Soil Investigation	Logged By: Bob Bogar	Final GW Depth: approx 12 ft.
Date: June 17, 1993	Blank Casing:	From: To:
Consulting Firm: Century West Engineering	Perforations:	From: To:
Project Number: 20511-006-03	Filter Sand:	From: To:
Drilling Contractor: Kvilhaug Well Drilling	Bentonite:	From: To:
Drilling Method: Hollow stem auger	Grout: Cement slurry (bent. <5%)	From: 11.5 ft To: Surf.

Depth		Sample ID	Blow Counts	Profile	Soil Description	Remarks
01					0.0 - 1.0 ft Asphalt and base rock.	
02						
03						
04					1.0 - 4.0 ft Grey to brown silty CLAY, loose to firm, no hydrocarbon odor or stain.	
05						
06	T	IB-6.1	6 10 14		4.0 - 7.0 ft Grey silty CLAY, moderate sewer odor.	
07	⊥					
08						
09						
10						
11	T	IB-6.2	13 17 26		7.0 - 11.5 ft Grey green silty CLAY, firm, moist, no hydrocarbon odor. Grades to silty sand.	
12	⊥					
13						
14						
15						
					FINAL AUGER DEPTH - 12.5 ft GROUND WATER - APPROX. 12 ft.	

SOIL BORING LOG IB-7

Century West Engineering

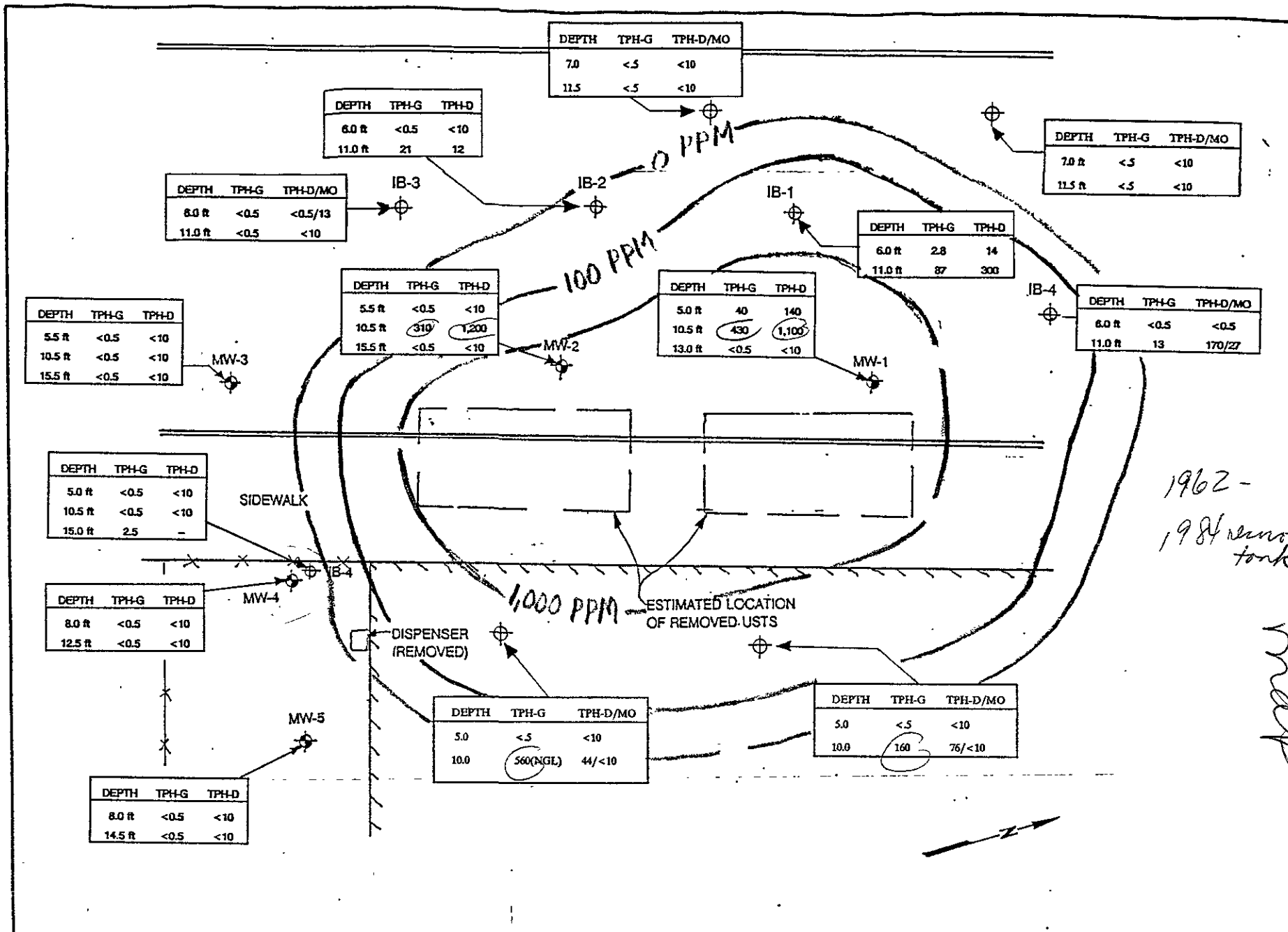
Site Location: 1919 Market St., Oakland, Ca.	Boring ID: IB-7	Total Depth: 10 ft
Boring Location: South of dispenser pad inside building	Elevation: None	Initial GW Depth: None
Purpose: Soil Investigation	Logged By: Bob Bogar	Final GW Depth: None
Date: June 25, 1993	Blank Casing:	From: To:
Consulting Firm: Century West Engineering	Perforations:	From: To:
Project Number: 20511-006-03	Filter Sand:	From: To:
Drilling Contractor: Kvilhaug Well Drilling	Bentonite:	From: To:
Drilling Method: Hand auger	Grout: Cement slurry (bent. <5%)	From: 10 ft To: Surf.

Depth		Sample ID	Blow Counts	Profile	Soil Description	Remarks	
01					0.0 - 1.0 ft Concrete		
02					1.0 - 3.0 ft Dark brown moist clayey SILT, no hydrocarbon odor or stain.		
03					3.0 - 5.0 ft Medium to light brown moist clayey to sandy SILT, no hydrocarbon odor or stain.		
04							
05							
06	T	IB-7.1	4 7 9		5.0 - 8.0 ft Grades to CLAY, mottled light to dark brown.		
07	⊥						
08							
09							
10					8.0 - 10.0 ft Light to dark green moist CLAY strong hydrocarbon odor.		
11	T	IB-7.2	8 14 15		FINAL AUGER DEPTH - 10.0 ft NO GROUND WATER ENCOUNTERED		
12	⊥						
13							
14							
15							

SOIL BORING LOG IB-8

Century West Engineering

Site Location: 1919 Market St., Oakland, Ca.		Boring ID: IB-8		Total Depth: 10.0 ft		
Boring Location: North of dispenser pad in building.		Elevation: None		Initial GW Depth: None		
Purpose: Soil Investigation		Logged By: Bob Bogar		Final GW Depth: None		
Date: June 25, 1993		Blank Casing:		From: To:		
Consulting Firm: Century West Engineering		Perforations:		From: To:		
Project Number: 20511-006-03		Filter Sand:		From: To:		
Drilling Contractor: Kvilhaug Well Drilling		Bentonite:		From: To:		
Drilling Method: Hand auger		Grout: Cement slurry (bent. <5%)		From: 10.0 ft To: Surf.		
Depth		Sample ID	Blow Counts	Profile	Soil Description	Remarks
01					0.0 - 2.0 ft Concrete	
02					2.0 - 8.0 ft Dark brown, moist silty CLAY, no hydrocarbon odor or stain.	
03						
04						
05						
06	T	IB-8.1	6 10 22		8.0 - 10.0 ft Light to dark green, moist silty CLAY, strong solvent odor.	
07	L					
08						
09						
10						
11	T	IB-8.2	19 19 23		FINAL AUGER DEPTH - 10.0 ft NO GROUND WATER ENCOUNTERED	
12	L					
13						
14						
15						



DEPTH	TPH-G	TPH-D/MO
7.0	<5	<10
11.5	<5	<10

DEPTH	TPH-G	TPH-D
6.0 R	<0.5	<10
11.0 R	21	12

DEPTH	TPH-G	TPH-D/MO
8.0 R	<0.5	<0.5/13
11.0 R	<0.5	<10

DEPTH	TPH-G	TPH-D/MO
7.0 R	<5	<10
11.5 R	<5	<10

DEPTH	TPH-G	TPH-D
6.0 R	2.8	14
11.0 R	87	300

DEPTH	TPH-G	TPH-D
5.5 R	<0.5	<10
10.5 R	<0.5	<10
15.5 R	<0.5	<10

DEPTH	TPH-G	TPH-D
5.5 R	<0.5	<10
10.5 R	310	1,200
15.5 R	<0.5	<10

DEPTH	TPH-G	TPH-D
5.0 R	40	140
10.5 R	430	1,100
13.0 R	<0.5	<10

DEPTH	TPH-G	TPH-D/MO
6.0 R	<0.5	<0.5
11.0 R	13	170/27

DEPTH	TPH-G	TPH-D
5.0 R	<0.5	<10
10.5 R	<0.5	<10
15.0 R	2.5	-

DEPTH	TPH-G	TPH-D
8.0 R	<0.5	<10
12.5 R	<0.5	<10

DEPTH	TPH-G	TPH-D/MO
5.0	<5	<10
10.0	560(NGL)	44/<10

DEPTH	TPH-G	TPH-D/MO
5.0	<5	<10
10.0	160	76/<10

DEPTH	TPH-G	TPH-D
8.0 R	<0.5	<10
14.5 R	<0.5	<10

SCOTT COMPANY OAKLAND SITE		FIGURE 6 - SOIL TPH RESULTS	
CENTURY WEST ENGINEERING		PROJECT NO.	DATE
		PREPARED BY	PLATE