

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



LOP closed

Alameda County CC4580
Environmental Health Services
1131 Harbor Bay Pkwy., #250
Alameda CA 94502-6577
(510)567-6700 FAX(510)337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 3232 - 9000 E. 14th Street, Oakland, CA

May 24, 1996

Dr. Lowell Davis
36 Fenton Street
Livermore, CA 94550

Dear Dr. Davis:

This letter confirms the completion of site investigation and remedial action for the six former underground storage tanks (1-6K, 1-4K, 1-2K, 1-1K, 1-750 gallon gasoline and 1-250 gallon waste oil tank) removed from the above site on November 4, 1993. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, 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 Title 23, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations. Please contact Ms. Eva Chu at (510) 567-6700 if you have any questions regarding this matter.

Very truly yours,

Mee Ling Tung, Director

cc: Chief, Division of Environmental Protection
Kevin Graves, RWQCB
Lori Casias, SWRCB (with attachment)
~~files~~ (ardavis.10)

0 01-231

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: January 5, 1996

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy
City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
Responsible staff person: Eva Chu Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Former Gas Station
Site facility address: 9000 E. 14th St, Oakland 94603
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 3232
URF filing date: 11/18/93 SWEEPS No: N/A

<u>Responsible Parties:</u>	<u>Addresses:</u>	<u>Phone Numbers:</u>
Lowell Davis	36 Fenton St, Livermore 94550	510/447-3100

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	2,000	Gasoline	Removed	11/4/93
2	750	"	"	"
3	1,000	"	"	"
4	4,000	"	"	"
5	6,000	"	"	"
6	250	Waste Oil	"	"

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown
Site characterization complete? YES
Date approved by oversight agency: 9/22/94
Monitoring Wells installed? Yes Number: 3
Proper screened interval? Yes, 10 to 25' bgs
Highest GW depth below ground surface: 6.98' Lowest depth: 11.85' in MW-2
Flow direction: W, SW
Most sensitive current use: Commercial/residential
Are drinking water wells affected? No Aquifer name: Unknown
Is surface water affected? No Nearest affected SW name: NA
Off-site beneficial use impacts (addresses/locations): None

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

95 FEB 14 1996
ENVIRONMENTAL
PROTECTION
DIVISION
PH 1:41

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount (include units)</u>	<u>Action (Treatment or Disposal w/destination)</u>	<u>Date</u>
Tank & Piping	6 USTs	Disposed by Erickson in Richmond	11/4/93
Soil	126 cy	Disposed at Vasco Rd L.F. in Livermore	1/11/94

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>		
	<u>Before¹</u>	<u>After</u>	<u>Before</u>	<u>After</u>	
TPH (Gas)	67	67	ND	ND	
TPH (Diesel)	350 ²	540 ⁴	1,400	ND	ND
Benzene	0.0087	0.0087	ND	ND	
Toluene	0.0120	0.0120	ND	ND	
Ethylbenzene	0.0170	0.0170	ND	ND	
Xylenes	0.0430	0.0430	ND	ND	
Oil & Grease	1,800 ²	1,800	1,300 ³	ND	
Heavy metals					
Other					

- NOTE
- 1 From gasoline pit
 - 2 From waste oil pit during overexcavation
 - 3 "Grab" groundwater from waste oil pit
 - 4 Sidewall sample, SWE, after 1st overexcavation of waste oil pit

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

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: **None**

Should corrective action be reviewed if land use changes? **YES**
 Monitoring wells Decommissioned: **No, pending site closure**
 Number Decommissioned: **0** Number Retained: **3**
 List enforcement actions taken: **NOV issued 4/4/94**

List enforcement actions rescinded: **Above, in compliance**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature: *Eva Chu* Date: 1/5/96

Reviewed by

Name: Barney Chan Title: Haz Mat Specialist

Signature: *Barney Chan* Date: 1/5/96

Name: Dale Klettke Title: Haz Mat Specialist

Signature: *Dale Klettke* Date: 1/5/96

VI. RWQCB NOTIFICATION

Date Submitted to RB: 1/8/96 RB Response: *Approved*

RWQCB Staff Name: Kevin Graves Title: AWRCE

Signature: *Kevin Graves* Date: 1/3/95

VII. ADDITIONAL COMMENTS, DATA, ETC.

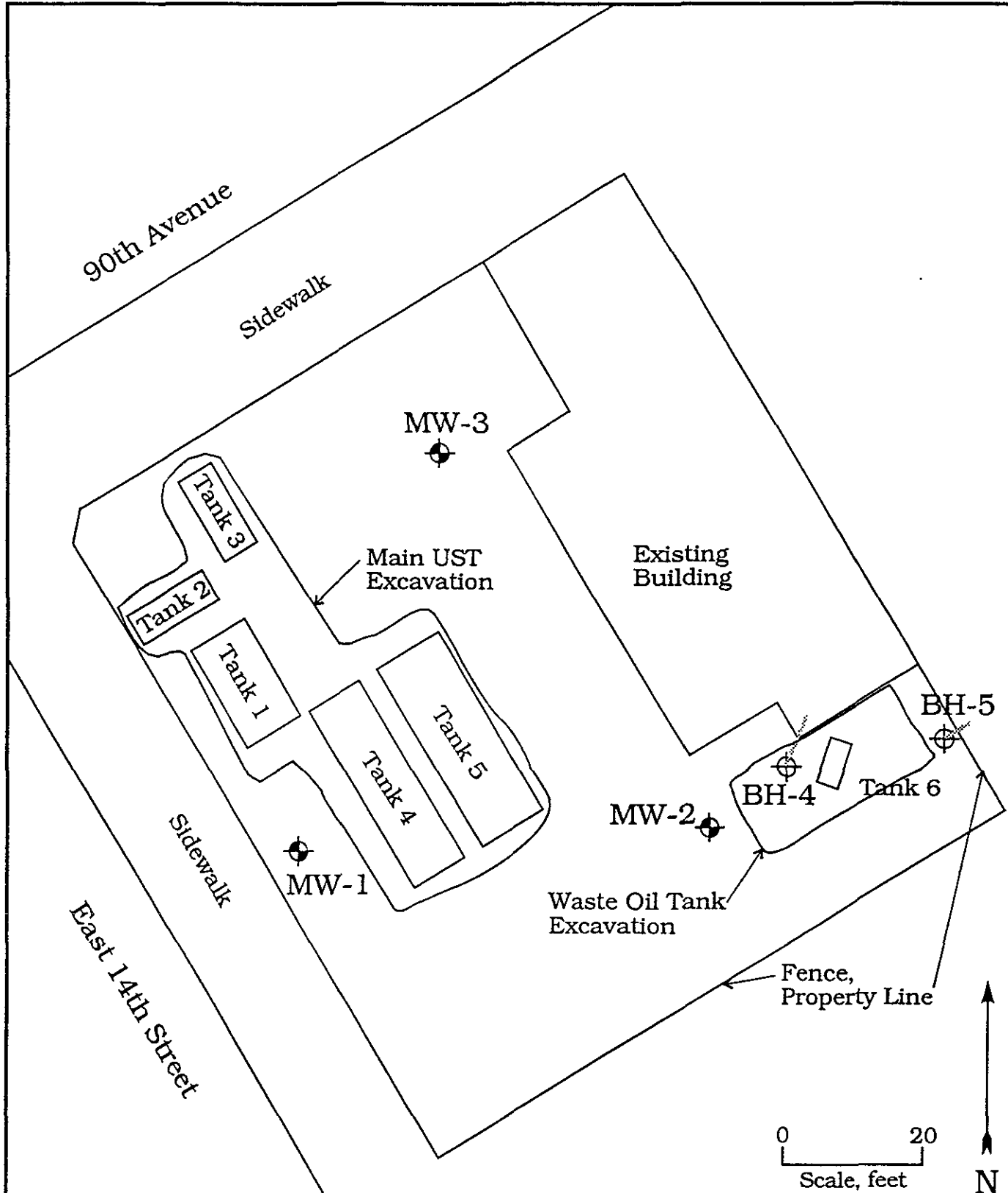
Six USTs (1-6K, 1-4K, 1-2K, 1-1K, and 1-750 gallon gasoline USTs in one pit; 1-250 gallon waste oil UST in another pit) were removed on November 4, 1993. Soil sample EBN-5E collected from beneath tank 3, the 1K UST, exhibited the highest level of hydrocarbons in the gasoline pit, at 67 ppm TPH-G, and trace levels of BTEX. A soil sample from beneath the waste oil UST exhibited up to 79 ppm TPH-D, 370 ppm TOG, and did not detect TPH-G, BTEX, or HVOCs. The levels of metals, Cd, Cr, Pb, Ni, and Zn, detected were <10x STLC. Analysis for SVOCs were not performed. (See Fig 1, 2, and Table 1)

The waste oil pit was overexcavated to the extent possible, removing a total of approximately 126 cy hydrocarbon-impacted soil. Excavation did not extend beyond the northeast wall, at the edge of the property line, and did not extend beyond the northwest wall, at the edge of the service building. Up to 1,800 ppm TOG and 540 ppm TPH-D were left in place in the NE wall; and up to 770 ppm TOG and 290 ppm TPH-D were left in place in the NW wall. At a depth of 13' groundwater entered the excavation. A grab groundwater sample was analyzed for only TPH-D and TOG. Up to 1.3 ppm TOG was detected. (See Fig 3, Table 2)



On August 5, 1994 three monitoring wells and two soil borings were advanced to determine if groundwater quality was impacted by the hydrocarbon release, and to delineate the extent of soil contamination under the building and across the property line. Soil and groundwater samples

collected during this phase of the investigation did not detect remarkable levels of petroleum hydrocarbons. It appears residual TPH-D and TOG in the waste oil pit is very limited in extent. (See Fig 1, Table 3)

Groundwater was sampled for five consecutive quarters (from Aug 1994 to Sep 1995) without detecting TPH-G, TPH-D, BTEX, or TOG. (See Table 4). Groundwater does not appear to be impacted by the fuel release at this site. Residual hydrocarbons in soil is not of human health risk. Continued sampling is not warranted.



Explanation

-  Monitoring Well, Installed by AEI on 8/5/94.
-  Angled Boring - Gray Line Shows Projection of Hole at Depth.

ALL ENVIRONMENTAL, INC.
 2641 CROW CANYON ROAD, SAN RAMON, CA

DRAWN BY:	REVISED BY:
DATE:	APPROVED BY:

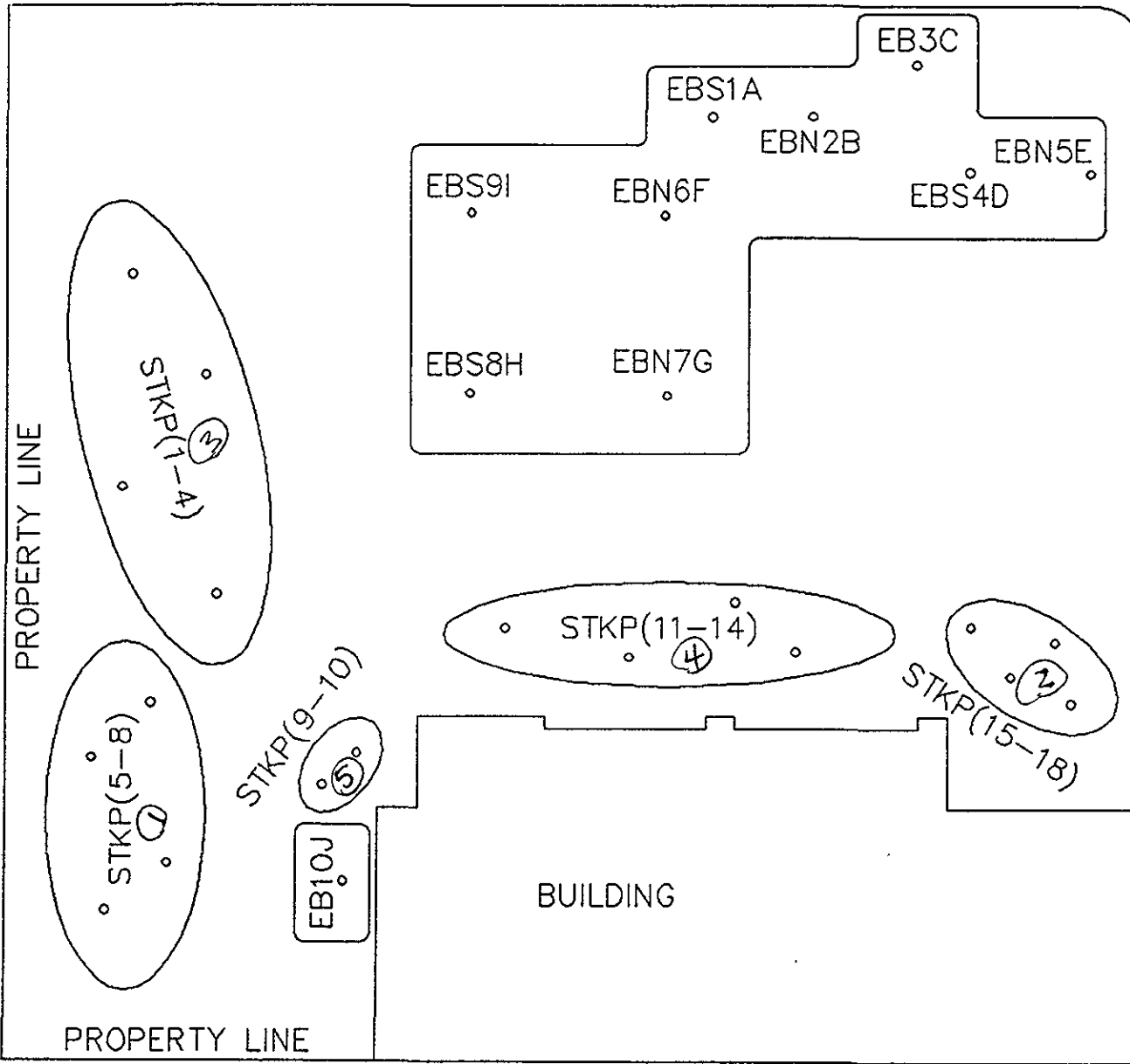
SITE PLAN - Davis

9000 E. 14th Street, Oakland

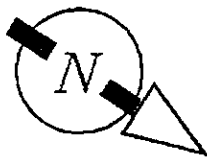
FIGURE 21

E. 14TH STREET

SIDEWALK



90TH AVE.



ALL ENVIRONMENTAL, INC.
 2641 CROW CANYON RD, SAN RAMON

SCALE: NOT TO SCALE	APPROVED BY:	DRAWN BY: S.P.
DATE: 11/18/93		REVISED: S.P.

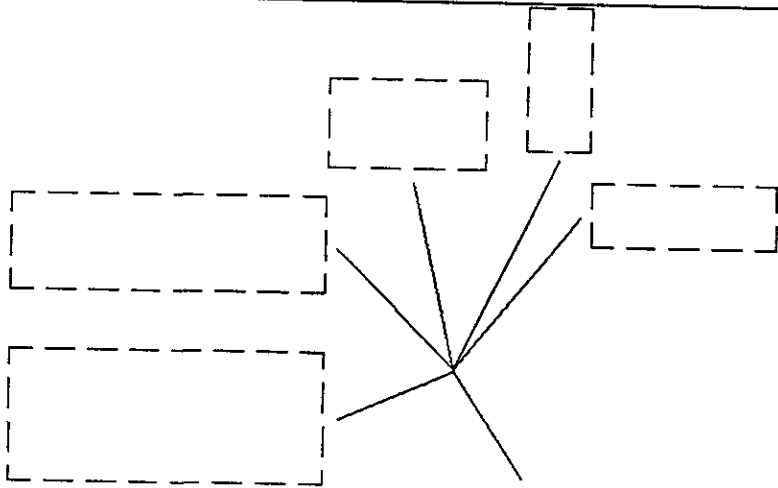
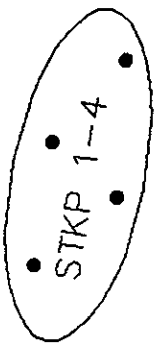
SAMPLE LOCATION MAP

9000 E. 14TH ST. DRAWING NUMBER: FIGURE 2

E. 14TH STREET

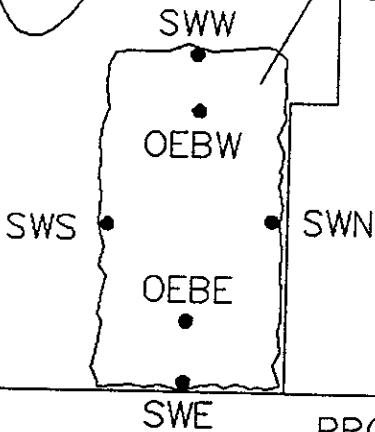
SIDEWALK

PROPERTY LINE



PREVIOUS GASOLINE UST LOCATIONS

WASTE OIL EXCAVATION

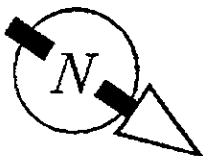


BUILDING

PROPERTY LINE

SIDEWALK

90TH AVE.



AG 3

ALL ENVIRONMENTAL, INC. 2641 CROW CANYON RD, SAN RAMON		
SCALE: NOT TO SCALE	APPROVED BY:	DRAWN BY: S.P.
DATE: 4/18/84		REVISED: S.P.
INITIAL SAMPLE LOCATIONS		
9000 E 14TH ST		DRAWING NUMBER:

Table 1: Results of Soil Sample Analyses

Sample I.D.	Gasoline (mg/kg)	Diesel (mg/kg)	Oil and Grease (mg/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl Benzene (ug/kg)	Xylenes (ug/kg)
EBS-1A	N.D.	---	---	N.D.	N.D.	N.D.	N.D.
EBN-2B	N.D.	---	---	N.D.	N.D.	N.D.	N.D.
EB-3C	N.D.	---	---	N.D.	N.D.	N.D.	N.D.
EBS-4D	N.D.	---	---	N.D.	N.D.	N.D.	N.D.
EBN-5E	67	---	---	8.7	12	17	43
EBN-6F	N.D.	---	---	N.D.	N.D.	N.D.	N.D.
EBN-7G	N.D.	---	---	N.D.	N.D.	N.D.	N.D.
EBS-8H	N.D.	---	---	N.D.	N.D.	N.D.	N.D.
EBS-9I	N.D.	---	---	N.D.	N.D.	N.D.	N.D.
EB-10J	N.D.	79	370	N.D.	N.D.	N.D.	N.D.
STKP(1-4)*	N.D.	---	---	N.D.	N.D.	N.D.	N.D.
STKP(5-8)*	N.D.	---	---	N.D.	N.D.	N.D.	N.D.
STKP(9-10)*	N.D.	140	740	N.D.	N.D.	N.D.	N.D.
STKP(11-14)*	N.D.	---	---	N.D.	N.D.	N.D.	N.D.
STKP(15-18)*	N.D.	---	---	N.D.	N.D.	N.D.	N.D.

(mg/kg) = ppm or parts per million

(ug/kg) = ppb or parts per billion

N.D. = Not Detected

--- = not analyzed

* Compositied soil samples

Copies of the analytical results and chain of custody are located in Appendix D.

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Table 4: Initial Overexcavation Sample Results

Sample I.D.	Gasoline (mg/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl Benzene (ug/kg)	Total Xylenes (ug/kg)	Diesel (mg/kg)	Oil & Grease (mg/kg)
OEBW	N.D.	N.D.	N.D.	N.D.	N.D.	350	680
OEBE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	16
SWE	N.D.	N.D.	N.D.	N.D.	N.D.	540	1800
SWN	N.D.	N.D.	N.D.	N.D.	N.D.	290	770
SWS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SWW	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	360
STKP 1-4 *	N.D.	N.D.	N.D.	N.D.	N.D.	190	910

(mg/kg) = ppm or parts per million

(ug/kg) = ppb or parts per billion

N.D. = Not Detected

---- = Not Analyzed For

* Compositied soil samples

On December 21, an additional 51 cubic yards of soil was removed from within the waste oil excavation. Following the continued overexcavation activities, three soil samples were taken from the excavation bottom (OE-2N, OE-2S, & OE-2W), one sample was taken from the west side wall (SWW) at a depth of 4 feet, and one groundwater sample was collected from within the excavation (WOW). The sidewall sample was collected under the guidance of Eva Chu (Alameda County Hazardous Materials Specialist) after possible soil staining was observed on the west sidewall. Analytical results from these samples can be found in Table II: Continued Overexcavation Sample Results, and a copy from the laboratory is enclosed in appendix B. Figure 4 shows the final sample locations.

per phone in person

³
Table 1 - Soil Sample Analyses

Soil ID	TPHG mg/Kg	TPHD mg/Kg	Benz. ug/Kg	Tol. ug/Kg	Ethyl Benzene ug/Kg	Xylene ug/Kg	Oil & Grease mg/Kg
MW-1, L-1 (6')	ND	1.3	ND	ND	ND	ND	24
MW-1, L-2 (11')	18	5.2	11	17	15	39	25
MW-2, L-1 (6')	ND	ND	ND	ND	ND	ND	ND
MW-2, L-2 (11')	ND	1.1	ND	ND	ND	ND	ND
MW-3, L-1 (6')	ND	1.8	ND	ND	ND	ND	12
MW-3, L-2 (11')	ND	ND	ND	ND	ND	ND	10
BH-4, L-2 (15')	ND	ND	ND	ND	ND	ND	26
BH-5, L-2 (15')	ND	1.8	ND	ND	ND	ND	ND

³
Conct. Table 2 - Water Sample Analyses

Water	TPHG ug/L	TPHD ug/L	Benz. ug/L	Tol. ug/L	Et.Ben ug/L	Xylene ug/L
MW-1	ND	1400	ND	ND	ND	ND
MW-2	ND	ND	ND	ND	ND	ND
MW-3	ND	ND	ND	ND	ND	ND

mg/Kg and mg/L = ppm; ug/Kg and ug/L = ppb; ND = not detected

Laboratory results and chain of custody documents are included in Appendix C, Analytical Results.

the only analysis that was necessary. Results of analyses for TOG in the water sample obtained from MW-1 was non-detectable (ND). Current groundwater sample analyses with chain of custody documentation are included in Appendix B. Analytical data and chain of custody documentation for the previous sampling episodes are included in Appendix C.

Tables 2 through 4 present analytical results of quarterly groundwater sampling to date.

Table ⁴~~2~~ - Water Sample Analysis Results, Well No. MW-1

Compound	Aug. 1994	Nov. 1994	Feb. 1995	May 1995	Sept. 1995
TPH-G (ug/L)	ND	ND	ND	ND	ND
TPH-D (ug/L)	1400	ND	ND	ND	ND
Benzene (ug/L)	ND	ND	ND	ND	ND
Toluene (ug/L)	ND	ND	ND	ND	ND
Et. Benz. (ug/L)	ND	ND	ND	ND	ND
Xylene (ug/L)	ND	ND	ND	ND	ND
TOG (mg/L)	NA	NA	NA	NA	ND

ug/L = ppb

mg/L = ppm

ND = Not Detected

NA = Not Analyzed

4
 Cont. Table 3 - Water Sample Analysis Results, Well No. MW-2

Compound	Aug. 1994	Nov. 1994	Feb. 1995	May 1995	Sept. 1995
TPH-G (ug/L)	ND	ND	ND	ND	ND
TPH-D (ug/L)	ND	ND	ND	ND	ND
Benzene (ug/L)	ND	ND	ND	ND	ND
Toluene (ug/L)	ND	ND	ND	ND	ND
Et. Benz. (ug/L)	ND	ND	ND	ND	ND
Xylene (ug/L)	ND	ND	ND	ND	ND
TOG (mg/L)	NA	NA	NA	NA	ND

Cont. Table 4 - Water Sample Analysis Results, Well No. MW-3

Compound	Aug. 1994	Nov. 1994	Feb. 1995	May 1995	Sept. 1995
TPH-G (ug/L)	ND	ND	ND	ND	ND
TPH-D (ug/L)	ND	ND	ND	ND	ND
Benzene (ug/L)	ND	ND	ND	ND	ND
Toluene (ug/L)	ND	ND	ND	ND	ND
Et. Benz. (ug/L)	ND	ND	ND	ND	ND
Xylene (ug/L)	ND	ND	ND	ND	ND
TOG (mg/L)	NA	NA	NA	NA	ND

ug/L = ppb

mg/L = ppm

ND = Not Detected

NA = Not Analyzed