#### **HEALTH CARE SERVICES**

**AGENCY** 

DAVID J. KEARS, Agency Director



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

December 3, 1997 StID # 4440

#### REMEDIAL ACTION COMPLETION CERTIFICATION

Mr. Roy Hatton 22985 Valley View Dr. Hayward, CA 94541

Mr. John Bacon Sr. P.O. Box 184

So. San Francisco, CA 94080

FAX (510) 337-9335

RE: 752 High St., Oakland CA 94621

Dear Mssrs. Hatton and Bacon:

This letter confirms the completion of site investigation and remedial action for the three 3,000 gallon stoddard, one 2,500 gallon waste stoddard sludge and 550 gallon waste oil 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

Kevin Graves, RWQCB

Mr. Dave Deaner, SWRCB Cleanup Fund

Mr. Leroy Griffin, City of Oakland OES, 505 14th St., Suite 702, Oakland CA 94612

RACC752

#### **HEALTH CARE SERVICES**

**AGENCY** 

DAVID J. KEARS, Agency Director



December 5, 1997 StID# 4440

Mr. Roy Hatton 22985 Valley View Dr. Hayward CA 94541 ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250

Mr. Joh Alameda CA 94502-6577 P.O. BOMALS & 337-9335 So. San Francisco, 94080

RE: Fuel Leak Site Case Closure- 752 High St., Oakland CA 94621

Dear Mssrs. Hatton and Bacon:

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:

\* 837 parts per million (ppm) Total Petroleum Hydrocarbons as gasoline (TPHg) and 0.10, 1.6, 6.0, 34 ppm BTEX, respectively remain in the soil at the site.

\* 690 parts per billion (ppb) TPHg, 470 ppb TPH as stoddard solvent, 1400 ppb TPH as diesel and 0.65, 1.7, 2.5, 8.3 ppb BTEX, respectively remain in the groundwater beneath the site.

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

Barney M Clan

Hazardous Materials Specialist

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)

trlt752

### CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION Date: October 21, 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: Roy Hatton Project

Site facility address: 752 High St., Oakland CA 94621

RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 4440

ULR filing date: 3/8/89 SWEEPS No: N/A

Responsible Parties: Addresses: Phone Numbers:

1. Roy Hatton 22985 Valley View Dr. (510) 537-5840

Hayward CA 94541

2. John Bacon Sr. P.O. Box 184 So. San Francisco, 94080

Tank No:	<u>size in</u> gal.:	<u>Contents:</u>	<pre>Closed in-place   or removed?:</pre>	<u>Date:</u>
1	3,000	stoddard solvent	Removed	4/4/89
2	3,000	11 11	11	' 11'
3	3,000	11 11	11	11
4	2,500	stoddard sludge	11	<b>*</b> P
5	550	waste oil ?	H	11

#### III RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: likely from holes in bottom of solvent USTs

Site characterization complete? Yes

Date approved by oversight agency:

Monitoring Wells installed? Yes Number: 1 , MW14 installed by Exxon on adjacent downgradient property

Page 1 of 4

#### Leaking Underground Fuel Storage Program

Proper screened interval? uncertain, well construction of MW14 unknown, however, MW9 also located at 720 High St. is screened from 7-33' bgs

Highest GW depth: 7.18' Lowest depth: 10.23'

Flow direction: w-sw based upon gradient at 720 High St.

Most sensitive current use: commercial/industrial

Are drinking water wells affected? No Aquifer name: NA

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

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

Report(s) on file? **Yes** Where is report(s)? Alameda County

1131 Harbor Bay Parkway,

Poom 250 Alameda CA 94502-4

Room 250, Alameda CA 94502-6577

#### Treatment and Disposal of Affected Material:

<u>Material</u>	Amount (include units)	Action (Treatment of Disposal w/destination)	<u>Date</u>
Tanks & Piping	3-3,000 gallon	Disposed by H&H, San Francisco	4/6/89
	1-2500 gallon 1-550 gallon	unknown disposition	
Soil	approx 400cy	aerated, treated and reused onsite	8/90
Groundwater	3500 gallon 1500 gallon	Disposed, H&H Ship Service	2/22/89 7/12/90

### Maximum Documented Contaminant Concentrations - - Before and After Cleanup Contaminant Soil (npm) Water (nph)

Contaminant	Boil	(ppm)		Water	(ppb)
1	. <u>Before</u>	After	2	3 Before	After 4
TPH gasoline		837			690
TPH stoddard				2,500,00	0 470
TPH diesel	13,000	ND		88,000	1400
Benzene	ND	0.10			0.65
Toluene	ND	1.6			1.7
Ethylbenzene	ND	6.0			2.5
Xylenes	ND	34			8.3
Oil and Grease				10,000	
Metals: Pb, As, Cd, Cr &	z Zn		1	L800,ND,19	,ND,2100
HVOCs	ND		1,	2-DCA 4.5	ND-VOCs
PCBs				ND	

#### Leaking Underground Fuel Storage Tank Program

Comments (Depth of Remediation, etc.):

1 pit & sidewall samples (4/89)

2 from boring 8-18-MW14, 18' sample from MW14 on Exxon site

3 pit water samples (4/89)

4 3/19/97 monitoring event for MW14

#### 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: Health and Safety Plan required to protect workers performing subsurface excavation. Caution should be taken not to create any vertical or horizontal conduits for groundwater or vapor migration.

Number Retained: 0

Should corrective action be reviewed if land use changes? Yes

Monitoring wells Decommisioned: NA

Number Decommisioned: 0

List enforcement actions taken: None

List enforcement actions rescinded: NA

#### V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Barney M. Chan Title: Hazardous Materials Specialist

signature: Barrey W Cha Date: 10/2/197

Reviewed by

Name: Tom Peacock (\ , Title: Manager

Signature: //m deavor Date: 10 00

Name: Susan Hugo Pamela J. Blans Title: Hazardous Materials Specialist

Signature Camela & Guano Date: 10/17/97

Page 3 of 4

#### Leaking Underground Fuel Storage Tank Program

VI. RWQCB NOTIFICATION

Date Submitted to RB:

RB Response:

RWQCB Staff Name: K. Graves Title: AWRCE Date:

1/4/47 VII. ADDITIONAL COMMENTS, DATA, ETC.

see site summary

Page 4 of 4

Site summary for 752 High St., Oakland CA 94601 StID # 4440, Hatton Property

This site was formerly a laundry and dry cleaning facility. Based upon chemical analysis of underground tanks removed from this site, stoddard solvent was used for dry cleaning, not chlorinated solvent. Three 3000 gallon conical underground tanks were situated side by side, vertically, along the current border of 752 High St. and the former Exxon station at 720 High St.. Next to the group of three tanks to the east was smaller wooden underground tank (approx. 2500 gallon) reported to contain the sludge from the dry cleaning process. Another 550 gallon concrete tank, believed to contain waste oil, was located next to the wooden tank. The exact number of USTs is unclear because the underground tank closure report doesn't contain any disposal records for the wooden or concrete tanks, just receipts for the three steel tanks. Also, it is unclear whether 2TP referenced in the removal report represents the former wooden UST pit or the former 550 gallon concrete tank pit plus the wooden UST pit. It's likely that 2TP represents the pit for both former tanks.

South of the tanks, but still on the property, there were locations of visual surface oil contamination associated with the operation of Ed's Auto Parts who operated this portion of the property through a lease with the owner.

January 17, 1989- Thirteen borings ranging from 1-5' depth were advanced in the area of the observed oil contamination. Oil and Grease up to 15,000 ppm were detected in these samples. Only one sample, EB2-2, which detected 510 ppm Oil and Grease, was tested for the additional analytes, TPHd, BTEX and HVOCs all of which were ND. Total lead was detected at 370 ppm in sample EB3-3. The May 15, 1990 Earth Metrics report recommended the scraping and removal of the limited area where total lead was detected at 370 ppm. Unfortunately, there is no information confirming that this was done nor any confirmatory sampling. However, confirmatory samples of the biologically treated stockpiled soils were analyzed for TOG and TPHd, indicating that the oil and grease areas may have been excavated.

April 4, 1989- The three underground stoddard solvent tanks were removed. It is assumed that the other two tanks were also removed at the same time. The stoddard tank pit was referred to as Tank X3 and the other tank pit containing the wooden and concrete tanks was referred to as Tank X4. Ten pit and sidewall soil samples were taken from the excavations. Up to 13,000 ppm TPHd was detected in these samples. The TPH detected in these samples was characterized as either diesel or stoddard solvent. Selective samples were also tested for Tetrachloroethylene and

Site summary 752 High St. StID # 4440 Page 2.

BTEX. None of these analytes were detected. Groundwater encountered in the pits during the removal was also tested. TPHstoddard up to 2,500 ppm and TPHd up to 88 ppm was detected in the water samples.

Due to the uncertainty of the location of samples and the apparent need to overexcavate, additional sampling occurred in August of 1990 after overexcavation. The contractor, J. Quarle', stated that the solvent tank pit was overexcavated to a depth of 20'.

August 1990- Because of the lack of confidence in the initial tank removal results, additional sampling of the tank pits and sampling of the stockpiled soils was done. Six sidewall samples were taken from the solvent pit and four from the smaller pit. All samples were taken at a depth of 8', just above static groundwater level. These samples were analyzed for TPH high boilers. This would adequately detect TPHd, however, would not detect the lighter fraction of stoddard solvent, (C7-C12). Although the sidewalls samples indicated little lateral contamination, soil contamination at the bottom of the pit may still remain. However, since the pit was excavated to approximately 20' bgs, a large part of contamination was removed.

The stockpile soil was also sampled. Thirty-two discrete samples from a depth of 4' from the approximate 400 cy of spoils was sampled and analyzed for TPH high boilers. Up to 410 ppm TPH high boilers was detected. A plan to bioremediate these soils was approved by our office. The stockpiled soils were spread on visqueen and leveled to a depth of one foot. An irrigation system was installed to maintain moisture content. Nutrients were added along with a bacteria culture. Oil and grease and TPHd was sampled in the spoils. TPHd was detected up to 2.3 ppm and oil and grease up to 410 ppm. The February 6, 1991 Earth Metrics report left out some information (total volume of spoils and the analysis for TPHstoddard), however, it concludes that two of the three stockpiles could be reused to backfill the tank pits while the third should be disposed at an acceptable landfill based upon the detection of lead.

April 15, 1991- correspondence from Earth Metrics and Ms. Cynthia Chapman of ACEH notified her that all stockpiled soils would be reused since the soil in question with 270 ppm lead did not require disposal since it did not exhibit hazardous levels of total lead. Backfilling of this soil into the tank pits apparently occurred later that month.

Site summary 752 High St. StID # 4440 Page 3.

Although there appears to have been both surface and underground tank releases at this site, significant groundwater monitoring downgradient of this site on the former Exxon property has been performed which would detect any release from the solvent USTs. Grab groundwater samples from the tank pits detected only TPHstoddard, TPHd and 4.5 ppb 1,2-DCA. No BTEX or PCBs were detected in the grab groundwater samples. Although additional subsurface investigation could be performed to complete our knowledge of the site, it appears that this site should be considered a low risk groundwater case and recommended for site closure based upon the following:

- 1. The leak has been stopped. The underground storage tanks were removed and a considerable amount of contaminated soil was excavated. The contaminated soil was spread, aerated, biologically and chemically treated and reused onsite. The failure to document the excavation of oil and grease contamination and to analyze the soil samples for TPHstoddard solvent is unfortunate but not critical. Oil and grease in the spoils was remediated during the bioremediation process. Stoddard solvent is volatile, therefore, both volatilization and bioremediation likely occurred on the stockpiled soils. Any residual contamination from the stoddard solvent tanks is a groundwater issue.
- 2. The site has been adequately characterized. Groundwater impact has been monitored over a lengthy period of time (1990-1997) through monitoring of MW-14 at the former Exxon site. MW-14 is immediately downgradient of the former solvent tank pit.
- 3. Any migrating plume from this site would eventually be captured in the extraction system currently in operation at the former Exxon site. Their remediation system consists of an extraction trench which collects and transfer groundwater to a holding tank, through an airstripper and then through an activated carbon canister before being discharged to EBMUD.
- 4. The release from this site is from stoddard solvent which does not contain any benzene. The toxicity of stoddard solvent in comparison to gasoline is low. The contribution of the stoddard solvent release relative to the total TPHg release at 720 High St. is small.

Borings in oil Stained area. HICH ST. Former Exxon Station 146 EB-II EB12 十 +EB-3 EXPLORATORY BORING En-) Sils To

BE OF HAULED





FIGURE 2. SOIL SAMPLE MAP

TABLE 1. SOIL SAMPLE TEST DATA FOR 752 HIGH STREET, OAKLAND, CALIFORNIA (JANUARY, 1989)

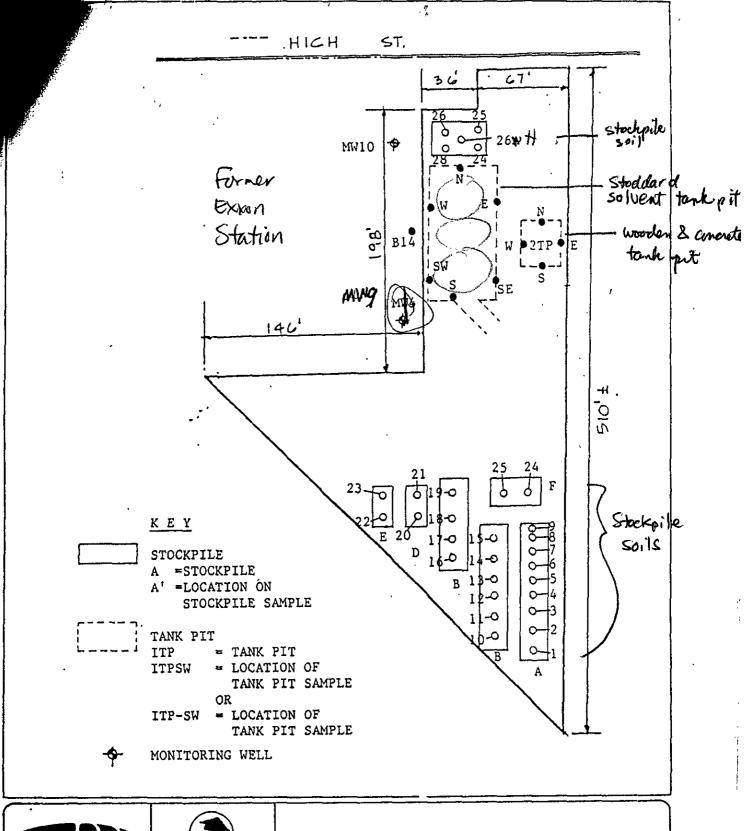
SAMPLE LOCATION	SAMPLE DEPTH		,		,		,	
I.D. (SEE FIG. 2)	BELOW GRADE (FEET)	TOG (OIL AND GREASE)	BENZENE	ETHYL- BENZENE	TOLUENE	XYLENES	TPHd (DIESEL)	TOTAI LEAD
EB1 -	2	60	NT	NT	NT	NT	NT	NT
EB2 -	2	510	ND	ND	ND	ND	ND ,	NT
EB2 -	4	640	NT	NT	NT	NT .	NT '	NT
EB3 -	3	37	NT	NT	NT	NT	NT	370
EB4 -	1.5	15,000	NT	NT	NT	NT	. NT	NT
EB5 -	2	40	NT	NT	NT	NT	NT	NT
EB6 -	1 '	7,000	NT	NT	NT	NT	NT	NT
EB7 -	2	100	NT	NT	NT	NT	NT	ND
EB8 -	2	10	NT	NT	NT	NT	NT ·	4,4
EB10 -	5	ND	NT	NT	NT ·	NT	NT	ND
EB11 -	2	140	NT	NT	NT	NT	NT	1.4
EB12 -	5	ND	. NT : .	NT .	. NT	NT	, NT	ND
EB13 -	3	20	NT	NT	NT	NT	. NT	6.6
EB14 -	5	ND	. NT	NT	NT	NT	NT	ND
backfill	STD	10.0	-	•		-	-	-

NT - Not Tested
ND - Not Detected

4. 1

Results in ppm (parts per million)

Source: GTEL Lab.







SCALE NO SCALE FIGURE B-1 SOIL SAMPLE

752 High St 94601

TABLE 3. 'PIT AND SIDEWALL SOIL TEST DATA FOR 752 HIGH STREET, OAKLAND, CALIFORNIA (APRIL, 1989)

. 4

100

100

ORIGINAL	TANK	Pull SA	moles				<del></del>
	TPH DIESEL EPA	FUEL			ETHYL-		
	8015	CHAR	TCE	BENZENE	BENZENE	TOLUENE	XYLENE
	<del></del>					t ·	
INE	ND	NA	NT	ND	ND	ND	ND
2NW\	13,000°	D	NT	ND	ND	ND	ИD
3sw \	1,400	D	NT	ND	ND	ND	ND
4SE \ .	ND	NA	NT	ND	ND	· ND	ND
4NE	48	ST/	ND	NT	NT	'nт	. NT
\ 5SE	₹360	s7	ND	NT	NT	NT	NT
\ 6SW	√500 ≒	sfr	ND	NT	NT	nt	NT
\7NW. /	54	ST	ND	NT	NT	NT 🕟	. NT
1NV, 2NE 350 Comp	4380	ST	NT	NT	NT	NT	. NT
10WE	ND	NX	NT	NT	NT	NT	NT
11EA	ND	NT	NT	NT	NT	NT	NT

001

100

100

Date of Sampling: 4/6/89

NT - Not Tested ND - Not Detected Results in ppm.

Standard

у,

EPA 8015 - Total Fuel Hydrocarbons as Diesel

100

ST - Stoddard Fuel Type

D - Diesel Fuel Type \
TCE - Tetrachloroethylene

Source: Brown and Caldwell Lab.

MHICH PICK;

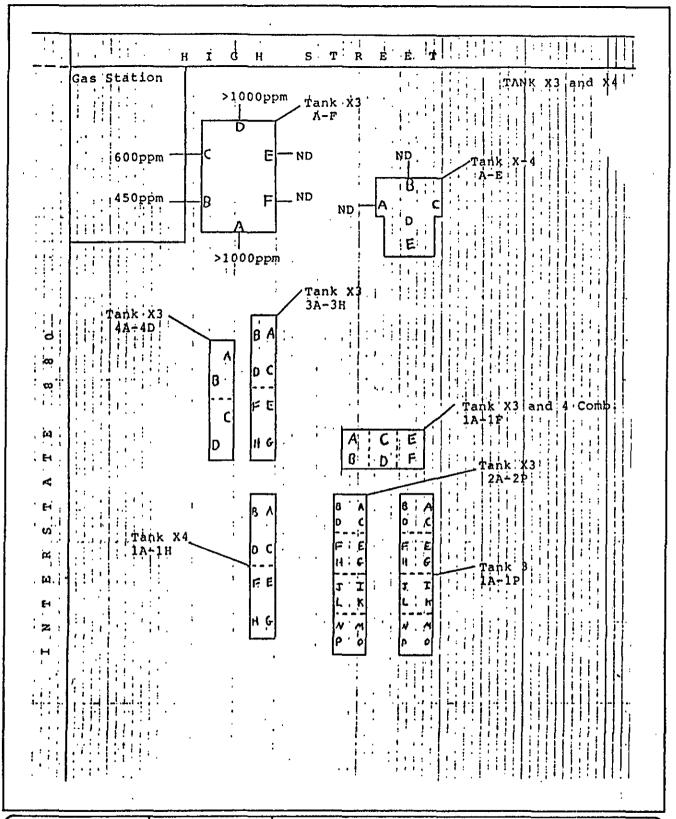






FIGURE 3. STOCKPILE SOIL SAMPLE AND LOCATIONS

Z

TABLE 2. RESULTS OF SAMPLING AND SOIL ANALYSIS FOR TANK PITS AT ED'S AUTO PARTS 750 HIGH STREET

	0190 SAMPLING AFTER OV	EREXCAVATION
I	SOIL DESCRIPTION	HIGH B.F. HYDROCARBON (PPM)
Solvent tank pit sludget wadeout	1TP-8-S 1TP-8-N 1TP-8-E 1TP-8-W 1TP-8-SW 1TP-8-SE 2TP-8-S 2TP-8-N 2TP-8-E 2TP-8-W	ND PPM ND PPM 3.9 PPM 4.9 PPM 17 PPM 5.7 PPM 12 PPM 15 PPM 11 PPM
		(ppm). (EPA Method 8015). above the analytical detection reports in Appendix A for list of

specific compounds tested for.

Sample designation: 2TP-8-W

These samples show that no further excavation of the tank pits is required at this location.

Location in the pit — Sample depth in feet

Tank Pit tested

TABLE 4. PIT MATER TEST DATA FOR 752 HIGH STREET; DAKLAND, CALIFORNIA (APRIL, 1989)

	тох	Lead	۸s	Cad	Cr	Žn	418.1	PCB RCB	8015 TPK	FUEL CHAR- ACTER	B	7	Ε	х	601
GWT 01A #2	.058	1.8	ND	.019	ND	2.1	ND	NT	NT	NT	NT	NT	NT	NT	NT
GWT 01 #11	NT	NT	NT	NT	NT	NT	7	NT	NT	NT	NT	NT	NT	NT	NT
GWT 01 #12	NT	NT	NT	NT	_NI	NI	ž. 3	NT	NT	NT	HT	NT	NT	NT	NT
GWT 01 #13	NT	NT	NT	NT	NT	NT	48	NT	NT	NT	NT	NT	NT	NT	NT
JQ 28T	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT	NT	NT
JQ 8TP	NT	NT	NT	NT	NT	NT	NT	. NT	2,500	··· ST	NT	NT	NT	NT	NT
JQ STP	NT	NT	NT	NT	NT	NT	NT	NT	88	D	ND	ND	ND	.004	NT
JQ 95P	NT	NT	NT	NT	NT	NT	ИT	KT	1.7	ST.	NT	NT	NT	NT	NT
JQ 1BT	NT	NT	· NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	*
Studge 01A #1	NT	ND	ND	ND	ND	ND	RT	NT	NT	NT					
Date of Samp		4/17/89								٠,٠	رح	; r <sup>c</sup>	W~~		-

130 (YE & Se

ND = Not Detected

\* = 1,2-Dichloroethane

TP = assumed to be Tank Pit

BT = assumed to be Bulk Tank

SP = assumed to be Soils Pit

GWT = Groundwater Tech Sample - no assumption made

JQ = J. Quarte & Assoc. Sample

Results in ppm.

TOX ≈ Total Organic Halides

Ar = Arsenic ...

Cad \* Cadmium

Cr = Total Chromium.

Zn = Zinc

418.1 = Total Recoverable Hydrocarbon

PCB = Polychlorinated Biphenyls
TPH 8015 = Total Fuel Petroleum Hydrocarbons

601 ≈ Total Organic Volatiles

D = Diesel (fuel character)

ST = Stoddards (fuel character)

B = Benzene

E = Ethylbenzene

T = Toluene.

X = Xylenes

Source: BC Lab and GTEL Lab.

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TABLE 1. RESULTS OF SAMPLING AND SOIL ANALYSIS FOR STOCKPILES OF SOIL AT ED'S AUTO PARTS 750 HIGH STREET INTIAC SAMPLING (6/90).

SEE FIG B-1 for sample	. locations
SOIL DESCRIPTION	HIGH B.P. HYDROCARBON IN PFM
S-4-A1	65 PPM
S-4-A2	77 PPM
S-4-A3	90 PPM
S-4-A4	80 PPM
S-4-A5	53 PPM
S-4-A6	23 PPM
S-4-A7	54 PPM
S-4-A8	47 PPM
S-4-B9	68 PPM
S-4-B10	190 PPM
S-4-B11	110 PPM (h) th
S-4-B12	410: PPM
S-4-B13	77 PPM .
S-4-B14	130 PPM
S-4-B15	120 PPM
S-4-C16	140 PPM
S-4-C17	220 PPM
S-4-C18	160 PPM `
S-4-C19	94 PPM
S-4-D20	43 PPM
S-4-D21	43 PPM
S-4-E22	110 PPM
S-4-E23	56 PPM
S-4-F24	95 PPM
S-4-F25	77. PPM
S-4-H24	8.7 PPM
S-4-H25	3.5 PPM
S-4-H26	230 PPM
S-4-H28	120 PPM
S-4-H26A	310 PPM
l	

Results in parts per million (ppm).

TOG - Hydrocarbon as Diesel (EPA Method 8015).

ND - no compounds detected above the analytical detection limit; see laboratory reports in Appendix for list of specific compounds tested for.

Sample designation: S-4-H25

Stockpile and Location
Sample depth in feet
Type of sample S - Soil

WNSRE IS H 24-25

Should run TPHg & TPHd & TOG(He)

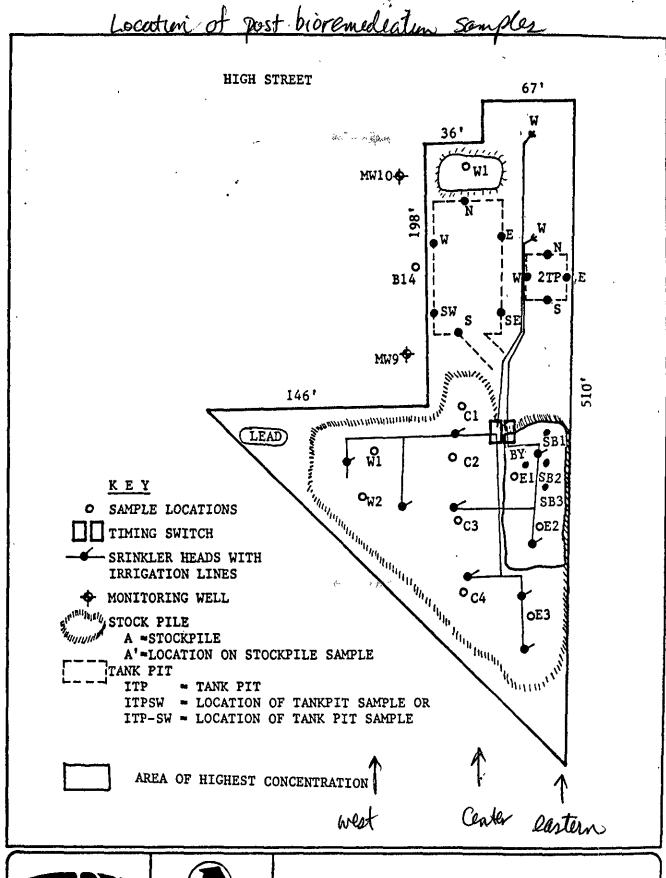






FIGURE 3. SOIL SAMPLE LOCATIONS

TABLE 2. RESULTS OF SOIL ANALYSES FOR ED'S AUTO PARTS, 752 HIGH STREET,

AFTER BIOREMEDIATION

SAMPLE GROUP	SAMPLE	TPHD	OIL AND GREASE
Center	S-1-C1	ND	ND
Center	S-1-C2	1.4 ppm	ND
Center	S-1-C3	1.7 ppm	ND
Center	S-1-C4	1.8 ppm	ND
Western	S-1-W1	2.3 ppm	ND
Western	S-1-W2	1.7 ppm	ND
Western	S-1-W3	1.4 ppm	ND
Eastern	S-1-E1	ND	410 ppm
Eastern	S-1-E2	ND	ND
Eastern	S-1-E3	ND	52.97. ppm

ND - Not Detected

TPHD - Total Petroleum Hydrocarbon as Diesel (8015) Oil and Grease - Oil and Grease by 5520 D&E

1 - 1 foot below surface

El - Sample location, see Figure 3

# TABLE 4 CUMULATIVE RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES Former Exxon Service Station 7-3006 720 High Street Oakland, California (page 3 of 7)

Sample No.	TPHg ppm	Benzene ppm	Toluene ppm	Ethyl- benzene ppm	Total Xylenes ppm	TPHd ppm	TOG ppm	VOC ppm
S-5-B17	<2	<0.050	<0.050	< 0.050	<0.050	<10		
S-7.5-B17	8.1	0.085	< 0.050	0.19	0.24	-		_
S-10-B17	7.1	0.091	<0.050	0.20	0.25	200	_	_
S-5-B18	210	1.6	0.71	3,9	12	46		_
S-7.5-B18	210	2.4	0.50	4.8	20	270	-	-
S-10-B18	130	0.93	0.36	2.8	11	2000	-	-
S-10-B19	210	<0.5*	<0.5*	1.7*	<0.5*	210	<300	ND
S-10-B20	3100	<5.0*	<5.0*	64.0*	120.0*	360	73	87▲
S-1128-ABCD**	160	-	-	~		160	<50	-
October 31 and November	1. 1990							Working
S-3-MW14	<1.0	< 0.005	< 0.005	< 0.005	< 0.007	<10	-	<u> </u>
S-8-MW14	< 1.0	< 0.005	< 0.005	< 0.005	< 0.007	<10	_	ŝ
S-18-MW14	837	0.10	1.6	6.0	34	<10	-	Ģ.
See notes on page 7 of 7.								- O Xey

To Restore Nature

# TABLE 5 CUMULATIVE RESULTS OF LABORATORY ANALYSES OF GROUNDWATER SAMPLES

Former Exxon Station 7-3006

Oakland, California Page 12 of 14

See notes on page 14

				ETHYL	TOTAL	TPHO	TOG	VOC.
WELL	TPHg	BENZENE	TOLUENE	BENZENE	XYLENES			
DATE		(1) (2) (2) (2) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					1
MW-14	1		<0.0005	0.0036	0.0037	0.12	NA	NA
11/90	0.39	<0.0005	l	0.0008	0.0036	<0.10	NA.	NA NA
03/91	0.20	<0.0005	0.0015		< 0.0005	< 0.10	NA	NA
06/91	0.11	<0.0005	<0.0005	<.0005	0.0023	NA NA	NA	NA
09/91	0.45	< 0.0005	<0.0005	0.0032		0.28	NA.	NA
12/91	0.071	2000.0	<0.0005	<0.0005	<0.0005	0.64	NA	NA NA
03/92	0.061	<0.0005	< 0.0005	0.0011	< 0.0005	]	NA.	NA NA
1	0.140	< 0.0005	< 0.0005	0.0006	0.0020	0.35	NA NA	NA NA
06/92	0.075	<0.0005	< 0.0005	< 0.0005	<0.0005	0.30	1	}
09/92	0.35	0.0025	0.0010	0.0015	0.0081	0.22	NA	NA NA
12/92	1	<0.0005	<0.0005	6.0009	0.0016	<0.252	NA	NA NA
03/93	0.41	<b>~U.U.D</b>		<del> </del>				1
MW-15			0.0055	0.6	0.25	0.34	. NA	. NA
11/90	2.7	0.21	1 0.003	Not Acc	  sible	1	•	•
03/91	1					<0.10	NA	NA.
06/91	0.38	<0.0005	<0.0005			1	N/A	NA NA
09/91	0.49	0.0029	0.0017	1				NA NA
12/91	1.6	0.014	0.0011	0.066	0,0090			

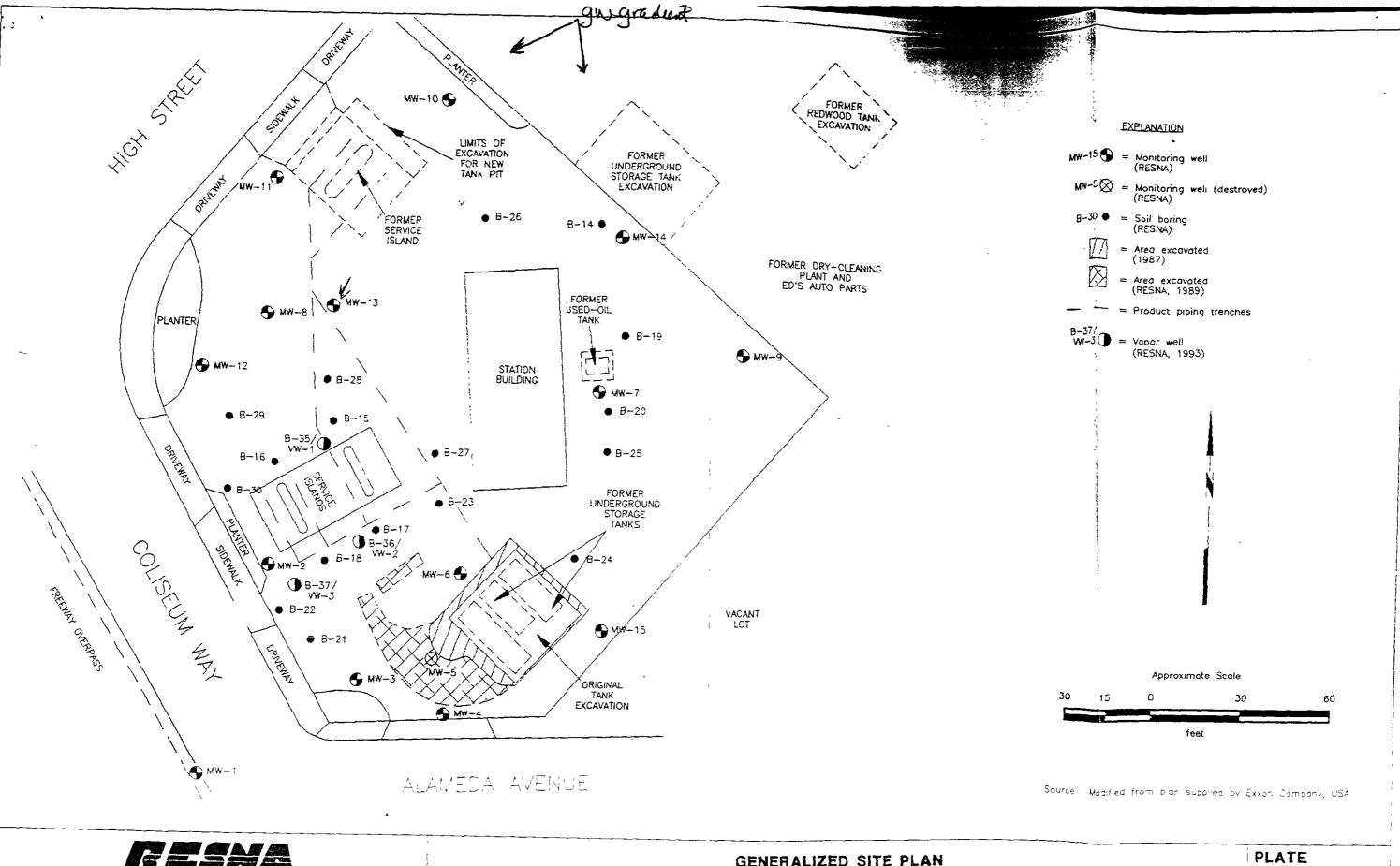


## TABLE 1 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA Former Exxon Service Station 7-3006

#### 720 High Street Oakland, California

(Page 6 of 7)

Test (D)	Samplin	ig SUBJ	DTW	Elev								
(toc)	Date	<	feet	2101	*****	В	1		<u> </u>	X M		
MW13	1/20/9		9.08		> <				billion	X M	тве тер	Hd VOC
(14.20)	02/02-03	94 NLPH	8.75	****				parts pe	Dillion			>
	3/10/94			5.45	**1001	3,800	1,50	)n	20			
	4/22/94	Sheen	7.46				.,	00 2,7	00 9,	500 እ	NA 8,10	0 N.
	05/10-11/	94 NLPH	7.78	6.42							3,10	0 NA
	6/27/94	NLPH	7.61	6.59	39,000	3,400	0.7.0					
	8/31/94		7.97	6.23		3,400	930	2,40	00 8.9	100 N	A 15,00	0
	9/29/94	. NLPH	9.21	4.99							. (5,00	0 NA
	10/25/94	NLPH	9.61	4.59	57,000	2 100						
	11/30/94	5114411	9.93	4.27	- 1,500	2,100	470	2,60	0 8,1	00 N.	A	
		NM	8.16	6.04					, .	•••	A 320	NA
	12/27/94	NM	7.61	6.59								
	2/6/95	Sheen	5.89	8.31								
	6/7/95	Sheen	8.05	6.15								
	9/18/95	Sheen	9.94	4.26								
	11/1/95	Sheen	10.48									
	2/14/96	Sheen	8.88	3.72								
	6/19/96	Sheen		5.32								
	9/24/96	Sheen	7.22	6.98								
	12/11/96	Sheen	10.27	3.93								
	3/19/97	Sheen	8.77	5.43								
		aucell	9.46	4.74								
MW14	1/20/94											
(15.18)   		NM	NM									
	02/02-03/94	Not Accessible										
	3/10/94	NLPH	7.84	7.34								
	4/22/94	NLPH	8.00	7.18								
	05/10-11/94	NLPH	7.93	7.25								
	6/27/94	NLPH	8.19		300	2.7	7.9	2				
	8/31/94	NLPH	9.44	6.99				-	27	NA	11,002	NA
	9/29/94	NLPH	9.82	5.74								
	10/25/94	NLPH		5.36	300	< 0.5	< 0.5	0.0				
	11/30/94	NM	9.99	5.19	200	< 0.5	< 0.5	09	1.3	1,600	NA	NA
	12/27/94	Sheen	8.16	7.02		-	~ 0.3	0.8	< 0.5	210	NA	
	2/6/95	NLPH	8.15	7.03							••••	NA
			7.18	8.00	360	< 1.0						
	6/7/95	Additional An	alysis TOG	400		~ 1.0	< 1.0	< 1.0	< 1.0	NA	1 200	
		NLPII	7.70	7.48	670	40.6				••••	1,200	NA
		Additional Analy	sis BHCss	450	0.0	< 0.5	< 0.5	3.6	< 0.5	< 2.5		
	9/18/95	NLPH	9.88	5.30						<b>\2.3</b>	1,100	NA
		Additional Analy	ele EUG		1,300	< 2.0	< 2.0	< 2.0				
	11/1/95	NLPH		1,200				- 2.0	3	< 10	1,900	NA
			10.56	4.62	1,100	< 2.5	< 2.5					
	2/14/96	Additional Analys		1,600			~ 2.3	3.2	3.1	< 13	2,700	
		NLPH	9.08	6.10	470	-06					2,.00	NA
	6/19/96	dditional Analys	is EHCss	680	•••	< 0.5	< 0.5	1.3	< 0.5	< 2.5		
	0,13,140	NLPH	8.50	6.68	610				··· <del>·</del>	74,3	1,500	ND
	٨	dditional Analys	is EHCss	670	010	< 2 5	< 2.5	< 2.5	< 2.5			
	7/44/90	NLPH	10.23	4.95	1.000				7 2,2	< 12	2,000	ND
	A	dditional Analysi	s EHC ··		1,000	< 5.0	< 5.0	< 5.0	~ c ^			
	2/11/96		9.09	4,500					< 5.0	< 25	5,100	ND
	A	lditional Analysi	, • Buc	6.09	1,100	< 2.0	< 2.0	-20				- · <del>-</del>
	/19/97		* 4HCs# 7.99	750				< 2.0	3.3	< 10	2,100*	ND
	Ac	Iditional Analysis	. Tu a	7.19	690	0 65	1 7				•	1,0
	*11	Allalysi	CHCss	470				2.5	8.3	< 2.5	1,400	



GENERALIZED SITE PLAN Exxon Station 7-3006 720 High Street Oakland, California

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