

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



February 2, 1998
StID # 3818

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

REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. John Schovanec
Bank of America
4000 MacArthur Blvd., Ste. 100
Newport Beach, CA 92660

**RE: Former Cobbledick-Kibbe Site, 500 High St., Oakland
CA 94601**

Dear Mr. Schovanec:

This letter confirms the completion of site investigation and remedial action for the one 10,000 gallon diesel/gasoline and the one 2,000 gallon gasoline underground tanks removed from the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground tank is greatly appreciated.

Based upon the available information and with provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank releases is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721 (e) of the California Code of Regulations.

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

Sincerely,

Mee Ling Tung
Director, Environmental Health

c: B. Chan, Hazardous Materials Division-files
Stephen Hill, RWQCB
Mr. Dave Deaner, SWRCB Cleanup Fund
Mr. Leroy Griffin, City of Oakland OES, 505 14th St., Suite
702, Oakland CA 94612

RACC500Hi

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

February 4, 1998
StID# 3818

Mr. John Schovanec
Bank of America
4000 MacArthur Blvd., Ste. 100
Newport Beach, CA 92660

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

**RE: Fuel Leak Site Case Closure Former Cobbledick-Kibbe Site
500 High St., Oakland CA 94601**

Dear Mr. Schovanec:

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

Site Investigation and Cleanup Summary:

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

* 4 parts per million (ppm) Total Petroleum Hydrocarbons as gasoline (TPHg), 0.25, 0.0098, 0.17, 0.11 ppm BTEX, respectively and low levels (0.0055-0.2ppm) of the chlorinated hydrocarbons; methylene chloride, cis and trans-1,2-DCE and TCE remain in the soil at the site.

* 80 parts per billion (ppb) TPHg and 90 ppb TPHd, 0.9 ppb benzene and low levels (2.1-210 ppb) of the chlorinated solvents; cis and trans-1,2-DCE, TCE and vinyl chloride remain in groundwater at the site. (Vinyl chloride = 2.1 ppb)

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

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

Mr. John Schovanec
Former Cobbledick-Kibbe Site
500 High St., Oakland CA 94601
February 4, 1998
StID# 5487
Page 2.

enclosures: Case Closure Letter, Case Closure Summary

c: Mr. L. Griffin, City of Oakland OES, 505 14th St., Suite
702, Oakland CA 94612
B. Chan, files (letter only)
trlt500Hi

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: July 15, 1997

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Parkway
Rm 250, Alameda CA 94502**City/State/Zip: **Alameda** Phone: **(510) 567-6700**Responsible staff person: **Barney Chan** Title: **Hazardous Materials Spec.****II. CASE INFORMATION**Site facility name: **Former Cobbledick Kibbe Site**Site facility address: **500 High St., Oakland CA 94601**RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **3818**ULR filing date: **4/10/90** SWEEPS No: **N/A**

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
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Bank of America c/o	4000 MacArthur Blvd. Ste.100	714-260-5808
Ms. Andee Gerace-Coles	Newport Beach, CA 92660	714-260-5812
Mr. John Schovanec		

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	10,000	diesel/gas	Removed	3/13/90
2	2,000	gasoline	Removed	3/13/90

III RELEASE AND SITE CHARACTERIZATION INFORMATIONCause and type of release: **unknown**Site characterization complete? **Yes**

Date approved by oversight agency:

Monitoring Wells installed? **Yes** Number: **7**Proper screened interval? **Yes, based upon first encountered groundwater during well installation. Groundwater is under semi-confined conditions.**

Leaking Underground Fuel Storage Tank Program

Treatment and Disposal of Affected Material: (Oil Water Separator)

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment of Disposal w/destination)</u>	<u>Date</u>
Oil-Water Separator	1-160 gallon (800 pounds)	Disposed by H&H Shipping San Francisco	2/3/92
Soil	approx 150 cy	Recycled by R&G Env. San Jose, CA 95128-2406	6/29/93

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before</u>	<u>After</u>	<u>Before</u>	<u>After</u>
	<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>
TPH (Diesel)	ND	NA		
Semi-VOCS		ND		
Oil and Grease	9400			
Metals: Cd,Cr,Pb,Ni, Zn	ND,90.3,ND,	137,37.5		
VOCS (8240)				
Methylene Chloride		0.053		
cis-1,2-DCE		0.20	2.8	96
trans-1,2-DCE		0.0055	1.3	24
TCE		0.012	3.2	210
1,1,1-TCA			3.1	ND
vinyl chloride				2.1

Comments (Depth of Remediation, etc.):

- 1 P3-5.5'
- 2 P3-9', AS-1-7', AS-5-7'
- 3 PIT-1
- 4 MW-7 (MW-1), 2/24/97 event

IV. CLOSURE

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

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

Site management requirements: Yes

Should corrective action be reviewed if land use changes? Yes

Monitoring wells Decommissioned: One of seven

Number Decommissioned: one Number Retained: 6

List enforcement actions taken: Preenforcement hearing-3/27/95

List enforcement actions rescinded: above

Leaking Underground Fuel Storage Tank Program

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Barney M. Chan Title: Hazardous Materials Specialist

Signature: *Barney M Chan* Date: 10/2/97

Reviewed by

Name: Tom Peacock Title: Manager

Signature: *Tom Peacock* Date: 10-1-97

Name: Madhulla Logan Title: Hazardous Materials Specialist

Signature: *Madhulla Logan* Date: September 22, 1997

VI. RWQCB NOTIFICATION

Date Submitted to RB:

RB Response: *Approved*

RWQCB Staff Name: K. Graves

Title: AWRCE Date: 10-17-97

VII. ADDITIONAL COMMENTS, DATA, ETC.

see site summary

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Site Summary for 500 High St., StID #3818

October 2, 1989- Three borings were advanced by Blymyer Engineers within and around the tank pit of the 10k and 2k USTs. Boring B-1, located within the tank pit, indicated a release had occurred exhibiting 330 ppm TPHg and 0.42, 7.8, 39 and 9.1 ppm BTEX, respectively.

March 13, 1990- One 10,000 gallon tank which had originally contained diesel and then gasoline and one 2,000 gallon gasoline tank were removed from this site. Groundwater was encountered in the bottom of both tank pits. Soil samples were taken at the groundwater interface from the ends of each tank. Samples were also taken from beneath the dispenser and along the piping run. Up to 1700 ppm TPHg and 2.0, 48, 30 and 150 ppm BTEX, respectively, was found in the soil samples from within the pit. Line samples detected negligible TPH or BTEX. Because floating product appeared on the water, the existing water was pumped out by H&H and grab groundwater samples taken on March 28, 1990. These samples exhibited up to 18 mg/l TPHg, 12 mg/l TPHD and 1,700, 1,900, 150 and 3,500 ppb BTEX, respectively.

April 9, 1990- The tank pit was overexcavated and five confirmatory soil samples taken. Contamination was reduced to 4 ppm TPHg, 1.7 ppm TPHd and 0.25, 0.0098, 0.17 and 0.11 ppm BTEX, respectively.

During the winter of 1990, a water line ruptured and filled the excavation pit to approximately 3' bgs. Prior to backfilling the pit, approximately 20,000 gallons of water was pumped out into a Baker tank. The RWQCB approved the disposal of this water to a nearby storm drain on a one-time basis.

February 26 and 27, 1991- Three soil bores (B-1 through B-3) were converted into monitoring wells MW-1 through MW-3. Soil samples from these borings did not indicate much, if any, petroleum contamination. Based upon the detection of elevated petroleum contamination in MW-1, a fourth well, MW-4, was installed downgradient of the former UST on March 25, 1991. Up to 2400 ppm TPHd was detected in the boring from MW-4. As it turns out, this contamination was likely from a release from the oil-water separator located near MW-4, which was later removed.

May 23, 1991- Nine soil borings (P-1 through P-9) were advanced around the oil-water separator (OWS) attempting to delineate the extent of contamination from the OWS. Analysis of these soil borings indicated highest contamination immediately north and east of the OWS. These soil samples were analyzed for Oil and Grease and the one with the highest O&G was analyzed for halogenated VOCs. This sample, P-3-5.5', detected 9400 ppm TOG and was ND for VOCS.

November 26, 1991- The 160 gallon steel, oil-water separator was removed from the site. Approximately 150-175 cubic yards of oil impacted soil was removed. A total of seven soil samples (AS-1 through AS-7) were taken from the pit after excavation on 11/27/91. The soil sample directly beneath the OWS, AS-1-7', was analyzed for the entire suite of waste oil parameters. Results of this analysis were: ND for TOG, 1.3 ppm TPHd, ND for TPHg, ND for BTEX, 0.053ppm methylene chloride, 0.20 ppm cis-1,2-DCE, 0.0055ppm trans-1,2-DCE, ND for semi-volatiles and background levels of the metals; chromium, nickel and zinc. Cadmium and lead were ND. The other samples were run for TOG, TPHd and HVOCs. The only additional HVOCs detected were 0.012 ppm TCE in sample AS-5-7'. Based upon these results, additional excavation in the northwest area of the pit was done and an additional sample, AS-8-9', was taken on 12/24/91. This sample exhibited ND for TOG, TPHd and HVOCs. It appears that excavation was fairly complete in removing soil contamination. During this excavation, MW-4 was properly destroyed.

On **November 21, 1991** MW-5 was installed further downgradient of the OWS in Howard St. When sampled on 12/12/91 the HVOCs; cis and trans-DCE and TCE were detected above their respective MCLs.

Based upon the above results, on **March 16, 1992** MW-6 was installed even further downgradient within the Dailey Truck Body property, approximately 200' downgradient of MW-5 and approximately 300' downgradient of the OWS. Soil borings from MW-5 were analyzed from 6-6.5' and from 11-11.5' and from MW-6 from 5-5.5', 10-10.5' and 15-15.5'. No contaminants; TPH or HVOCs were detected in these samples. Unfortunately, only TPH was analyzed in the borings from MW-5.

Further offsite characterization was proposed and approved by our office, however, the owner of the offsite property denied access. After a pre-enforcement hearing on 3/27/95, site access was approved by Mr. Minor, the offsite property owner.

As a further attempt to determine the extent of the HVOC plume, an **April 27, 1994** investigation was performed where four offsite borings (B-1 through B-4) were advanced and soil and groundwater samples taken. At the same time, groundwater was sampled from the existing wells plus the well from the adjacent property, the former El Monte R.V. Service center. This well was named MW-7 for the purposes of the 500 High St. investigation but was identified as MW-1 for the purpose of investigation a release from the former gasoline tank removed at the El Monte site (4341 Howard St.).

Soil samples from these borings indicate that both TPH and HVOCs did not impact the soil. The groundwater samples from the borings indicated that low levels of HVOCs were further downgradient of the site. The exception was the well on the El Monte RV site which detected considerably higher HVOCs in groundwater than the other sampling points. This indicates another possible offsite source of HVOCs besides the OWS.

This site was inherited by Bank of America through purchase of Security Pacific Bank who foreclosed on the loan of Mr. Cobbledick. The site has since been sold to the High St. Group with Bank of America retaining remediation responsibility. In **September 1994** a prepurchase subsurface investigation was performed at the site for the Thielscher Investment Corporation representing the High St. Group. A total of fourteen (14) borings were advanced at the site. Soil and grab groundwater samples were taken. No significant soil or groundwater contamination was observed. It appears that there is no significant soil contamination onsite.

The HVOC plume was detected highest in concentration near MW-7/ (MW-1) on the El Monte RV Center. Potential risk appears to be the highest to the two residential homes on Howard St.

A feasibility study was performed. Included in the options to be considered was a human health risk assessment (HHRA) and the performance of a pump test to determine if groundwater extraction was possible. Three additional borings were proposed to evaluate the lateral extent of contamination. One additional monitoring well was also proposed to be located immediately downgradient of the former OWS and adjacent to one of the residential homes. On **September 12, 1995** this well, MW-8, was installed. On **October 13, 1995** the three borings, AEC/B-1, AEC/B-2 and AEC/B-3 were advanced. On **December 21, 1995** wells MW-2, MW-5 and MW-8 were slug tested.

Soil contamination, again, was not detected in either MW-8 or the AEC borings. HVOC contamination was detected in groundwater from MW-8 but in significantly lower concentration than MW-7 (MW-1). The boring nearest MW-7, AEC/B-3, not surprisingly, exhibited the highest grab groundwater HVOCs concentration among the borings. These results support the belief that there may be a source of HVOC coming from the El Monte RV Center.

From monitoring data, our office concurred that the TPH releases from both the former Cobbledick Kibbe and El Monte RV was adequately investigated. Analysis for TPHg,d and BTEX was discontinued for all wells starting in 1996. Monitoring would

continue for the HVOCs on a semi-annual basis. The HHRA provided should would include groundwater concentrations from wells closest the existing residential homes, which were installed by both sites.

An April 8, 1997 ASTM RBCA was provided for County review. The following pathways were considered complete and were therefore evaluated:

- * Onsite residential ingestion and dermal contact to surface soil
- * Onsite residential exposure to outdoor air including volatiles and particulates from surface soils
- * Volatiles and particulates from subsurface soils to ambient air
- * Volatiles from groundwater to ambient air
- * Indoor air exposure from subsurface soils and groundwater to enclosed space

The HHRA was reviewed by Madhulla Logan of our office and she concurred that no risk existed exceeding $1E-6$. In fact, the highest risk evaluated was from indoor air exposure pathways @ $1.4E-7$ and its hazard quotient was $1.9E-3$.

No further action is recommended for both the petroleum and HVOC releases based upon:

1. Adequate source removal; the UST and Oil Water Separator and impacted soil have been removed.
2. Adequate site characterization; HVOCs have been delineated both on and offsite of 500 High St. Additional monitoring wells and geoprobes/hydropunch sampling has been performed.
3. Groundwater in this area is not being used as a source of drinking water.
4. A HHRA has been performed and this indicates no risk exceeding $1E-6$.

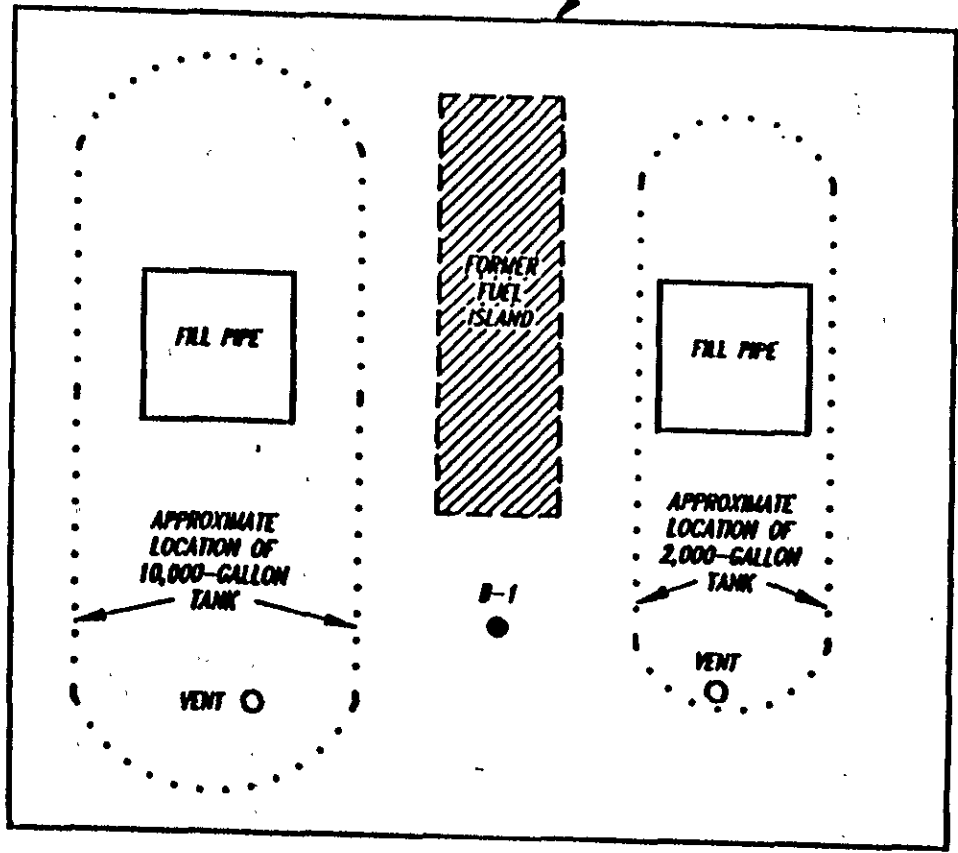
A risk management plan should be developed to :

- * If appropriate, mitigate any potential negative impacts posed by the residual groundwater contamination
- * Develop a strategy to address any risk posed to construction or utility worker exposure during earth moving activities in the vicinity of groundwater contamination
- * Take precautions to avoid making any vertical or lateral conduits which may cross contamination ~~on~~ the shallow and deep aquifers

dermal contact to gw

Bldg

CONCRETE PAD



Scale:
 ───────────
 5 Feet

LEGEND:

B-1
 ● SOIL SAMPLING LOCATIONS

October 89 Barrings

COBBLEDICK-KIBBE, INC.
PPSI

Soil Sampling Locations

November 1989

ENGINEERING-SCIENCE

TABLE 3

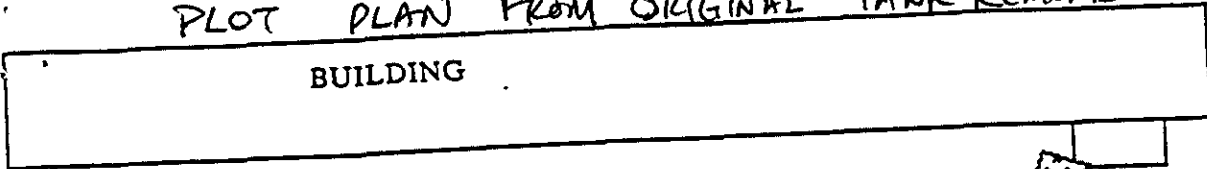
ANALYTICAL RESULTS FOR SOIL CONTAMINANTS
COBBLEDICK-KIBBE SITE INVESTIGATION

OCTOBER 1989 BORING RESULTS




Concentration Units		B-1 (6-9 feet)	B-2 (4-7 feet)	B-3 (4 feet)	Detection Limit	Regulatory Criteria
Total Petroleum Hydrocarbons						
Gasoline	mg/kg	330	5.8	<2.5	0.5	1,000 ²
Diesel ¹	mg/kg	<1	<1	<1.0	1.0	1,000 ²
Aromatic Hydrocarbons						
Benzene	µg/kg	420	140	<5.0	1.0	20 ³
Toluene	µg/kg	7,800	51	40.0	1.0	2,000 ³
Xylenes	µg/kg	39,000	140	15.0	1.0	35,000 ³
Ethylbenzene	µg/kg	9,100	310	6.0	1.0	11,600 ³
Total BTXE		53,320	641	66.0		

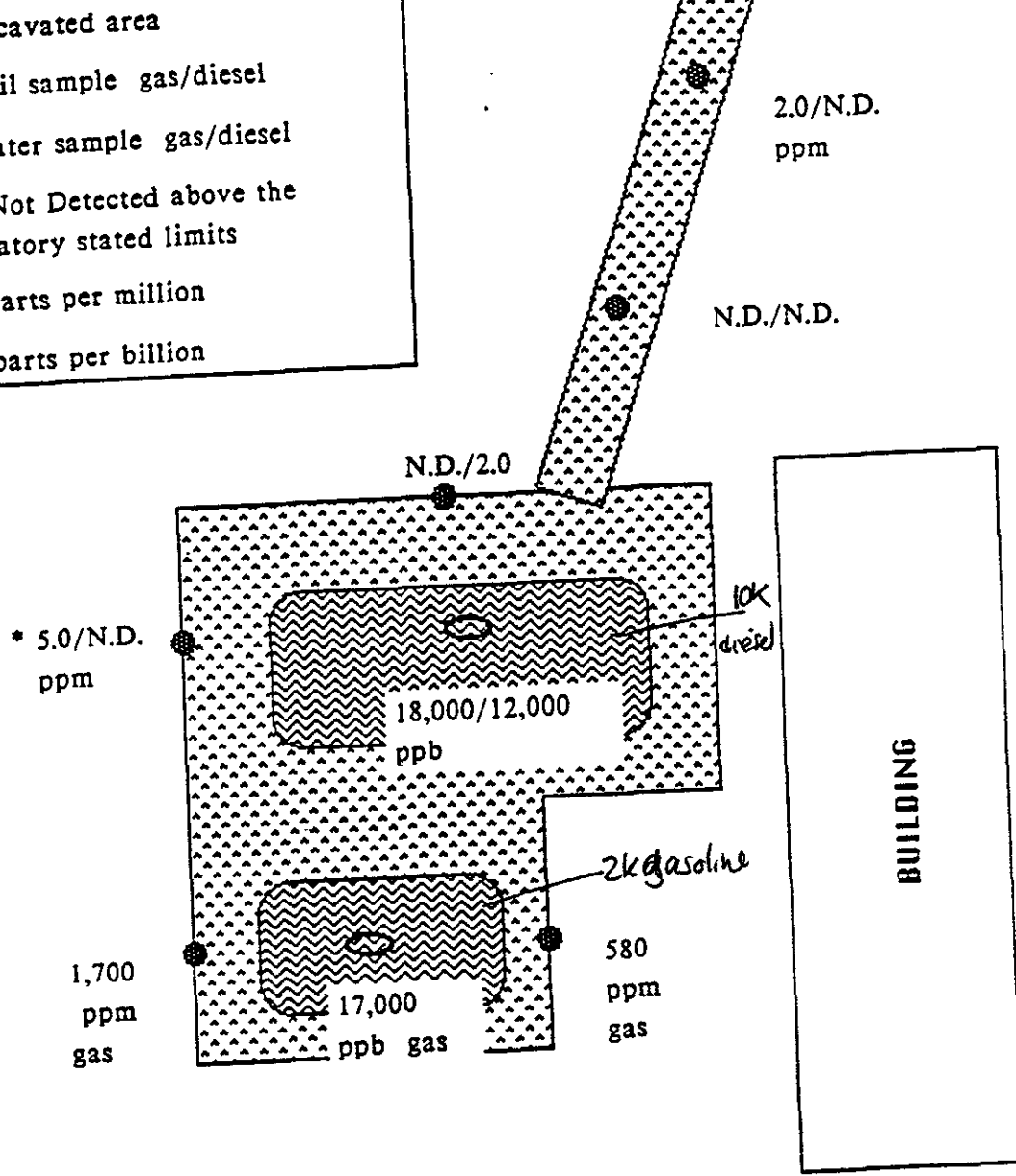
¹ Semi-quantified results, samples analyzed after holding time for analysis had expired.
² Level in mg/kg at which EPA defines as hazardous.
³ MCL or SAL in µg/Kg, modified soil, non-binding.
 * < before a value indicates concentration below the detection limit of the analysis.

PLOT PLAN FROM ORIGINAL TANK REMOVAL

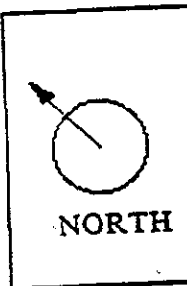


LEGEND

-  - excavated area
-  - soil sample gas/diesel
-  - water sample gas/diesel
- N.D. - Not Detected above the laboratory stated limits
- ppm - parts per million
- ppb - parts per billion



* GAS/DIESEL
ppm



SECURITY PACIFIC NATIONAL BANK
EMBARCADERO CENTER NO. 1
SAN FRANCISCO, CA 94111

SITE: COBBLEDICK-KIBBE
500 HIGH STREET
OAKLAND, CA

ACCUTITE
35 South Linden Avenue
South San Francisco, CA
94080



TANK REMOVAL RESULTS

placed on ice, and transported under chain of custody to a California Department of Health Services certified laboratory for analysis.

Original results of the analyses and the chain of custody form used, are attached with this report.

Summary of Soil Sampling:

Six (6) soil samples were collected in the excavation on March 13, 1990 at the locations indicated on the attached drawing. All samples were analyzed by Sequoia Analytical Laboratory in Redwood City, California, for Total Petroleum Hydrocarbons (TPH) as Gasoline and Diesel with Benzene, Toluene, Ethyl Benzene, and Xylenes (BTE&X) distinctions on a five (5) day rush turnaround. Sequoia Analytical Laboratory is a Department of Health Services certified Lab (DHS# 145).

Soil Sampling Results:

Results of the analyses performed did show contamination levels above the laboratory stated detection limits:

* please note original results attached

Sample:	TPH as Gas (ppm)	TPH as Diesel (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl Benzene (ppm)	Xylene (ppm)
LINE DISP	2.0	N.D.	N.D.	N.D.	N.D.	0.13
LINE TANK	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
10 K FILL	N.D.	2.0	N.D.	N.D.	N.D.	N.D.
10 K END	5.0	N.D.	0.10	N.D.	N.D.	N.D.
2 K FILL	<u>1,700</u>	--	2.0	48	30	150
2 K END	580	--	0.11	1.0	8.0	37
Detection Limits:	1.0	1.0	0.05	0.1	0.1	0.1

TPH as G = Total Petroleum Hydrocarbons as Gasoline

N.D. = Not detected above stated limit

ppm = parts per million

Cobbledick-Kibbe
500 High Street, Oakland

Water Sampling Procedure:

At the time of the tank removal, floating product was noticed on the ground water in the excavation. In order to assure an accurate level of Total Petroleum Hydrocarbons in the water of that area it was recommended that the ground water in the excavation be pumped out and allowed to recharge. Herbert Elliot, President of Cobbledick-Kibbe was notified of the situation and gave the approval to remove the water. At that time H & H Shipping was called to pump out the contaminated ground water, which they did on March 21, 1990 and hauled water under Hazardous Waste Manifest Number 90003342 to their facility at 220 China Basin, San Francisco, CA.

Ground water was allowed to recharge and sampled on March 28, 1990 in accordance with accepted sampling techniques. Water was extracted with the use of a clean Teflon bailer and poured directly into appropriate glass amber one liter jars and VOA vials. Samples were labeled, placed on blue ice and transported under chain of custody to Sequoia Analytical Laboratory.

Summary of Water Sampling:

One (1) liter jar and two (2) vials were collected from the water in the area where the 2,000 gallon Diesel tank was located and analyzed for TPH as D and G with BTE & X distinctions. Four (4) vials were collected from the water in the area where the 10,000 gallon Gasoline tank was located and analyzed for TPH as G with BTE & X distinctions.

(GRAB) Water Sampling Results: FROM TANK REMOVAL

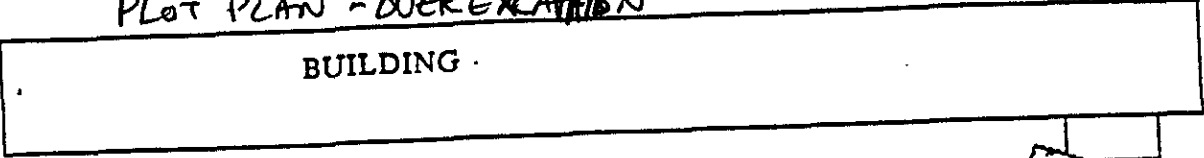
Results of the analyses performed did show contamination levels above the laboratory stated detection limits:

Sample:	TPH as Gas	TPH as Diesel	Benzene	Toluene	Ethyl Benzene	Xylene
L= liter V= vial	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
L1,V1,V2	18,000	12,000	1,500	1,200	150	3,500
V3,V4,V5,V6	17,000		1,700	1,900	3.4	3,200
Detection Limits:	30		0.3	0.3	0.3	0.3

[please refer to the original lab results attached]
ppb = parts per billion




Cobbledick-Kibbe
500 High Street, Oakland

Plot Plan - OVER EXCAVATION



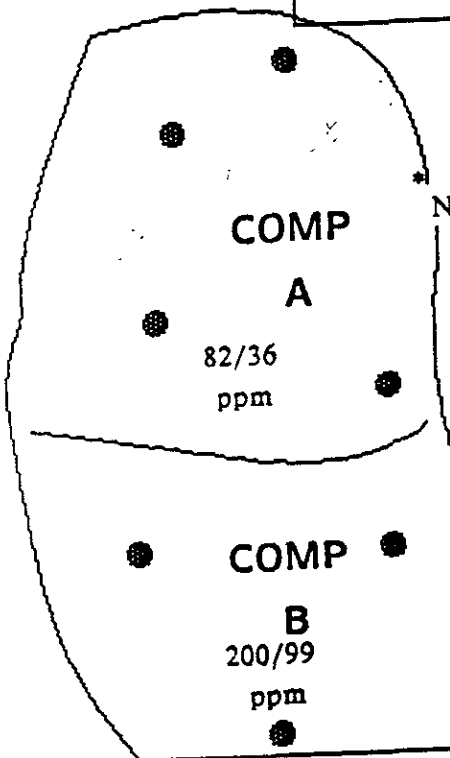
BUILDING

LEGEND

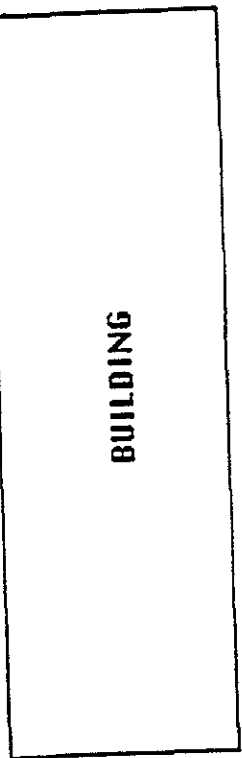
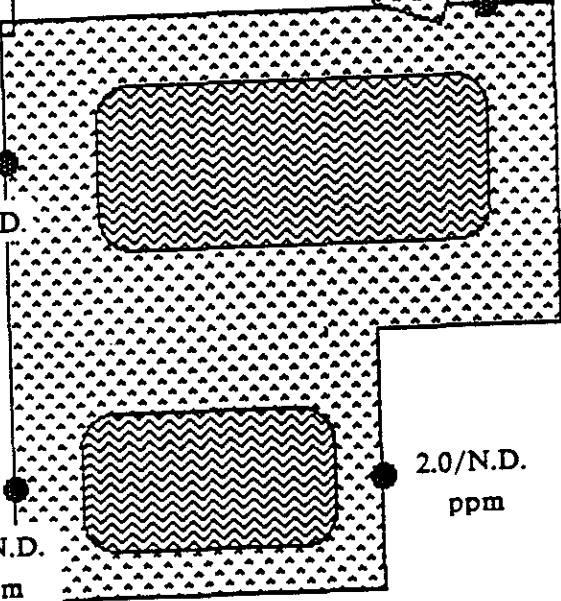
-  - excavated area
 -  - soil sample gas/diesel
 -  - water sample gas/diesel
- N.D. - Not Detected above the laboratory stated limits
- ppm - parts per million
- ppb - parts per billion

* GAS/DIESEL ppm

N.D./N.D.



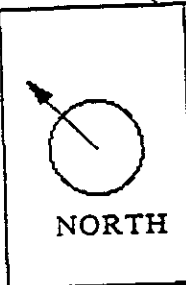
N.D./N.D.



BUILDING

4.0/N.D. ppm

COMP C
210/140 ppm



SECURITY PACIFIC NATIONAL BANK
EMBARCADERO CENTER NO. 1
SAN FRANCISCO, CA 94111

SITE: COBBLEDICK-KIBBE
500 HIGH STREET
OAKLAND, CA

ACCUTITE
35 South Linden Avenue
South San Francisco, CA
94080



SOIL SAMPLES AFTER OVEREXCAVATION

Soil Mitigation Work Performed:

After reviewing these results with Herb Elliott, Accutite recommended that the site be over-excavated with the goal of reducing the contamination to levels acceptable to the Implementing Agencies.

On April 9, 1990 Accutite began over-excavation of the site where the tanks had been removed. Five (5) soil samples were collected from the excavation, and three (3) composite soil samples were taken from the stock piles on site, location of sampling is indicated on the attached drawing. All samples were analysed by Sequoia Analytical Laboratory in Redwood City, California, to be analyzed for TPH as G and D with BTE&X distinctions on a five (5) day rush turnaround.

Soil Sampling Results:

Sample:	TPH as Gas (ppm)	TPH as Diesel (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl Benzene (ppm)	Xylene (ppm)
<i>Stockpiles</i> } Comp. A Comp. B Comp. C	82	36	0.32	1.0	0.69	3.0
	200	99	0.83	3.0	3.0	13
	210	140	0.85	4.0	2.0	12
10 K End	N.D.	1.7	0.0065	0.0059	N.D.	0.011
10 K Fill	N.D.	N.D.	0.0061	N.D.	0.0054	0.013
2 K End	2.0	N.D.	0.25	0.0098	0.057	0.055
2 K Fill	4.0	N.D.	0.050	0.0094	0.17	0.11
Middle	2.0	N.D.	0.051	N.D.	0.033	0.013
Detection Limits:	1.0	1.0	0.005		0.005	0.005

Cobbledick-Kibbe
500 High Street, Oakland





JENSEN ST.

GATE

SHED

Former Cobblecliff-Kibbe
500 High St

WINDOW
FABRICATION
FACILITY

LOCATION
OF TANK
EXCAVATION

SLIDING
DOOR
FABRICATION
FACILITY

HOWARD ST.

EL MONTE
R.V.

MW-6

MW-5

B-4

B-1

B-2

B-3

0 30 60
SCALE IN FEET

BLMYER ENGINEERS, INC.		
BEI JOB NO. 91169/91170	DATE 10/19/92	

LEGEND
● SOIL BORE

PROJECT
BANK OF AMERICA
OAKLAND, CA
SITE PLAN &
SOIL BORE
LOCATIONS

FIGURE
2

LOCATIONS OF BORINGS / MW
B1-B4 CONVERTED TO MW-1 THROUGH MW-4

TABLE I. Summary Of Well Installation
Soil Sample Analytical Results
Bank of America
500 High Street, Oakland, California
BEI Job No. 91169

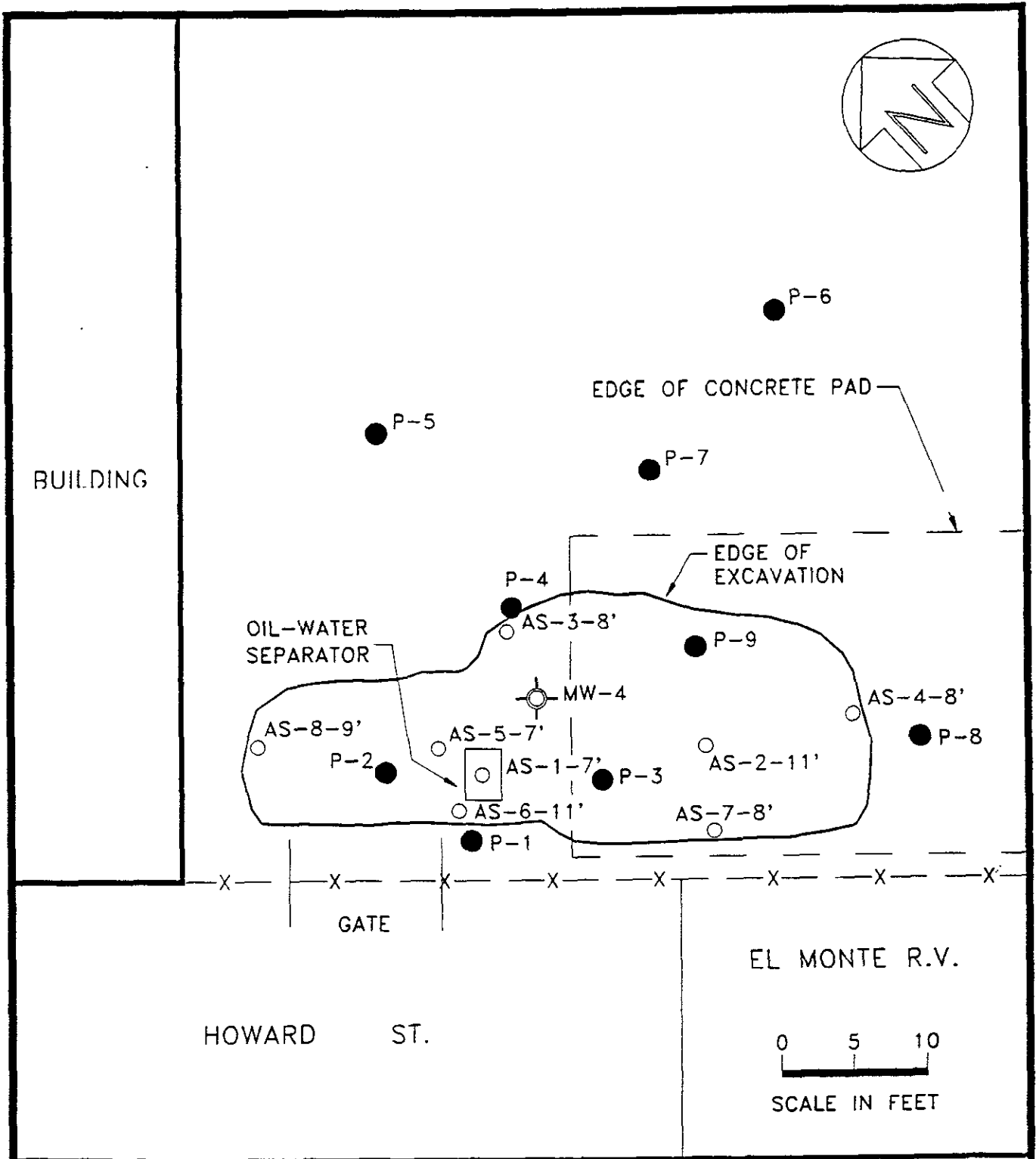
Sample Identification	Modified EPA Method 8015 (mg/kg)		EPA Method 8010 (µg/kg)	EPA Method 8020 (µg/kg)			
	TPH as diesel	TPH as gasoline	Halogenated Volatile Organics	Benzene	Ethylbenzene	Toluene	Total Xylenes
B-1 5'	50	<1		<2.5	<2.5	<2.5	<2.5
B-1 10'	<1	<1		<2.5	<2.5	<2.5	<2.5
B-2 5.5-6'	67	<1		<2.5	<2.5	<2.5	<2.5
B-2 11-11.5'	<1	<1		<2.5	<2.5	<2.5	<2.5
B-3 5-5.5'	18	<1		<2.5	<2.5	<2.5	<2.5
B-3 11'	<1	<1		<2.5	<2.5	<2.5	<2.5
B-4-1 5.5-6'	2,300	<1		<2.5	<2.5	9.8	4.9
B-4-2 10-10.5'	<1	<1		<2.5	<2.5	<2.5	<2.5
MW-5 6-6.5'	<1	<1		<2.5	<2.5	<2.5	<2.5
MW-5 11-11.5'	<1	<1		<2.5	<2.5	<2.5	<2.5
MW-6-1 5-5.5'	<1	<1	ND	<5.0	<5.0	<5.0	<5.0
MW-6-2 10-10.5'	<1	<1	ND	<5.0	<5.0	<5.0	<5.0
MW-6-3 15-15.5'	<1	<1	ND	<5.0	<5.0	<5.0	<5.0



bgs = below grade surface
 TPH = Total Petroleum Hydrocarbons
 mg/kg = milligrams per kilogram
 µg/kg = micrograms per kilogram

Shaded areas indicate that samples were not analyzed for the listed method.
 For results presented as <x, x represents the reporting limit.

OIL WATER SEPARATOR SAMPLES



BLYMYER ENGINEERS, INC.		LEGEND ○ SOIL SAMPLE MONITORING WELL ● SOIL BORE	PROJECT BANK OF AMERICA OAKLAND, CA SOIL BORE AND SOIL SAMPLE LOCATIONS	FIGURE 9
BEI JOB NO. 91169/91170	DATE 10/29/92			

BORINGS AROUND OWS

**TABLE V, Summary Of Soil Bore Sample
Analytical Results
Bank of America
500 High Street, Oakland, California
BEI Job No. 91169**

Sample Identification	Date Sampled	Sample Depth (feet bgs)	SM5520CF	EPA Method 8010
			Oil and Grease (mg/kg)	Halogenated Volatile Organics (mg/kg)
P-1-6'	5/23/91	6	25	
P-1-10.5'	5/23/91	10.5	12	
P-2-5'	5/23/91	5	280	
P-2-9'	5/23/91	9	11	
P-3-5.5'	5/23/91	5.5	9,400	ND
P-3-9'	5/23/91	9	8,300	
P-4-3'	5/23/91	3	4,300	
P-4-9'	5/23/91	9	19	
P-5-6'	5/23/91	6	11	
P-6-6'	5/23/91	6	<10	
P-7-5.5'	5/23/91	5.5	<10	
P-7-8'	5/23/91	8	<10	
P-8-6'	5/23/91	6	<10	
P-9-6'	5/23/91	6	<10	

mg/kg = milligrams per kilogram
 ND = None detected above the reporting limit
 bgs = below grade surface

Shaded areas indicate that samples were not analyzed for the listed method.

For results listed as <x, x represents the reporting limit.

**TABLE VI. Summary of Oil-Water Separator Excavation
Soil Sample Analytical Results
Bank of America
500 High Street, Oakland, California
BEI Job No. 91169**

Sample Identification	SM5520EF	Modified EPA Method 8015		EPA Method 8020	EPA Method 8010	EPA Method 8270	EPA Methods 6010/7420
	Oil and Grease (mg/kg)	TPH as Diesel (mg/kg)	TPH as Gasoline (mg/kg)	BTEX (µg/kg)	Halogenated Volatile Organics* (µg/kg)	Semi-volatile Organics (µg/kg)	Total Metals (mg/kg)
AS-1-7'	<50	1.3	<1.0	<5.0	methylene chloride (53) cis-1,2-dichloroethene (200) trans-1,2-dichloroethene (5.5)	ND	Chromium (90.3) [0.50] Nickel (137) [1.6] Zinc (37.5) [1.0]
AS-2-11'	<50	1.2			ND		
AS-3-8'	<50	<1.0			ND		
AS-4-8'	<50	<1.0			ND		
AS-5-7'	<50	<1.0			cis-1,2-dichloroethene (12) trans-1,2-dichloroethene (2.9) trichloroethylene (12)		
AS-6-11'	52	<1.0			trichloroethylene (3.2)		
AS-7-8'	<50	<1.0			ND		
AS-8-9'	<50	<1.0			ND		

TPH = Total Petroleum Hydrocarbons NA = Not analyzed
mg/kg = milligrams per kilogram (x) = Detected concentration
µg/kg = micrograms per kilogram ND = None detected above the reporting limit
* = Compounds that are individually listed were the only analytes detected above the respective reporting limits.

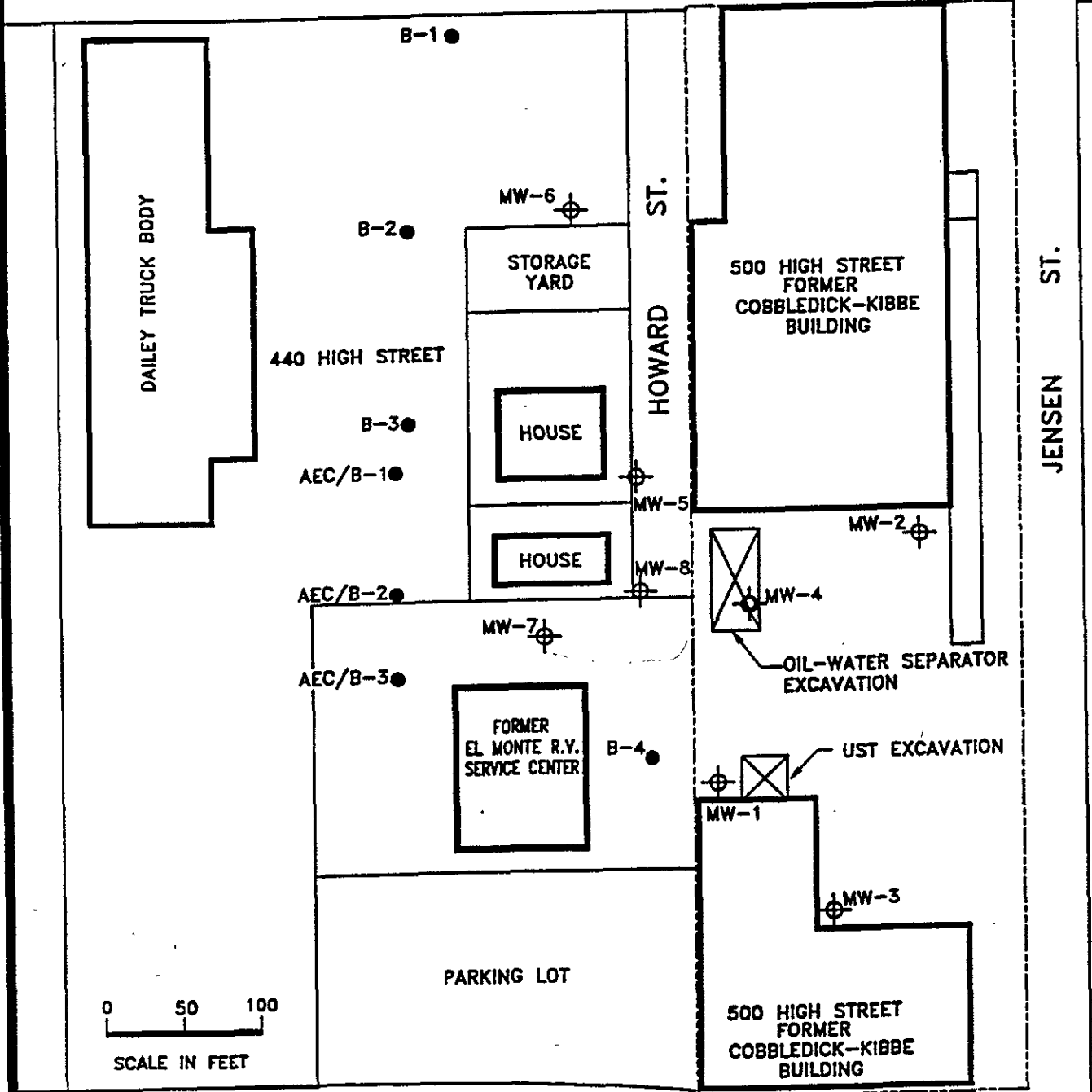
Shaded areas indicate that samples were not analyzed for the listed method.

For results listed as <x, x represents the reporting limit.



LOCATION OF OFFSITE BORINGS

HIGH ST.



0 50 100
SCALE IN FEET



LEGEND

- MONITORING WELL LOCATION
- TEMPORARY WELL LOCATION
- FORMER WELL LOCATION

BEI JOB NO.
92242

DATE
6/2/95

SITE PLAN
BANK OF AMERICA
OAKLAND, CA

FIGURE

3

4/27/94 OFFSITE BORINGS - TPH

TABLE I, Summary of Soil Sample Analytical Results for Petroleum Hydrocarbons BEI Job No. 92242, Bank of America 500 High Street, Oakland, California								
Sample ID	Depth (feet)	Sample Date	Modified EPA Method 8015 (mg/kg)		EPA Method 8020 (µg/kg)			
			TEPH	TPPH	Benzene	Ethylbenzene	Toluene	Total Xylenes
B-1-6	6	4/27/94	<1	<1	<2.5	<2.5	<2.5	<2.5
B-1-11	11	4/27/94	<1	<1	<2.5	<2.5	<2.5	<2.5
B-2-6	6	4/27/94	<1	<1	<2.5	<2.5	<2.5	<2.5
B-2-11	11	4/27/94	<1	<1	<2.5	<2.5	<2.5	<2.5
B-3-6	6	4/27/94	<1	<1	<2.5	<2.5	<2.5	<2.5
B-3-11	11	4/27/94	<1	<1	<2.5	<2.5	<2.5	<2.5
B-4-6	6	4/27/94	<1	<1	<2.5	<2.5	<2.5	<2.5
B-4-11	11	4/27/94	<1	<1	<2.5	<2.5	<2.5	<2.5

Notes:

- EPA = Environmental Protection Agency
- TEPH = Total Extractable Petroleum Hydrocarbons
- TPPH = Total Purgable Petroleum Hydrocarbons
- mg/kg = milligrams per kilogram
- µg/kg = micrograms per kilogram
- <x = less than the method reporting limit (x)

4/27/94 OFFSITE BORINGS - HVOCS

Table II, Summary of Soil Sample Analytical Results for HVOs
 BEI Job No. 92241, Bank of America
 500 High Street, Oakland, California

Sample ID	Sample Depth (feet)	Sampling Date	HVOs EPA Method 8010 (µg/Kg)				
			cis-1,2-DCE	trans-1,2-DCE	TCE	TCA	Vinyl Chloride
B-1-6	6	4/27/94	<2.0*	<2.0	<2.0	<2.0	<2.0
B-1-11	11	4/27/94	<2.0*	<2.0	<2.0	<2.0	<2.0
B-2-6	6	4/27/94	<2.0*	<2.0	<2.0	<2.0	<2.0
B-2-11	11	4/27/94	<2.0*	<2.0	<2.0	<2.0	<2.0
B-3-6	6	4/27/94	<2.0*	<2.0	<2.0	<2.0	<2.0
B-3-11	11	4/27/94	<2.0*	<2.0	<2.0	<2.0	<2.0
B-4-6	6	4/27/94	<2.0*	<2.0	<2.0	<2.0	<2.0
B-4-11	11	4/27/94	<2.0*	<2.0	<2.0	<2.0	<2.0

- Notes:
- HVOs = Halogenated Volatile Organics
 - DCE = Dichloroethene
 - TCE = Trichloroethene
 - TCA = Trichloroethane
 - µg/Kg = micrograms per kilogram
 - <x = less than the method reporting limit (x)
 - = Technically nonreportable concentration, cis-1,2-DCE laboratory standard was not run by laboratory

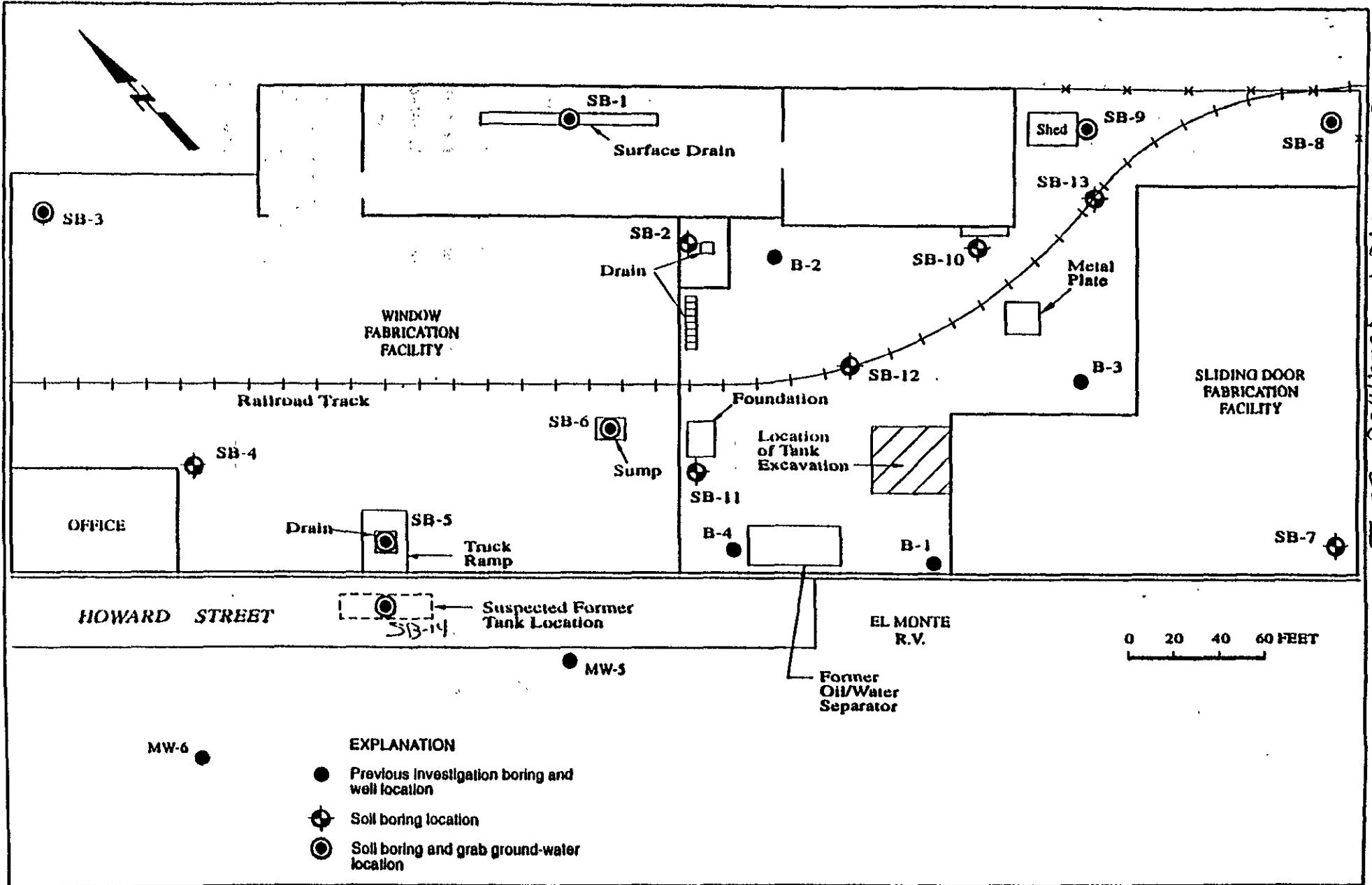


Figure 1 : SITE VICINITY, SOIL BORING, AND GRAB GROUND-WATER SAMPLE LOCATION MAP

SEPTEMBER 1994 INVESTIGATION
TABLE 1
CHEMICAL COMPOUNDS DETECTED IN SOIL AND GRAB GROUND-WATER SAMPLES
FORMER COBBLEDICK-KIBBE FACILITY
OAKLAND, CALIFORNIA
(concentrations in ppm)

Sample ID	Date Sampled	TPH as gasoline	TPH as diesel	TPH as motor oil	TCE	CIS-1,2-DCE	Acetone	Methylene Chloride
Ground water								
SB-1GGW	20-Sep-94	<0.05	<0.05	<0.2	<0.005	<0.005	<0.100	<0.005
SB-3GGW	20-Sep-94	<0.05	<0.05	<0.2	<0.005	<0.005	<0.100	<0.005
SB-5GGW	20-Sep-94	<0.05	<0.05	<0.2	0.006	<0.005	<0.100	<0.005
SB-6GGW	19-Sep-94	<0.05	<0.05	<0.2	<0.005	<0.005	<0.100	<0.005
SB-8GGW	19-Sep-94	<0.05	<0.05	0.3	<0.005	<0.005	<0.100	<0.005
SB-9GGW	19-Sep-94	<0.05	<0.05	0.2	<0.005	<0.005	<0.100	<0.005
SB-14GGW	20-Sep-94	1.8	0.4	0.3	<0.005	0.010	<0.100	<0.005
Soil								
SB-1-3	20-Sep-94	<0.2	<1	<5	<0.005	<0.005	<0.100	<0.005
SB-2-4	20-Sep-94	<0.2	<1	63	<0.005	<0.005	<0.100	<0.005
SB-3-3	20-Sep-94	<1	<1	9	<0.005	<0.005	<0.100	<0.006
SB-4-3	20-Sep-94	<0.2	<1	20	<0.005	<0.005	<0.100	<0.007
SB-5-4.5	20-Sep-94	<1	<3	190	<0.005	<0.005	0.120	<0.030
SB-6-3.5	20-Sep-94	<0.2	<3	140	<0.005	<0.005	<0.100	<0.020
SB-7-3	19-Sep-94	<0.2	<1	53	<0.005	<0.005	<0.100	<0.007
SB-8-2	19-Sep-94	<1	<5	800	<0.005	<0.005	<0.100	<0.010
SB-9-3	19-Sep-94	<1	<2	400	<0.005	<0.005	0.240	<0.020
SB-10-2.5	19-Sep-94	<1	<1	52	<0.005	<0.005	<0.100	<0.008
SB-11-3.5	19-Sep-94	<0.2	<1	<5	<0.005	<0.005	0.100	<0.020
SB-14-3.5 *	20-Sep-94	<0.2	<5	1,100	<0.005	<0.005	NA	0.023

Data entered by DLH/18 Oct 94 Data proofed by LPL QA/QC KH

ppm = parts per million
 NA = not analyzed
 TPHd = total petroleum hydrocarbons as diesel
 TPHg = total petroleum hydrocarbons as gasoline
 TPHo = total petroleum hydrocarbons as oil

All samples analyzed using EPA Method 8015 TPHg, BTEX, TPHd, TPHo, EPA Method 8240 volatile organic compounds
 * This sample not analyzed by EPA Method 8240 but EPA Method 8010 and EPA Method 8020

HIGH STREET

440 HIGH ST.
DAILEY
BODY

MW-6

HOWARD STREET

500 HIGH STREET
FORMER
COBBLEDICK-KIBBE
BUILDING

HOUSE

B-1

MW-5

HOUSE

MW-2

B-2

MW-8

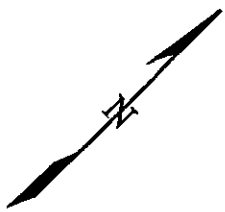
4341 HOWARD
STREET
(FORMER
EL MONTE R.V.
SERVICE
CENTER)

BANK
OF
AMERICA
PROPERTY

B-3

MW-1/MW-7

MW-1

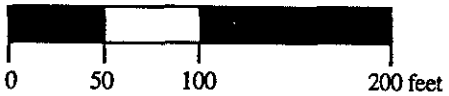


MW-3

500 HIGH STREET
FORMER
COBBLEDICK-KIBBE
BUILDING

EXPLANATION

Approximate Scale: 1 inch = 100 feet



B-1

Groundwater Sampling Point

MW-1/MW-7

Groundwater Monitoring Well Location and Number

Approximate Property Boundary

Map Based from Blymyer Engineers

ARTESIAN ENVIRONMENTAL CONSULTANTS
3100 Kerner Blvd., Suite C
San Rafael, California 94901
(415) 257-4801 Fax (415) 257-4805

BORING LOCATION MAP
MINOR PROPERTY
4341 Howard Street
Oakland, California

Project No.: 1668

Date: 1/15/96

Prepared By: T. Fortner

Figure 2

ARTESIAN ENVIRONMENTAL

Table 1 Soil Laboratory Analytical Results
4341 Howard Street, Oakland, California

AEC BORINGS PERFORMED
FOR MINOR (EL MONTEREY CENTER)

Sample ID	Date Sampled	Sample Depth (feet)	EPA
			Method 8010 compounds μg/Kg
B1	10/13/95	8	<0.5
B2	10/13/95	8	<0.5
B3	10/13/95	11.5	<0.5

Notes

No targeted volatile halogenated compounds detected in soil samples
μg/Kg = micrograms per kilogram; equivalent to parts per billion (ppb)

ARTESIAN ENVIRONMENTAL

Table 2 Groundwater Laboratory Analytical Results
4341 Howard Street, Oakland, California

Sample ID	Date Sampled	trans	cis	Other EPA			Ethyl	Total		
		1,2 DCE µg/L	1,2 DCE µg/L	TCE µg/L	Method 8010 compounds	TPH-g mg/L	Benzene µg/L	Toluene µg/L	benzene µg/L	Xylenes µg/L
MW-1 (1)	6/25/93	NA	NA	NA	NA	<0.05 (2)	<0.5	<0.5	<0.5	<0.5
MW-1	7/27/93	NA	NA	NA	NA	0.25	1.7	<0.5	<0.5	<0.5
MW-1	4/27/94	NA	NA	NA	NA	0.34	2.1	<0.5	<0.5	<0.5
MW-1	7/29/94	NA	NA	NA	NA	0.41	1.8	<0.5	<0.5	<0.5
MW-1	10/25/94	NA	NA	NA	NA	<0.05	<0.5	<0.5	<0.5	<0.5
MW-1	3/23/95	12	36	220	ND(3)	0.08	1.6	<0.5	<0.5	<0.5
MW-1	10/16/95	7.2	91	91	ND	<0.05	0.6	<0.5	<0.5	<0.5
B1 AQ	10/13/95	<0.5	2.2	4.3	ND	NA	NA	NA	NA	NA
B2 AQ (4)	10/13/95	3.4	22	9.7	ND	NA	NA	NA	NA	NA
B3 AQ	10/13/95	9.4	120	83	ND	NA	NA	NA	NA	NA

Notes

- (1) Grab water sample collected during well installation
- (2) 0.37 mg/L of unknown compounds in gasoline range
- (3) All other EPA METHOD 8010 analytes were below laboratory reporting limits
- (4) Groundwater reacted with preservative forming small bubbles in VOA

mg/L = milligrams per Liter; equivalent to parts per million (ppm)

µg/L = micrograms per Liter; equivalent to parts per billion (ppb)

TPH-g = Total Petroleum Hydrocarbons as Gasoline

trans-1,2 DCE = trans 1,2 Dichloroethene

cis-1,2 DCE = cis 1,2 Dichloroethene

TCE = Trichloroethene

NA = Not Analyzed

MW8 : SOIL BORINGS

Table I. Summary of Soil Sample Analytical Results for BTEX and TOC BEI Job No. 92242, Bank of America 500 High Street, Oakland, California							
Sample ID	Sample Depth (feet)	Sample Date	EPA 415.1 (mg/kg)	BTEX EPA 8020 (µg/kg)			
			TOC	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW8-6.5	6.5	09/12/95	NA	<2.5	<2.5	<2.5	<2.5
MW8-9	9.0	09/12/95	300	NA	NA	NA	NA
MW8-14.5	14.5	09/12/95	280	<2.5	<2.5	<2.5	<2.5

Notes:

- TOC = Total Organic Carbon
- BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes
- mg/kg = Milligrams per kilogram
- µg/kg = Micrograms per kilogram
- NA = Not analyzed
- <x = Less than the method reporting limit (x)

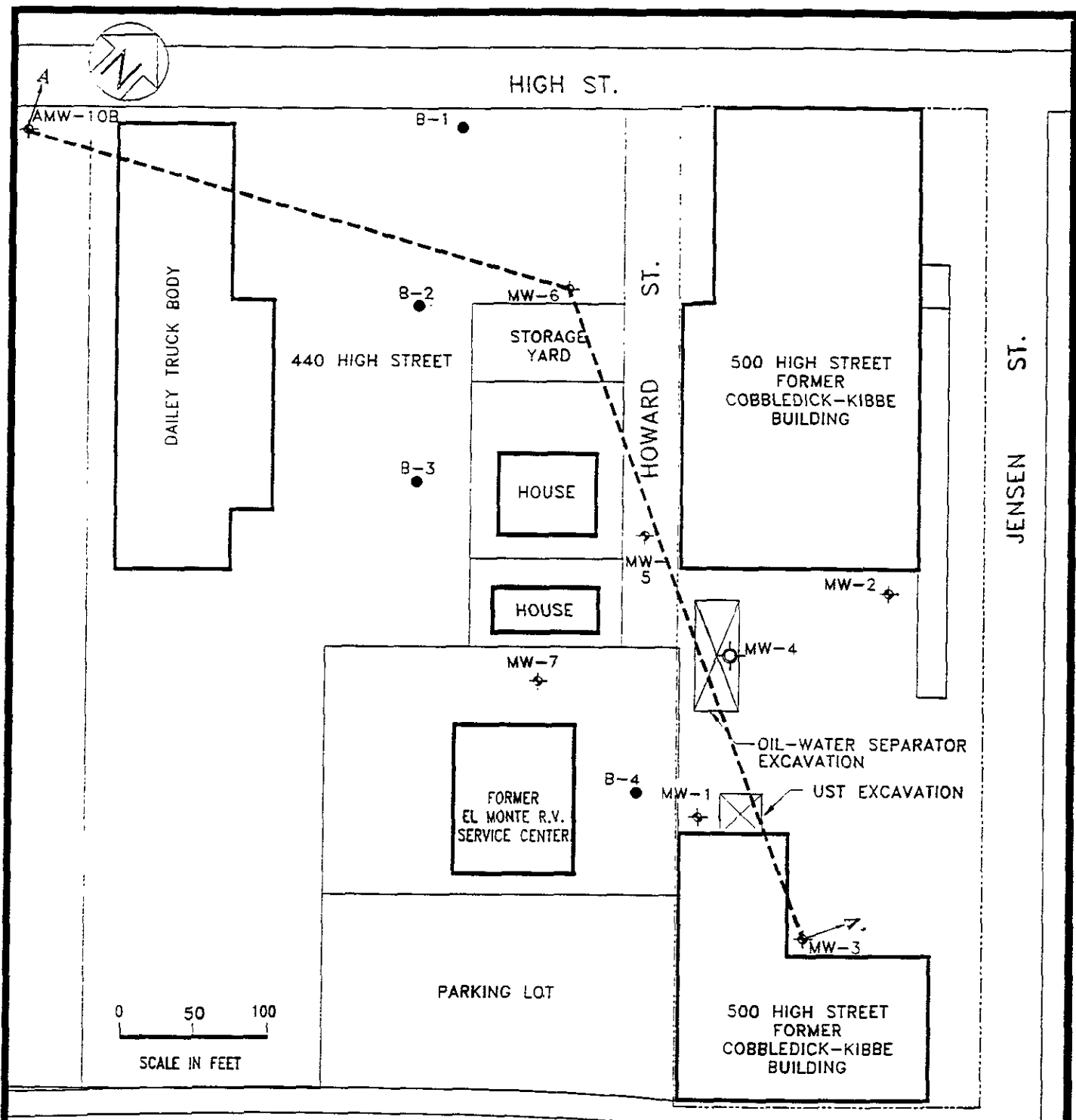
MW8 : SOIL DATA: Chlorinated Voc

Table II. Summary of Soil Sample Analytical Results for HVOs
 BEI Job No. 92242, Bank of America
 500 High Street, Oakland, California

Sample ID	Sample Depth (feet)	Sample Date	HVOs EPA Method 8010 (µg/kg)						
			Cis-1,2-DCE	Trans-1,2-DCE	1,1-DCE	TCE	1,1,1-TCA	1,1,2-TCA	Vinyl Chloride
MW8-6.5	6.5	9/12/95	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW8-14.5	14.5	9/12/95	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

- Notes:
- HVOs = Halogenated Volatile Organics
 - DCE = Dichloroethene
 - TCE = Trichloroethene
 - TCA = Trichloroethane
 - µg/kg = Micrograms per kilogram
 - <x = Less than the method reporting limit (x)

Shaded results indicate concentrations over the listed method detection limit.



BLYMYER ENGINEERS, INC.

BEI JOB NO. 92242 DATE 9/13/94

LEGEND

- ◆ MONITORING WELL LOCATION
- HYDROPUNCH BORE LOCATION
- ⊕ FORMER WELL LOCATION
- SECTION LINE

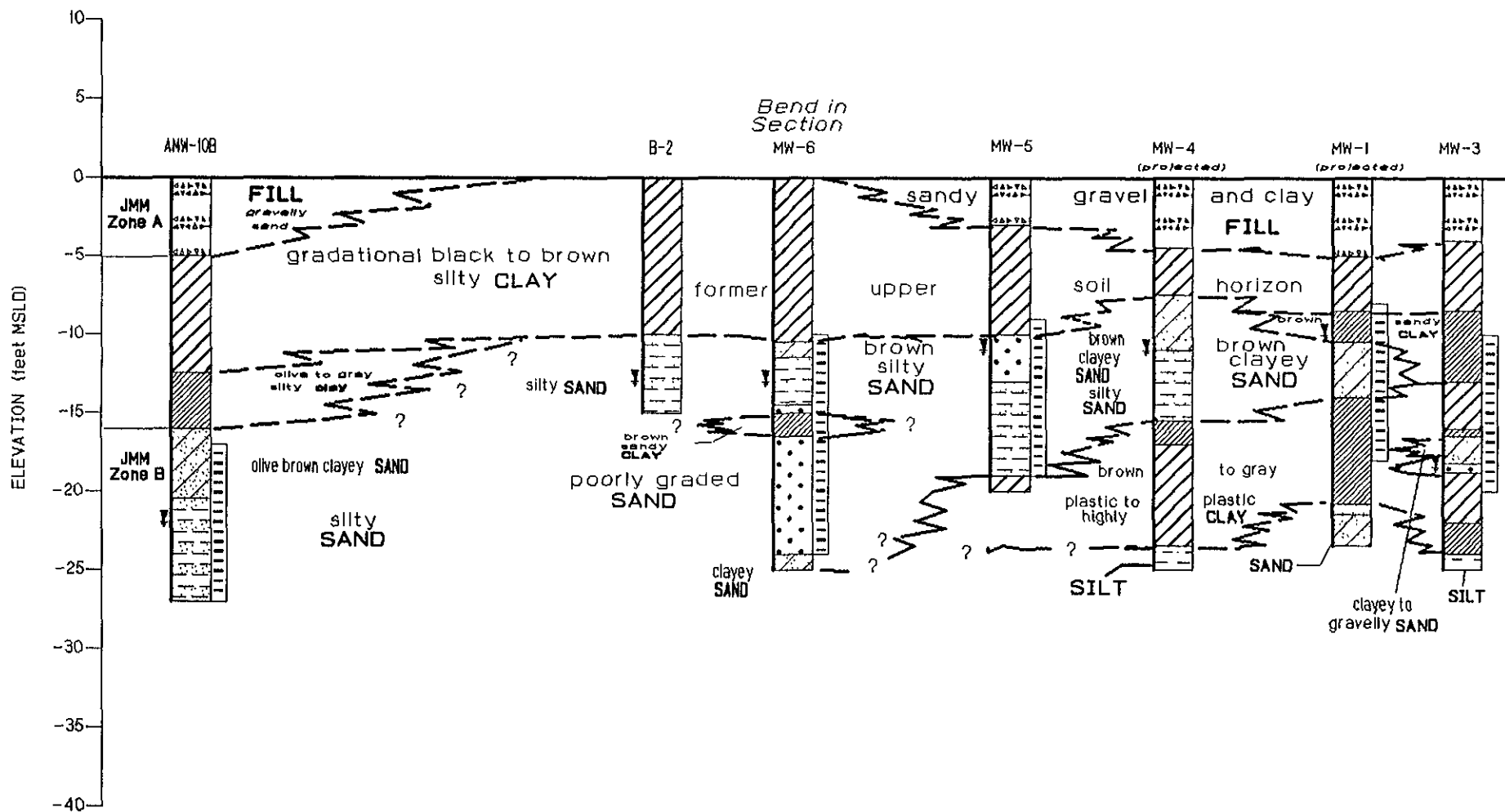
SITE VICINITY PLAN

BANK OF AMERICA
OAKLAND, CA

FIGURE

2

CROSS SECTION A-A'



LEGEND



Vertical Exaggeration = 13.00

Figure 3
Bank of America
500 High Street
Oakland, CA
BEI Job No. 92242

**Table 1. Summary of Groundwater Sample Analytical Results
for Petroleum Hydrocarbons
BEI Job No. 92242, Bank of America
500 High Street, Oakland, California**

Sample Identification	Sampling Date	Modified EPA Method 8015 (mg/L)		EPA Method 602 (µg/L)			
		TPH as diesel	TPH as gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-1	3/4/91	0.18	0.67	280	3.1	16	40
	11/26/91	<0.05	0.17	12	1.1	<0.5	4.9
	12/17/91	NA	NA	NA	NA	NA	NA
	9/13/93	<0.05	0.05	1.1	<0.5	<0.5	0.74
	4/27/94	0.13	0.08	5.2	<0.5	0.7	<0.5
	8/3/94	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	10/26/94	0.12°	<0.05	<0.5	<0.5	<0.5	<0.5
	3/22/95	0.16	0.21	14	<0.5	<0.5	<0.5
	6/26/95	0.18°	<0.05	0.8	<0.5	<0.5	<0.5
	10/12/95	0.09°	<0.05	<0.5	<0.5	<0.5	<0.5
	2/21/96	NA	NA	NA	NA	NA	NA
	8/22/96	NA	NA	NA	NA	NA	NA
2/24/97	NA	NA	NA	NA	NA	NA	
MW-2	3/4/91	<0.05	0.07	<0.5	<0.5	<0.5	<0.5
	11/26/91	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	12/17/91	NA	NA	NA	NA	NA	NA
	9/13/93	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	4/27/94	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	8/3/94	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	10/26/94	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	3/22/95	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	6/27/95	0.16°	<0.05	<0.5	<0.5	<0.5	<0.5
	10/12/95	0.14°	<0.05	<0.5	<0.5	<0.5	<0.5
	2/21/96	NA	NA	NA	NA	NA	NA
	8/21/96	NA	NA	NA	NA	NA	NA
2/24/97	NA	NA	NA	NA	NA	NA	
MW-3	3/4/91	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	11/26/91	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	12/17/91	NA	NA	NA	NA	NA	NA
	9/13/93	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	4/27/94	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	8/3/94	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	10/25/94	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	3/23/95	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	6/26/95	0.12°	<0.05	<0.5	<0.5	<0.5	<0.5
	10/13/95	0.08°	<0.05	<0.5	<0.5	<0.5	<0.5
	2/21/96	NA	NA	NA	NA	NA	NA

**Table I, Summary of Groundwater Sample Analytical Results
for Petroleum Hydrocarbons
BEI Job No. 92242, Bank of America
500 High Street, Oakland, California**

Sample Identification	Sampling Date	Modified EPA Method 8015 (mg/L)		EPA Method 602 (µg/L)			
		TPH as diesel	TPH as gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
	8/22/96	NA	NA	NA	NA	NA	NA
	2/24/97	NA	NA	NA	NA	NA	NA
MW-4	3/27/91	<0.05	0.17	2.7	<0.5	<0.5	<0.5
MW-5	11/26/91	<0.05	0.06	<0.5	0.7	<0.5	1.1
	12/12/91	NA	<0.05	<0.5	<0.5	<0.5	<0.5
	9/13/93	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	4/27/94	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	8/3/94	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	10/25/94	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	3/22/95	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	6/27/95	0.22 ^c	<0.05	<0.5	<0.5	<0.5	<0.5
	10/12/95	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	2/20/96	NA	NA	NA	NA	NA	NA
	8/21/96	NA	NA	NA	NA	NA	NA
	2/25/97	NA	NA	NA	NA	NA	NA
MW-6	3/19/92	0.073	<0.05	<0.5	<0.5	<0.5	<0.5
	9/13/93	<0.05	<0.05	<0.5	<0.5	<0.5	0.85
	4/27/94	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	8/3/94	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	10/26/94	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	4/6/95	<0.05	<0.05	<0.5	<0.5	<0.5	<0.5
	6/26/95	0.14 ^c	<0.05	<0.5	<0.5	<0.5	<0.5
	10/13/95	0.09 ^c	<0.05	<0.5	<0.5	<0.5	<0.5
	2/20/96	NA	NA	NA	NA	NA	NA
	8/21/96	NA	NA	NA	NA	NA	NA
	2/24/97	NA	NA	NA	NA	NA	NA
MW-7 @	4/27/94	<0.05	0.11	1.6	<0.5	<0.5	<0.5
	8/3/94	<0.05	0.14 ^b	6.5	<0.5	<0.5	<0.5
	10/25/94	0.08 ^c	0.23	1.0	0.8	<0.5	<0.5
	4/6/95	<0.05	<0.05	0.8	<0.5	<0.5	<0.5
	6/27/95	0.15 ^c	0.18 ^d	1.6	<0.5	<0.5	<0.5
	10/16/95	0.09 ^c	0.08	0.9	<0.5	<0.5	<0.5
	2/20/96	NA	NA	NA	NA	NA	NA
	8/21/96	NA	NA	NA	NA	NA	NA
	2/24/97	NA	NA	NA	NA	NA	NA

**Table I, Summary of Groundwater Sample Analytical Results
for Petroleum Hydrocarbons
BEI Job No. 92242, Bank of America
500 High Street, Oakland, California**

Sample Identification	Sampling Date	Modified EPA Method 8015 (mg/L)		EPA Method 602 (µg/L)			
		TPH as diesel	TPH as gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes
MW-8	10/12/95	0.11 ^{a,b}	<0.05	<0.5	<0.5	<0.5	<0.5
	2/20/96	NA	NA	NA	NA	NA	NA
	8/21/96	NA	NA	NA	NA	NA	NA
	2/25/97	NA	NA	NA	NA	NA	NA
PIT-1	12/17/91	NA	NA	NA	NA	NA	NA
B-1-AQ	4/27/94	0.19	<0.05	<0.5	1.6	<0.5	3.0
B-2-AQ	4/27/94	0.14	<0.05	<0.5	1.3	<0.5	1.9
B-3-AQ	4/27/94	0.18	<0.05	<0.5	0.8	<0.5	1.1
B-4-AQ	4/27/94	NA ^e	NA ^e	<0.5	0.9	<0.5	<0.5

Notes:

- mg/L = milligrams per liter
- µg/L = micrograms per liter
- TPH = Total Petroleum Hydrocarbons
- NA = Not analyzed
- ^a = Well installed by Mr. Jim Minor, trustee
- <x = less than the method reporting limit (x)
- DHS = Department of Health Services
- ^a = Insufficient water to allow analysis
- ^b = The laboratory reports this result as an unknown hydrocarbon with several peaks
- ^c = The laboratory reports that this result appears to be a heavier hydrocarbon than diesel.
- ^d = The laboratory reports that this result has an atypical pattern for gasoline analysis.
- ^e = The laboratory reports that Freon 113 was detected in the sample and the method blank at concentrations of 1.0 and 1.1 µg/L, respectively.

Bold results indicate concentrations above the listed method detection limit.

Maximum Contaminant Levels (MCLs) ^f	Benzene	=	1 µg/L (Primary DHS MCL)
	Toluene	=	150 µg/L (Primary DHS MCL)
	Ethylbenzene	=	700 µg/L (Primary DHS MCL)
	Total Xylenes	=	1,750 µg/L (Primary DHS MCL)

^f Information obtained from *Compilation of Federal and State Drinking Water Standards and Criteria*, July 1995, Quality Assurance Technical Document No. 3, State of California Department of Water Resources.

Table II, Summary of Groundwater Sample Analytical Results for HVOs
BEI Job No. 92242, Bank of America
500 High Street, Oakland, California

Sample Identification	Sampling Date	HVOs EPA Method 8010 (µg/L)							
		Chloroform	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	TCE	1,1,1-TCA	1,1,2-TCA	Vinyl Chloride
MW-1	3/4/91	<0.4	NA	NA	NA	NA	NA	NA	NA
	11/26/91	<0.4	NA	NA	NA	NA	NA	NA	NA
	12/17/91	<0.4	21	5.8	<0.4	58	<2.5	<2.5	<5.0
	9/13/93	<0.4	3.4	1.6	<0.4	22	<0.5	<0.5	<1.0
	4/27/94	<0.4	<0.4*	<0.4	<0.4	21	<1	<1	<0.4
	8/3/94	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<1	0.9
	10/26/94	<0.4	2.9	1.0	<0.4	19	<0.4	<1	<0.4
	3/22/95	<0.4	2.4	2.4	<0.4	16	<0.4	<1	<0.4
	6/26/95	<0.4	2.9	0.8	<0.4	16	<0.4	<1	<0.4
	10/12/95	<0.4	2.0	0.57	<0.4	18	<0.4	<1	<0.4
	2/21/96	<0.4	3.8	<0.4	<0.4	15	<0.4	<1	<0.4
	8/22/96	<0.4	1.7	1.2	<0.4	16	<0.4	<1	<0.4
2/24/97	<0.4	2.7	1.5	<0.4	13	<0.4	<1	<0.4	
MW-2	3/4/91	<0.4	NA	NA	NA	NA	NA	NA	NA
	11/26/91	<0.4	NA	NA	NA	NA	NA	NA	NA
	12/17/91	<0.4	<2.5	<2.5	<0.4	<2.5	<2.5	<2.5	<5.0
	9/13/93	<0.4	<0.5	<0.5	<0.4	<0.5	<0.5	<0.5	1.0
	4/27/94	<0.4	<0.4*	<0.4	<0.4	<0.4	<1	<1	<0.4
	8/3/94	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<1	<0.4
	10/26/94	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<1	<0.4
	3/22/95	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<1	<0.4
	6/27/95	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<1	<0.4
	10/12/95	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<1	<0.4
	2/21/96	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<1	<0.4
	8/21/96	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<1	<0.4
2/24/97	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<1	<0.4	

Table II, Summary of Groundwater Sample Analytical Results for HVOs
BEI Job No. 92242, Bank of America
500 High Street, Oakland, California

Sample Identification	Sampling Date	HVOs EPA Method 8010 (µg/L)							
		Chloroform	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	TCE	1,1,1-TCA	1,1,2-TCA	Vinyl Chloride
MW-3	3/4/91	<0.4	NA	NA	NA	NA	NA	NA	NA
	11/26/91	<0.4	NA	NA	NA	NA	NA	NA	NA
	12/17/91	<0.4	<2.5	<2.5	<0.4	4.0	<2.5	<2.5	<5.0
	9/13/93	<0.4	<0.5	<0.5	<0.4	1.8	<0.5	<0.5	<1.0
	4/27/94	<0.4	<0.4*	<0.4	<0.4	1.1	<1	<1	<0.4
	8/3/94	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<1	<0.4
	10/26/94	<0.4	<0.4	<0.4	<0.4	1.4	<0.4	<1	<0.4
	3/22/95	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<1	<0.4
	6/26/95	<0.4	<0.4	<0.4	<0.4	1.7	<0.4	<1	<0.4
	10/13/95	<0.4	<0.4	<0.4	<0.4	2.4	<0.4	<1	<0.4
	2/21/96	<0.4	<0.4	<0.4	<0.4	3.2	<0.4	<1	<0.4
	8/22/96	<0.4	0.8	<0.4	<0.4	3.0	<0.4	<1	<0.4
2/24/97	<0.4	1.3	<0.4	<0.4	4.3	<0.4	<1	<0.4	
MW-4	3/27/91	<0.4	NA	NA	NA	NA	NA	NA	NA
MW-5	11/26/91	<0.4	NA	NA	NA	NA	NA	NA	NA
	12/12/91	<0.4	55	32	<0.4	93	<1.0	<1.0	<2.0
	9/13/93	<0.4	11	9.1	<0.4	39	<0.5	<0.5	<1.0
	4/27/94	<0.4	27*	18	<0.4	51	<1	<1	1.4
	8/3/94	<0.4	36	<0.4	<0.4	<0.4	<0.4	<1	1.6
	10/26/94	<0.4	21	11	<0.4	52	<0.4	<1	<0.4
	3/22/95	<0.4	<0.4	17	<0.4	32	<0.4	<1	<0.4
	6/27/95	<0.4	12	9.6	<0.4	29	<0.4	<1	<0.4
	10/12/95	<0.4	11	5.1	<0.4	30	<0.4	<1	<0.4
2/20/96	<0.4	17	12	<0.4	26	<0.4	<1	<0.4	

Table II, Summary of Groundwater Sample Analytical Results for HVOs
BEI Job No. 92242, Bank of America
500 High Street, Oakland, California

Sample Identification	Sampling Date	HVOs EPA Method 8010 (µg/L)							
		Chloroform	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	TCE	1,1,1-TCA	1,1,2-TCA	Vinyl Chloride
	8/21/96	<0.4	10	8.5	<0.4	27	<0.4	<1	0.5
	2/25/97	<0.4	12	9.2	<0.4	24	<0.4	<1	<0.4
MW-6	3/19/92	<0.4	18	1.0	<0.4	42	5	<1	3
	9/13/93	<0.4	21	11	<0.4	43	<0.5	<0.5	<1.0
	4/27/94	<0.4	18 ^a	7.5	<0.4	35	<1	<1	<0.4
	8/3/94	<0.4	26	7.8	<0.4	37	<0.4	<1	1.0
	10/26/94	<0.4	16	6.0	<0.4	30	<0.4	<1	<0.4
	4/6/95	<0.4	12	6.4	<0.4	28	<0.4	<1	<0.4
	6/26/95	<0.4	15	9.2	<0.4	31	<0.4	<1	<0.4
	10/13/95	<0.4	16	5.4	<0.4	31	<0.4	<1	<0.4
	2/20/96	<0.4	9.8	6.1	<0.4	18	<0.4	<1	<0.4
	8/21/96	<0.4	13	7.9	<0.4	28	<0.4	<1	0.5
	2/24/97	<0.4	13	8.2	<0.4	31	<0.4	<1	0.5
PIT-1	12/17/91	<0.4	2.8	1.3	<0.4	3.2	3.1	<2.5	<5.0
MW-7^b	4/27/94	<0.4	200 ^a	25	<0.4	130	<1	<1	3.6
	8/3/94	<0.4	210	<0.4	<0.4	180	<0.4	<1	1.4
	10/26/94	<0.4	200	22	0.7	180	<0.4	<1	<0.4
	4/6/95	<0.4	53	12	1.5	190	<0.4	<1	0.9
	6/27/95	<0.4	120	18	1.6	230	<0.4	<1	2.1
	10/12/95	<2.0	150	16	2.2	150	<2	<2	<2
	2/20/96	<0.4	110	21	2.1	130	<0.4	<1	<0.4
	8/21/96	<0.4	98	22	1.7	310	<0.4	<1	1.2
	2/24/97	<0.4	96	24	2.3	210	<0.4	<1	2.1

Table II, Summary of Groundwater Sample Analytical Results for HVOs
BEI Job No. 92242, Bank of America
500 High Street, Oakland, California

Sample Identification	Sampling Date	HVOs EPA Method 8010 (µg/L)							
		Chloroform	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	TCE	1,1,1-TCA	1,1,2-TCA	Vinyl Chloride
MW-8	10/12/95	0.54	5.7	2.7	<0.4	13	<0.4	<1	<0.4
	2/20/96	<0.4	5.9	4.1	<0.4	8.2	<0.4	<1	<0.4
	8/21/96	<0.4	4.2	3.4	<0.4	10	<0.4	<1	<0.4
	2/25/97	<0.4	4.2	3.1	<0.4	8.5	<0.4	<1	<0.4
B-1-AQ	4/27/94	<0.4	12*	3.7	<0.4	4.5	<1	<1	1.1
B-2-AQ	4/27/94	<0.4	5.0*	0.4	<0.4	<0.4	<1	<1	<0.4
B-3-AQ	4/27/94	<0.4	10*	0.4	<0.4	16	<1	<1	<0.4
B-4-AQ	4/27/94	<0.4	<0.4*	<0.4	<0.4	11	<1	<1	<0.4

Table II, Summary of Groundwater Sample Analytical Results for HVOs, continued

Notes:

- HVOs = Halogenated Volatile Organics
DCE = Dichloroethene
TCE = Trichloroethene
TCA = Trichloroethane
µg/L = micrograms per liter
NA = Not analyzed
<x = less than the method reporting limit (x)
^a = Technically nonreportable concentration, cis-1,2-DCE laboratory standard was not run by laboratory; please refer to *Status Report, Former Cobbledick-Kibbe Site*, dated June 16, 1994, by Blymyer Engineers, Inc.
^b = Well installed by Mr. Jim Minor, Trustee

Bold results indicate concentrations over the listed method detection limit.

Maximum Contaminant Levels (MCLs) ^c :	cis-1,2-DCE	=	6 µg/L (Primary DHS MCL)
	trans-1,2-DCE	=	10 µg/L (Primary DHS MCL)
	1,1-DCE	=	6 µg/L (Primary DHS MCL)
	TCE	=	5 µg/L (Primary DHS MCL)
	1,1,1-TCA	=	200 µg/L (Primary DHS MCL)
	1,1,2-TCA	=	5 µg/L (Primary DHS MCL)
	Vinyl Chloride	=	0.5 µg/L (Primary DHS MCL)

^c Information obtained from *Compilation of Federal and State Drinking Water Standards and Criteria*, July 1995, Quality Assurance Technical Document No. 3, State of California Department of Water Resources.

EA-5818. Additionally, benzene was reinput into the program to allow modification of chemical parameters, specifically use of the California Environmental Protection Agency (CalEPA) cancer potency factor (slope factor) of 0.1 kg-day/mg, in comparison to the Federal EPA slope factor of 0.029 kg-day/mg, using the chemical and toxicological data from the *RBCA Tool Kit* as a resource. This change was requested in point 5 in the February 20, 1997 ACHCSA letter. Identified COCs included 1,1-DCE, cis-1,2 DCE, trans-1,2-DCE, 1,1,1-TCA, 1,1,2-TCA, TCE, VC, and BTEX. Methylene Chloride has been excluded due to the probability that it is a laboratory contaminant. Copies of the data output files for all chemicals are included as Appendix F.

3.1.6 Representative COC Concentrations

Screen 7 allows input of *Representative COCs Concentrations in Source Media*. Representative soil COC concentrations used specifically included the five UST closure confirmation soil samples; soil samples from soil bores MW-1, MW-4, MW-7, MW-8; and soil samples P-3, AS-1, AS-5, and AS-6 from the vicinity of the former OWS, as requested by the ACHCSA in their February 20, 1997 letter. The mean analytical concentration from these samples was assumed to be representative of source-zone soil analytical concentrations. Other soil samples were excluded as they were not from the general vicinity around the two source zones. As a conservative technique, Blymyer Engineers combined analytical data from the two source zones (UST-related and OWS-related) and modeled a single source zone zero feet upgradient from the residential units (as discussed above). The mean of groundwater analytical samples from monitoring wells MW-5, MW-7, and MW-8, over the past four sampling events, were assumed to be representative of groundwater COCs, as requested by the February 20, 1997 ACHCSA letter. In each case the mean was calculated using a subroutine within the modeling program. Copies of the data output files for the results of these calculations are included as Appendix G.

3.1.7 Site-Specific Parameters

Screen 8.1 allows *Site-Specific Soil Parameters* to be input. These parameters include vadose zone thickness, capillary zone thickness, depth to groundwater, and a number of other parameters. Screen 8.2 allows *Site-Specific Groundwater Parameters* to be input, and screen 8.3 allows *Site-Specific Air Parameters* to be input. Screen 8.4 allows *Site-Specific Building Parameters* to be input. If site-specific parameters were not available the *RBCA Tool-Kit* default parameters were used. A printout of the parameters used in this project are included as Appendix E.

Barney,

After I reviewed the final/amended risk assessment, I had couple of questions regarding the porosity values used in table III of the risk assessment documents. Mark called me today and explained that the saturation % used is the moisture content measured on ^{site} and what is given as moisture content is ~~not~~ really a misnomer and has something to do with density/compaction etc. So, based on the info given, it looks like the risk assessment is fine.

Madhulla

RBCA SITE ASSESSMENT

Tier 2 Worksheet 5.8

Site Name: Former Cobble Dick-Kibbe Site Completed By: Mark Detterman
 Site Location: 500 High Street, Oakland, CA Date Completed: 3/31/1997 1 of 1

TIER 2 GROUNDWATER CONCENTRATION DATA SUMMARY

CONSTITUENTS DETECTED		Analytical Method	Detected Concentrations				
		Typical Detection Limit (mg/L)	No. of Samples	No. of Detects	Maximum Conc. (mg/L)	Mean Conc. (mg/L)	UCL on Mean Conc. (mg/L)
71-43-2	Benzene - CA	5.0E-04	9	9	1.0E-03	1.0E-03	#DIV/0!
75-35-4	Dichloroethene, 1,1-	4.0E-04	12	12	2.3E-03	2.1E-03	2.2E-03
156-59-2	Dichloroethene, cis-1,2-	4.0E-04	12	12	1.5E-01	1.9E-02	3.3E-02
156-60-5	Dichloroethene, 1,2-trans-	4.0E-04	12	12	2.4E-02	1.1E-02	1.4E-02
100-41-4	Ethylbenzene	5.0E-04	9	9	0.0E+00	#DIV/0!	#DIV/0!
108-88-3	Toluene	5.0E-04	9	9	8.0E-04	8.0E-04	#DIV/0!
79-01-6	Trichloroethene	4.0E-04	12	12	3.1E-01	3.7E-02	6.1E-02
75-01-4	Vinyl chloride	4.0E-04	12	12	2.1E-03	1.1E-03	1.4E-03
1330-20-7	Xylene (mixed isomers)	5.0E-04	9	9	0.0E+00	#DIV/0!	#DIV/0!

value is small, did not calculate UCL

Serial: g-301-www-7

Software: GSI RBCA Spreadsheet

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Version: 1.0.1

Why UCL on some & no UCL on some?

RBCA SITE ASSESSMENT

Tier 2 Worksheet 8.3

Site Name: Former Cobble Dick-Kibbe Site
 Site Location: 500 High Street, Oakland, CA

Completed By: Mark Detterman
 Date Completed: 3/31/1997

1 of 1

TIER 2 BASELINE RISK SUMMARY TABLE

EXPOSURE PATHWAY	BASELINE CARCINOGENIC RISK					BASELINE TOXIC EFFECTS				
	Individual COC Risk		Cumulative COC Risk		Risk Limit(s) Exceeded?	Hazard Quotient		Hazard Index		Toxicity Limit(s) Exceeded?
	Maximum Value	Target Risk	Total Value	Target Risk		Maximum Value	Applicable Limit	Total Value	Applicable Limit	
OUTDOOR AIR EXPOSURE PATHWAYS										
Complete:	1.6E-9	1.0E-6	1.8E-9	1.0E-6	<input type="checkbox"/>	2.1E-5	1.0E+0	2.2E-5	1.0E+0	<input type="checkbox"/>
INDOOR AIR EXPOSURE PATHWAYS										
Complete:	1.4E-7	1.0E-6	2.3E-7	1.0E-6	<input type="checkbox"/>	1.9E-3	1.0E+0	1.9E-3	1.0E+0	<input type="checkbox"/>
SOIL EXPOSURE PATHWAYS										
Complete:	7.5E-9	1.0E-6	8.7E-9	1.0E-6	<input type="checkbox"/>	2.0E-4	1.0E+0	2.7E-4	1.0E+0	<input type="checkbox"/>
GROUNDWATER EXPOSURE PATHWAYS										
Complete:	NC	1.0E-6	NC	1.0E-6	<input checked="" type="checkbox"/>	NC	1.0E+0	NC	1.0E+0	<input checked="" type="checkbox"/>
CRITICAL EXPOSURE PATHWAY (Select Maximum Values From Complete Pathways)										
	1.4E-7	1.0E-6	2.3E-7	1.0E-6	<input type="checkbox"/>	1.9E-3	1.0E+0	1.9E-3	1.0E+0	<input type="checkbox"/>

Site Name: Former Cobbledick-Kibbe Site

Site Location: 500 High Street, Oakland, CA

Completed By: Mark Detterman

Date Completed: 3/31/1997

2 OF 4

TIER 2 PATHWAY RISK CALCULATION

INDOOR AIR EXPOSURE PATHWAYS

CHECKED IF PATHWAYS ARE ACTIVE

Constituents of Concern	CARCINOGENIC RISK				TOXIC EFFECTS			
	(1) EPA Carcinogenic Classification	(2) Total Carcinogenic Intake Rate (mg/kg/day) On-Site Residential	(3) Inhalation Slope Factor (mg/kg-day) ⁻¹	(4) Individual CDC Risk (2) x (3) On-Site Residential	(5) Total Toxicant Intake Rate (mg/kg/day) On-Site Residential	(6) Inhalation Reference Dose (mg/kg-day)	(7) Individual COC Hazard Quotient (5) / (6) On-Site Residential	
Benzene - CA	A	1.4E-8	1.0E-1	1.4E-7	3.2E-6	1.7E-3	1.9E-3	
Dichloroethene, 1,1-		6.7E-8	1.8E-1	1.2E-8	1.6E-7	9.0E-3	1.7E-5	
Dichloroethene, cis-1,2-	D							
Dichloroethene, 1,2-trans-								
Ethylbenzene	D				2.9E-6	2.9E-1	1.0E-5	
Toluene	D				4.9E-7	1.1E-1	4.3E-6	
Trichloroethene		1.1E-5	6.0E-3	6.7E-8				
Vinyl chloride	A	5.4E-8	3.0E-1	1.6E-8				
Xylene (mixed isomers)	D				5.3E-7	2.0E+0	2.6E-7	

Total Pathway Carcinogenic Risk = 2.3E-7 0.0E+0

Total Pathway Hazard Index = 1.9E-3 0.0E+0

Site Name: Former Cobbleclick-Kibbe Site

Site Location: 500 High Street, Oakland, CA

Completed By: Mark Detterman

Date Completed: 3/31/1997

1 OF 4

TIER 2 PATHWAY RISK CALCULATION

OUTDOOR AIR EXPOSURE PATHWAYS

(CHECKED IF PATHWAYS ARE ACTIVE)

Constituents of Concern	(1) EPA Carcinogenic Classification	CARCINOGENIC RISK				TOXIC EFFECTS			
		(2) Total Carcinogenic Intake Rate (mg/kg/day) On-Site Residential	(3) Inhalation Slope Factor (mg/kg-day) ⁻¹	(4) Individual COC Risk (2) x (3) On-Site Residential	(5) Total Toxicant Intake Rate (mg/kg/day) On-Site Residential	(6) Inhalation Reference Dose (mg/kg-day)	(7) Individual COC Hazard Quotient (5) / (6) On-Site Residential		
Benzene - CA	A	1.6E-8	1.0E-1	1.6E-9	3.7E-8	1.7E-3	2.1E-5		
Dichloroethene, 1,1-		1.3E-10	1.8E-1	2.4E-11	3.1E-10	9.0E-3	3.5E-8		
Dichloroethene, cis-1,2-	D								
Dichloroethene, 1,2-trans-									
Ethylbenzene	D				5.3E-8	2.9E-1	1.9E-7		
Toluene	D				1.0E-8	1.1E-1	8.8E-8		
Trichloroethene		2.8E-8	6.0E-3	1.7E-10					
Vinyl chloride	A	1.1E-10	3.0E-1	3.2E-11					
Xylene (mixed isomers)	D				1.6E-8	2.0E+0	7.8E-9		
Total Pathway Carcinogenic Risk =				1.8E-9	0.0E+0	Total Pathway Hazard Index =		2.2E-5	0.0E+0

EMERGENCY
PROTECTION
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